NOVEMBER 22 2019

2019 COMPREHENSIVE GROUNDWATER DATA EVALUATION REPORT

FORMER MONTROSE AND STAUFFER FACILITIES

AND CURRENT OLIN FACILITY

HENDERSON, NEVADA

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

2019 COMPREHENSIVE GROUNDWATER DATA EVALUATION REPORT
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TABLE OF CONTENTS

Section Page

ACRONYMS AND ABBREVIATIONS Iv
1.0 INTRODUCTION 1
2.0 GROUNDWATER CONDITIONS 2
2.1 GROUNDWATER FLOW 2
2.1.1 Directions and Gradients – Shallow Zone 2
2.1.2 Direction and Gradients – Middle Zone 3
2.1.3 Direction and Gradients – Deep Zone 5
2.1.4 Vertical Head Differences 6
2.1.5 Shallow and Middle Zone Differences 7
2.1.6 Middle and Deep Zone Differences 7
2.2 GROUNDWATER QUALITY DATA EVALUATED FOR THIS REPORT 7
2.3 DISTRIBUTION OF CHEMICALS 8
2.3.1 Volatile Organic Compounds 9
2.3.1.1 Shallow Zone 10
2.3.1.2 Middle Zone 10
2.3.2 Organochlorine Pesticides 10
2.3.2.1 Shallow Zone 11
2.3.2.2 Middle Zone 11
2.3.3 Metals 11
2.3.3.1 Shallow Zone 11
2.3.3.2 Middle Zone 12
2.3.4 General Chemistry 12
2.3.4.1 Shallow Zone 12
2.3.4.2 Middle Zone 13
2.4 GROUNDWATER TREATMENT SYSTEM 13
3.0 SUMMARY AND FUTURE MONITORING 14
4.0 REFERENCES CITED 16

TABLE OF CONTENTS (Continued)

TABLES

Table

1 WATER LEVEL DATA, SECOND QUARTER 2019

2 VERTICAL HEAD DIFFERENCES, SECOND QUARTER 2019

3 WATER QUALITY DATA, SECOND QUARTER 2019

4 FIELD PARAMETER DATA, SECOND QUARTER 2019

5 SHALLOW ZONE WATER QUALITY DATA – 2019 COMPOUND PREVALENCE

6 MIDDLE ZONE WATER QUALITY DATA – 2019 COMPOUND PREVALENCE

FIGURES

Figure

1 STUDY AREA

2 SHALLOW ZONE, GROUNDWATER GRADIENT AND FLOW DIRECTION

3 MIDDLE ZONE, GROUNDWATER GRADIENT AND FLOW DIRECTION

4 DEEP ZONE, GROUNDWATER GRADIENT AND FLOW DIRECTION

5 WELL SET LOCATIONS AND HEAD DIFFERENCES, SECOND QUARTER 2019

6 BENZENE, SHALLOW ZONE, SECOND QUARTER 2019

7 CHLOROBENZENE, SHALLOW ZONE, SECOND QUARTER 2019

8 CHLOROFORM, SHALLOW ZONE, SECOND QUARTER 2019

9 1,2-DICHLOROBENZENE, SHALLOW ZONE, SECOND QUARTER 2019

10 1,4-DICHLOROBENZENE, SHALLOW ZONE, SECOND QUARTER 2019

TABLE OF CONTENTS (Continued)

Figure

11 ALPHA-BHC, SHALLOW ZONE, SECOND QUARTER 2019

12 BETA-BHC, SHALLOW ZONE, SECOND QUARTER 2019

13 GAMMA-BHC, SHALLOW ZONE, SECOND QUARTER 2019

14 ARSENIC, SHALLOW ZONE, SECOND QUARTER 2019

15 PERCHLORATE, SHALLOW ZONE, SECOND QUARTER 2019

16 BENZENE, MIDDLE ZONE, SECOND QUARTER 2019

17 CHLOROBENZENE, MIDDLE ZONE, SECOND QUARTER 2019

18 CHLOROFORM, MIDDLE ZONE, SECOND QUARTER 2019

19 1,2-DICHLOROBENZENE, MIDDLE ZONE, SECOND QUARTER 2019

20 1,4-DICHLOROBENZENE, MIDDLE ZONE, SECOND QUARTER 2019

21 ALPHA-BHC, MIDDLE ZONE, SECOND QUARTER 2019

22 BETA-BHC, MIDDLE ZONE, SECOND QUARTER 2019

23 GAMMA-BHC, MIDDLE ZONE, SECOND QUARTER 2019

24 ARSENIC, MIDDLE ZONE, SECOND QUARTER 2019

25 PERCHLORATE, MIDDLE ZONE, SECOND QUARTER 2019

26 SHALLOW ZONE FIELD PARAMETERS, SECOND QUARTER 2019

27 MIDDLE ZONE FIELD PARAMETERS, SECOND QUARTER 2019

APPENDICES

Appendix

A ANALYTICAL LABORATORY REPORTS

B DATA VALIDATION SUMMARY REPORT NO. 52

ACRONYMS AND ABBREVIATIONS

1,2-DCB	1,2-dichlorobenzene
1,4-DCB	1,4-dichlorobenzene
BCL	Basic Comparison Level
BRC	Basic Remediation Company
BHC	Benzene Hexachloride
EPA	U.S. Environmental Protection Agency
Former Facilities	Former Montrose and Stauffer Facilities
ft/ft	Feet Per Foot
GWTS	Groundwater Treatment System
H+A	Hargis + Associates, Inc.
MCL	Maximum Contaminant Level
The Companies	Montrose, SMC/Syngenta, and Pioneer
Montrose	Montrose Chemical Corporation of California
NDEP	Nevada Division of Environmental Protection
NERT	Nevada Environmental Response Trust
OCPs	Organochlorine Pesticides
Pioneer	Pioneer Americas LLC d/b/a Olin Chlor Alkali Products
SMC	Stauffer Management Company, LLC
SOPs	Standard Operating Procedures
Standardized Plan	Standardized Groundwater Monitoring Plan
Syngenta	Syngenta Crop Protection, LLC

ACRONYMS AND ABBREVIATIONS, continued

TDS	Total Dissolved Solids
UMCf	Upper Muddy Creek formation
USGS	U.S. Geological Survey
VOCs	Volatile Organic Compounds
µg/l	Micrograms per liter

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1.0 INTRODUCTION

This report was prepared by Hargis + Associates, Inc. (H+A) on behalf of the Montrose Chemical Corporation of California (Montrose), Stauffer Management Company, LLC/Syngenta Crop Protection, LLC (SMC/Syngenta), and Pioneer Americas LLC d/b/a Olin Chlor-Alkali Products (Pioneer) (collectively the Companies) to present and evaluate the 2019 annual groundwater monitoring data collected in the Companies' Henderson, Nevada study area (Figure 1). The 2019 annual groundwater monitoring event was conducted in accordance with the NDEP-approved 2014 standardized groundwater monitoring plan (standardized plan) for the study area (H+A, 2014; NDEP, 2014).

Groundwater monitoring activities presented in this report were conducted during the second quarter 2019 at wells located throughout the study area. Similar to previous years, the 2019 data were supplemented by data available from monitoring programs conducted by the Nevada Environmental Response Trust (NERT). Groundwater data, generated by the Companies for this report, were collected using methods and procedures in accordance with the field sampling and Standard Operating Procedures (SOPs) developed for the study area (H+A, 2007) and with SOPs developed by Basic Remediation Company (BRC) (BRC, 2008).

2.0 GROUNDWATER CONDITIONS

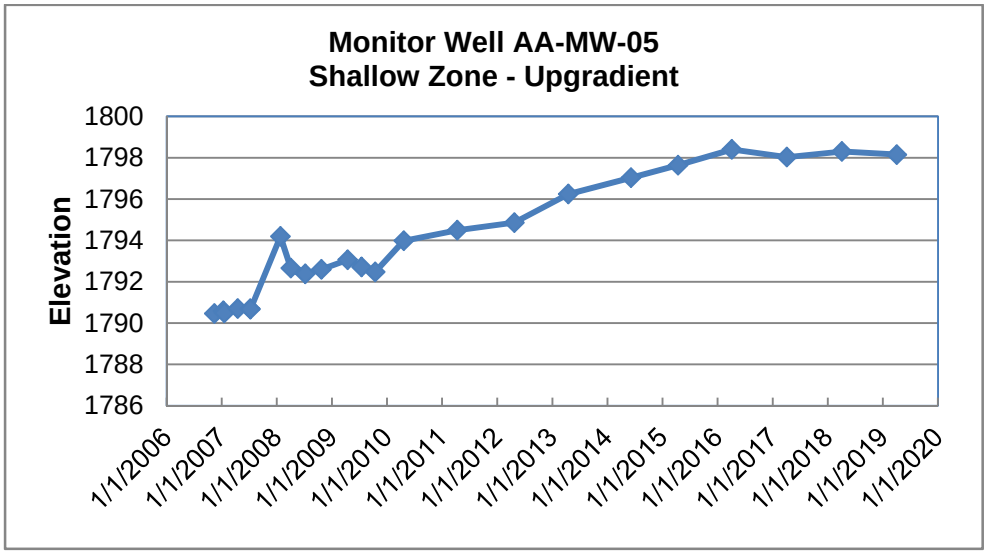
The following sections discuss groundwater flow and quality conditions observed in the Shallow Zone and Middle Zone during the second quarter 2019.

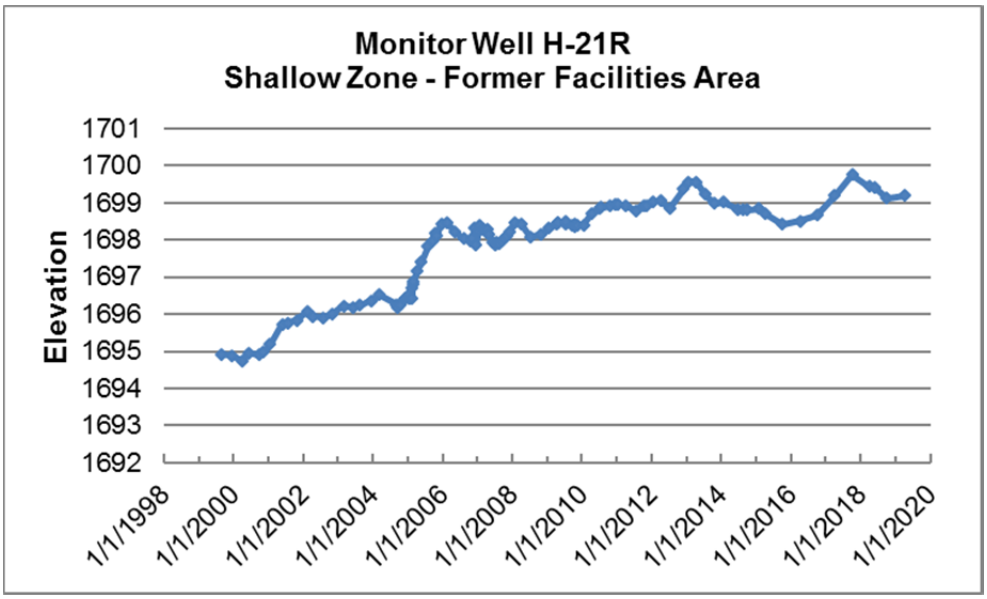
2.1 GROUNDWATER FLOW

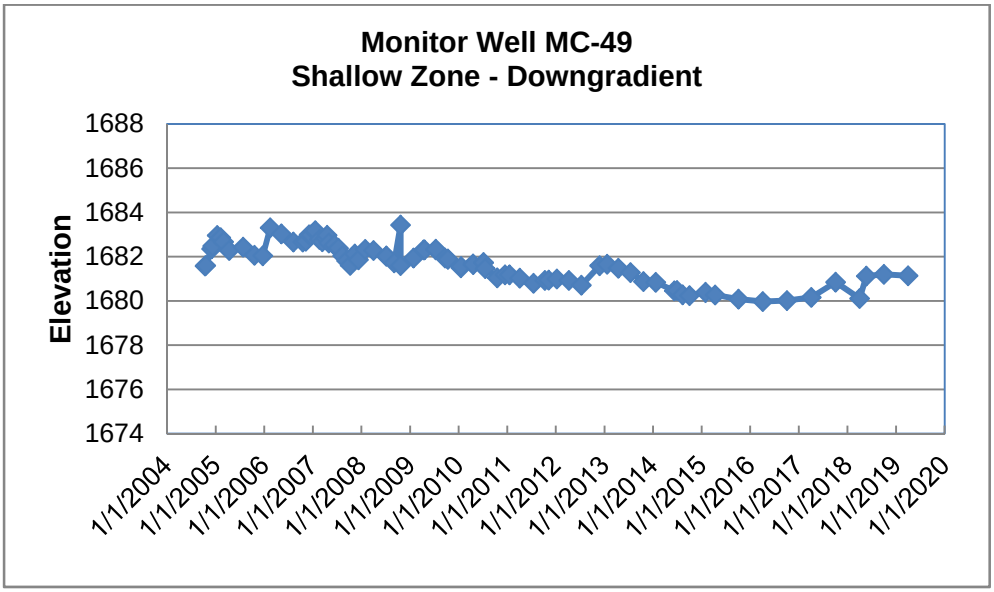
2.1.1 Directions and Gradients – Shallow Zone

Water levels from each of the three hydrostratigraphic zones were measured at monitor wells located throughout the study area in April and May 2019 (Table 1). The direction of groundwater flow in the Shallow Zone was to the north-northeast (Figure 2). The hydraulic gradient in the southern portion of the study area to the former Montrose and Stauffer facilities (the former facilities) was approximately 0.02 feet per foot (ft/ft), which is consistent with historical conditions (Figure 2). The direction of groundwater flow and the flow gradients in the Shallow Zone during the second quarter 2019 were very consistent with previous Shallow Zone conditions measured since 2006 (H+A, 2018).

The directions of groundwater flow and gradients have remained consistent as Shallow Zone water levels have fluctuated across the study area. Shallow Zone water level hydrographs for monitor wells located in various monitoring locations in the study area are provided to illustrate changes over time.





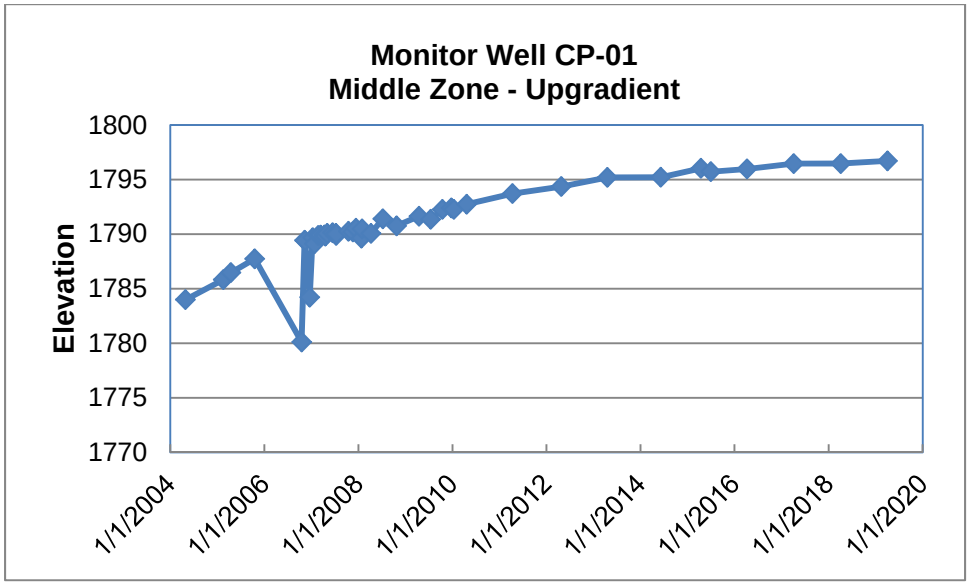


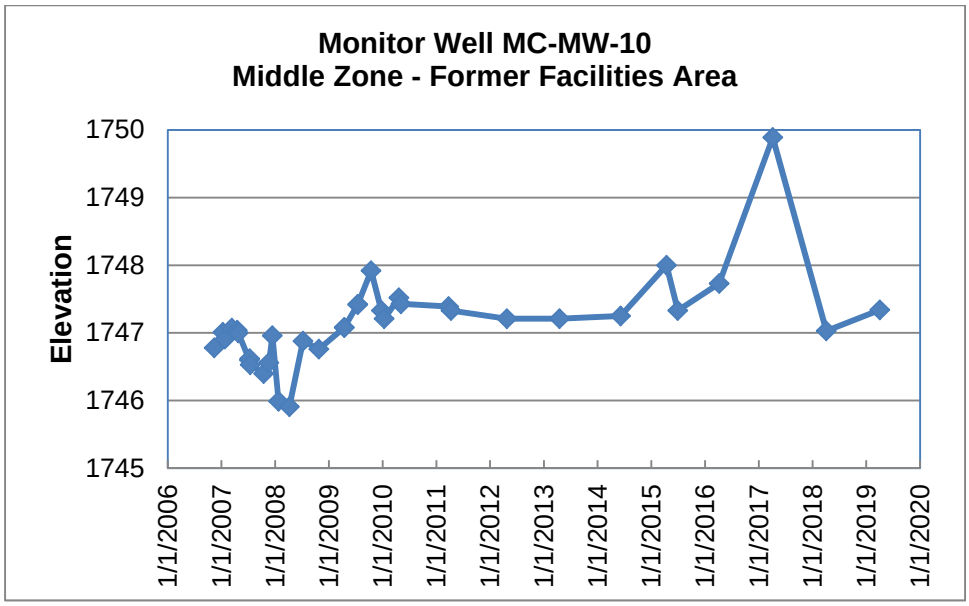
2.1.2 Direction and Gradients – Middle Zone

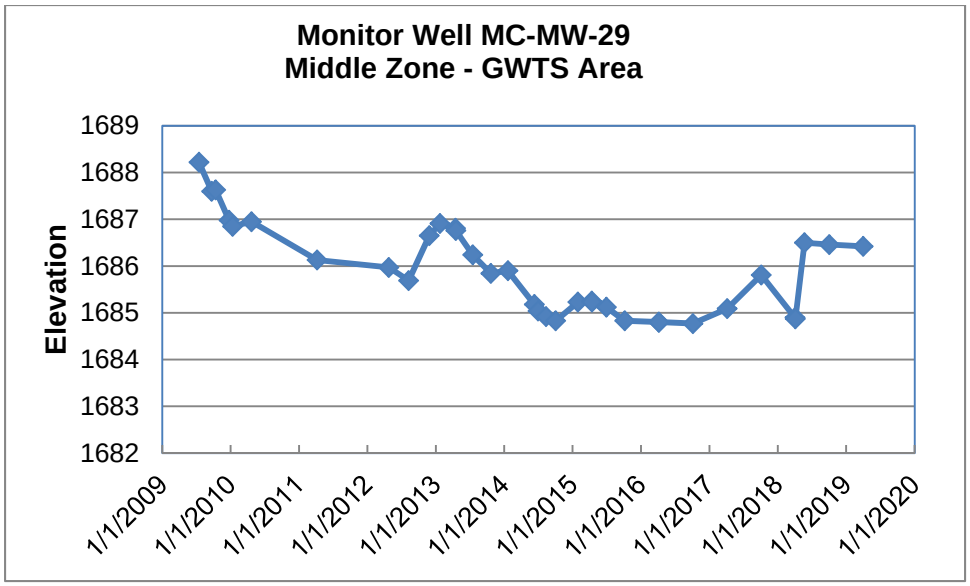
The direction of groundwater flow in the Middle Zone was to the north during the second quarter 2019 (Figure 3). The hydraulic gradient in the Middle Zone ranged between approximately 0.02 ft/ft and 0.03 ft/ft, which are consistent with historical conditions.

The direction of groundwater flow and the flow gradients in the Middle Zone during the second quarter 2019 are consistent with previous Middle Zone conditions measured since 2006 (H+A, 2018). Similar to the Shallow Zone, the direction of groundwater flow and flow gradients in the Middle Zone are very similar to slope of the land surface.

Water levels in the Middle Zone have fluctuated over time. However, the direction of groundwater flow and flow gradients have remained consistent as Middle Zone water levels have risen, remained stable, or have decreased in portions of the study area. Middle Zone water level hydrographs for monitor wells located in various locations in the study area are provided to illustrate changes over time.







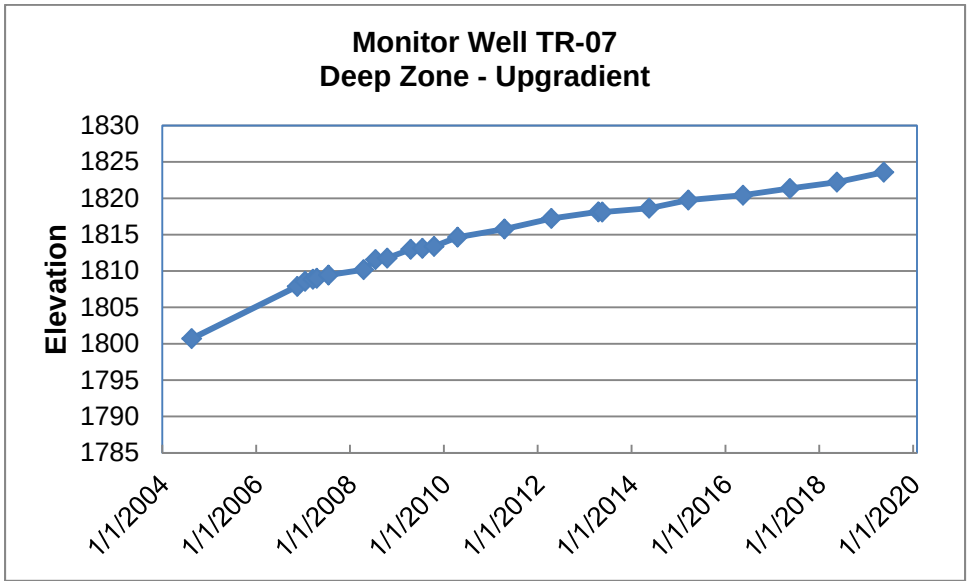
2.1.3 Direction and Gradients – Deep Zone

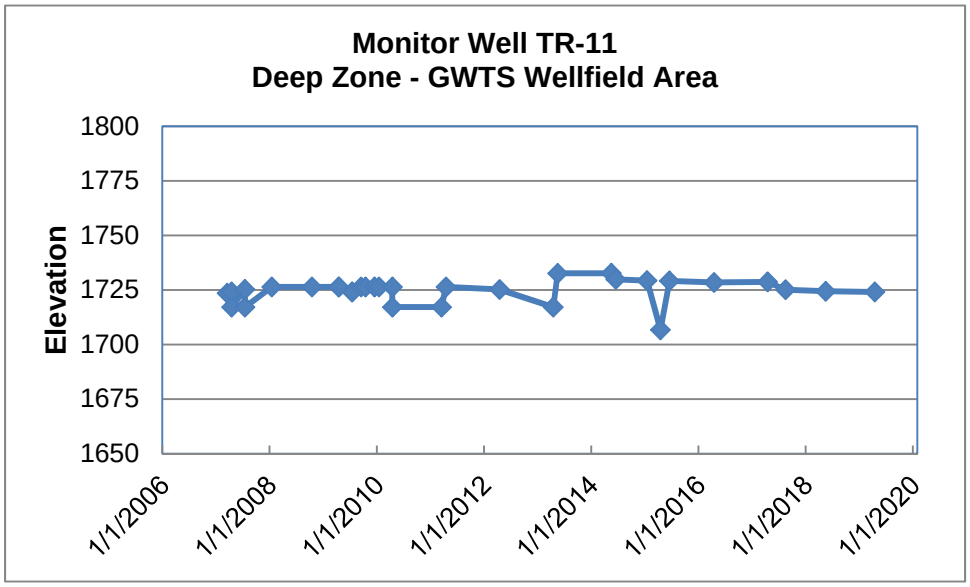
The Companies measured water levels in Deep Zone wells during the second quarter 2019 as outlined in the standardized plan (H+A, 2014). These Deep Zone wells are present at the five vertical delineation well sets.

Deep Zone water level data were also available from NERT. These water level data were used to supplement the Companies' data. Based on data from all wells, the direction of groundwater flow in the Deep Zone was predominately north during the second quarter 2019 (Figure 4). The hydraulic gradient across the study area ranged from approximately 0.01 ft/ft to 0.03 ft/ft.

The direction of groundwater flow and the flow gradient in the Deep Zone during the second quarter 2019 was consistent with previous conditions measured since 2009 (H+A, 2018). Similar to the Shallow and Middle Zones, the direction of groundwater flow and flow gradients in the Deep Zone are very similar to slope of the land surface.

Deep Zone water level hydrographs for monitor wells located in various locations in the study area are provided to illustrate changes over time.





2.1.4 Vertical Head Differences

Vertical head differences are calculated from water levels measured at five well sets arrayed in a south-north direction across the study area (Figure 5). Water levels at individual wells comprising the five well sets were measured on the same day, as requested by NDEP (NDEP, 2015). Logistical constraints at the site caused some of the measurements in well sets 4 and 5 to be delayed by one to two days. Wells B-01 and DPT-01 in well set 1 were measured approximately two weeks later than Deep Well DMC-MW-25 due to access issues associated with construction near these wells. Even with this short delay, the data were found to be consistent with previous calculations.

2.1.5 Shallow and Middle Zone Differences

Groundwater elevations determined at monitor wells completed in the Middle Zone ranged from approximately 0.1 to 15 feet higher in elevation compared to groundwater elevations at nearby Shallow Zone monitor wells during the second quarter 2019 (Table 2; Figure 5).

These differences in elevation indicated that an upward vertical groundwater flow gradient exists in vertical delineation well sets between the Middle Zone (upper portion of the Upper Muddy Creek formation [UMCf]) and the overlying Shallow Zone. The observed elevations and the predominant upward vertical gradient observed during the second quarter 2019 was consistent with previous vertical head calculations (H+A, 2018).

2.1.6 Shallow/Middle and Deep Zone Differences

Groundwater elevations measured from monitor wells completed in the Deep Zone were higher than groundwater elevations measured from both Middle and Shallow Zone monitor wells (Table 2; Figure 5). Groundwater elevations at Deep Zone monitor wells ranged from approximately 37 to 81 feet higher in elevation compared to nearby Shallow Zone monitor wells, and approximately 27 to 79 feet higher in elevation compared to nearby Middle Zone monitor wells during the second quarter 2019. These differences in elevation indicated that an upward vertical groundwater flow gradient exists between the Deep Zone (deeper portions of the UMCf) and both the overlying Middle and Shallow Zones. These conditions were consistent with previous vertical head conditions measured since 2009 (H+A, 2018). These data combined with lithologic data indicates that the upper portions of the UMCf act as a confining unit (or aquitard) between the Deep and Shallow Zones.

2.2 GROUNDWATER QUALITY DATA EVALUATED FOR THIS REPORT

The standardized plan formally includes other groundwater monitoring programs that were conducted separately by the Companies within the study area (H+A, 2014). These other programs included:

- The Montrose annual closed ponds area post-closure monitoring program;
- The Companies' semi-annual groundwater treatment system (GWTS) downgradient transect monitoring program, and
- The Companies' annual GWTS extraction well monitoring program.

With the exception of the groundwater samples collected from the GWTS extraction wells, groundwater samples were analyzed for the following chemical groups as indicated in the standardized plan:

- Volatile organic compounds (VOCs) analyzed by U.S. Environmental Protection Agency (EPA) method 8260B;
- Organochlorine pesticides (OCPs) analyzed by EPA method 8081A;
- Selected metals analyzed by EPA methods 6020 and 7470A;
- Total dissolved solids (TDS) using standard method SM2540C, and
- Perchlorate using EPA method 314.0.

GWTS extraction well samples were analyzed for VOCs and OCPs only since metals, TDS, and perchlorate are analyzed in groundwater samples collected at the downgradient transect monitor wells. The downgradient transect wells are located within approximately 400 to 700 feet from the extraction wells.

Analytical data for locations sampled by the Companies during the second quarter 2019 are provided in Table 3. Field parameter data measured during groundwater sampling are provided in Table 4. Chemical prevalences for the shallow and middle water-bearing zones sampled are provided in Tables 5 and 6. Analytical laboratory reports are provided in Appendix A. The data validation summary report for data generated is provided in Appendix B.

Similar to previous years, data generated by the Companies during the second quarter 2019 were supplemented with available data generated by others from within the BMI area. Specifically, water level, VOC, perchlorate and TDS data from the adjacent NERT monitoring program were incorporated into the appropriate figures of this report.

2.3 DISTRIBUTION OF CHEMICALS

The most prevalent VOCs, OCPs, metals, and inorganic constituents analyzed for in the study area are discussed in the following sections. The distributions of the prevalent chemicals in the Shallow Zone are illustrated on Figures 6 through 15. However, the maximum contaminant level/basic comparison level (MCL/BCL) boundary definition for each chemical also consider previous data generated at the site during recent years since conditions stable.

Concentrations of these prevalent chemicals in the Middle Zone are posted on Figures 16 through 25. The data are posted for the Middle Zone because contouring may not accurately represent conditions due to different depths and varying screened intervals among the study area Middle Zone wells. Field parameters for monitor wells completed in the Shallow and Middle Zones are posted on Figures 26 and 27, respectively.

For the purposes of this evaluation, the distributions of the prevalent chemicals were compared to data from 2009 through 2018 (H+A, 2018) to evaluate effectiveness of the GWTS. Data from 2009 are used since that was the year that annual groundwater monitoring was initiated by the Companies.

2.3.1 Volatile Organic Compounds

The VOCs that are most consistently detected in the Shallow and Middle Zones above their respective MCLs are benzene, chlorobenzene, chloroform, 1,2-dichlorobenzene (1,2-DCB), and 1,4-dichlorobenzene (1,4-DCB) (Tables 5 and 6).

VOCs in upgradient wells to the south of the former facilities are consistently not detected or detected at concentrations less than MCLs and the extent of VOCs are well defined to the east and west by monitor wells located on adjacent properties. VOC concentrations gradually decrease downgradient of the former facilities toward the GWTS.

The GWTS is effective in capturing and removing the VOCs from Shallow Zone groundwater and limits their migration beyond the GWTS to the downgradient area. Typically, VOCs are either not detected or detected sporadically in the downgradient area. The following sections provide brief overviews of the results for the prevalent VOCs across the study area. Discussions of the effectiveness of the GWTS in capturing and controlling VOC-impacted groundwater and VOC concentrations in the downgradient area during the preceding year are discussed further in Section 2.4.

Note that for the second quarter 2019, NERT provided a significant amount of additional VOC data not only for the area of the former Tronox facility, but also for locations immediately up- and downgradient of the GWTS wellfield. The availability of additional data in these areas generally confirmed previous findings.

2.3.1.1 Shallow Zone

The distributions of benzene, chlorobenzene, chloroform, 1,2-DCB, and 1,4-DCB for 2019 are illustrated on Figures 6 through 10. Comparisons of VOC distributions in 2019 to 2018 indicate there are no significant changes in the distribution, shape, or extent of VOCs (H+A, 2018). Additionally, comparisons of the distributions of the prevalent VOCs during the period 2009 to 2018 also indicate that the concentrations of the VOCs are generally consistent from year to year (H+A, 2018).

Isolated occurrences of chlorobenzene were identified in the Shallow Zone beyond the GWTS during the past year. These areas centered on two wells: MC-49 and MC-114. Chlorobenzene concentrations in 2018 and 2019 were virtually the same.

Review of the Shallow Zone VOC data provided to the Companies by NERT for the second quarter 2019 indicates that the predominate VOCs - benzene, chlorobenzene, 1,2-DCB and 1,4-DCB - are present at generally low concentrations in just a few wells on the NERT property (Figures 6 through 10). Chloroform is present on the NERT property, but not collocated with the other VOCs listed above. This is indicative of a chloroform-only source on the NERT property (Tetra Tech, 2016). The NERT data support the Companies' conclusions outlined in the Shallow Zone groundwater Eastside Evaluation as presented in the Groundwater Remedial Alternative Study (Geosyntec, 2019).

2.3.1.2 Middle Zone

The concentration distributions of benzene, chlorobenzene, chloroform, 1,2-DCB, and 1,4-DCB are posted on Figures 16 through 20. Comparisons of the distributions of these VOCs in 2019 to 2018 do not identify any significant changes in distribution or extent (H+A, 2018).

2.3.2 Organochlorine Pesticides

Data since 2009 have consistently indicated that concentrations of benzene hexachloride (BHC) are present in and immediately downgradient of the former facilities areas. BHCs in upgradient wells to the south of the former facilities are consistently not detected and the extents of BHCs are well defined to the east and west by wells located on adjacent properties. BHC concentrations gradually decrease downgradient of the former facilities toward the GWTS.

Concentrations of BHCs are reduced by the GWTS which limits their migration to the downgradient area. BHCs are either not detected or detected sporadically at low-level concentrations in the downgradient area.

2.3.2.1 Shallow Zone

The distributions of alpha-, beta-, and gamma-BHC are illustrated on Figures 11 through 13. BHC distributions in 2019 compared to 2018 do not identify any significant changes in the distribution, shape, or extent where greater than their respective BCLs or MCL (H+A, 2018). Dieldrin was detected at concentrations greater than its BCL in three GWTS extraction well samples (Well G, Well H2 and Well K2). This compound has occasionally been detected in GWTS extraction well samples collected since 2009. The BCL concentration for this compound is set at a low concentration (0.00487 micrograms per liter [µg/l]), increasing the likelihood that any detected concentration will exceed the BCL. Similarly, 4,4'-DDE was detected at a concentration greater than its BCL in the extraction Well F sample. This compound has been occasionally detected in shallow zone extraction wells and monitor wells at low concentrations. The BCL concentration for this compound is set at 0.229 µg/l.

2.3.2.2 Middle Zone

The distributions of the BHCs in the Middle Zone are posted on Figures 21 through 23. Similar to the Shallow Zone, comparisons of the distributions of these BHCs in 2019 to 2018 do not identify any significant changes in distribution or extent (H+A, 2018).

2.3.3 Metals

Arsenic is the trace metal constituent most consistently detected in the Shallow and Middle Zones above its MCL (Tables 5 and 6). For the purposes of this discussion, arsenic is compared to its background concentration of 59 µg/l as determined by NDEP (NDEP, 2016). The following sections provide brief overviews of the results for arsenic in the study area.

2.3.3.1 Shallow Zone

The distribution of arsenic is illustrated on Figure 14. Arsenic is a naturally occurring constituent in Shallow Zone groundwater and the regional area (H+A, 2008; U.S. Geological Survey [USGS], 1998).

Arsenic concentrations are greater than background at a majority of the wells within the study area. Predictably, comparison of arsenic distribution in 2019 to 2008 through 2018 does not identify any significant changes in distribution (H+A, 2018).

2.3.3.2 Middle Zone

The distribution of arsenic in the Middle Zone is posted on Figure 24. Arsenic is a naturally occurring constituent in the Middle Zone as well (H+A, 2008; USGS, 1998). Arsenic was not detected at concentrations greater than background in any Middle Zone sample. Comparisons of arsenic during the period 2009 to 2019 similarly indicate that the concentration of arsenic is stable from year to year.

2.3.4 General Chemistry

Perchlorate is discussed below based on its relevancy to the study area. The results of groundwater sampling for all inorganic chemicals are summarized in Table 3.

2.3.4.1 Shallow Zone

The distribution of perchlorate is illustrated in Figure 15. Comparisons of perchlorate distributions in 2018 to 2019 do not identify any significant changes in the distribution, shape, or extent (H+A, 2018). Based on Site history and operations, perchlorate is not a Companies chemical of concern. The distribution of perchlorate is controlled by source areas known to exist to the west (Endeavour, formerly known as AMPAC site) and to the east (NERT site) of the study area. Perchlorate detected in the study area continues to be orders-of-magnitude less than concentrations to the east, west, and downgradient of the study area (Figure 15). The data trends continue to corroborate the fact that the perchlorate is not a Companies' chemical of concern.

There were two detections of perchlorate concentrations that represented significant increases for individual monitor wells:

- The second quarter 2019 sample collected from AA-BW-03A contained a perchlorate concentration of 12,000 µg/l. Historic concentrations of perchlorate in this well's samples were less than 20 µg/l or not detected. This well is located along the eastern margin of the study area and influenced by the NERT site.

- The second quarter 2019 sample collected from EC-10 contained perchlorate concentrations 24,000 µg/l higher than detected in 2018 sample. This increase represents a continuation of an increasing trend since 2009 when perchlorate concentrations in this well's samples was less than 5,000 ug/l. This well is located along the western margin of the study area (which is the eastern boundary for the Endeavour site) and influenced by the Endeavour site.

2.3.4.2 Middle Zone

The distribution of perchlorate in the Middle Zone is illustrated on Figure 25. Similar to the Shallow Zone, comparisons of the distribution of perchlorate in 2018 to 2019 do not identify any significant changes in extent (H+A, 2018). Comparisons of perchlorate during the period 2009 to 2018 similarly indicate that the extent is stable from year to year (H+A, 2018).

2.4 GROUNDWATER TREATMENT SYSTEM

Seventeen active extraction wells were operational during the time period covered by this report. The Companies evaluate GWTS capture on a semi-annual basis using a multiple lines of evidence approach. The results of these evaluations are submitted to NDEP as part of the semi-annual GWTS operations report (H+A, 2009; *de maximis, inc.*, 2019).

The results of the capture evaluations consistently indicate that the GWTS is effective in capturing impacted Shallow Zone groundwater. Mass removal rates for the past year averages greater than 99 percent as estimated by comparisons of the mass of VOCs removed by the GWTS to the mass of VOCs located along the downgradient transect (H+A, 2009; *de maximis, inc.*, 2019). The results of the capture evaluation based on data collected during the second quarter 2019 were summarized and submitted to NDEP in August 2019 (*de maximis, inc.*, 2019).

3.0 SUMMARY AND FUTURE MONITORING

The NDEP-approved standardized plan was successfully implemented by the Companies during the second quarter 2019. The results of the 2019 sampling event further confirmed that the scope of the standardized monitoring plan provides an appropriate level of monitoring for groundwater conditions in the study area. The results of the 2019 event were consistent with past data and did not identify any significantly unusual or unexpected conditions or occurrences.

The comparison of past data to the results of the 2019 sampling event indicate that:

- The direction of groundwater flow in each zone is consistently to the north or northeast;
- Groundwater gradients in each zone are consistently between 0.01 and 0.03 ft/ft and approximate land surface gradients;
- Vertical groundwater flow gradients are consistently upward from the Deep Zone to the Middle Zone and from the Middle Zone to the Shallow Zone;
- The horizontal extents of chemicals at concentrations greater than their respective MCL or BCL in the Shallow and Middle Zones are consistent from year to year;
- The concentrations of these chemicals appear to be consistent from year to year. Although some variations occur, these changes are not considered significant;
- Review of the Shallow Zone VOC data provided to the Companies by NERT for the second quarter 2019 indicates that benzene, chlorobenzene, 1,2-DCB, 1,4-DCB and chloroform are only present together in a small area of the NERT property just east of the property boundary at low concentrations. Lithologic and groundwater flow data indicate that Shallow Zone groundwater in this area returns to the Pioneer property immediately upgradient of the GWTS and the VOCs are eventually captured and removed by the Companies GWTS. The NERT data support the Companies' conclusions outlined in the Eastside Evaluation as presented in the Groundwater Remedial Alternative Study;
- The GWTS continues to be effective in capturing, controlling, and removing organic compounds from impacted Shallow Zone groundwater including the small area on NERT property discussed above;

- Organic compounds are in general not prevalent in the downgradient area. If present, organic compounds are typically detected sporadically, and
- The 2019 data reinforces the Companies conceptual understanding of the hydrogeologic processes occurring in the study area (H+A, 2008).

The Companies plan to continue the use of the standardized plan for 2020.

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TABLES

TABLE 1
WATER LEVEL DATA
SECOND QUARTER 2019

WELL IDENTIFIER	WATER BEARING ZONE	DATE MEASURED	MEASURING POINT ELEVATION FEET AMSL	DEPTH TO WATER (FEET)	GROUNDWATER ELEVATION FEET AMSL	TOP OF NAPL (FEET)	NAPL THICKNESS (FEET)
AA-BW-09A	Shallow	04/04/2019	1763.12	46.84	1716.28		
AA-MW-05	Shallow	04/03/2019	1843.06	44.91	1798.15		
AA-MW-13R	Shallow	04/03/2019	1808.74	38.06	1770.68		
AA-MW-25	Shallow	04/03/2019	1803.87	56.38	1747.49		
AGX-90	Middle	04/04/2019	1750.01	31.54	1718.47	NE	NE
B-01	Shallow	04/18/2019	1807.14	40.26	1766.88		
CP-01	Middle	04/03/2019	1827.62	30.91	1796.71	NE	NE
DMC-MW-26	Deep	04/03/2019	1807.96	-2.31	1810.27		
DMC-MW-27R	Deep	04/03/2019	1827.80	3.94	1823.86		
DMC-MW-28	Deep	04/04/2019	1763.03	-34.65	1797.68		
DPT-01	Middle	04/18/2019	1807.57	37.84	1769.73	NE	NE
EC-04	Shallow	04/03/2019	1811.48	45.00	1766.48		
EC-10	Shallow	04/03/2019	1792.08	41.43	1750.65		
EC-14	Middle	04/03/2019	1791.92	37.94	1753.98	NE	NE
H-11	Shallow	04/03/2019	1862.90	60.69	1802.21		
H-18A	Shallow	04/02/2019	1726.36	27.96	1698.40		
H-21R	Shallow	04/02/2019	1730.35	31.15	1699.20		
H-55	Shallow	04/04/2019	1752.15	41.03	1711.12		
M-007B	Shallow	04/02/2019	1732.83	35.90	1696.93		
M-057A	Shallow	04/03/2019	1753.44	28.32	1725.12		
M-092	Shallow	04/03/2019	1800.76	33.02	1767.74		
M-136	Middle	04/03/2019	1751.87	28.75	1723.12	NE	NE
M-142	Shallow	04/03/2019	1773.55	26.99	1746.56		
M-149	Middle	04/03/2019	1796.82	44.23	1752.59	NE	NE
M-150	Middle	04/03/2019	1759.11	23.31	1735.80	NE	NE
MC-03	Shallow	04/01/2019	1725.73	33.99	1691.74		
MC-09R	Shallow	04/01/2019	1717.88	31.56	1686.32		
MC-113	Shallow	04/02/2019	1705.34	24.86	1680.48		
MC-114	Shallow	04/02/2019	1706.92	27.65	1679.27		
MC-47	Shallow	04/01/2019	1710.42	33.82	1676.60		
MC-48	Shallow	04/01/2019	1709.90	30.45	1679.45		
MC-49	Shallow	04/02/2019	1710.08	28.94	1681.14		
MC-50	Shallow	04/02/2019	1713.32	29.49	1683.83		
MC-51	Shallow	04/02/2019	1715.88	30.79	1685.09		
MC-52	Shallow	04/01/2019	1715.88	31.17	1684.71		
MC-53	Shallow	04/02/2019	1715.27	31.48	1683.79		

TABLE 1
WATER LEVEL DATA
SECOND QUARTER 2019

WELL IDENTIFIER	WATER BEARING ZONE	DATE MEASURED	MEASURING POINT ELEVATION FEET AMSL	DEPTH TO WATER (FEET)	GROUNDWATER ELEVATION FEET AMSL	TOP OF NAPL (FEET)	NAPL THICKNESS (FEET)
MCF-BW-09B	Middle	04/04/2019	1763.09	45.86	1717.23		
MCF-BW-10A	Middle	04/18/2019	1779.36	42.51	1736.85	NE	NE
MC-MW-10	Middle	04/03/2019	1803.91	56.57	1747.34	NE	NE
MC-MW-15	Middle	04/03/2019	1789.55	51.63	1737.92		
MC-MW-29	Middle	04/03/2019	1717.55	31.14	1686.41	NE	NE
MC-MW-32	Middle	04/03/2019	1723.25	31.46	1691.79	NE	NE
MC-MW-35	Middle	04/03/2019	1712.66	19.38	1693.28	NE	NE
MW-01	Shallow	04/03/2019	1851.18	53.26	1797.92		
MW-02	Shallow	04/03/2019	1825.26	43.37	1781.89		
MW-03	Shallow	04/03/2019	1826.31	44.94	1781.37		
MW-04	Shallow	04/03/2019	1826.20	44.26	1781.94		
MW-08	Deep	04/03/2019	1803.63	-2.31	1805.94		
MW-A-J	Shallow	04/04/2019	1649.64	7.76	1641.88		
MW-R	Shallow	04/04/2019	1667.90	12.41	1655.49		
PC-028	Shallow	04/04/2019	1650.80	13.12	1637.68		
PC-031	Shallow	04/04/2019	1657.91	11.47	1646.44		
PC-064	Shallow	04/04/2019	1675.25	11.86	1663.39		
TR-07	Deep	05/06/2019	1829.13	5.55	1823.58		
TR-09	Deep	05/06/2019	1854.41	30.73	1823.68		
TR-11	Deep	04/03/2019	1717.12	-6.93	1724.05		
TR-12	Deep	05/06/2019	1692.09	-15.00	1707.09		

NOTES:

AMSL = Above mean sea level
NE = Not encountered

HARGIS + ASSOCIATES, INC.

TABLE 2
VERTICAL HEAD DIFFERENCES
SECOND QUARTER 2019

WELL CLUSTER	SCREENED FORMATION	LOCATION ID	DATE	SCREEN MIDPOINT ELEVATION	STATIC GROUNDWATER ELEVATION	TDS (mg/l[a])	WATER DENISITY (kg/m^3 [b])	CORRECTED GROUNDWATER ELEVATIONS	HYDRAULIC HEAD DIFFERENCE (In feet with respect to overlying unit [Shallow Zone/Middle Zone])	HYDRAULIC GRADIENT (ft/ft)
1	Shallow	B-01	04/18/19	1,757.39	1,766.88	19,000	1,011.33	1,766.99		
	Middle	DPT-01	04/18/19	1,686.45	1,769.73	750	997.64	1,769.53	+2.55	0.036
	Deep	DMC-MW-26	04/03/19	1,530.96	1810.27	740	997.63	1,809.61	+42.62/+40.07	0.188/0.258
2	Shallow	AA-MW-25	04/03/19	1,749.87	1,747.49	11,000	1,005.33	1,747.48		
	Middle	MC-MW-10	04/03/19	1,701.21	1,747.34	12,000	1,006.08	1,747.62	+0.14	0.003
	Deep	MW-08	04/03/19	1,515.95	1,805.94	780	997.66	1,805.26	+57.78/+57.64	0.247/0.311
3	Shallow	MW-03	04/03/19	1,774.01	1,781.37	9,200[c]	1,003.98	1,781.40		
	Middle	CP-01	04/03/19	1,705.75	1,796.71	750	997.64	1,796.50	+15.10	0.221
	Deep	DMC-MW-27R	04/03/19	1,580.71	1,823.86	940	997.79	1,823.32	+41.92/+26.83	0.217/0.215
4	Shallow	MC-09R	04/01/19	1,684.57	1,686.32	15,000	1,008.33	1,686.33		
	Middle	MC-MW-29	04/03/19	1,646.84	1,686.41	8,300	1,003.31	1,686.54	+0.21	0.005
	Deep	TR-11	04/03/19	1,497.12	1,724.05	670	997.58	1,723.50	+37.17/36.96	0.198/0.247
5	Shallow	AA-BW-09A	04/04/19	1,718.59	1,716.28	51,000	1035.52	1,716.20		
	Middle	MCF-BW-09B	04/04/19	1,693.63	1,717.23	26,000	1,016.58	1,717.62	+1.42	0.057
	Deep	DMC-MW-28	04/03/19	1,488.03	1,797.68	640	997.56	1,796.92	+80.73/+79.30	0.393/0.344

Note: All groundwater elevations are in units of feet above mean sea level.
TDS= Total Dissolved Solids
mg/l= Milligrams per Liter
kg/m$^{3=}$ Kilograms per Cubic Meter
ft/ft= Feet per Foot
+= Indicates upward gradient.
a= 2017 Analytical results unless otherwise noted.
b= Calculated based on estimated groundwater temperature of 25 degrees celsius based on Sitewide groundwater monitoring round field notes.
c= 2019 Analytical Result

Water density as function of temperature and concentration
McCutcheon, S.C., Martin, J.L, Barnwell, T.O. Jr. 1993. Water Quality in Maidment, D.R. (Editor). Handbood of Hydrology, McGraw-Hill, New York, NY (p. 11.3)

Water density as a function of temperature only
rho = density in kg/m^3 as a function of temperature
T = temperature in C
rho = 1000(1 - (T+288.9414)/(508929.2*(T+68.12963))*(T-3.9863)^2)

Water density as a function of temperature and salinity
rhos = density in kg/m^3 as a function of temperature and salinity
S = salinity in g/kg
rhos = rho + AS + BS^(3/2) + CS^2
A = 8.24493E-1 - 4.0899E-3*T + 7.6438E-5*T^2 -8.2467E-7*T^3 + 5.3675E-9*T^4
B = -5.724E-3 + 1.0227E-4*T - 1.6546E-6*T^2
C = 4.8314E-4

Enter temperature (T) and concentration (Rho)		
T	25	(Deg. C)
Rho	997.075	(kg/m^3)
S	19	(gm/kg)
Rhos	1,011.327	(kg/m^3)
A	0.759230461	
B	-0.00420138	

HARGIS + ASSOCIATES, INC.

TABLE 3
WATER QUALITY DATA
SECOND QUARTER 2019

	EXCEEDS MCL	AQUIFER	Primary Maximum Contaminant Level	NDEP Basic Comparison Levels for Residential Water (2015)	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW
	EXCEEDS BCL (2015)	LOCATION			AA-BW-03A	AA-MW-05	AA-MW-13R	EC-04	EC-10	H-11	H-55	M-007B	M-007B	M-057A	M-092	M-142	MC-111	MC-113	MC-114
	EXCEEDS BACKGROUND LEVEL	DATE			04/11/19	04/10/19	04/18/19	04/17/19	04/17/19	04/11/19	04/10/19	04/15/19	04/15/19	04/15/19	04/16/19	04/15/19	04/10/19	04/08/19	04/08/19
		SAMPLE PURPOSE			REG	REG	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG	REG	REG
	Detections **BOLDED**	SAMPLING EVENT			SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE
		Samplers			CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE
PARAMETER GROP	**PARAMETER**	**UNITS**																	
GENERAL CHARACTERIZATION	Perchlorate	ug/L		18	**12000**	**53**	**290**	**230**	**99000J-**	**12**	**31**	**24000J**	**14000J**	**10000J-**	**1700J-**	**3900**	**11000**	**1400**	**24**
	Total Dissolved Solids	mg/L			**8000**	**2100**	**110000**	**3400**	**2000**	**1800**	**1500**	**7700**	**7900**	**3300**	**2300**	**2800**	**7800**	**17000**	**16000**
TRACE METALS	Arsenic	ug/L	10	10 (59 background level[b])	**92**	**48**	**1500**	**97**	**71**	**0.11J**	<1.0	**76**	**78**	**150**	**82**	**58**	**38**	**100**	**170**
	Barium	mg/l	2	2	**0.041**	**0.014**	**2.7**	**0.070**	**0.019**	**0.11**	**0.014**	**0.041**	**0.054**	**0.038**	**0.035**	**0.047**	**0.041**	**0.051**	**0.060**
	Cadmium	mg/l	0.005	0.005	<0.0010	<0.00010	**0.00050J**	**0.000056J**	<0.00010	<0.00010	<0.00050	**0.00014**	**0.00022**	**0.000088J**	<0.00010	**0.00027**	**0.00036**	**0.0011J**	<0.0020
	Chromium	mg/l	0.1	0.1	<0.0050	**0.0079**	**0.130**	**0.0071**	**0.011**	**0.00061**	<0.0025	**0.0088J**	**0.0055J**	**0.058**	**0.023**	**0.030**	**0.0029**	<0.010	**0.013**
	Lead	mg/l	0.015	0.015	<0.0010	<0.00010	**0.12**	**0.029**	**0.00018**	<0.00010	**0.00025J**	**0.00062**	**0.0014**	**0.002**	**0.00088**	**0.0017**	**0.00023**	**0.0013J**	**0.031**
	Mercury	mg/L	0.002	0.002	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	**0.00026**	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020R	**0.00029J**
	Selenium	mg/l	0.05	0.05	<0.0060	**0.0053**	**0.026**	**0.0059**	**0.0041**	<0.00060	<0.0030	**0.0046**	**0.0045**	**0.0039**	**0.0032**	**0.0034**	**0.0047**	<0.012	<0.012
	Silver	mg/l		0.1	<0.0020	<0.00020	<0.0020	<0.00020	<0.00020	<0.00020	<0.0010	<0.00020	<0.00020	<0.00020	<0.00020	**0.00028**	**0.00014J**	**0.045**	**0.013**
	Uranium	mg/l	0.03	0.03	**0.047**	**0.0045**	**0.025**	**0.0073**	**0.0031**	<0.00010	<0.00050	**0.047**	**0.049**	**0.0087**	**0.0054**	**0.0065**	**0.037**	**0.023**	**0.039**
PESTICIDES	2,4'-DDD	ug/L			<0.10	<0.096	<0.089	<0.096	<0.097	<0.10	<0.10	<0.097	<0.097	<0.099	<0.10	<0.10	<0.10	<0.099	<0.095
	2,4'-DDE	ug/L			<0.10	<0.096	<0.089	<0.096	<0.097	<0.10	<0.10	<0.097	<0.097	<0.099	<0.10	<0.10	<0.10	**0.035J**	**0.023J**
	2,4'-DDT	ug/L			<0.10	<0.096	<0.089	<0.096	<0.097	<0.10	<0.10	<0.097	<0.097	<0.099	<0.10	<0.10	<0.10	<0.099	<0.095
	4,4'-DDD	ug/L		0.325	<0.10	<0.096	<0.089	<0.096	<0.097	<0.10	<0.10	<0.097	<0.097	<0.099	<0.10	<0.10	<0.10	<0.099	<0.095
	4,4'-DDE	ug/L		0.229	<0.10	<0.096	<0.089	**0.0043J**	<0.097	<0.10	<0.10	<0.097	<0.097	<0.099	<0.10	<0.10	<0.10	<0.099	<0.095
	4,4'-DDT	ug/L		0.229	<0.10	<0.096	<0.089	<0.096	<0.097	<0.10	<0.10	<0.097	<0.097	<0.099	<0.10	<0.10	<0.10	<0.099	<0.095
	Aldrin	ug/L		0.00458	<0.0050	<0.0048	<0.0045	<0.0048	<0.0049	<0.0051	<0.0052	<0.0049	<0.0049	<0.0049	<0.0050	<0.0052	<0.0051	<0.0030	<0.0028
	Alpha-BHC	ug/L		10	**0.18**	<0.0048	<0.0045	<0.0048	**0.014**	<0.0051	**0.015**	**0.015**	**0.016**	<0.0049	<0.0050	<0.0052	**0.0074**	**0.89**	**0.68**
	Beta-BHC	ug/L		2	<0.010	<0.0096	**0.18**	**0.0041J**	**0.12**	<0.010	**0.070**	<0.0097	<0.0097	<0.0099	<0.010	<0.010	**0.0099J**	**3.5**	**2.0**
	Chlordane	ug/L	2	2	<0.10	<0.096	<0.089	<0.096	<0.097	<0.10	<0.10	<0.097	<0.097	<0.099	<0.10	<0.10	<0.10	<0.099	<0.095
	Delta-BHC	ug/L		10	**0.010J**	<0.19	<0.18	<0.19	<0.19	<0.21	**0.055J**	<0.19	**0.0037J**	<0.20	<0.20	<0.21	**0.0041J**	**0.18J**	**0.79**
	Dieldrin	ug/L		0.00487	<0.0050	<0.0048	<0.0045	<0.0048	<0.0049	<0.0051	<0.0052	<0.0049	<0.0049	<0.0049	<0.0050	<0.0052	<0.0051	<0.0039	<0.0038
	Endosulfan I	ug/L		200	<0.10	<0.096	<0.089	<0.096	<0.097	<0.10	<0.10	<0.097	<0.097	<0.099	<0.10	<0.10	<0.10	<0.099	<0.095
	Endusolfan I	ug/L		200	<0.10	<0.096	<0.089	<0.096	<0.097	<0.10	<0.10	<0.097	<0.097	<0.099	<0.10	<0.10	<0.10	<0.099	<0.095
	Endosulfan Sulfate	ug/L			<0.20	<0.19	<0.18	<0.19	<0.19	<0.21	<0.21	<0.19	<0.19	<0.20	<0.20	<0.21	<0.20	<0.20	<0.19
	Endrin	ug/L	2	2	<0.10	<0.096	<0.089	<0.096	<0.097	<0.10	<0.10	<0.097	<0.097	<0.099	<0.10	<0.10	<0.10	<0.099	<0.095
	Endrin Aldehyde	ug/L			<0.10	<0.096	<0.089	<0.096	<0.097	<0.10	<0.10	<0.097	<0.097	<0.099	<0.10	<0.10	<0.10	<0.099	<0.095
	Endrin Ketone	ug/L			<0.10	<0.096	<0.089	<0.096	<0.097	<0.10	<0.10	<0.097	<0.097	<0.099	<0.10	<0.10	<0.10	<0.099	<0.095
	Gamma-BHC (Lindane)	ug/L	0.2	0.2	**0.020J**	<0.096	<0.089	<0.096	<0.097	<0.10	<0.10	**0.10**	**0.11**	<0.099	<0.10	<0.10	**0.018J**	**0.015J**	**0.0055J**
	Heptachlor	ug/L	0.1	0.1	<0.010	<0.0096	<0.0089	<0.0096	<0.0097	<0.010	<0.010	<0.0097	<0.0097	<0.0099	<0.010	<0.010	<0.010	<0.0099	<0.0095
	Heptachlor Epoxide	ug/L	0.2	0.2	<0.0050	<0.0048	<0.0045	<0.0048	<0.0049	<0.0051	<0.0052	<0.0049	<0.0049	<0.0049	<0.0050	<0.0052	<0.0051	<0.0049	<0.0047
	Metoxychlor	ug/L	40	40	<0.10	<0.096	**0.0035J**	<0.096	<0.097	<0.10	<0.10	<0.097	<0.097	<0.099	<0.10	<0.10	<0.10	<0.099	<0.095
	Toxaphene	ug/L	3	3	<5.0	<4.8	<4.5	<4.8	<4.9	<5.1	<5.2	<4.9	<4.9	<4.9	<5.0	<5.2	<5.1	<3.0	<2.8
VOLATILE ORGANIC COMPOUNDS	1,1,1,2-Tetrachloroethane	ug/L		0.605	<10	<5.0	<1000UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.50	<0.50
	1,1,1-Trichloroethane	ug/L	200	200	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,1,2,2-Tetrachloroethane	ug/L		0.0775	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0
	1,1,2-Trichloroethane	ug/L	5	5	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,1-Dichloroethane	ug/L		2.79	**4.7**	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	**2.3**	**2.3**	<2.0	<2.0	<2.0	**0.60J**	<2.0	**4.6**
	1,1-Dichloroethene	ug/L	7	7	<10	<5.0	<1000UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**1.8J**	**0.51J**	<5.0	<5.0	<5.0
	1,1-Dichloropropene	ug/L			<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,2,3-Trichlorobenzene	ug/L			<10	<5.0	**98J-**	<5.0	**3.8J**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**1.1J**	**0.68J**
	1,2,3-Trichloropropane	ug/L		0.0026	<20	<10	<2000UJ	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1.0	<1.0
	1,2,4-Trichlorobenzene	ug/L	70	70	<10	<5.0	**530J-**	<5.0	**27**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**3.3J**	**1.6J**
	1,2,4-Trimethylbenzene	ug/L		14.6	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0
	1,2-Dibromo-3-Chloropropane	ug/L		0.000927	<10	<5.0	<1000UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0
	1,2-Dibromoethane	ug/L		0.00755	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,2-Dichlorobenzene	ug/L	600	600	**4.4**	<2.0	**1700J-**	**0.55J**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**0.29J**	<2.0	**2.0J**	**16**
	1,2-Dichloroethane	ug/L	5	5	**2.9J**	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	**1.1J**	**1.0J**	**0.33J**	<2.0	<2.0	<2.0	<2.0	**0.92J**
	1,2-Dichloropropane	ug/L	5	5	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,3,5-Trimethylbenzene	ug/L		14.5	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,3-Dichlorobenzene	ug/L		80.7	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**1.1J**

TABLE 3
WATER QUALITY DATA
SECOND QUARTER 2019

EXCEEDS MCL
EXCEEDS BCL (2015)
EXCEEDS BACKGROUND LEVEL
Detections **BOLDED**

PARAMETER GROP	PARAMETER	UNITS	Primary Maximum Contaminant Level	NDEP Basic Comparison Levels for Residential Water (2015)															
		AQUIFER			SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW
		LOCATION			AA-BW-03A	AA-MW-05	AA-MW-13R	EC-04	EC-10	H-11	H-55	M-007B	M-007B	M-057A	M-092	M-142	MC-111	MC-113	MC-114
		DATE			04/11/19	04/10/19	04/18/19	04/17/19	04/17/19	04/11/19	04/10/19	04/15/19	04/15/19	04/15/19	04/16/19	04/15/19	04/10/19	04/08/19	04/08/19
		SAMPLE PURPOSE			REG	REG	REG	REG	REG	REG	REG	FD	REG	REG	REG	REG	REG	REG	REG
		SAMPLING EVENT			SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE
		Samplers			CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE
VOLATILE ORGANIC COMPOUNDS	1,3-Dichloropropane	ug/L		8.24	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,4-Dichlorobenzene	ug/L	75	75	**5.0**	<2.0	**2100J-**	**0.69J**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**0.29J**	<2.0	**3.1**	**23**
	2,2'-/4,4'-Dichlorobenzil	ug/L		10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2,2-Dichloropropane	ug/L			<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	2-Chlorotuolune	ug/L		90.2	<10	<5.0	<1000UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	4-Chlorotolune	ug/L			<10	<5.0	<1000UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Benzene	ug/L	5	5	**1.3J**	<2.0	**38000J-**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**2.3**
	Bromobenzene	ug/L		85.2	<10	<5.0	<1000UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Bromochloromethane	ug/L			<10	<5.0	<1000UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Bromodichloromethane	ug/L	80	0.135	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Bromoform	ug/L	80	9.86	<10	<5.0	<1000UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Bromomethane	ug/L		8.53	<10	<5.0	<1000UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Carbone Tetrachloride	ug/L	5	5	<2.0	<1.0	<200UJ	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**5.5**	**1.1**	**0.73J**	<1.0	<1.0	<1.0
	Chlorobenzene	ug/L	100	100	**520**	<2.0	**9300J-**	**2.3**	<2.0	**0.35J**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**8.9**	**230**
	Chcloroethane	ug/L		26.86	<10	<5.0	<1000UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Chloroform	ug/L	80	0.223	<4.0	<2.0	<400UJ	**21**	**2.1**	<2.0	<2.0	**1.3J**	**1.5J**	**770**	**86**	**66**	**0.55J**	<2.0	**0.27J**
	Chloromethane	ug/L		3.12	<10	<5.0	<1000UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.5	<2.5
	CIS-1,2-Dichloroethene	ug/L	70	70	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	CIS-1,3-Dichloropropene	ug/L		0.501	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Dibromochloromethane	ug/L	80	0.17	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Dibromomethane	ug/L		8.14	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0
	Dichlorodifluoromethane	ug/L		393	<10	<5.0	<1000UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Dimethyl Disulfide	ug/L			<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Ethylybenzene	ug/L	700	700	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Hexachlorobutadiene	ug/L		0.998	<10	<5.0	<1000UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Isopropylbenzene	ug/L		667	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	M,P-Xylenes	ug/L		1200	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Methlene Chloride	ug/L	5	5	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Naphthalene	ug/L		0.165	<10	<5.0	<1000UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0
	N-Butylbenzene	ug/L		238	<10	<5.0	<1000UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	N-Propylbenzene	ug/L		238	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	O-Xylene	ug/L		1200	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	P-Isopropyl Tolune	ug/L		834	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	SEC-Butylbenzene	ug/L		238	<10	<5.0	<1000UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Styrene'	ug/L	100	100	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0R
	Tert- Butylbenzene	ug/L		238	<10	<5.0	<1000UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Tetrachloroethene	ug/L	5	5	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**0.49J**	<2.0	<2.0	<2.0	<2.0	<2.0
	Toluene	ug/L	1000	1000	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Trans-1,2-Dichloroethene	ug/L	100	100	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Trans-1,3-Dichloropropene	ug/L		0.501	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Trichloroethene	ug/L	5	5	<4.0	<2.0	<400UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**1.0J**	**9.5**	**2.6**	<2.0	<2.0	**2.5**
	Trichlorofluromethane	ug/L		1270	<10	<5.0	<1000UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Vinyl Chloride	ug/L	2	2	<10	<5.0	<1000UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0

HARGIS + ASSOCIATES, INC.

TABLE 3
WATER QUALITY DATA
SECOND QUARTER 2019

EXCEEDS MCL
EXCEEDS BCL (2015)
EXCEEDS BACKGROUND LEVEL
Detections **BOLDED**

		AQUIFER	Primary Maximum Contaminant Level	NDEP Basic Comparison Levels for Residential Water (2015)	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW
		LOCATION			MC-47	MC-48	MC-49	MC-50	MC-53	MW-01	MW-02	MW-03	MW-04	MW-A-J	MW-R	PC-028	PC-031	PC-031	PC-064
		DATE			04/08/19	04/08/19	04/08/19	04/09/19	04/08/19	04/12/19	04/12/19	04/12/19	04/12/19	04/09/19	04/09/19	04/09/19	04/09/19	04/09/19	04/09/19
		SAMPLE PURPOSE			REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	FD	REG	REG
		SAMPLING EVENT			SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE
		Samplers			CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE
PARAMETER GROP	**PARAMETER**	**UNITS**																	
GENERAL CHARACTERIZATION	Perchlorate	ug/L		18	**21000**	**110**	**1600**	**1200**	**2100**	<4.0	**1000**	**630**	**120**	**56000**	**56000**	**140000**	**37000**	**37000**	**320000**
	Total Dissolved Solids	mg/L			**3400**	**17000**	**17000**	**17000**	**15000**	**760**	**7600**	**9200**	**4000**	**4100**	**3800**	**4700**	**4100**	**4100**	**6900**
TRACE METALS	Arsenic	ug/L	10	10 (59 background level[b])	**80**	**140**	**150**	**100**	**110**	**57**	**61**	**34**	**66**	**87**	**89**	**190**	**86**	**91**	**240**
	Barium	mg/l	2	2	**0.031**	**0.069**	**0.053**	**0.028**	**0.092**	**0.022**	**0.045**	**0.033**	**0.024**	**0.091J+**	**0.038**	**0.015**	**0.160**	**0.19**	**0.022**
	Cadmium	mg/l	0.005	0.005	<0.00050	**0.0011J**	<0.0020	**0.0011**	<0.0020	<0.00010	<0.00010	<0.00010	<0.00010	**0.0012**	<0.00050	<0.00050	**0.00027**	<0.0010	<0.0010
	Chromium	mg/l	0.1	0.1	**0.0045J+**	**0.0072J**	<0.010	<0.0050	**0.010**	**0.011**	**0.00071**	**0.00031J**	**0.006**	**0.019**	**0.0014J**	**0.28**	**0.016J**	**0.022J**	**0.7**
	Lead	mg/l	0.015	0.015	<0.00050	<0.0020	**0.0012J**	**0.00094J**	**0.0016J**	**0.000077J**	**0.000051J**	**0.00015**	**0.00016**	**0.0095**	**0.00057**	**0.00036J**	**0.0036**	**0.0043**	<0.0010
	Mercury	mg/L	0.002	0.002	**0.00040J**	<0.00020R	<0.00020R	<0.00020R	<0.00020R	<0.00020	<0.00020	**0.00016J**	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Selenium	mg/l	0.05	0.05	**0.0055**	<0.012	<0.012	<0.0060	<0.012	**0.0017**	**0.00059J**	**0.0084**	**0.011**	**0.010**	**0.0067**	**0.0061**	**0.0034**	**0.0031J**	**0.0120**
	Silver	mg/l		0.1	<0.0010	**0.0027J**	**0.0023J**	**0.0016J**	**0.0044**	<0.00020	<0.00020	<0.00020	<0.00020	<0.0020	<0.0010	<0.0010	<0.00020	<0.0020	<0.0020
	Uranium	mg/l	0.03	0.03	**0.014**	**0.028**	**0.022**	**0.022**	**0.052**	**0.0017**	**0.16**	**0.18**	**0.019**	**0.033**	**0.021**	**0.075**	**0.019**	**0.02**	**0.064**
PESTICIDES	2,4'-DDD	ug/L			<0.10	<0.095	<0.096	<0.10	<0.10	<0.096	<0.098	<0.097	<0.10	<0.096	<0.10	<0.095	<0.095	<0.095	<0.099
	2,4'-DDE	ug/L			<0.10	<0.095	<0.096	<0.10	<0.10	<0.096	<0.098	<0.097	<0.10	<0.096	<0.10	<0.095	<0.095	<0.095	<0.099
	2,4'-DDT	ug/L			<0.10	<0.095	<0.096	<0.10	<0.10	<0.096	<0.098	<0.097	<0.10	<0.096	<0.10	<0.095	<0.095	<0.095	<0.099
	4,4'-DDD	ug/L		0.325	<0.10	<0.095	<0.096	<0.10	<0.10	<0.096	<0.098	<0.097	<0.10	<0.096	<0.10	<0.095	<0.095	<0.095	<0.099
	4,4'-DDE	ug/L		0.229	<0.10	<0.095	<0.096	<0.10	<0.10	<0.096	<0.098	<0.097	<0.10	<0.096	<0.10	<0.095	<0.095	<0.095	<0.099
	4,4'-DDT	ug/L		0.229	<0.10	<0.095	<0.096	<0.10	<0.10	<0.096	<0.098	<0.097	<0.10	<0.096	<0.10	<0.095	<0.095	<0.095	<0.099
	Aldrin	ug/L		0.00458	<0.0030	<0.0028	<0.0029	<0.0030	<0.0030	<0.0048	<0.0049	<0.0049	<0.0051	<0.0048	<0.0051	<0.0047	<0.0048	<0.0048	<0.0050
	Alpha-BHC	ug/L		10	**0.059**	**0.56**	**1.9**	**0.78**	**0.24**	<0.0048	**0.029**	**0.22**	**0.0030J**	**0.21**	**0.085**	<0.0047	**0.16**	**0.16**	**0.013**
	Beta-BHC	ug/L		2	**0.79**	**1.9**	**2.2**	**6.9**	**0.74**	<0.0096	<0.0098	**0.23**	<0.010	**1.0**	**1.0**	<0.0095	**3.4**	**3.8**	<0.0099
	Chlordane	ug/L	2	2	<0.10	<0.095	<0.096	<0.10	<0.10	<0.096	<0.098	<0.097	<0.10	<0.096	<0.10	<0.095	<0.095	<0.095	<0.099
	Delta-BHC	ug/L		10	**0.32**	**0.13J**	**0.41**	**0.18J**	**0.11J**	<0.19	<0.20	<0.19	<0.20	**0.96**	**0.40**	<0.19	**0.38**	**0.38**	**0.0068J**
	Dieldrin	ug/L		0.00487	<0.0040	<0.0038	<0.0038	**0.0020J**	<0.0041	<0.0048	<0.0049	<0.0049	<0.0051	<0.0048	<0.0051	<0.0047	<0.0048	<0.0048	<0.0050
	Endosulfan I	ug/L		200	<0.10	<0.095	<0.096	<0.10	<0.10	<0.096	<0.098	<0.097	<0.10	<0.096	<0.10	<0.095	<0.095	<0.095	<0.099
	Endusolfan I	ug/L		200	<0.10	<0.095	<0.096	<0.10	<0.10	<0.096	<0.098	<0.097	<0.10	<0.096	<0.10	<0.095	<0.095	<0.095	<0.099
	Endosulfan Sulfate	ug/L			<0.20	<0.19	<0.19	<0.20	<0.20	<0.19	<0.20	<0.19	<0.20	<0.19	<0.20	<0.19	<0.19	<0.19	<0.20
	Endrin	ug/L	2	2	<0.10	<0.095	<0.096	<0.10	<0.10	<0.096	<0.098	<0.097	<0.10	<0.096	<0.10	<0.095	<0.095	<0.095	<0.099
	Endrin Aldehyde	ug/L			<0.10	<0.095	<0.096	<0.10	<0.10	<0.096	<0.098	<0.097	<0.10	<0.096	<0.10	<0.095	<0.095	<0.095	<0.099
	Endrin Ketone	ug/L			<0.10	<0.095	<0.096	<0.10	<0.10	<0.096	<0.098	<0.097	<0.10	<0.096	<0.10	<0.095	<0.095	<0.095	<0.099
	Gamma-BHC (Lindane)	ug/L	0.2	0.2	**0.0035J**	**0.013J**	<0.096	**0.046J**	**0.0071J**	<0.096	**0.0047J**	**0.14**	<0.10	**0.0063J**	**0.0046J**	<0.095	<0.095	<0.095	**0.0046J**
	Heptachlor	ug/L	0.1	0.1	<0.010	<0.0095	<0.0096	<0.010	<0.010	<0.0096	<0.0098	<0.0097	<0.010	<0.0096	<0.010	<0.0095	<0.0095	<0.0095	<0.0099
	Heptachlor Epoxide	ug/L	0.2	0.2	<0.0050	<0.0047	<0.0048	<0.0051	<0.0051	<0.0048	<0.0049	<0.0049	<0.0051	<0.0048	<0.0051	<0.0047	<0.0048	<0.0048	<0.0050
	Metoxychlor	ug/L	40	40	<0.10	<0.095	<0.096	<0.10	<0.10	<0.096	<0.098	<0.097	<0.10	<0.096	<0.10	<0.095	<0.095	<0.095	<0.099
	Toxaphene	ug/L	3	3	<3.0	<2.8	<2.9	<3.0	<3.0	<4.8	<4.9	<4.9	<5.1	<4.8	<5.1	<4.7	<4.8	<4.8	<5.0
VOLATILE ORGANIC COMPOUNDS	1,1,1,2-Tetrachloroethane	ug/L		0.605	<0.50	<0.50	<0.50	<0.50UJ	<0.50	<5.0	<500	<500	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	1,1,1-Trichloroethane	ug/L	200	200	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,1,2,2-Tetrachloroethane	ug/L		0.0775	<1.0	<1.0	<1.0	<1.0UJ	<1.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,1,2-Trichloroethane	ug/L	5	5	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,1-Dichloroethane	ug/L		2.79	**0.26J**	<2.0	**1.3J**	**0.35J-**	**1.1J**	<2.0	<200	<200	<4.0	**0.74J**	<2.0	<2.0	**1.3J**	**1.2J**	<2.0
	1,1-Dichloroethene	ug/L	7	7	<5.0	<5.0	<5.0	<5.0UJ	<5.0	<5.0	<500	<500	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	1,1-Dichloropropene	ug/L			<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,2,3-Trichlorobenzene	ug/L			<5.0	<5.0	**0.61J**	**1.5J-**	<5.0	<5.0	<500	<500	<10	**0.83J**	<5.0	<5.0	**0.86J**	**0.86J**	<5.0
	1,2,3-Trichloropropane	ug/L		0.0026	<1.0	<1.0	<1.0	<1.0UJ	<1.0	<10	<1000	<1000	<20	<10	<10	<10	<10	<10	<10
	1,2,4-Trichlorobenzene	ug/L	70	70	<5.0	**0.72J**	**4.0J**	**7.3J-**	<5.0	<5.0	<500	**58J**	<10	**2.1J**	**0.79J**	<5.0	**7.1**	**6.9**	<5.0
	1,2,4-Trimethylbenzene	ug/L		14.6	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,2-Dibromo-3-Chloropropane	ug/L		0.000927	<1.0	<1.0	<1.0	<1.0UJ	<1.0	<5.0	<500	<500	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	1,2-Dibromoethane	ug/L		0.00755	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,2-Dichlorobenzene	ug/L	600	600	<2.0	**0.54J**	**15**	**1.3J-**	<2.0	<2.0	**46J**	**18000**	**4.4**	**0.99J**	<2.0	<2.0	**5.9**	**5.8**	**1.1J**
	1,2-Dichloroethane	ug/L	5	5	<2.0	<2.0	**0.39J**	<2.0UJ	**0.35J**	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	**0.37J**	**0.41J**	<2.0
	1,2-Dichloropropane	ug/L	5	5	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,3,5-Trimethylbenzene	ug/L		14.5	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,3-Dichlorobenzene	ug/L		80.7	<2.0	<2.0	**0.73J**	<2.0UJ	<2.0	<2.0	<200	**750**	<4.0	<2.0	<2.0	<2.0	**0.44J**	**0.49J**	**2.2**

TABLE 3
WATER QUALITY DATA
SECOND QUARTER 2019

EXCEEDS MCL
EXCEEDS BCL (2015)
EXCEEDS BACKGROUND LEVEL
Detections **BOLDED**

PARAMETER GROP	PARAMETER	UNITS	Primary Maximum Contaminant Level	NDEP Basic Comparison Levels for Residential Water (2015)															
		AQUIFER			SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW
		LOCATION			MC-47	MC-48	MC-49	MC-50	MC-53	MW-01	MW-02	MW-03	MW-04	MW-A-J	MW-R	PC-028	PC-031	PC-031	PC-064
		DATE			04/08/19	04/08/19	04/08/19	04/09/19	04/08/19	04/12/19	04/12/19	04/12/19	04/12/19	04/09/19	04/09/19	04/09/19	04/09/19	04/09/19	04/09/19
		SAMPLE PURPOSE			REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	FD	REG	REG
		SAMPLING EVENT			SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE
		Samplers			CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE
VOLATILE ORGANIC COMPOUNDS	1,3-Dichloropropane	ug/L		8.24	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,4-Dichlorobenzene	ug/L	75	75	<2.0	**1.1J**	**23**	**2.4J-**	<2.0	<2.0	**69J**	**16000**	**4.0**	**1.3J**	**0.28J**	<2.0	**8.7**	**9.2**	**0.85J**
	2,2'-/4,4'-Dichlorobenzil	ug/L		10	--	--	--	--	--	<9.8	<9.9	<100	<9.8	--	--	--	--	--	--
	2,2-Dichloropropane	ug/L			<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	2-Chlorotuolune	ug/L		90.2	<5.0	<5.0	<5.0	<5.0UJ	<5.0	<5.0	<500	<500	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	4-Chlorotolune	ug/L			<5.0	<5.0	<5.0	<5.0UJ	<5.0	<5.0	<500	<500	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Benzene	ug/L	5	5	<2.0	<2.0	<2.0	**0.61J-**	<2.0	<2.0	**1300**	**400**	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Bromobenzene	ug/L		85.2	<5.0	<5.0	<5.0	<5.0UJ	<5.0	<5.0	<500	<500	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Bromochloromethane	ug/L			<5.0	<5.0	<5.0	<5.0UJ	<5.0	<5.0	<500	<500	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Bromodichloromethane	ug/L	80	0.135	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Bromoform	ug/L	80	9.86	<5.0	<5.0	<5.0	<5.0UJ	<5.0	<5.0	<500	<500	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Bromomethane	ug/L		8.53	<5.0	<5.0	<5.0	<5.0UJ	<5.0	<5.0	<500	<500	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Carbone Tetrachloride	ug/L	5	5	<1.0	<1.0	<1.0	<1.0UJ	<1.0	<1.0	**97J**	<100	**0.93J**	<1.0	<1.0	**1.2**	<1.0	<1.0	<1.0
	Chlorobenzene	ug/L	100	100	<2.0	**4.5**	**160**	**21J-**	<2.0	<2.0	**1600**	**12000**	**2.2J**	<2.0	<2.0	<2.0	**0.44J**	**0.39J**	<2.0
	Chcloroethane	ug/L		26.86	<5.0	<5.0	<5.0	<5.0UJ	<5.0	<5.0	<500	<500	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Chloroform	ug/L	80	0.223	**9.7**	<2.0	<2.0	**0.72J-**	**0.82J**	**3.3**	**94000**	**25000**	**520**	**0.58J**	**0.31J**	**51**	**0.66J**	**0.68J**	**1.4J**
	Chloromethane	ug/L		3.12	<2.5	<2.5	<2.5	<2.5UJ	<2.5	<5.0	<500	<500	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	CIS-1,2-Dichloroethene	ug/L	70	70	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	CIS-1,3-Dichloropropene	ug/L		0.501	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Dibromochloromethane	ug/L	80	0.17	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Dibromomethane	ug/L		8.14	<1.0	<1.0	<1.0	<1.0UJ	<1.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Dichlorodifluoromethane	ug/L		393	<5.0	<5.0	<5.0	<5.0UJ	<5.0	<5.0	<500	<500	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Dimethyl Disulfide	ug/L			<2.0	<2.0	**1.3J**	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Ethylybenzene	ug/L	700	700	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Hexachlorobutadiene	ug/L		0.998	<5.0	<5.0	<5.0	<5.0UJ	<5.0	<5.0	<500	<500	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Isopropylbenzene	ug/L		667	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	M,P-Xylenes	ug/L		1200	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Methlene Chloride	ug/L	5	5	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	**120J**	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Naphthalene	ug/L		0.165	<1.0	<1.0	<1.0	<1.0UJ	<1.0	<5.0	<500	<500	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	N-Butylbenzene	ug/L		238	<5.0	<5.0	<5.0	<5.0UJ	<5.0	<5.0	<500	<500	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	N-Propylbenzene	ug/L		238	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	O-Xylene	ug/L		1200	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	P-Isopropyl Tolune	ug/L		834	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	SEC-Butylbenzene	ug/L		238	<5.0	<5.0	<5.0	<5.0UJ	<5.0	<5.0	<500	<500	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Styrene'	ug/L	100	100	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Tert- Butylbenzene	ug/L		238	<5.0	<5.0	**0.27J**	<5.0UJ	<5.0	<5.0	<500	<500	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Tetrachloroethene	ug/L	5	5	<2.0	<2.0	<2.0	<2.0UJ	**1.7J**	<2.0	<200	<200	<4.0	<2.0	<2.0	**0.52J**	**0.26J**	<2.0	**1.2J**
	Toluene	ug/L	1000	1000	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Trans-1,2-Dichloroethene	ug/L	100	100	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Trans-1,3-Dichloropropene	ug/L		0.501	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Trichloroethene	ug/L	5	5	**0.28J**	<2.0	**0.63J**	<2.0UJ	<2.0	<2.0	<200	<200	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	**0.50J**
	Trichlorofluromethane	ug/L		1270	<5.0	<5.0	<5.0	<5.0UJ	<5.0	<5.0	<500	<500	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Vinyl Chloride	ug/L	2	2	<2.0	<2.0	<2.0	<2.0UJ	<2.0	<5.0	<500	<500	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

TABLE 3
WATER QUALITY DATA
SECOND QUARTER 2019

EXCEEDS MCL
EXCEEDS BCL (2015)
EXCEEDS BACKGROUND LEVEL
Detections **BOLDED**

PARAMETER GROP	PARAMETER	UNITS	Primary Maximum Contaminant Level	NDEP Basic Comparison Levels for Residential Water (2015)															
		AQUIFER			SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW
		LOCATION			WELL-D2	WELL-D3	WELL-D3	WELL-E3	WELL-F	WELL-G	WELL-H2	WELL-I	WELL-J	WELL-J2	WELL-K2	WELL-L	WELL-M2	WELL-N	WELL-O
		DATE			04/05/19	04/05/19	04/05/19	04/05/19	04/05/19	04/05/19	04/05/19	04/05/19	04/05/19	04/05/19	04/05/19	04/05/19	04/05/19	04/05/19	04/05/19
		SAMPLE PURPOSE			REG	FD	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
		SAMPLING EVENT			SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE
		Samplers			CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE
GENERAL CHARACTERIZATION	Perchlorate	ug/L		18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Total Dissolved Solids	mg/L			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TRACE METALS	Arsenic	ug/L	10	10 (59 background level[b])	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Barium	mg/l	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Cadmium	mg/l	0.005	0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Chromium	mg/l	0.1	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Lead	mg/l	0.015	0.015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Mercury	mg/L	0.002	0.002	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Selenium	mg/l	0.05	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Silver	mg/l		0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Uranium	mg/l	0.03	0.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PESTICIDES	2,4'-DDD	ug/L			<0.098	<0.10	<0.097	<0.49	<0.097	<0.097	<0.10	<0.098	<0.50	<0.99	<0.096	<0.095	<0.097	<0.10	<0.099
	2,4'-DDE	ug/L			<0.098	**0.025J**	**0.21J**	<0.099	<0.097	<0.097	<0.10	<0.098	<0.10	<0.099	<0.096	<0.095	<0.097	**0.22**	<0.099
	2,4'-DDT	ug/L			<0.098	<0.10	**0.047J**	<0.099	**0.13**	<0.097	<0.10	<0.098	<0.10	<0.099	<0.096	<0.095	<0.097	<0.10	<0.099
	4,4'-DDD	ug/L		0.325	<0.098	<0.10	<0.097	<0.099	**0.017J**	<0.097	<0.10	<0.098	<0.10	<0.099	<0.096	<0.095	<0.097	<0.10	<0.099
	4,4'-DDE	ug/L		0.229	<0.098	<0.10	<0.097	<0.099	**0.24**	<0.097	<0.10	<0.098	<0.10	<0.099	<0.096	<0.095	<0.097	<0.10	<0.099
	4,4'-DDT	ug/L		0.229	<0.098	<0.10	<0.097	<0.099	**0.074J**	<0.097	<0.10	<0.098	<0.10	<0.099	<0.096	<0.095	<0.097	<0.10	<0.099
	Aldrin	ug/L		0.00458	<0.0049	<0.0050	<0.0049	<0.0049	<0.0048	<0.0049	<0.0051	<0.0049	<0.0050	<0.0050	<0.0048	<0.0048	<0.0048	<0.0051	<0.0050
	Alpha-BHC	ug/L		10	**3.4**	**2.7**	**2.2**	**3.4**	**3.1**	**23**	**180**	**0.96**	**3.6**	**3.5**	**200**	**2.3**	**8.6**	**3.1**	**9.3**
	Beta-BHC	ug/L		2	**11**	**6.0**	**5.4**	**11**	**21**	**40**	**59**	**0.50**	**13**	**12**	**41**	**16**	**8.2**	**8.3**	**33**
	Chlordane	ug/L	2	2	<0.098	<0.10	<0.097	<0.099	<0.097	<0.097	<0.10	<0.098	<0.10	<0.099	<0.096	<0.095	<0.097	<0.10	<0.099
	Delta-BHC	ug/L		10	**1.7**	**1.3**	**1.2**	**1.5**	**0.99**	**2.0**	**3.1**	**1.5**	**1.5**	**2.0**	**4.0**	**1.0**	**3.3J**	**1.4**	**1.7J**
	Dieldrin	ug/L		0.00487	<0.0049	<0.0050	<0.0049	<0.0049	<0.0048	**0.019**	**0.28**	<0.0049	<0.0050	<0.0050	**0.030**	<0.0048	<0.0048	<0.0051	**0.0024J**
	Endosulfan I	ug/L		200	<0.098	<0.10	**0.0069J**	<0.099	<0.097	<0.097	**0.077J**	<0.098	**0.046J**	<0.099	**0.035J**	<0.095	<0.097	<0.10	<0.099
	Endusolfan I	ug/L		200	<0.098	<0.10	<0.097	<0.099	<0.097	<0.097	<0.10	<0.098	<0.10	<0.099	<0.096	<0.095	<0.097	<0.10	<0.099
	Endosulfan Sulfate	ug/L			<0.20	<0.20	<0.19	<0.20	<0.19	<0.19	<0.20	<0.20	<0.20	<0.20	<0.19	<0.19	<0.19	<0.20	<0.20
	Endrin	ug/L	2	2	<0.098	<0.10	<0.097	<0.099	<0.097	<0.097	<0.10	<0.098	<0.10	<0.099	<0.096	<0.095	<0.097	<0.10	<0.099
	Endrin Aldehyde	ug/L			<0.098	<0.10	<0.097	<0.099	<0.097	<0.097	<0.10	<0.098	**0.0021J**	<0.099	<0.096	<0.095	<0.097	<0.10	<0.099
	Endrin Ketone	ug/L			<0.098	<0.10	<0.097	<0.099	<0.097	<0.097	<0.10	<0.098	<0.10	<0.099	<0.096	<0.095	<0.097	<0.10	<0.099
	Gamma-BHC (Lindane)	ug/L	0.2	0.2	**0.0062J**	**0.013J**	**0.032J**	**0.044J**	**0.036J**	**0.12**	**0.66**	<0.098	**0.035J**	**0.034J**	**0.46**	**0.044J**	<0.097	**0.012J**	**0.061J**
	Heptachlor	ug/L	0.1	0.1	<0.0098	<0.010	<0.0097	<0.0099	<0.0097	<0.0097	<0.010	<0.0098	<0.010	<0.0099	<0.0096	<0.0095	<0.0097	<0.010	<0.0099
	Heptachlor Epoxide	ug/L	0.2	0.2	<0.0049	<0.0050	<0.0049	<0.0049	<0.0048	<0.0049	<0.0051	<0.0049	<0.0050	<0.0050	<0.0048	<0.0048	<0.0048	<0.0051	<0.0050
	Metoxychlor	ug/L	40	40	<0.098	<0.10	<0.097	<0.099	**0.0091J**	**0.0096J**	<0.10	**0.0042J**	<0.10	<0.099	**0.0068J**	<0.095	<0.097	<0.10	**0.012J**
	Toxaphene	ug/L	3	3	<4.9	<5.0	<4.9	<4.9	<4.8	<4.9	<5.1	<4.9	<5.0	<5.0	<4.8	<4.8	<4.8	<5.1	<5.0
VOLATILE ORGANIC COMPOUNDS	1,1,1,2-Tetrachloroethane	ug/L		0.605	<25	<5.0	<10	<100	<100	<500	<500	<100	<20	<25	<250	<200	<500	<25	<250
	1,1,1-Trichloroethane	ug/L	200	200	<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	1,1,2,2-Tetrachloroethane	ug/L		0.0775	<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	1,1,2-Trichloroethane	ug/L	5	5	<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	1,1-Dichloroethane	ug/L		2.79	**5.2J+**	**4.5**	**4.3**	<40	**9.4J**	<200	**99J**	**39J**	**6.4J**	**8.8J**	**100**	<80	**76J**	**2.1J**	<100
	1,1-Dichloroethene	ug/L	7	7	<25	**0.47J**	<10	<100	<100	<500	<500	<100	**1.4J**	**1.5J**	<250	<200	<500	<25	<250
	1,1-Dichloropropene	ug/L			<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	1,2,3-Trichlorobenzene	ug/L			**12J+**	**10**	**6.5J**	<100	<100	<500	<500	<100	**16J**	**14J**	<250	**18J**	<500	**9.6J**	<250
	1,2,3-Trichloropropane	ug/L		0.0026	<50	<10	<20	<200	<200	<1000	<1000	<200	<40	<50	<500	<400	<1000	<50	<500
	1,2,4-Trichlorobenzene	ug/L	70	70	**48J+**	**36J-**	**27**	**73J**	**120**	**130J**	**200J**	**10J**	**67**	**60**	**140J**	**91J**	**81J**	**34**	**110J**
	1,2,4-Trimethylbenzene	ug/L		14.6	<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	1,2-Dibromo-3-Chloropropane	ug/L		0.000927	<25	<5.0	<10	<100	<100	<500	<500	<100	<20	<25	<250	<200	<500	<25	<250
	1,2-Dibromoethane	ug/L		0.00755	<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	1,2-Dichlorobenzene	ug/L	600	600	**84J+**	**45**	**43**	**63**	**150**	**1200**	**1100**	**150**	**320**	**420**	**780**	**77J**	**580**	**65**	**560**
	1,2-Dichloroethane	ug/L	5	5	**3.1J+**	**2.8**	**2.4J**	**7.2J**	**17J**	<200	<200	**13J**	**2.9J**	**2.9J**	**15J**	**13J**	<200	**1.3J**	<100
	1,2-Dichloropropane	ug/L	5	5	**5.0J+**	**2.4J**	<4.0UJ	<40	<40	<200	<200	<40	**3.6J**	<10	<100	<80	<200	<10	<100
	1,3,5-Trimethylbenzene	ug/L		14.5	<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	1,3-Dichlorobenzene	ug/L		80.7	**5.2J+**	**3.6**	**2.4J**	**8.1J**	**25J**	**80J**	**61J**	**9.3J**	**16**	**20**	**40J**	**15J**	<200	**3.8J**	**44J**

TABLE 3
WATER QUALITY DATA
SECOND QUARTER 2019

EXCEEDS MCL
EXCEEDS BCL (2015)
EXCEEDS BACKGROUND LEVEL
Detections **BOLDED**

PARAMETER GROP	PARAMETER	UNITS	Primary Maximum Contaminant Level	NDEP Basic Comparison Levels for Residential Water (2015)															
		AQUIFER			SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW
		LOCATION			WELL-D2	WELL-D3	WELL-D3	WELL-E3	WELL-F	WELL-G	WELL-H2	WELL-I	WELL-J	WELL-J2	WELL-K2	WELL-L	WELL-M2	WELL-N	WELL-O
		DATE			04/05/19	04/05/19	04/05/19	04/05/19	04/05/19	04/05/19	04/05/19	04/05/19	04/05/19	04/05/19	04/05/19	04/05/19	04/05/19	04/05/19	04/05/19
		SAMPLE PURPOSE			REG	FD	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
		SAMPLING EVENT			SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE
		Samplers			CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE
VOLATILE ORGANIC COMPOUNDS	1,3-Dichloropropane	ug/L		8.24	<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	1,4-Dichlorobenzene	ug/L	75	75	**120J+**	**84**	**60**	**110**	**220**	**2000**	**1800**	**250**	**440**	**620**	**1300**	**130**	**1000**	**95**	**910**
	2,2'-/4,4'-Dichlorobenzil	ug/L		10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2,2-Dichloropropane	ug/L			<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	2-Chlorotuolune	ug/L		90.2	<25	<5.0	<10	<100	<100	<500	<500	<100	<20	<25	<250	<200	<500	<25	<250
	4-Chlorotolune	ug/L			<25	<5.0	<10	<100	<100	<500	<500	<100	<20	<25	<250	<200	<500	<25	<250
	Benzene	ug/L	5	5	**12J+**	**3.4**	**3.4J**	**32J**	**65**	**17000**	**23000**	**33J**	**11**	**11**	**11000**	**49J**	**6300**	**19**	**3300**
	Bromobenzene	ug/L		85.2	<25	<5.0	<10	<100	<100	<500	<500	<100	<20	<25	<250	<200	<500	<25	<250
	Bromochloromethane	ug/L			<25	<5.0	<10	<100	<100	<500	<500	<100	<20	<25	<250	<200	<500	<25	<250
	Bromodichloromethane	ug/L	80	0.135	<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	Bromoform	ug/L	80	9.86	<25	<5.0	<10	<100	<100	<500	<500	<100	<20	<25	<250	<200	<500	<25	<250
	Bromomethane	ug/L		8.53	<25	<5.0	<10	<100	<100	<500	<500	<100	<20	<25	<250	<200	<500	<25	<250
	Carbone Tetrachloride	ug/L	5	5	<5.0	<1.0	<2.0	<20	<20	<100	<100	<20	<4.0	<5.0	<50	<40	<100	<5.0	<50
	Chlorobenzene	ug/L	100	100	**1600**	**450**	**460**	**4900**	**9800**	**29000**	**37000**	**4000**	**1400**	**1200**	**17000**	**6400**	**15000**	**1300**	**14000**
	Chcloroethane	ug/L		26.86	<25	<5.0	<10	<100	<100	<500	<500	<100	<20	<25	<250	<200	<500	<25	<250
	Chloroform	ug/L	80	0.223	<10	**0.38J**	<4.0	<40	<40	**50J**	<200	<40	<8.0	<10	<100	<80	<200	<10	**110**
	Chloromethane	ug/L		3.12	<25	<5.0	<10	<100	<100	<500	<500	<100	<20	<25	<250	<200	<500	<25	<250
	CIS-1,2-Dichloroethene	ug/L	70	70	<10	**0.41J**	**0.61J**	<40	<40	<200	<200	<40	**1.2J**	<10	<100	<80	<200	<10	<100
	CIS-1,3-Dichloropropene	ug/L		0.501	<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	Dibromochloromethane	ug/L	80	0.17	<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	Dibromomethane	ug/L		8.14	<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	Dichlorodifluoromethane	ug/L		393	<25	<5.0	<10	<100	<100	<500	<500	<100	<20	<25	<250	<200	<500	<25	<250
	Dimethyl Disulfide	ug/L			**5.3J+**	<2.0	**2.3J**	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	Ethylybenzene	ug/L	700	700	<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	Hexachlorobutadiene	ug/L		0.998	<25	<5.0	<10	<100	<100	<500	<500	<100	<20	<25	<250	<200	<500	<25	<250
	Isopropylbenzene	ug/L		667	<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	M,P-Xylenes	ug/L		1200	<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	Methlene Chloride	ug/L	5	5	<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	Naphthalene	ug/L		0.165	<25	<5.0	<10	<100	<100	<500	<500	<100	<20	<25	<250	<200	<500	<25	<250
	N-Butylbenzene	ug/L		238	<25	<5.0	<10	<100	<100	<500	<500	<100	<20	<25	<250	<200	<500	<25	<250
	N-Propylbenzene	ug/L		238	<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	O-Xylene	ug/L		1200	<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	P-Isopropyl Tolune	ug/L		834	<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	SEC-Butylbenzene	ug/L		238	<25	<5.0	<10	<100	<100	<500	<500	<100	<20	<25	<250	<200	<500	<25	<250
	Styrene'	ug/L	100	100	<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	Tert- Butylbenzene	ug/L		238	<25	**0.31J**	**0.81J**	<100	<100	<500	<500	<100	<20	<25	<250	<200	<500	<25	<250
	Tetrachloroethene	ug/L	5	5	<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	Toluene	ug/L	1000	1000	<10	**0.30J**	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	Trans-1,2-Dichloroethene	ug/L	100	100	<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	Trans-1,3-Dichloropropene	ug/L		0.501	<10	<2.0	<4.0	<40	<40	<200	<200	<40	<8.0	<10	<100	<80	<200	<10	<100
	Trichloroethene	ug/L	5	5	**24J+**	**11**	**8.1**	**17J**	**13J**	<200	**49J**	**56**	**62**	**73**	**66J**	**14J**	**42J**	**11**	<100
	Trichlorofluromethane	ug/L		1270	<25	<5.0	<10	<100	<100	<500	<500	<100	<20	<25	<250	<200	<500	<25	<250
	Vinyl Chloride	ug/L	2	2	<25	<5.0	<10	<100	<100	<500	<500	<100	<20	<25	<250	<200	<500	<25	<250

TABLE 3
WATER QUALITY DATA
SECOND QUARTER 2019

EXCEEDS MCL
EXCEEDS BCL (2015)
EXCEEDS BACKGROUND LEVEL
Detections **BOLDED**

PARAMETER GROP	PARAMETER	UNITS	Primary Maximum Contaminant Level	NDEP Basic Comparison Levels for Residential Water (2015)											
		AQUIFER			SHALLOW	SHALLOW	SHALLOW	MIDDLE	MIDDLE	MIDDLE	MIDDLE	MIDDLE	MIDDLE	MIDDLE	MIDDLE
		LOCATION			WELL-P	WELL-Q	WELL-R	AGX-90	EC-14	M-136	M-149	M-150	MCF-BW-10A	MC-MW-32	MC-MW-35
		DATE			04/05/19	04/05/19	04/05/19	04/10/19	04/17/19	04/16/19	04/15/19	04/16/19	04/18/19	04/11/19	04/11/19
		SAMPLE PURPOSE			REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
		SAMPLING EVENT			SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE
		Samplers			CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE
GENERAL CHARACTERIZATION	Perchlorate	ug/L		18	--	--	--	<4.0	**1.8J**	**46000J-**	**290000J-**	**25J-**	**37000**	**27000.00**	<4.0
	Total Dissolved Solids	mg/L			--	--	--	**730**	**710**	**1100**	**1800**	**520**	**1600**	**6200**	**690**
TRACE METALS	Arsenic	ug/L	10	10 (59 background level[b])	--	--	--	**21**	**28**	**38**	**29**	**36**	**43**	**24**	**35**
	Barium	mg/l	2	2	--	--	--	**0.025**	**0.031**	**0.041**	**0.053**	**0.024**	**0.022**	**0.046**	**0.057**
	Cadmium	mg/l	0.005	0.005	--	--	--	<0.00010	**0.00011**	<0.00010	**0.000055J**	<0.00010	<0.00010	<0.0010	**0.00022**
	Chromium	mg/l	0.1	0.1	--	--	--	**0.011**	**0.012**	**0.069**	**1.6**	**0.051**	**0.0098**	**0.0039J**	**0.029**
	Lead	mg/l	0.015	0.015	--	--	--	**0.00041**	**0.00051**	**0.00150**	**0.00043**	**0.00014**	**0.00018J+**	<0.0010	**0.0031**
	Mercury	mg/L	0.002	0.002	--	--	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Selenium	mg/l	0.05	0.05	--	--	--	**0.0026**	**0.0023**	**0.0021**	**0.0018**	**0.0018**	**0.0032**	<0.0060	**0.0026**
	Silver	mg/l		0.1	--	--	--	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0020	**0.00013J**
	Uranium	mg/l	0.03	0.03	--	--	--	**0.0023**	**0.0019**	**0.0051**	**0.0051**	**0.0042**	**0.0043**	**0.012**	**0.0064**
PESTICIDES	2,4'-DDD	ug/L			<0.10	<1.0	<0.10	<0.098	<0.098	<0.099	<0.10	<0.097	<0.10	<0.098	<0.096
	2,4'-DDE	ug/L			<0.10	<0.10	**0.17**	<0.098	<0.098	<0.099	<0.10	<0.097	<0.10	<0.098	<0.096
	2,4'-DDT	ug/L			<0.10	<0.10	**0.042J**	<0.098	<0.098	<0.099	<0.10	<0.097	<0.10	<0.098	<0.096
	4,4'-DDD	ug/L		0.325	<0.10	<0.10	<0.10	<0.098	<0.098	<0.099	<0.10	<0.097	<0.10	<0.098	<0.096
	4,4'-DDE	ug/L		0.229	<0.10	<0.10	**0.029J**	<0.098	<0.098	<0.099	<0.10	<0.097	<0.10	<0.098	<0.096
	4,4'-DDT	ug/L		0.229	<0.10	<0.10	**0.021J**	<0.098	<0.098	<0.099	<0.10	<0.097	<0.10	<0.098	<0.096
	Aldrin	ug/L		0.00458	<0.0050	<0.0051	<0.0052	<0.0049	<0.0049	<0.0050	<0.0050	<0.0048	<0.0050	<0.0049	<0.0048
	Alpha-BHC	ug/L		10	**1.6**	**2.8**	**2.3**	<0.0049	<0.0049	<0.0050	<0.0050	<0.0048	<0.0050	**0.021J+**	<0.0048
	Beta-BHC	ug/L		2	**7.4**	**8.6**	**7.3**	<0.0098	**0.011**	<0.0099	<0.010	<0.0097	<0.010	**0.068J+**	<0.0096
	Chlordane	ug/L	2	2	<0.10	<0.10	<0.10	<0.098	<0.098	<0.099	<0.10	<0.097	<0.10	<0.098	<0.096
	Delta-BHC	ug/L		10	**2.4**	**2.5**	**1.7J**	<0.20	<0.20	<0.20	<0.20	<0.19	<0.20	**0.031J+**	<0.19
	Dieldrin	ug/L		0.00487	<0.0050	<0.0051	<0.0052	<0.0049	<0.0049	<0.0050	<0.0050	<0.0048	<0.0050	<0.0049	<0.0048
	Endosulfan I	ug/L		200	<0.10	**0.026J**	<0.10	<0.098	<0.098	<0.099	<0.10	<0.097	<0.10	<0.098	<0.096
	Endusolfan I	ug/L		200	<0.10	<0.10	<0.10	<0.098	<0.098	<0.099	<0.10	<0.097	<0.10	<0.098	<0.096
	Endosulfan Sulfate	ug/L			<0.20	<0.21	<0.21	<0.20	<0.20	<0.20	<0.20	<0.19	<0.20	<0.20	<0.19
	Endrin	ug/L	2	2	<0.10	<0.10	<0.10	<0.098	<0.098	<0.099	<0.10	<0.097	<0.10	<0.098	<0.096
	Endrin Aldehyde	ug/L			<0.10	<0.10	<0.10	<0.098	<0.098	<0.099	<0.10	<0.097	<0.10	<0.098	<0.096
	Endrin Ketone	ug/L			<0.10	<0.10	<0.10	<0.098	<0.098	<0.099	<0.10	<0.097	<0.10	<0.098	<0.096
	Gamma-BHC (Lindane)	ug/L	0.2	0.2	**0.025J**	**0.057J**	**0.043J**	<0.098	<0.098	<0.099	<0.10	<0.097	<0.10	**0.0082J+**	<0.096
	Heptachlor	ug/L	0.1	0.1	<0.010	<0.010	<0.010	<0.0098	<0.0098	<0.0099	<0.010	<0.0097	<0.010	<0.0098	<0.0096
	Heptachlor Epoxide	ug/L	0.2	0.2	<0.0050	<0.0051	<0.0052	<0.0049	<0.0049	<0.0050	<0.0050	<0.0048	<0.0050	<0.0049	<0.0048
	Metoxychlor	ug/L	40	40	<0.10	**0.019J**	<0.10	<0.098	<0.098	<0.099	<0.10	<0.097	<0.10	<0.098	<0.096
	Toxaphene	ug/L	3	3	<5.0	<5.1	<5.2	<4.9	<4.9	<5.0	<5.0	<4.8	<5.0	<4.9	<4.8
VOLATILE ORGANIC COMPOUNDS	1,1,1,2-Tetrachloroethane	ug/L		0.605	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	1,1,1-Trichloroethane	ug/L	200	200	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,1,2,2-Tetrachloroethane	ug/L		0.0775	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,1,2-Trichloroethane	ug/L	5	5	<2.0	**0.94J**	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,1-Dichloroethane	ug/L		2.79	**3.3**	**11**	**8.6**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**1.3J**	<2.0
	1,1-Dichloroethene	ug/L	7	7	<5.0	**1.4J**	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	1,1-Dichloropropene	ug/L			<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,2,3-Trichlorobenzene	ug/L			**3.0J**	**7.0**	**11J**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	1,2,3-Trichloropropane	ug/L		0.0026	<10	<10	<40	<10	<10	<10	<10	<10	<10	<10	<10
	1,2,4-Trichlorobenzene	ug/L	70	70	**13**	**33**	**46**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	1,2,4-Trimethylbenzene	ug/L		14.6	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,2-Dibromo-3-Chloropropane	ug/L		0.000927	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	1,2-Dibromoethane	ug/L		0.00755	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,2-Dichlorobenzene	ug/L	600	600	**19**	**330**	**690**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,2-Dichloroethane	ug/L	5	5	**0.40J**	**1.1J**	**2.4J**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**1.0J**	<2.0
	1,2-Dichloropropane	ug/L	5	5	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,3,5-Trimethylbenzene	ug/L		14.5	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,3-Dichlorobenzene	ug/L		80.7	**3.6**	**14**	**17**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

TABLE 3
WATER QUALITY DATA
SECOND QUARTER 2019

EXCEEDS MCL
EXCEEDS BCL (2015)
EXCEEDS BACKGROUND LEVEL
Detections **BOLDED**

PARAMETER GROP	PARAMETER	UNITS	Primary Maximum Contaminant Level	NDEP Basic Comparison Levels for Residential Water (2015)											
		AQUIFER			SHALLOW	SHALLOW	SHALLOW	MIDDLE	MIDDLE	MIDDLE	MIDDLE	MIDDLE	MIDDLE	MIDDLE	MIDDLE
		LOCATION			WELL-P	WELL-Q	WELL-R	AGX-90	EC-14	M-136	M-149	M-150	MCF-BW-10A	MC-MW-32	MC-MW-35
		DATE			04/05/19	04/05/19	04/05/19	04/10/19	04/17/19	04/16/19	04/15/19	04/16/19	04/18/19	04/11/19	04/11/19
		SAMPLE PURPOSE			REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
		SAMPLING EVENT			SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE	SITEWIDE
		Samplers			CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE	CONVERSE
VOLATILE ORGANIC COMPOUNDS	1,3-Dichloropropane	ug/L		8.24	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,4-Dichlorobenzene	ug/L	75	75	**23**	**450**	**830**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	2,2'-/4,4'-Dichlorobenzil	ug/L		10	--	--	--	--	--	--	--	--	--	--	--
	2,2-Dichloropropane	ug/L			<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	2-Chlorotuolune	ug/L		90.2	<5.0	**0.35J**	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	4-Chlorotolune	ug/L			<5.0	<5.0	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Benzene	ug/L	5	5	**0.84J**	**2.7**	**5.4J**	<2.0	<2.0	<2.0	**0.25J**	<2.0	**1.1J**	**0.47J**	<2.0
	Bromobenzene	ug/L		85.2	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Bromochloromethane	ug/L			<5.0	<5.0	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Bromodichloromethane	ug/L	80	0.135	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Bromoform	ug/L	80	9.86	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Bromomethane	ug/L		8.53	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Carbone Tetrachloride	ug/L	5	5	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Chlorobenzene	ug/L	100	100	**43**	**430**	**720**	<2.0	<2.0	<2.0	**1.5J**	<2.0	**0.59J**	**1.3J**	<2.0
	Chcloroethane	ug/L		26.86	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Chloroform	ug/L	80	0.223	**0.55J**	**0.56J**	<8.0	<2.0	<2.0	**17**	**47**	<2.0	**1.8J**	**1.2J**	<2.0
	Chloromethane	ug/L		3.12	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	CIS-1,2-Dichloroethene	ug/L	70	70	<2.0	**1.2J**	**1.5J**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	CIS-1,3-Dichloropropene	ug/L		0.501	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Dibromochloromethane	ug/L	80	0.17	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Dibromomethane	ug/L		8.14	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Dichlorodifluoromethane	ug/L		393	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Dimethyl Disulfide	ug/L			<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Ethylybenzene	ug/L	700	700	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Hexachlorobutadiene	ug/L		0.998	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Isopropylbenzene	ug/L		667	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	M,P-Xylenes	ug/L		1200	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Methlene Chloride	ug/L	5	5	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Naphthalene	ug/L		0.165	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	N-Butylbenzene	ug/L		238	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	N-Propylbenzene	ug/L		238	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	O-Xylene	ug/L		1200	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	P-Isopropyl Tolune	ug/L		834	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	SEC-Butylbenzene	ug/L		238	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Styrene'	ug/L	100	100	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Tert- Butylbenzene	ug/L		238	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Tetrachloroethene	ug/L	5	5	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Toluene	ug/L	1000	1000	<2.0	**0.33J**	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Trans-1,2-Dichloroethene	ug/L	100	100	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Trans-1,3-Dichloropropene	ug/L		0.501	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Trichloroethene	ug/L	5	5	**2.4**	**60**	**67**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Trichlorofluromethane	ug/L		1270	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Vinyl Chloride	ug/L	2	2	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

TABLE 3
WATER QUALITY DATA
SECOND QUARTER 2019

FOOTNOTES:

a = NDEP Basic Comparison Levels, revision March 19, 2015
b = Arsenic background concentration is 59 ug/L. As noted in NDEP comments to the Draft Site Groundwater Remedial Alternatives Study

ABBREVIATIONS AND QUALIFIERS:

SITEWIDE= Sitewide Monitoring Round
REG= Regular Sample
FD= Duplicate Sample
J= The associated value is an estimated quantity.
J-= The associated numerical value is an estimated quantity with a negative bias.
J+= The associated numerical value is an estimated quantity with a positive bias.
UJ= The sample was analyzed for, but was not detected. The associated quantitation or detection limit is an estimate.
REG= The result is unuseable.
--= Not analyzed

TABLE 4
FIELD PARAMETER DATA
SECOND QUARTER 2019

LOCATION ID	WBZ	SAMPLE DATE	SAMPLING PROGRAM	NORTHING	EASTING	pH	D.O. (mg/l)	ORP (mV)
AA-BW-03A	Shallow	04/11/19	Sitewide	26720585.58	825971.018	0.54	-64.70	7.01
AA-MW-05	Shallow	04/10/19	Sitewide	26715530.78	824351.37	6.32	58.20	7.12
AA-MW-13R	Shallow	04/18/19	Sitewide	26717045.47	825265.78	2.73	-196.80	12.93
AGX-90	Middle	04/10/19	Sitewide	26719984.41	822797.723	4.26	-71.30	7.59
EC-04	Shallow	04/17/19	Sitewide	26717035.31	824135.84	3.62	85.80	7.36
EC-10	Shallow	04/17/19	Sitewide	26717752.81	823570.098	8.48	61.50	7.35
EC-14	Middle	04/17/19	Sitewide	26718049.25	824258.278	2.47	161.10	4.7
H-11	Shallow	04/11/19	Sitewide	26714840.05	826573.967	1.59	-16.00	5.06
H-55	Shallow	04/10/19	Sitewide	26720010.2	823645.49	0.85	-146.50	6.94
M-007B	Shallow	04/15/19	Sitewide	26720979.66	826106.497	2.62	95.30	6.82
M-057A	Shallow	04/15/19	Sitewide	26719782.7	826992.8	8.02	60.00	7.16
M-092	Shallow	04/16/19	Sitewide	26717531.9	827138.1	8.75	70.10	7.29
M-136	Middle	04/16/19	Sitewide	26719889.77	827165.342	6.14	53.40	7.49
M-142	Shallow	04/15/19	Sitewide	26718713.09	827191.753	6.07	116.90	5.45
M-149	Middle	04/15/19	Sitewide	26718285.82	828373.093	5.55	62.30	6.92
M-150	Middle	04/16/19	Sitewide	26719569.84	828058.955	6.84	59.90	7.3
MC-111	Shallow	04/10/19	Sitewide	26721355.46	825942.13	3.16	85.60	6.28
MC-113	Shallow	04/08/19	Sitewide	26722279.41	825538.878	0.63	47.00	6.83
MC-114	Shallow	04/08/19	Sitewide	26722158.53	825835.009	1.03	124.60	5.33
MC-47	Shallow	04/08/19	Sitewide	26722506.05	824640.341	5.62	95.90	7.08
MC-48	Shallow	04/08/19	Sitewide	26722431.11	824952.84	3.05	121.10	6.69
MC-49	Shallow	04/08/19	Sitewide	26722360.49	825182.72	2.21	-100.40	6.88
MC-50	Shallow	04/09/19	Sitewide	26722076.15	825534.87	0.98	34.70	6.51
MC-53	Shallow	04/08/19	Sitewide	26721920.01	825942.24	0.68	53.90	6.74
MCF-BW-10A	Middle	04/18/19	Sitewide	26718620.39	823621.718	9.25	86.20	7.33
MC-MW-32	Middle	04/11/19	Sitewide	26721325.15	826314.47	2.66	-105.50	5.38
MC-MW-35	Middle	04/11/19	Sitewide	26722328.38	824348.15	3.61	-112.90	7.6
MW-01	Shallow	04/12/19	Sitewide	26715187.41	825536.01	8.49	48.60	7.56
MW-02	Shallow	04/12/19	Sitewide	26716364.2	825639.84	2.89	80.30	6.6

TABLE 4
FIELD PARAMETER DATA
SECOND QUARTER 2019

LOCATION ID	WBZ	SAMPLE DATE	SAMPLING PROGRAM	NORTHING	EASTING	pH	D.O. (mg/l)	ORP (mV)
MW-03	Shallow	04/09/19	Sitewide	26716390.46	825354.12	1.41	-102.20	6.1
MW-04	Shallow	04/12/19	Sitewide	26716415.06	825073.9	4.00	63.40	5.88
MW-A-J	Shallow	04/09/19	Sitewide	26726031.22	826455.22	2.36	89.70	6.82
MW-R	Shallow	04/09/19	Sitewide	26725018.3	825423.72	0.85	83.60	5.72
PC-028	Shallow	04/09/19	Sitewide	26725375.9	828530.32	6.88	84.80	7.17
PC-031	Shallow	04/09/19	Sitewide	26725195.94	826781.35	2.23	91.80	7
PC-064	Shallow	04/09/19	Sitewide	26723702.69	827916.07	1.12	112.40	5.28
WELL-D2	Shallow	04/05/19	Sitewide	26721801.9	825124.062	--	--	6.81
WELL-D3	Shallow	04/05/19	Sitewide	26721792.85	825144.91	--	--	6.76
WELL-E3	Shallow	04/05/19	Sitewide	26721705.66	825263.64	--	--	6.74
WELL-F	Shallow	04/05/19	Sitewide	26721607.4	825407.5	--	--	6.88
WELL-G	Shallow	04/05/19	Sitewide	26721526.56	825525.13	--	--	6.84
WELL-H2	Shallow	04/05/19	Sitewide	26721467.01	825614.58	--	--	6.73
WELL-I	Shallow	04/05/19	Sitewide	26721329.16	825814.25	--	--	6.61
WELL-J	Shallow	04/05/19	Sitewide	26721983.74	824858.85	--	--	6.92
WELL-J2	Shallow	04/05/19	Sitewide	26721986.31	824851.1	--	--	7.03
WELL-K2	Shallow	04/05/19	Sitewide	26721397.81	825712.42	--	--	6.87
WELL-L	Shallow	04/05/19	Sitewide	26721664.3	825323.72	--	--	6.73
WELL-M2	Shallow	04/05/19	Sitewide	26721358.75	825769.742	--	--	6.73
WELL-N	Shallow	04/05/19	Sitewide	26721893.86	824991.644	--	--	7.09
WELL-O	Shallow	04/05/19	Sitewide	26721566.82	825467.246	--	--	7.22
WELL-P	Shallow	04/05/19	Sitewide	26722082.08	824714.381	--	--	7.26
WELL-Q	Shallow	04/05/19	Sitewide	26722047.17	824764.38	--	--	7.1
WELL-R	Shallow	04/05/19	Sitewide	26722013.11	824809.93	--	--	7.29

Note:

-- = Not measured

HARGIS + ASSOCIATES, INC.

TABLE 5
SHALLOW ZONE WATER QUALITY DATA
2019 COMPOUND PREVALENCE*

ANALYTE GROUP	PARAMETER	UNITS	EPA Maximum Contaminant Limit	NDEP Basic Comparison Level	Minimum Detection	Mean Detection	Median Detection	Maximum Detection	Standard Deviation of Detections	Minimum Non-Detected Value (SQL)	Maximum Non-Detected Value (SQL)	Number of Detects greater than MCL	Number of Detects greater than BCL	Number of Detects great than Background Concentration	Total Number of Analyses	Number of Detects	Number of Non-Detects
General Characterization	Perchlorate	ug/L		18	12	29300	1700	320000	67200	0.95	0.95	n/a	26	n/a	28	27	1
	Total Dissolved Solids	mg/L			760	10700	4400	110000	20200	n/a	n/a	n/a	n/a	n/a	28	28	0
Trace Metals	Aresenic	ug/L	10	10 (59 background	0.11	147	89	1500	275	0.5	0.5	26	26	21	28	27	1
	Barium	mg/l	2	2	0.014	0.145	0.041	2.7	0.502	n/a	n/a	1	1	n/a	28	28	0
	Chromium	mg/l	0.1	0.1	0.00031	0.0587	0.010	0.70	0.153	0.0013	0.0050	3	3	n/a	28	23	5
	Lead	mg/l	0.015	0.015	0.000051	0.00939	0.00107	0.12	0.0262	0.000050	0.0010	3	3	n/a	28	22	6
	Uranium	mg/l	0.03	0.03	0.0017	0.0372	0.0225	0.18	0.0436	0.000050	0.00025	10	10	n/a	28	26	2
Pesticides	4,4'-DDE	ug/L		0.229	0.0043	0.0911	0.029	0.24	0.13	0.0027	0.0031	n/a	1	n/a	45	3	42
	Alpha-BHC	ug/L		10	0.0030	12.8	0.925	200	43.9	0.0022	0.0026	n/a	3	n/a	45	36	9
	Beta-BHC	ug/L		2	0.0041	9.91	5.4	59	14	0.0038	0.0041	n/a	20	n/a	45	33	12
	Dieldrin	ug/L		0.00487	0.0020	0.0667	0.019	0.28	0.12	0.0018	0.0021	n/a	3	n/a	45	5	40
	Gamma-BHC (Lindane)	ug/L	0.2	0.2	0.0035	0.0713	0.032	0.66	0.142	0.0027	0.0031	2	2	n/a	45	29	16
Volatile Organic Compounds	1,1-Dichloroethanel	ug/L		2.79	0.26	17	4.6	100	30.9	0.25	50	n/a	14	n/a	45	23	22
	1,2,4-Trichlorobenze	ug/L	70	70	0.72	68.7	40	530	104	0.40	40	9	9	n/a	45	28	17
	1,2-Dichlorobenze	ug/L	600	600	0.29	826	64	18000	3160	0.25	0.25	6	6	n/a	45	32	13
	1,2-Dichloroethane	ug/L	5	5	0.33	4.4	2.4	17	5.47	0.25	50	5	5	n/a	45	20	25
	1,3-Dichlorobenzene	ug/L		80.7	0.49	53.3	14	750	161	0.25	50	n/a	1	n/a	45	21	24
	1,4-Dichlorobenzene	ug/L	75	75	0.28	867	95	16000	2780	0.25	0.25	17	17	n/a	45	33	12
	Benzene	ug/L	5	5	0.61	4370	32	38000	9520	0.25	0.50	17	17	n/a	45	23	22
	Carbon Tetrachloride	ug/L	5	5	0.73	17.7	1.15	97	38.9	0.25	50	2	2	n/a	45	6	39
	Chlorobenzene	ug/L	100	100	0.35	5600	1250	37000	9090	0.25	0.25	22	22	n/a	45	30	15
	Chloroform	ug/L	80	0.223	0.27	5030	2.7	94000	19600	0.25	50	6	24	n/a	45	24	21
	Methylene Chloride	ug/L	5	5	120	120	120	120	n/a	1.1	220	1	1	n/a	45	1	44
	Trichloroethene	ug/L	5	5	0.28	26.4	13.5	73	26.8	0.25	50	15	15	n/a	45	22	23

Notes:

* Prevalence table do not include statistics from NERT monitored wells

n/a = Not applicable

a = Arsenic background concentration is 59 ug/L as noted in NDEP comments to the Draft Site Groundwater Remedial Alternatives Study

SQL value exceeds MCL and/or BCL

TABLE 6
MIDDLE ZONE WATER QUALITY DATA
2019 COMPOUND PREVALENCE*

ANALYTE GROUP	PARAMETER	UNITS	EPA Maximum Contaminant Limit	NDEP Basic Comparison Level	Minimum Detection	Mean Detection	Median Detection	Maximum Detection	Standard Deviation of Detections	Minimum Non-Detected Value (SQL)	Maximum Non-Detected Value (SQL)	Number of Detects greater than MCL	Number of Detects greater than BCL	Number of Detects greater than Background Concentration	Total Number of Analyses	Number of Detects	Number of Non-Detects
General Characterization	Perchlorate	ug/L		18	1.8	66700	32000	290000	111000	0.95	0.95	n/a	5	n/a	8	6	2
	Total Dissolved Solids	mg/L			520	1670	915	6200	1890	n/a	n/a	n/a	n/a	n/a	8	8	0
Trace Metals	Aresenic	ug/L	10	10 (59 background concentration[a])	21	31.8	32	43	7.48	n/a	n/a	n/a	n/a	0	8	8	0
	Chromium	mg/l	0.1	0.1	0.0039	0.223	0.0205	1.6	0.557	n/a	n/a	1	1	n/a	8	8	0
Volotile Organic Compounds	Chloroform	ug/L	80	0.223	1.2	16.8	9.4	47	21.5	0.25	0.25	0	4	n/a	8	4	4

Notes:

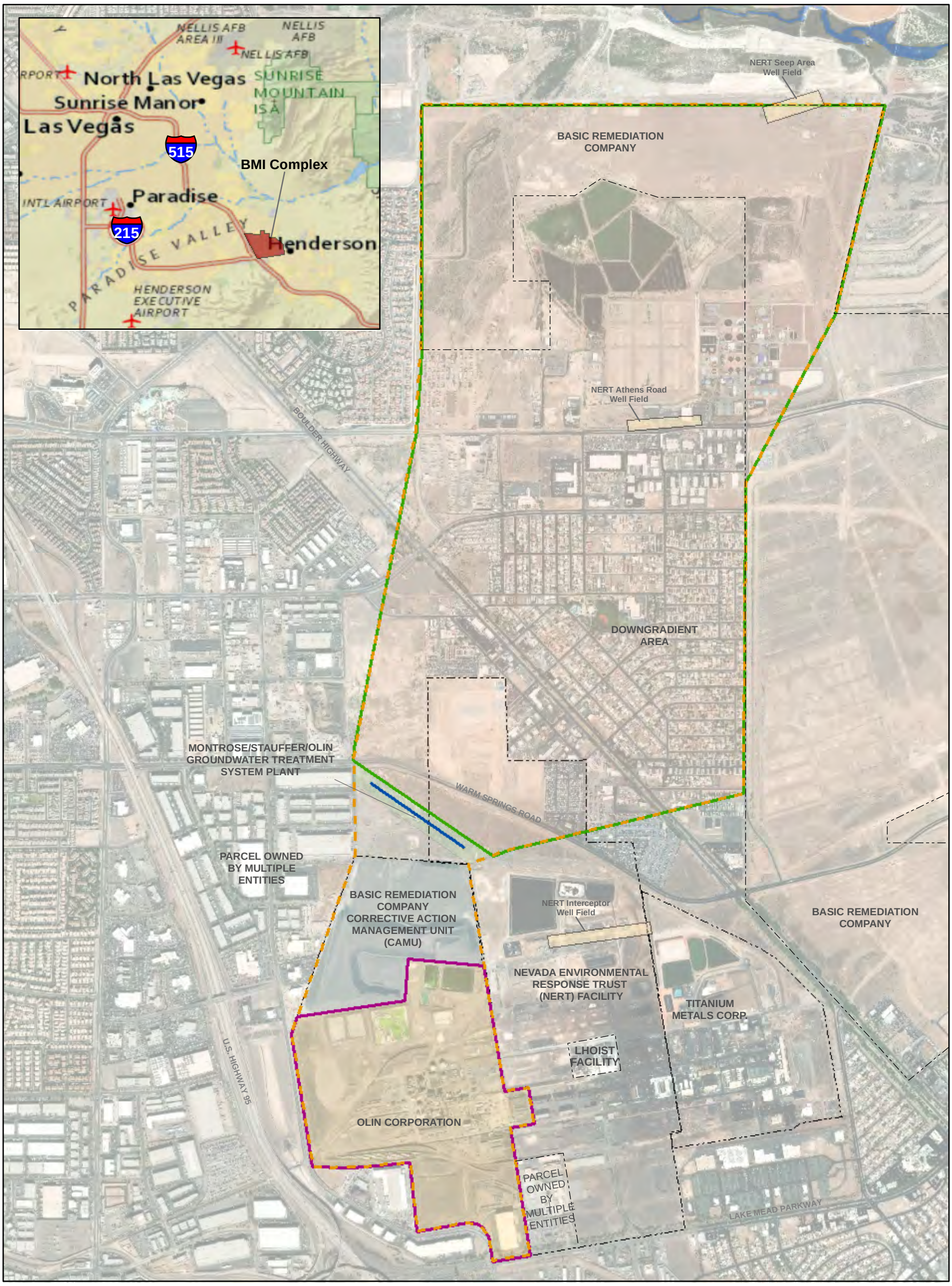
* Prevalence table do not include statistics from NERT monitored wells

n/a = Not applicable

a = Arsenic background concentration is 59 ug/L as noted in NDEP comments to the Draft Site Groundwater Remedial Alternatives Study

SQL value exceeds MCL and/or BCL

FIGURES



P:\H+A_GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\ Fig 1 Study Area

EXPLANATION

- GWTS Extraction Well Line
- Study Area Boundary
- Olin Site Boundary
- Downgradient Area
- Property Boundaries
- Las Vegas Wash

N

0 800 1,600 Feet

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

STUDY AREA

HARGIS + ASSOCIATES, INC.
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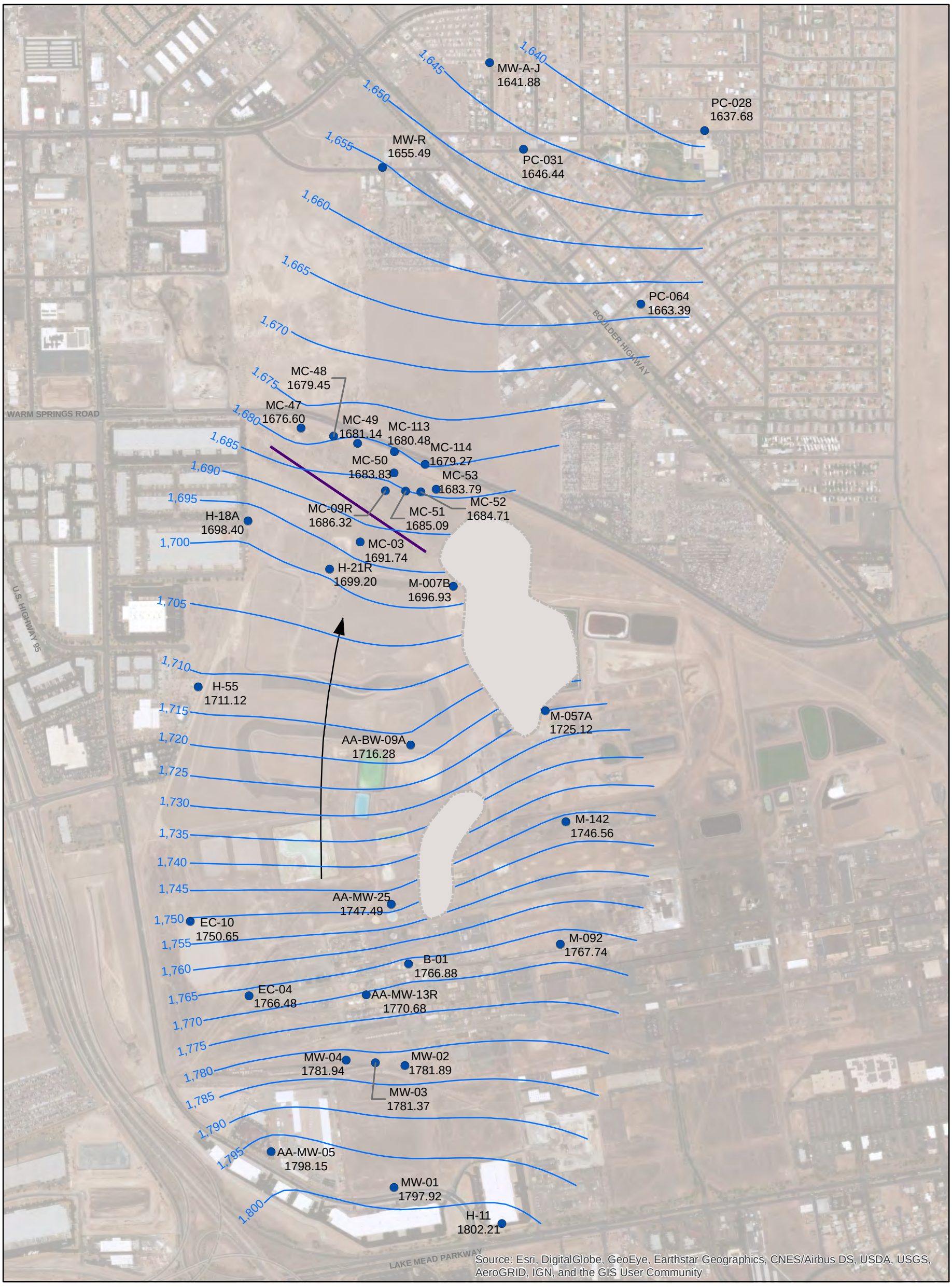
FIGURE 1

PREP BY RGW REV BY BRW RPT NO 754.111



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EXPLANATION

AA-MW-05 1798.15 — MONITOR WELL IDENTIFIER GROUNDWATER ELEVATION - SECOND QUARTER 2019

1,745 — APPROXIMATE CONTOUR LINE OF EQUAL WATER LEVEL ELEVATION IN FEET ABOVE MEAN SEA LEVEL

GROUNDWATER FLOW DIRECTION

APPROXIMATE AREA WHERE SHALLOW ZONE IS NOT SATURATED

N

0 500 1,000 Feet

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

SHALLOW ZONE GROUNDWATER GRADIENT AND FLOW DIRECTION

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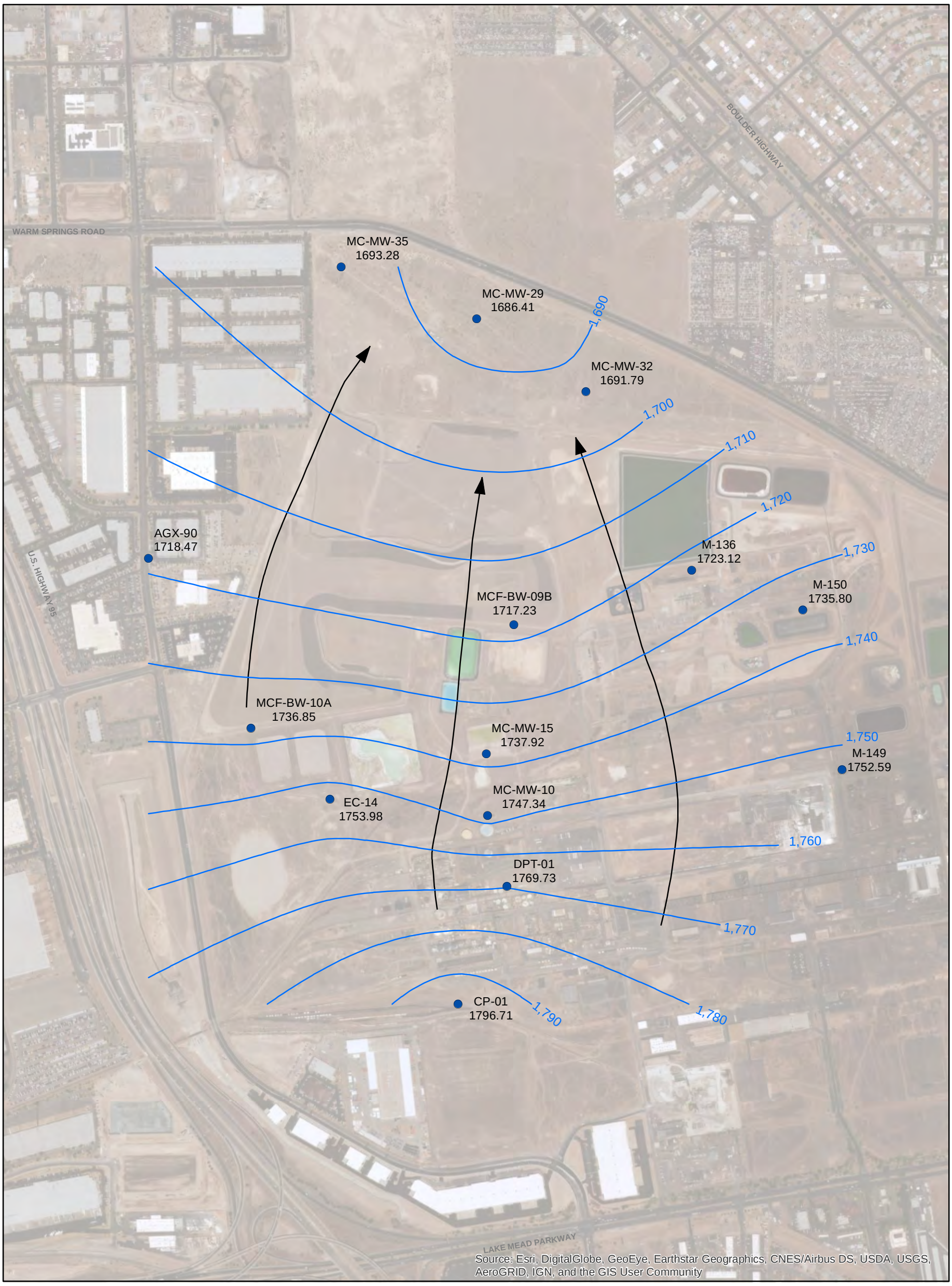
FIGURE 2

PREP BY RGW REV BY BRW RPT NO 754.111



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EXPLANATION

CP-01
1796.71 — MONITOR WELL IDENTIFIER
GROUNDWATER ELEVATION - SECOND QUARTER 2019

1,790 — APPROXIMATE CONTOUR LINE OF EQUAL WATER LEVEL ELEVATION IN FEET ABOVE MEAN SEA LEVEL

GROUNDWATER FLOW DIRECTION

N

0 400 800 Feet

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

MIDDLE ZONE GROUNDWATER GRADIENT AND FLOW DIRECTION

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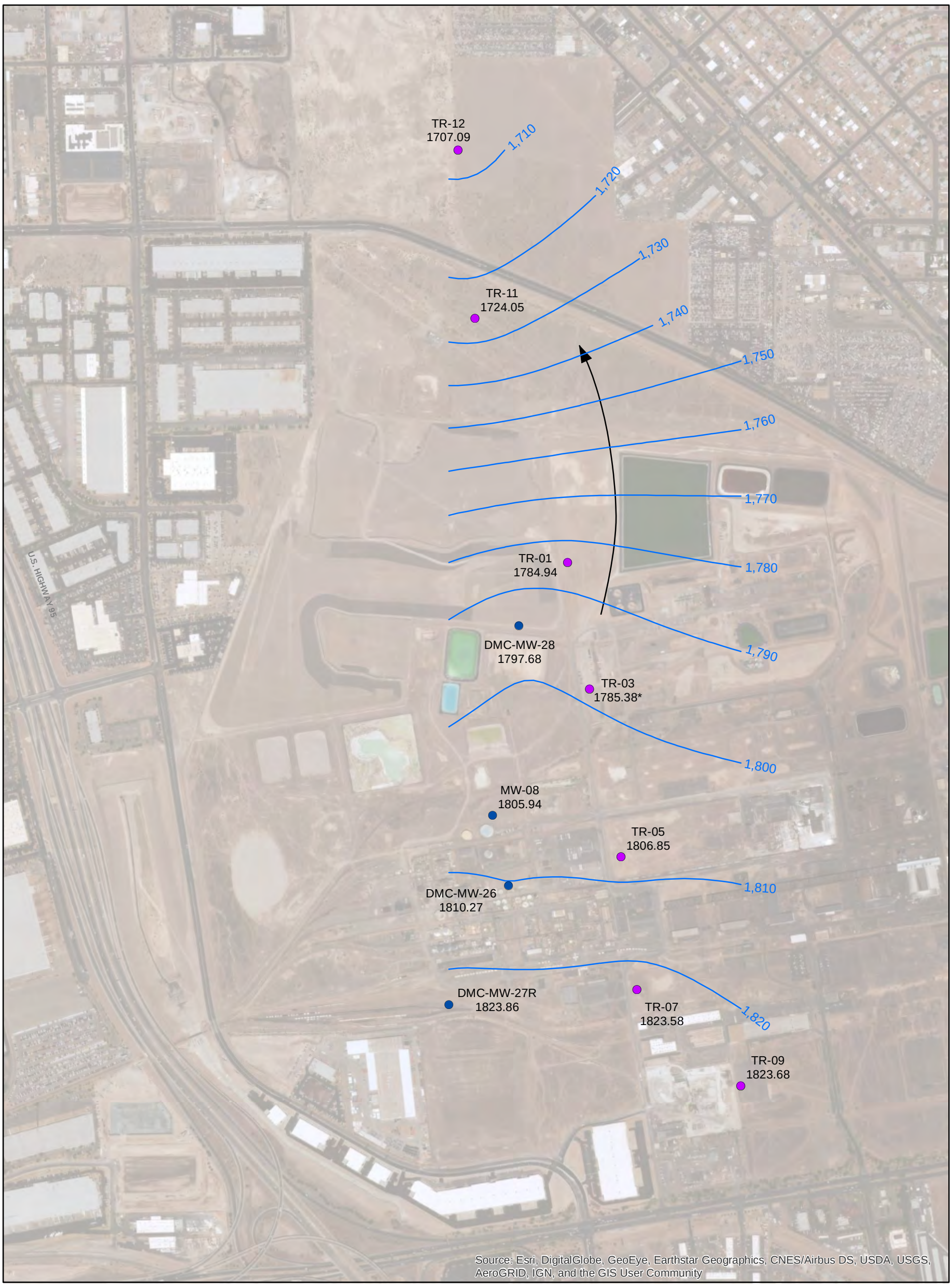
FIGURE 3

PREP BY RGW REV BY BRW RPT NO 754.111



P:\H+A_GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\ DZ WLs_2019

EXPLANATION

MW-08 1805.94 — MONITOR WELL IDENTIFIER
GROUNDWATER ELEVATION - SECOND QUARTER 2019

TR-09 1823.68 — MONITOR WELL IDENTIFIER (NERT DATA)
GROUNDWATER ELEVATION - SECOND QUARTER 2019

1,810 — APPROXIMATE CONTOUR LINE OF EQUAL WATER LEVEL ELEVATION IN FEET ABOVE MEAN SEA LEVEL

GROUNDWATER FLOW DIRECTION

Note: * indicates suspected mismeasurement or data transcription error by NERT

N

0 400 800 Feet

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

DEEP ZONE GROUNDWATER GRADIENT AND FLOW DIRECTION

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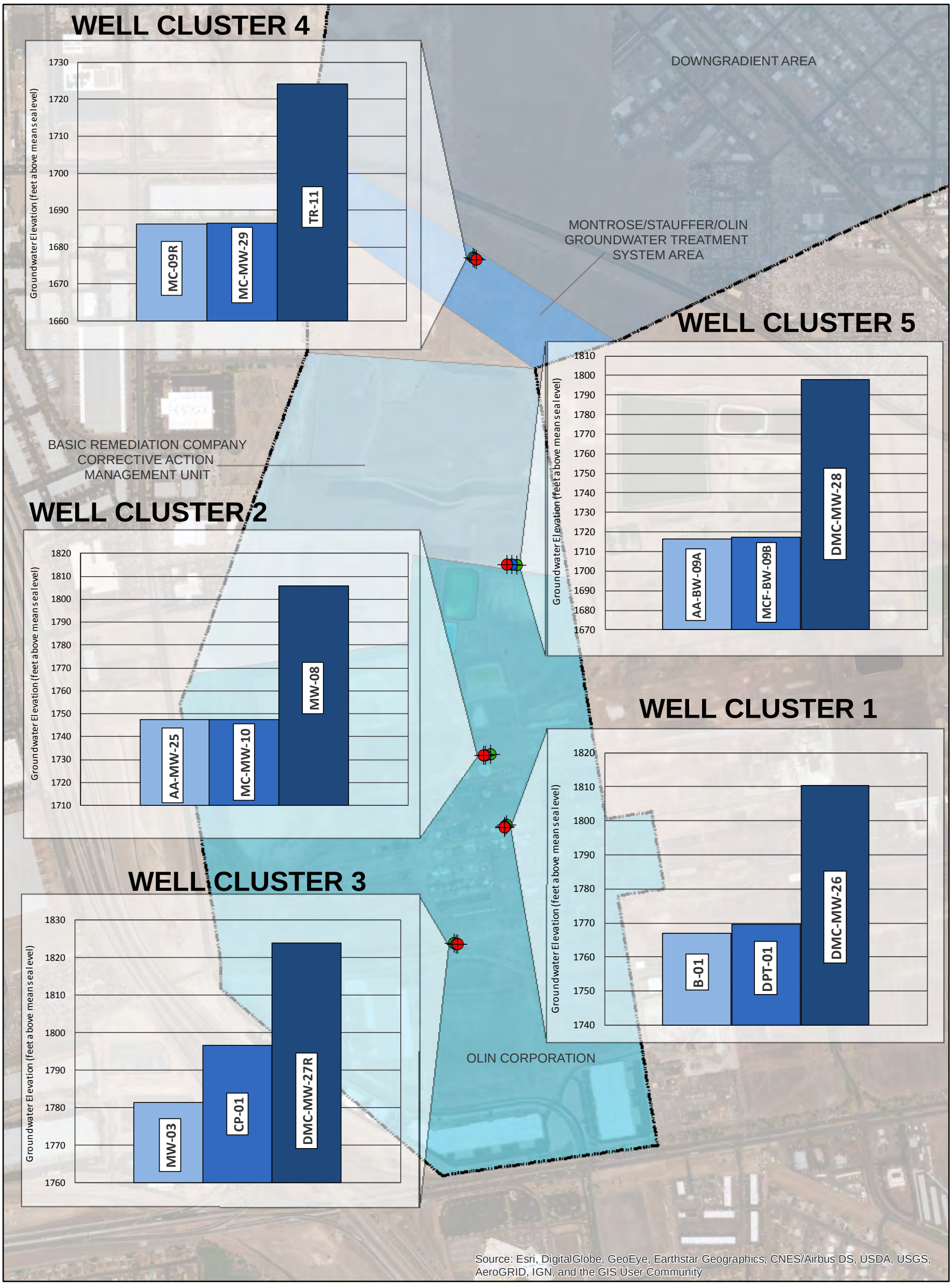
FIGURE 4

PREP BY RGW REV BY BRW RPT NO 754.111



P:\H+A_GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\ Figure 5 Cluster Locations

EXPLANATION

- Shallow Zone
- Middle Zone
- Deep Zone
- Study Area

N

0 400 800 Feet

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER, AND OLIN SITES
HENDERSON, NEVADA

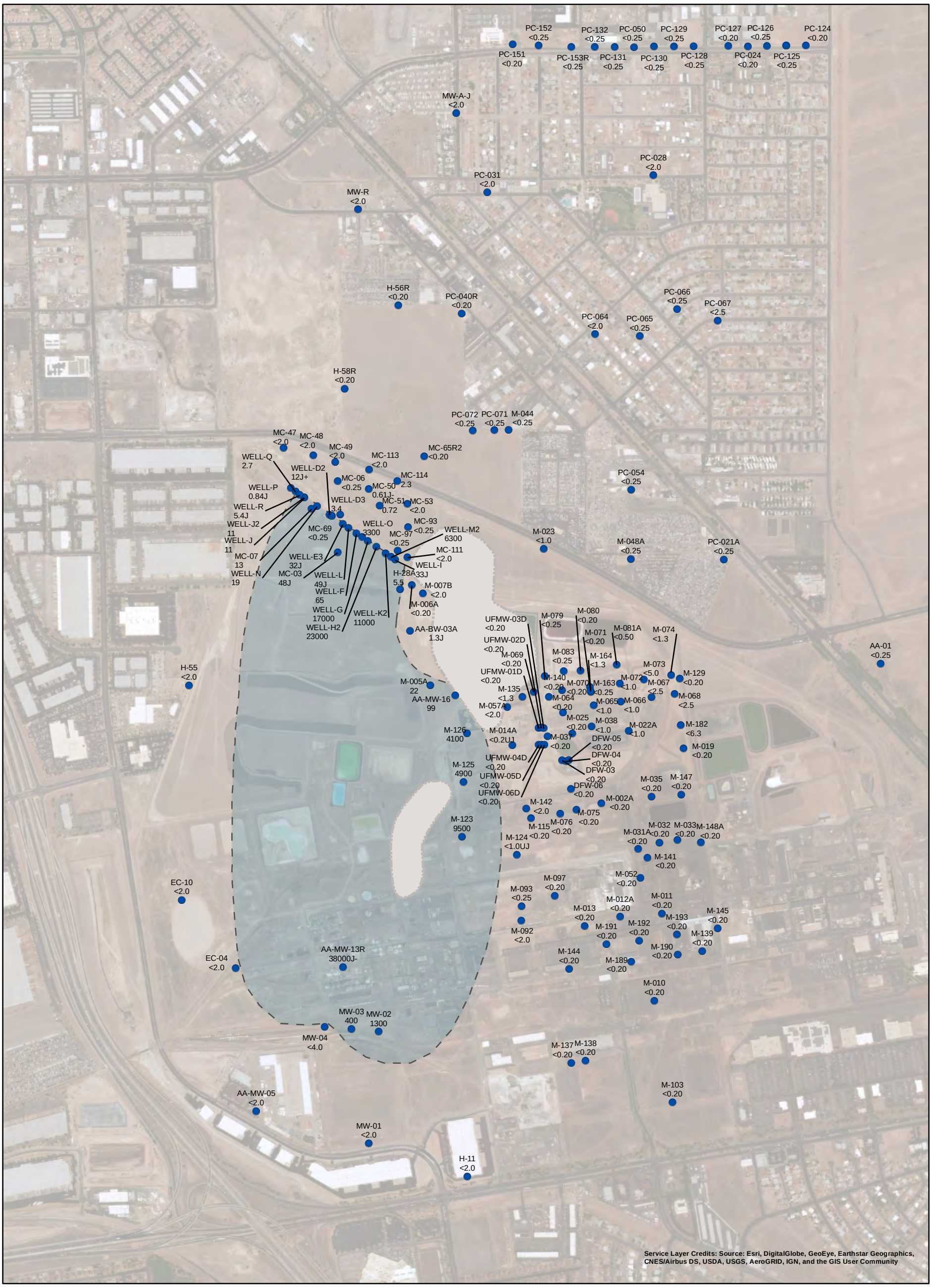
WELL SET LOCATIONS AND HEAD DIFFERENCES SECOND QUARTER 2019

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY · ENGINEERING

9/26/2019

FIGURE 5

PREP BY RGW REV BY BRW RPT NO 754.111



P:\H+A_GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\ Benzene-Shallow

EXPLANATION

BENZENE CONCENTRATION (ug/l)
EPA METHOD: 8260B

Approximate area where Benzene is present in Shallow Zone groundwater at concentrations greater than the MCL of 5 ug/l

Boundary of concentration zone is dashed where inferred.

MW-01 MONITOR WELL IDENTIFIER
<2.0 CONCENTRATION IN MICROGRAMS PER LITER SECOND QUARTER 2019

< LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

ug/l MICROGRAMS PER LITER

APPROXIMATE AREA WHERE SHALLOW ZONE IS NOT SATURATED

J THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY.

J+ THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY WITH A POSITIVE BIAS.

J- THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY WITH A NEGATIVE BIAS

UJ THE SAMPLE WAS ANALYZED FOR, BUT WAS NOT DETECTED. THE ASSOCIATED QUANTITATION OR DETECTION LIMIT IS AN ESTIMATE.

N

0 500 1,000
Feet

Note:
This map was prepared using current and previous data. The current data were collected by the Companies or NERT during the second quarter 2019. The current data are posted on this map. Previous data were used, in part, to outline areas of regulatory exceedances. The previous data are from monitor wells no longer sampled by the Companies.

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

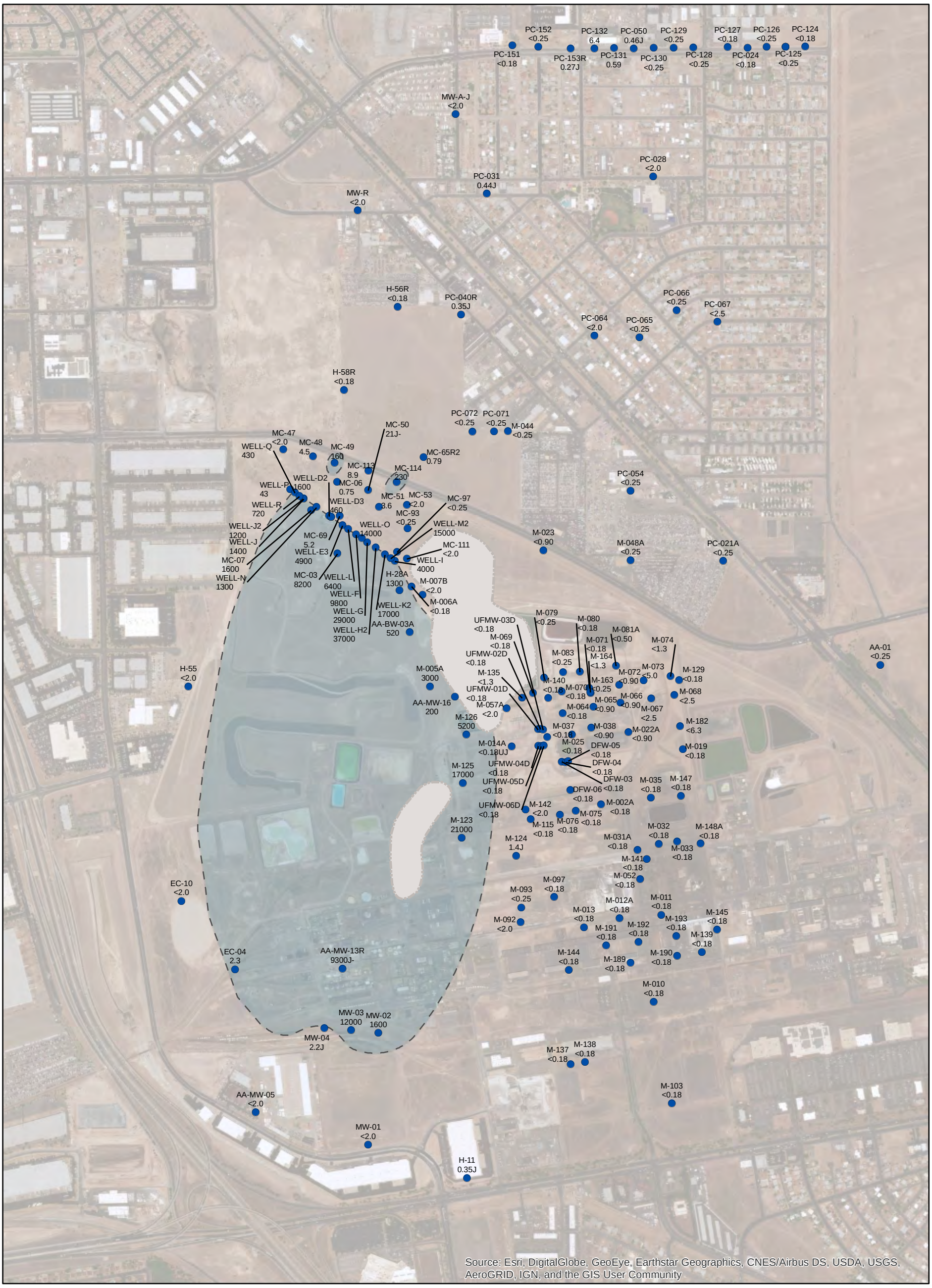
BENZENE
SHALLOW ZONE
SECOND QUARTER 2019

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY · ENGINEERING

11/4/2019

FIGURE 6

PREP BY RGW REV BY BRW RPT NO 754.111



P:\H+A_GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\ CBz-Shallow

EXPLANATION

CHLOROBENZENE CONCENTRATION (ug/l)
EPA METHOD: 8260B

Approximate area where Chlorobenzene is present in Shallow Zone groundwater at concentrations greater than the MCL of 100 ug/l

Boundary of concentration zone is dashed where inferred.

MW-01 MONITOR WELL IDENTIFIER
<2.0 CONCENTRATION IN MICROGRAMS PER LITER SECOND QUARTER 2019

< LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

ug/l MICROGRAMS PER LITER

APPROXIMATE AREA WHERE SHALLOW ZONE IS NOT SATURATED

J THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY.

J- THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY WITH A NEGATIVE BIAS

UJ THE SAMPLE WAS ANALYZED FOR, BUT WAS NOT DETECTED. THE ASSOCIATED QUANTITATION OR DETECTION LIMIT IS AN ESTIMATE.

Note:
This map was prepared using current and previous data. The current data were collected by the Companies or NERT during the second quarter 2019. The current data are posted on this map. Previous data were used, in part, to outline areas of regulatory exceedances. The previous data are from monitor wells no longer sampled by the Companies.

N

0 500 1,000
Feet

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

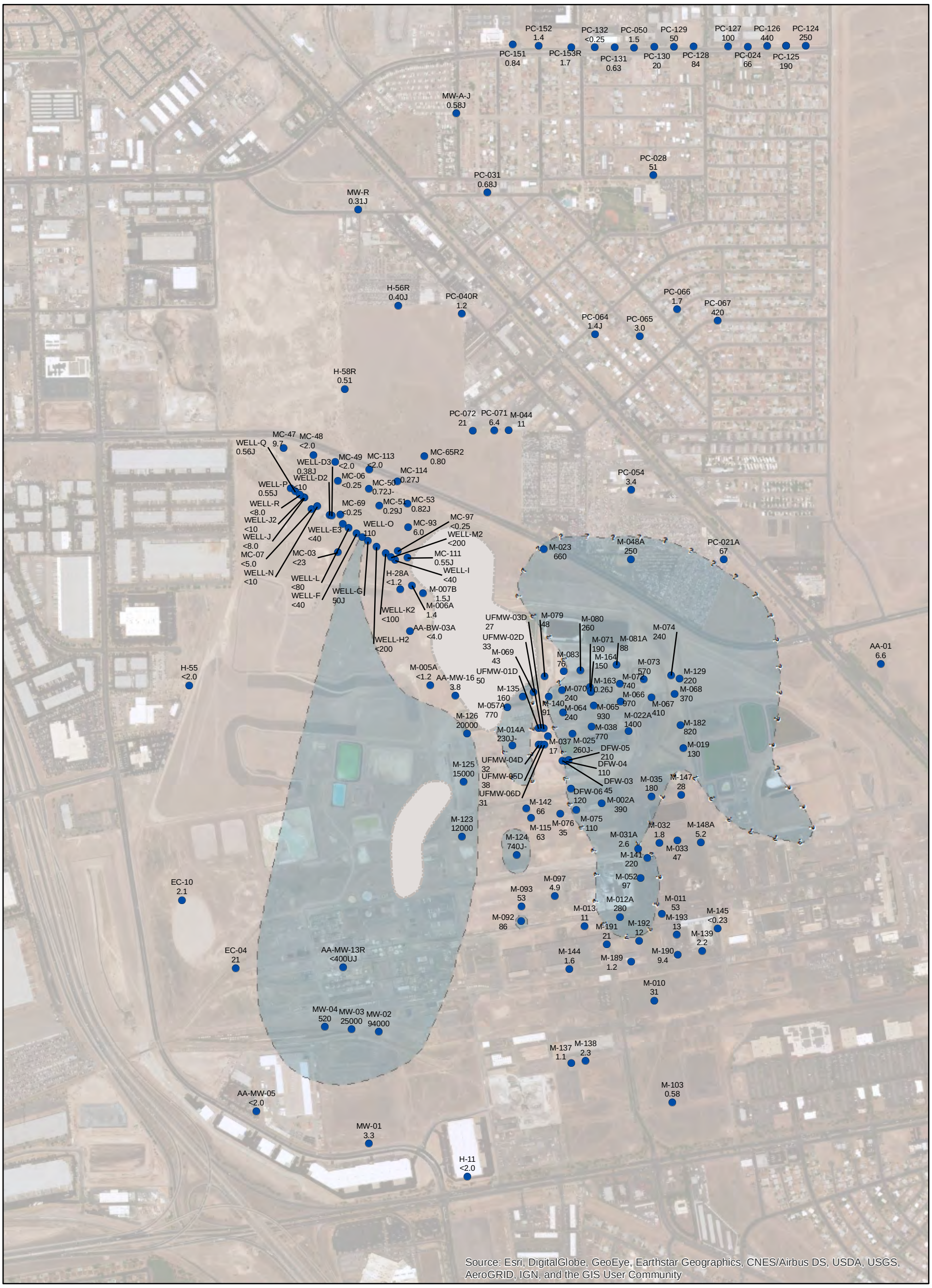
CHLOROBENZENE
SHALLOW ZONE
SECOND QUARTER 2019

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY · ENGINEERING

11/4/2019

FIGURE 7

PREP BY RGW REV BY BRW RPT NO 754.111



P:\H+A_GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\ Chloroform-Shallow

EXPLANATION

CHLOROFORM CONCENTRATION (ug/l)
EPA METHOD: 8260B

Approximate area where Chloroform is present in Shallow Zone groundwater at concentrations greater than the MCL of 80 ug/l for TTHM

Boundary of concentration zone is dashed where inferred, queried where uncertain.

MW-01 MONITOR WELL IDENTIFIER
3.3 CONCENTRATION IN MICROGRAMS PER LITER SECOND QUARTER 2019

BCL = 0.223 ug/l

Note:
This map was prepared using current and previous data. The current data were collected by the Companies or NERT during the second quarter 2019. The current data are posted on this map. Previous data were used, in part, to outline areas of regulatory exceedances. The previous data are from monitor wells no longer sampled by the Companies.

< LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

ug/l MICROGRAMS PER LITER

APPROXIMATE AREA WHERE SHALLOW ZONE IS NOT SATURATED

J THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY.

J+ THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY WITH A POSITIVE BIAS.

J- THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY WITH A NEGATIVE BIAS

UJ THE SAMPLE WAS ANALYZED FOR, BUT WAS NOT DETECTED. THE ASSOCIATED QUANTITATION OR DETECTION LIMIT IS AN ESTIMATE.

TTHM TOTAL TRIHALOMETHANES (BROMODICHLOROMETHANE + BROMOFORM + CHLOROFORM + DIBROMOCHLOROMETHANE)

N

0 500 1,000
Feet

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

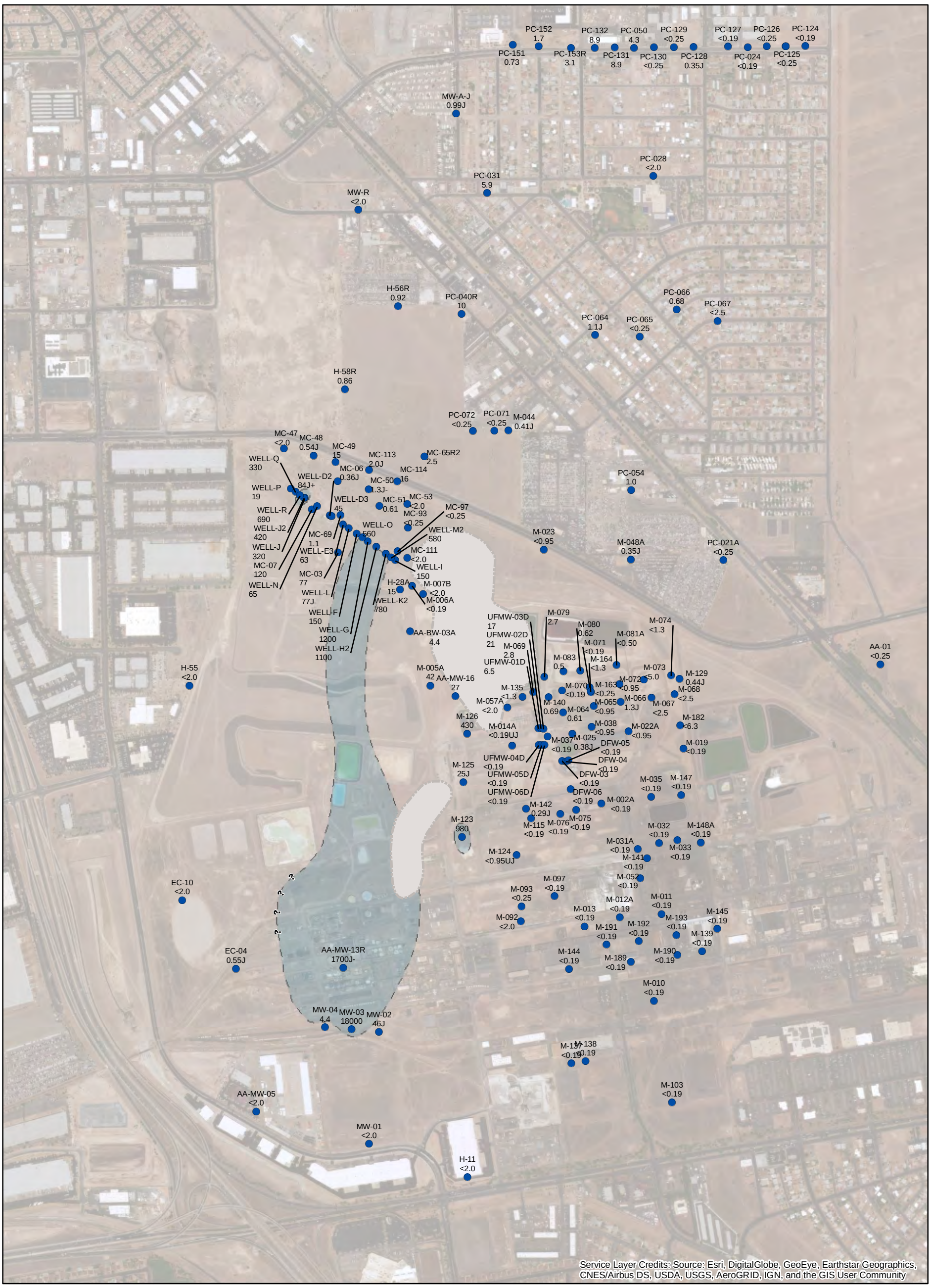
CHLOROFORM
SHALLOW ZONE
SECOND QUARTER 2019

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

11/4/2019

FIGURE 8

PREP BY RGW REV BY BRW RPT NO 754.111



P:\H+A_GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\12DCB-Shallow

EXPLANATION

1,2-DICHLOROBENZENE CONCENTRATION (ug/l)
EPA METHOD: 8260B

Approximate area where 1,2-Dichlorobenzene is present in Shallow Zone groundwater at concentrations greater than the MCL of 600 ug/l

Boundary of concentration zone is dashed where inferred, queried where uncertain

MW-01 ● **<2.0** MONITOR WELL IDENTIFIER CONCENTRATION IN MICROGRAMS PER LITER SECOND QUARTER 2019

< LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

ug/l MICROGRAMS PER LITER

APPROXIMATE AREA WHERE SHALLOW ZONE IS NOT SATURATED

J THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY.

J+ THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY WITH A POSITIVE BIAS.

J- THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY WITH A NEGATIVE BIAS

UJ THE SAMPLE WAS ANALYZED FOR, BUT WAS NOT DETECTED. THE ASSOCIATED QUANTITATION OR DETECTION LIMIT IS AN ESTIMATE.

N

0 500 1,000
Feet

Note:
This map was prepared using current and previous data. The current data were collected by the Companies or NERT during the second quarter 2019. The current data are posted on this map. Previous data were used, in part, to outline areas of regulatory exceedances. The previous data are from monitor wells no longer sampled by the Companies.

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

1,2-DICHLOROBENZENE
SHALLOW ZONE
SECOND QUARTER 2019

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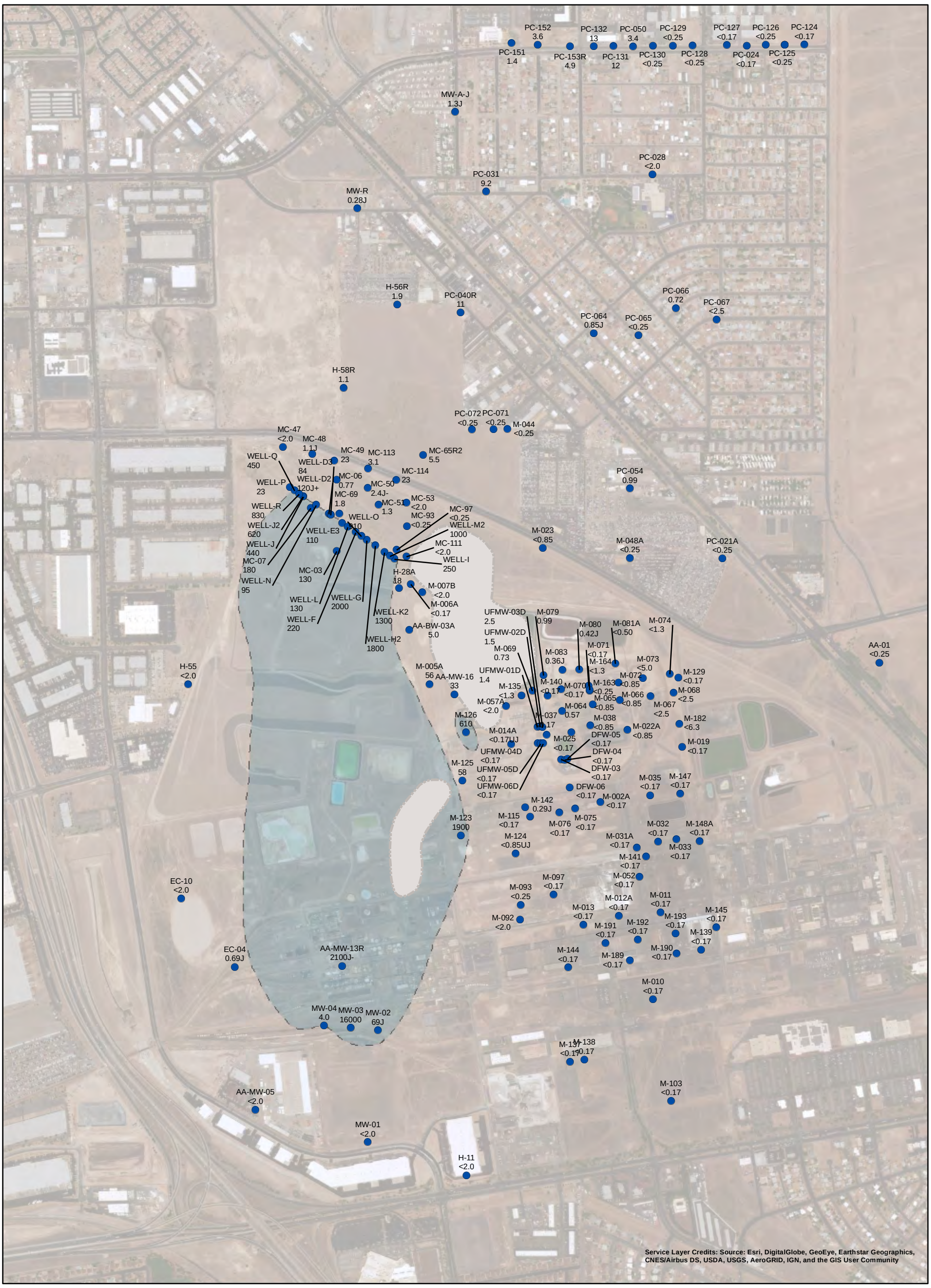
FIGURE 9

PREP BY RGW REV BY BRW RPT NO 754.111



P:\H+A_GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\ 14DCB-Shallow

EXPLANATION

1,4-DICHLOROBENZENE CONCENTRATION (ug/l)
EPA METHOD: 8260B

Approximate area where 1,4-Dichlorobenzene is present in Shallow Zone groundwater at concentrations greater than the MCL of 75 ug/l

Boundary of concentration zone is dashed where inferred.

MW-01 <2.0 MONITOR WELL IDENTIFIER CONCENTRATION IN MICROGRAMS PER LITER SECOND QUARTER 2019

< LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

ug/l MICROGRAMS PER LITER

APPROXIMATE AREA WHERE SHALLOW ZONE IS NOT SATURATED

J THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY.

J+ THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY WITH A POSITIVE BIAS.

J- THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY WITH A NEGATIVE BIAS

UJ THE SAMPLE WAS ANALYZED FOR, BUT WAS NOT DETECTED. THE ASSOCIATED QUANTITATION OR DETECTION LIMIT IS AN ESTIMATE.

Note:
This map was prepared using current and previous data. The current data were collected by the Companies or NERT during the second quarter 2019. The current data are posted on this map. Previous data were used, in part, to outline areas of regulatory exceedances. The previous data are from monitor wells no longer sampled by the Companies.

N

0 500 1,000
Feet

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

1,4-DICHLOROBENZENE
SHALLOW ZONE
SECOND QUARTER 2019

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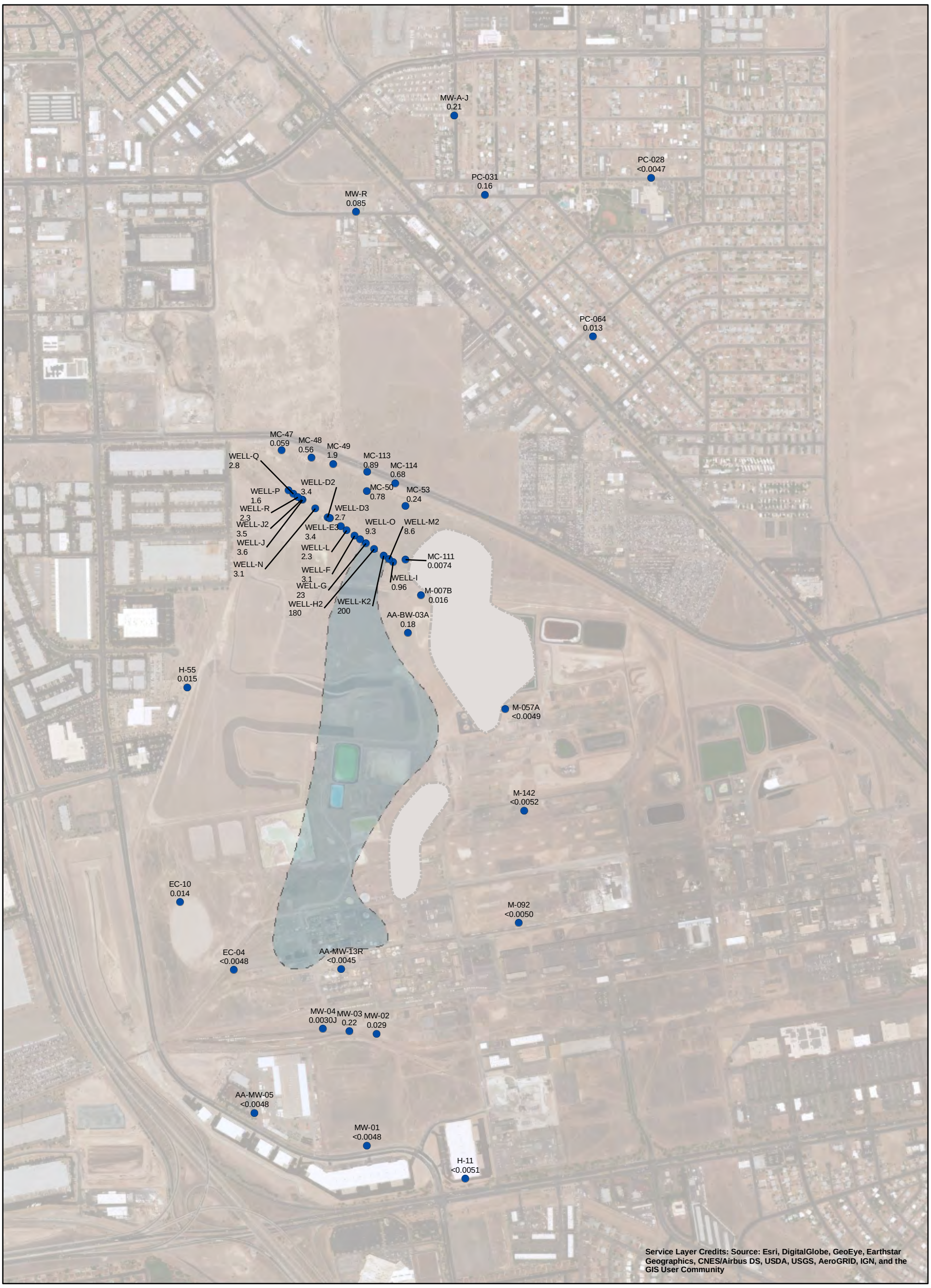
FIGURE 10

PREP BY RGW REV BY BRW RPT NO 754.111



P:\H+A_GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\ ABHC-Shallow

EXPLANATION

ALPHA-BHC CONCENTRATION (ug/l)
EPA METHOD: 8081A

Approximate area where Alpha-BHC is present in Shallow Zone groundwater at concentrations greater than the BCL of 10 ug/l

Boundary of concentration zone is dashed where inferred.

MW-01 <0.0048 MONITOR WELL IDENTIFIER CONCENTRATION IN MICROGRAMS PER LITER SECOND QUARTER 2019

There is no EPA guidance level defined for alpha BHC.

< LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

ug/l MICROGRAMS PER LITER

APPROXIMATE AREA WHERE SHALLOW ZONE IS NOT SATURATED

J THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY

N

0 500 1,000
Feet

Note:
This map was prepared using current and previous data. The current data were collected by the Companies during the second quarter 2019. The current data are posted on this map. Previous data were used, in part, to outline areas of regulatory exceedances. The previous data are from monitor wells no longer sampled by the Companies.

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

ALPHA-BHC
SHALLOW ZONE
SECOND QUARTER 2019

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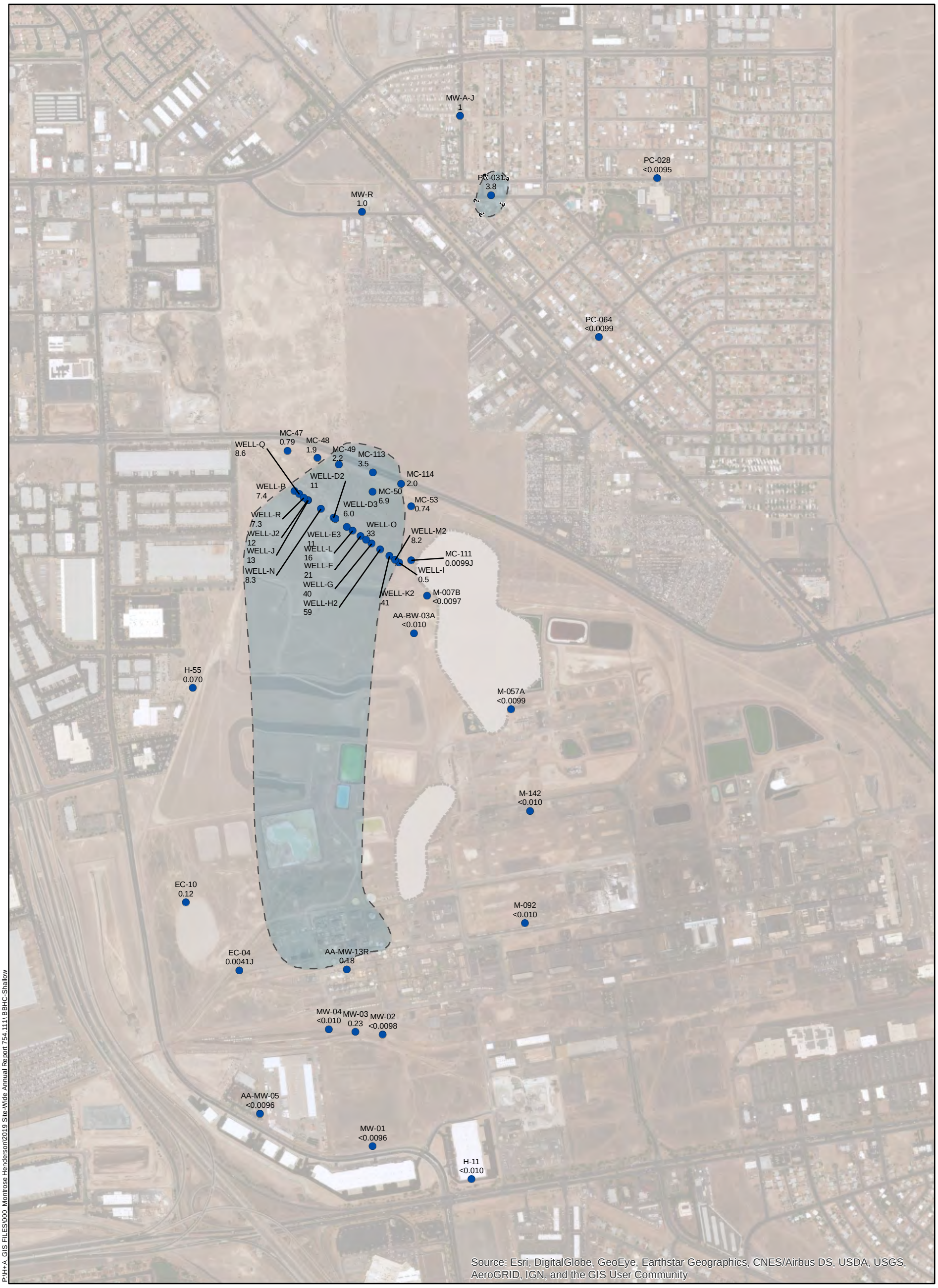
FIGURE 11

PREP BY RGW REV BY BRW RPT NO 754.111



P:\H+A GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\BBHC-Shallow

EXPLANATION

BETA-BHC CONCENTRATION (ug/l)
EPA METHOD: 8081A

Approximate area where Beta-BHC is present in Shallow Zone groundwater at concentrations greater than the BCL of 2 ug/l

Boundary of concentration zone is dashed where inferred, queried where uncertain.

There is no EPA guidance level defined for beta BHC.

MW-01 MONITOR WELL IDENTIFIER
<0.0096 CONCENTRATION IN MICROGRAMS PER LITER SECOND QUARTER 2019
ug/l MICROGRAMS PER LITER
APPROXIMATE AREA WHERE SHALLOW ZONE IS NOT SATURATED
J THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED QUANTITY

N

0 500 1,000
Feet

Note:
This map was prepared using current and previous data. The current data were collected by the Companies during the second quarter 2019. The current data are posted on this map. Previous data were used, in part, to outline areas of regulatory exceedances. The previous data are from monitor wells no longer sampled by the Companies.

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

BETA-BHC
SHALLOW ZONE
SECOND QUARTER 2019

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FIGURE 12

PREP BY RGW REV BY BRW RPT NO 754.111

P:\H+A_GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\ GBHC-Shallow

EXPLANATION

GAMMA-BHC CONCENTRATION (ug/l)
EPA METHOD: 8081A

Approximate area where Gamma-BHC is present in Shallow Zone groundwater at concentrations greater than the BCL of 0.2 ug/l

Boundary of concentration zone is dashed where inferred, queried where uncertain

MW-01 MONITOR WELL IDENTIFIER
<0.096 CONCENTRATION IN MICROGRAMS PER LITER SECOND QUARTER 2019

< LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

ug/l MICROGRAMS PER LITER

APPROXIMATE AREA WHERE SHALLOW ZONE IS NOT SATURATED

J THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY.

N

0 500 1,000
Feet

Note:
This map was prepared using current and previous data. The current data were collected by the Companies during the second quarter 2019. The current data are posted on this map. Previous data were used, in part, to outline areas of regulatory exceedances. The previous data are from monitor wells no longer sampled by the Companies.

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

GAMMA-BHC
SHALLOW ZONE
SECOND QUARTER 2019

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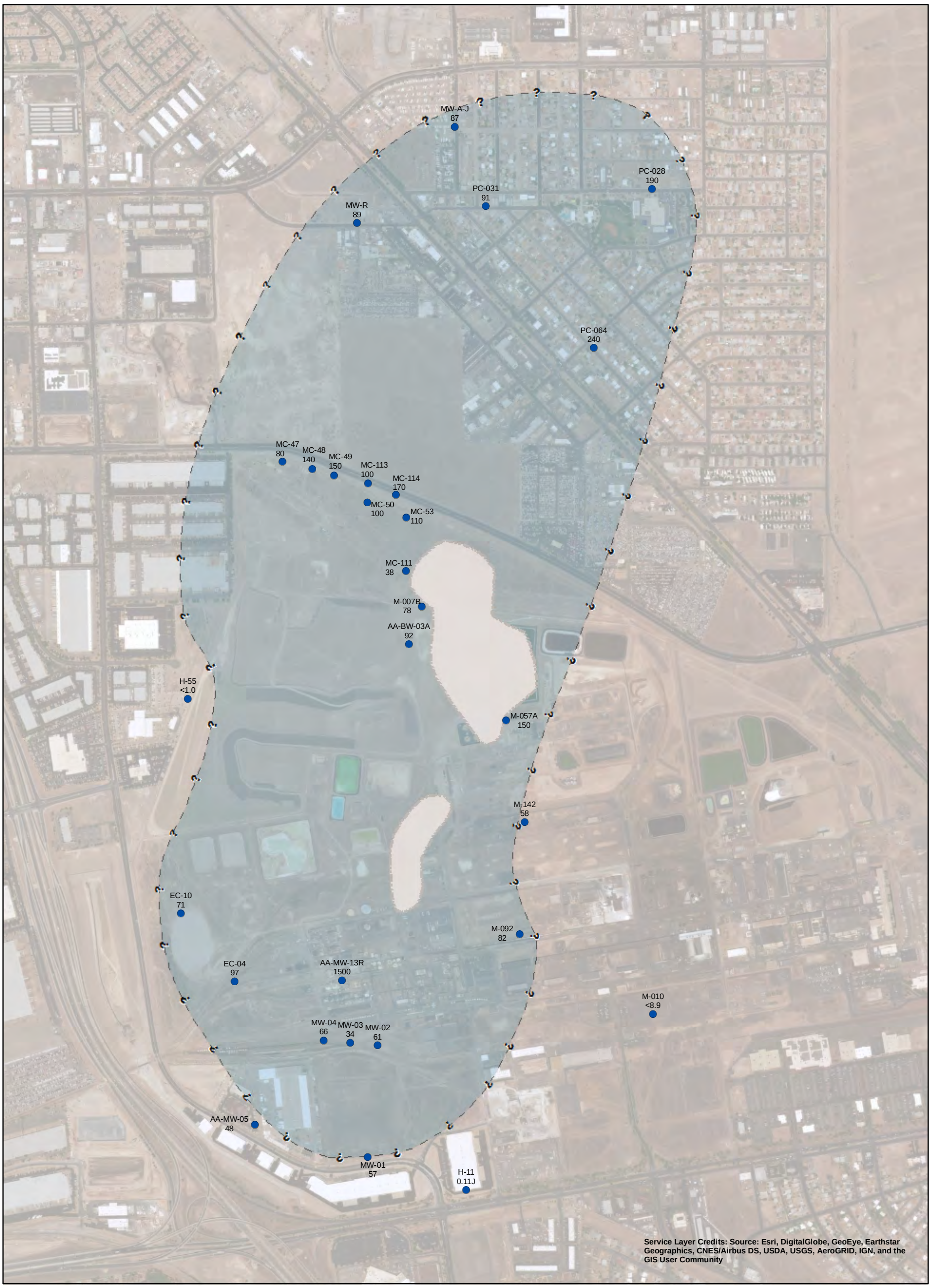
FIGURE 13

PREP BY RGW REV BY BRW RPT NO 754.111



P:\H+A_GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\ AS-Shallow

EXPLANATION

ARSENIC CONCENTRATION (ug/l)
EPA METHOD: 6020

Approximate area where Arsenic is present in Shallow Zone groundwater at concentrations greater than the background concentration of 59 ug/L as noted in NDEP comments to the Draft Site Groundwater Remedial Alternatives Study

Boundary of concentration zone is dashed where inferred, queried where uncertain

MW-01 MONITOR WELL IDENTIFIER
57 CONCENTRATION IN MICROGRAMS PER LITER SECOND QUARTER 2019

< LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

ug/l MICROGRAMS PER LITER

APPROXIMATE AREA WHERE SHALLOW ZONE IS NOT SATURATED

J THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED QUANTITY

N

0 500 1,000
Feet

Note:
This map was prepared using current and previous data. The current data were collected by the Companies or NERT during the second quarter 2019. The current data are posted on this map. Previous data were used, in part, to outline areas of regulatory exceedances. The previous data are from monitor wells no longer sampled by the Companies.

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

ARSENIC
SHALLOW ZONE
SECOND QUARTER 2019

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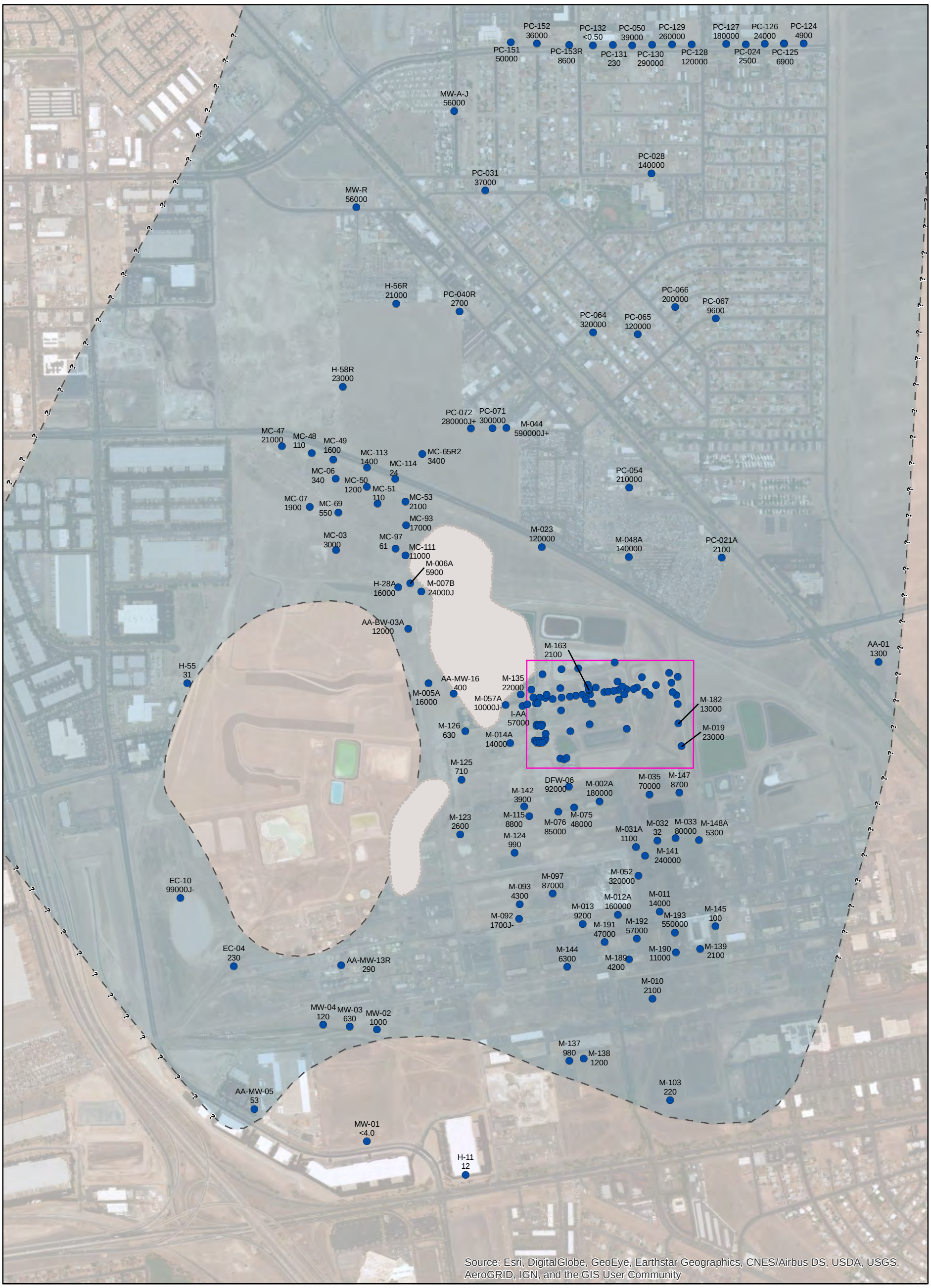
FIGURE 14

PREP BY RGW REV BY BRW RPT NO 754.111



P:\H+A_GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\ Perc-Shallow

EXPLANATION

PERCHLORATE CONCENTRATION (ug/l)
EPA METHOD: 6850

Approximate area where Perchlorate is present in Shallow Zone groundwater at concentrations greater than the BCL of 18 ug/l

Boundary of concentration zone is dashed where inferred, queried where uncertain.

MW-01 MONITOR WELL IDENTIFIER
<4.0 CONCENTRATION IN MICROGRAMS PER LITER SECOND QUARTER 2019

AREA OF DENSE WELLS; ONLY CONCENTRATIONS LESS THAN 100,000 MICROGRAMS PER LITER ARE LABELLED IN THIS AREA

<	LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT
ug/l	MICROGRAMS PER LITER
	APPROXIMATE AREA WHERE SHALLOW ZONE IS NOT SATURATED
J	THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY
J+	THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY WITH A POSITIVE BIAS
J-	THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY WITH A NEGATIVE BIAS

Note:
This map was prepared using current and previous data. The current data were collected by the Companies or NERT during the second quarter 2019. The current data are posted on this map. Previous data were used, in part, to outline areas of regulatory exceedances. The previous data are from monitor wells no longer sampled by the Companies.

N

0 500 1,000
Feet

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES

HENDERSON, NEVADA

PERCHLORATE
SHALLOW ZONE
SECOND QUARTER 2019

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FIGURE 15

PREP BY RGW REV BY BRW RPT NO 754.111

P:\H+A_GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\ Benzene-Middle

EXPLANATION

BENZENE CONCENTRATION (ug/l)
EPA METHOD: 8260B

● **EC-14** **<2.0**	MONITOR WELL CONCENTRATION IN MICROGRAMS PER LITER SECOND QUARTER 2019
<	LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT
ug/l	MICROGRAMS PER LITER
MCL	= 5 ug/l
BCL	= 5 ug/l
J	THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY.

Note:
This map was prepared based on data obtained by the Companies and NERT during the second quarter 2019.

N

0 400 800
Feet

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

BENZENE
MIDDLE ZONE
SECOND QUARTER 2019

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FIGURE 16

PREP BY RGW REV BY BRW RPT NO 754.111

P:\H+A_GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\ CBz-Middle

EXPLANATION

CHLOROBENZENE CONCENTRATION (ug/l)
EPA METHOD: 8260B

● **EC-14** / **1.3J**	MONITOR WELL IDENTIFIER CONCENTRATION IN MICROGRAMS PER LITER SECOND QUARTER 2019
<	LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT
ug/l	MICROGRAMS PER LITER
MCL	= 100 ug/l
BCL	= 100 ug/l
J	THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY.

Note:
This map was prepared based on data obtained by the Companies and NERT during the second quarter 2019.

N

0 400 800
Feet

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

CHLOROBENZENE
MIDDLE ZONE
SECOND QUARTER 2019

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FIGURE 17

PREP BY RGW REV BY BRW RPT NO 754.111

P:\H+A_GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\ Chloroform-Middle

EXPLANATION

CHLOROFORM CONCENTRATION (ug/l)
EPA METHOD: 8260B

● **EC-14**	MONITOR WELL IDENTIFIER
<2.0	CONCENTRATION IN MICROGRAMS PER LITER SECOND QUARTER 2019
<	LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT
ug/l	MICROGRAMS PER LITER
MCL	= 80 TTHM ug/l
BCL	= 0.223 ug/l
TTHM	TOTAL TRIHALOMETHANES (BROMODICHLOROMETHANE + BROMOFORM + CHLOROFORM + DIBROMOCHLOROMETHANE)
J	THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY.

Note:
This map was prepared based on data obtained by the Companies and NERT during the second quarter 2019.

N

0 400 800
Feet

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

CHLOROFORM
MIDDLE ZONE
SECOND QUARTER 2019

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FIGURE 18

PREP BY RGW REV BY BRW RPT NO 754.111

P:\H+A_GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\ 12DCB-Middle

EXPLANATION

1,2-DICHLOROBENZENE CONCENTRATION (ug/l)
EPA METHOD: 8260B

● **EC-14**	MONITOR WELL IDENTIFIER
<2.0	CONCENTRATION IN MICROGRAMS PER LITER SECOND QUARTER 2019
<	LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT
ug/l	MICROGRAMS PER LITER
MCL	= 600 ug/l
BCL	= 600 ug/l

Note:
This map was prepared based on data obtained by the Companies and NERT during the second quarter 2019.

N

0 400 800
Feet

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

1,2-DICHLOROBENZENE
MIDDLE ZONE
SECOND QUARTER 2019

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FIGURE 19

PREP BY RGW REV BY BRW RPT NO 754.111

P:\H+A_GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\ 14DCB-Middle

EXPLANATION

1,4-DICHLOROBENZENE CONCENTRATION (ug/l)
EPA METHOD: 8260B

● EC-14 <2.0	MONITOR WELL IDENTIFIER CONCENTRATION IN MICROGRAMS PER LITER SECOND QUARTER 2019
ug/l	MICROGRAMS PER LITER
<	LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT
MCL	= 75 ug/l
BCL	= 75 ug/l

Note:
This map was prepared based on data obtained by the Companies and NERT during the second quarter 2019.

N

0 400 800
Feet

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

1,4-DICHLOROBENZENE
MIDDLE ZONE
SECOND QUARTER 2019

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FIGURE 20

PREP BY RGW REV BY BRW RPT NO 754.111

P:\H+A_GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\ABHC-Middle

EXPLANATION

ALPHA-BHC CONCENTRATION (ug/l)
EPA METHOD: 8081A

● EC-14 <0.0049	MONITOR WELL IDENTIFIER CONCENTRATION IN MICROGRAMS PER LITER SECOND QUARTER 2019
ug/l	MICROGRAMS PER LITER
<	LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT
MCL	= None established
BCL	= 10 ug/l
J	THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY WITH A POSITIVE BIAS.

N

0 400 800
Feet

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

ALPHA-BHC
MIDDLE ZONE
SECOND QUARTER 2019

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FIGURE 21

PREP BY RGW REV BY BRW RPT NO 754.111

P:\H+A_GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\ BBHC-Middle

EXPLANATION

BETA-BHC CONCENTRATION (ug/l)
EPA METHOD: 8081A

● **EC-14** **0.011**	MONITOR WELL IDENTIFIER CONCENTRATION IN MICROGRAMS PER LITER SECOND QUARTER 2019
<	LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT
ug/l	MICROGRAMS PER LITER
MCL	= None established
BCL	= 2 ug/l
J+	THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED QUANTITY WITH A POSITIVE BIAS.

N

0 400 800
Feet

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

BETA-BHC
MIDDLE ZONE
SECOND QUARTER 2019

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FIGURE 22

PREP BY RGW REV BY BRW RPT NO 754.111

P:\H+A_GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\ GBHC-Middle

EXPLANATION

GAMMA-BHC CONCENTRATION (ug/l)
EPA METHOD: 8081A

● **EC-14**	MONITOR WELL IDENTIFIER
<0.0049	CONCENTRATION IN MICROGRAMS PER LITER SECOND QUARTER 2019
<	LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT
ug/l	MICROGRAMS PER LITER
MCL	= 0.2 ug/l
BCL	= 0.2 ug/l
J+	THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY WITH A POSITIVE BIAS.

N

0 400 800
Feet

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

GAMMA-BHC
MIDDLE ZONE
SECOND QUARTER 2019

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FIGURE 23

PREP BY RGW REV BY BRW RPT NO 754.111

P:\H+A_GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\ AS-Middle

EXPLANATION

ARSENIC CONCENTRATION (ug/l)
EPA METHOD: 6020

EC-14 28	MONITOR WELL IDENTIFIER CONCENTRATION IN MILLIGRAMS PER LITER SECOND QUARTER 2019
<	LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT
ug/l	MICROGRAMS PER LITER

ARSENIC BACKGROUND CONCENTRATION IS 59 UG/L
AS NOTED IN NDEP COMMENTS TO THE
DRAFT SITE GROUNDWATER REMEDIAL
ALTERNATIVES STUDY

N

0 400 800
Feet

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

ARSENIC
MIDDLE ZONE
SECOND QUARTER 2019

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FIGURE 24

PREP BY RGW REV BY BRW RPT NO 754.111

P:\H+A_GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\ Perc-Middle

EXPLANATION

PERCHLORATE CONCENTRATION (ug/l)
EPA METHOD: 6850

● **EC-14** **1.8J**	MONITOR WELL IDENTIFIER CONCENTRATION IN MICROGRAMS PER LITER SECOND QUARTER 2019
<	LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT
ug/l	MICROGRAMS PER LITER
MCL	NOT ESTABLISHED
BCL	= 18 ug/l
J	THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY.
J+	THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY WITH A POSITIVE BIAS.
J-	THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY WITH A NEGATIVE BIAS.

Note:
This map was prepared based on data obtained by the Companies and NERT during the second quarter 2019.

N

0 400 800
Feet

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES

HENDERSON, NEVADA

PERCHLORATE
MIDDLE ZONE
SECOND QUARTER 2019

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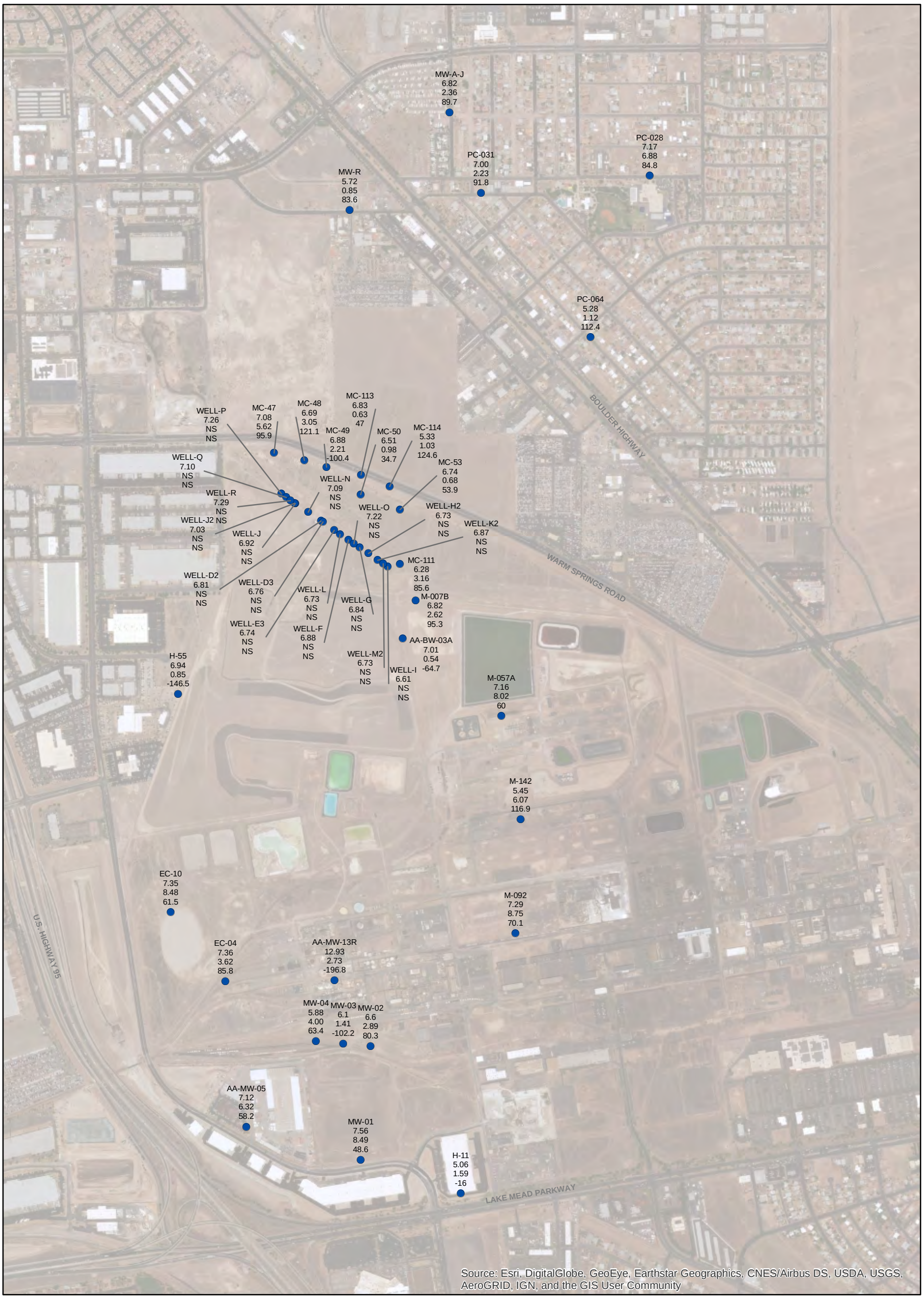
FIGURE 25

PREP BY RGW REV BY BRW RPT NO 754.111



P:\H+A_GIS FILES\000_Montrose Henderson\2019 Site-Wide Annual Report 754.111\ SZ Field Param

EXPLANATION

AA-MW-05 Shallow Zone Location
6.30 pH
3.83 D.O. (mg/l)
392 ORP (mV)

N

0 500 1,000 Feet

NOTE:
NS = Not sampled
D.O. = Dissolved Oxygen in milligrams per liter (mg/l)
ORP = Oxidation-reduction potential in millivolts (mV)

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

SHALLOW ZONE FIELD PARAMETERS
SECOND QUARTER 2019

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FIGURE 26

PREP BY RGW REV BY BRW RPT NO 754.111

Montrose Henderson GIS\Maps\754.111 2018 Site-Wide Annual Report\ MZ Field Param

EXPLANATION

EC-14	Middle Zone Location
5.04	pH
3.21	D.O. (mg/l)
449	ORP (mV)

NOTE:
D.O. = Dissolved Oxygen in milligrams per liter (mg/l)
ORP = Oxidation-reduction potential in millivolts (mV)

N

0 400 800 Feet

2019 COMPREHENSIVE DATA EVALUATION
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

MIDDLE ZONE FIELD PARAMETERS
SECOND QUARTER 2019

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FIGURE 27

PREP BY RGW REV BY BRW RPT NO 754.111

APPENDIX A

ANALYTICAL LABORATORY REPORTS

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

Laboratory Job ID: 440-238127-1
Laboratory Sample Delivery Group: Henderson, NV
Client Project/Site: 3200D Henderson Extracton Wells

For:
de maximis, inc.
1322 Scott Street, Suite 104
San Diego, California 92106

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Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 6
Client Sample Results 14
Surrogate Summary 63
Method Summary 66
Lab Chronicle 67
QC Sample Results 73
QC Association Summary 108
Definitions/Glossary 113
Certification Summary 114
Chain of Custody 115
Receipt Checklists 117

Sample Summary

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-238127-1	TB-20190405	Water	04/05/19 07:00	04/06/19 09:45
440-238127-2	PL-500-20190405	Water	04/05/19 08:45	04/06/19 09:45
440-238127-3	PL-501-20190405	Water	04/05/19 10:00	04/06/19 09:45
440-238127-4	WELL-E3-20190405	Water	04/05/19 10:10	04/06/19 09:45
440-238127-5	WELL-F-20190405	Water	04/05/19 10:45	04/06/19 09:45
440-238127-6	WELL-G-20190405	Water	04/05/19 11:15	04/06/19 09:45
440-238127-7	WELL-D2-20190405	Water	04/05/19 09:45	04/06/19 09:45
440-238127-8	WELL-H2-20190405	Water	04/05/19 12:25	04/06/19 09:45
440-238127-9	WELL-I-20190405	Water	04/05/19 12:50	04/06/19 09:45
440-238127-10	WELL-J-20190405	Water	04/05/19 09:05	04/06/19 09:45
440-238127-11	WELL-K2-20190405	Water	04/05/19 12:35	04/06/19 09:45
440-238127-12	WELL-L-20190405	Water	04/05/19 10:35	04/06/19 09:45
440-238127-13	WELL-N-20190405	Water	04/05/19 09:30	04/06/19 09:45
440-238127-14	WELL-P-20190405	Water	04/05/19 08:22	04/06/19 09:45
440-238127-15	WELL-O-20190405	Water	04/05/19 10:55	04/06/19 09:45
440-238127-16	WELL-Q-20190405	Water	04/05/19 08:35	04/06/19 09:45
440-238127-17	WELL-J2-20190405	Water	04/05/19 09:15	04/06/19 09:45
440-238127-18	WELL-R-20190405	Water	04/05/19 08:55	04/06/19 09:45
440-238127-19	WELL-D3-20190405	Water	04/05/19 09:55	04/06/19 09:45
440-238127-20	WELL-M2-20190405	Water	04/05/19 12:45	04/06/19 09:45
440-238127-21	WELL-Q-20190405 DUP	Water	04/05/19 08:35	04/06/19 09:45

Job ID: 440-238127-1

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative
440-238127-1

Comments
No additional comments.

Receipt
The samples were received on 4/6/2019 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 7 coolers at receipt time were 1.5º C, 2.6º C, 2.8º C, 3.0º C, 3.5º C, 4.3º C and 4.7º C.

GC/MS VOA
Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-541078 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 440-541083 recovered above the upper control limit for Carbon tetrachloride, Dichlorodifluoromethane, 1,1,1-Trichloroethane, 2,2-Dichloropropane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: PL-501-20190405 (440-238127-3), WELL-E3-20190405 (440-238127-4), WELL-F-20190405 (440-238127-5), WELL-G-20190405 (440-238127-6), WELL-H2-20190405 (440-238127-8), WELL-I-20190405 (440-238127-9), WELL-J-20190405 (440-238127-10), WELL-K2-20190405 (440-238127-11) and (CCVIS 440-541083/5).

Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 440-541083 recovered outside control limits for the following analyte: 1,1,1-Trichloroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: Surrogate recovery for the following sample was outside control limits: WELL-D2-20190405 (440-238127-7). Re-analysis was performed with concurring results. Original set of data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8081A: Internal standard (ISTD) response for the following samples exceeded the control limit on confirmation column RTX-CLP I Long: WELL-D3-20190405 (440-238127-19). As such, the sample results associated with this ISTD were reported from the other column, which met ISTD acceptance criteria.

Method(s) 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-539101 and analytical batch 440-539138 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8081A: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 440-539101 and analytical batch 440-539138 was outside control limits for 2,4-DDD. Sample matrix interference is suspected.

Method(s) 8081A: The following samples in preparation batch 440-539097 required a copper clean-up to reduce matrix interferences caused by sulfur. The associated batch QC were also processed with the copper cleanup procedure. WELL-N-20190405 (440-238127-13), WELL-N-20190405 (440-238127-13[MS]) and WELL-N-20190405 (440-238127-13[MSD]).

Method(s) 8081A: The following sample required a dilution due to high target analytes: WELL-J2-20190405 (440-238127-17). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8081A: The following samples required a dilution due to high target analytes: WELL-E3-20190405 (440-238127-4), WELL-F-20190405 (440-238127-5), WELL-G-20190405 (440-238127-6), WELL-H2-20190405 (440-238127-8), WELL-J-20190405 (440-238127-10), WELL-K2-20190405 (440-238127-11), WELL-L-20190405 (440-238127-12) and WELL-O-20190405 (440-238127-15). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not

Job ID: 440-238127-1 (Continued)

Laboratory: Eurofins TestAmerica, Irvine (Continued)

provide useful information.

Method(s) 8081A: The method blank for preparation batch 440-539097 and analytical batch 440-539790 contained 4,4-DDE and 4,4-DDT above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and re-analysis of samples was not performed. All samples associated with this batch are non-detect (ND) for these analytes, except sample 440-238127-5, with results greater than 10X the value found in the method blank.

Method(s) 8081A: The following samples in preparation batch 440-539097 required a copper clean-up to reduce matrix interferences caused by sulfur. The associated batch QC were also processed with the copper cleanup procedure. PL-501-20190405 (440-238127-3), WELL-E3-20190405 (440-238127-4), WELL-F-20190405 (440-238127-5), WELL-G-20190405 (440-238127-6), WELL-D2-20190405 (440-238127-7), WELL-H2-20190405 (440-238127-8), WELL-I-20190405 (440-238127-9), WELL-J-20190405 (440-238127-10), WELL-K2-20190405 (440-238127-11), WELL-L-20190405 (440-238127-12), WELL-P-20190405 (440-238127-14), WELL-O-20190405 (440-238127-15), WELL-Q-20190405 (440-238127-16) and WELL-J2-20190405 (440-238127-17).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 440-238127-2

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative
440-238127-2

Comments
No additional comments.

Receipt
The samples were received on 4/6/2019 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 7 coolers at receipt time were 1.5º C, 2.6º C, 2.8º C, 3.0º C, 3.5º C, 4.3º C and 4.7º C.

GC/MS VOA
Method(s) 8260B: The following sample was added in after the holding time had expired: WELL-Q-20190405 DUP (440-238127-21).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: TB-20190405 — Lab Sample ID: 440-238127-1

No Detections.

Client Sample ID: PL-500-20190405 — Lab Sample ID: 440-238127-2

No Detections.

Client Sample ID: PL-501-20190405 — Lab Sample ID: 440-238127-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	4.5		2.0	0.25	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.47	J	5.0	0.25	ug/L	1		8260B	Total/NA
1,2,3-Trichlorobenzene	10		5.0	0.40	ug/L	1		8260B	Total/NA
1,2,4-Trichlorobenzene	36	F1	5.0	0.40	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	45		2.0	0.25	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	2.8		2.0	0.25	ug/L	1		8260B	Total/NA
1,2-Dichloropropane	2.4		2.0	0.25	ug/L	1		8260B	Total/NA
1,3-Dichlorobenzene	3.6		2.0	0.25	ug/L	1		8260B	Total/NA
Benzene	3.4		2.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	0.38	J	2.0	0.25	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.41	J	2.0	0.25	ug/L	1		8260B	Total/NA
tert-Butylbenzene	0.31	J	5.0	0.25	ug/L	1		8260B	Total/NA
Toluene	0.30	J	2.0	0.25	ug/L	1		8260B	Total/NA
Trichloroethene	11		2.0	0.25	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene - DL	84		20	2.5	ug/L	10		8260B	Total/NA
Chlorobenzene - DL	450		20	2.5	ug/L	10		8260B	Total/NA
2,4'-DDE	0.025	J p	0.10	0.020	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.013	J p	0.10	0.0030	ug/L	1		8081A	Total/NA
alpha-BHC - DL	2.7		0.025	0.013	ug/L	5		8081A	Total/NA
delta-BHC - DL	1.3		1.0	0.018	ug/L	5		8081A	Total/NA
beta-BHC - DL2	6.0		0.20	0.080	ug/L	20		8081A	Total/NA

Client Sample ID: WELL-E3-20190405 — Lab Sample ID: 440-238127-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	73	J	100	8.0	ug/L	20		8260B	Total/NA
1,2-Dichlorobenzene	63		40	5.0	ug/L	20		8260B	Total/NA
1,2-Dichloroethane	7.2	J	40	5.0	ug/L	20		8260B	Total/NA
1,3-Dichlorobenzene	8.1	J	40	5.0	ug/L	20		8260B	Total/NA
1,4-Dichlorobenzene	110		40	5.0	ug/L	20		8260B	Total/NA
Benzene	32	J	40	5.0	ug/L	20		8260B	Total/NA
Trichloroethene	17	J	40	5.0	ug/L	20		8260B	Total/NA
Chlorobenzene - DL	4900		200	25	ug/L	100		8260B	Total/NA
gamma-BHC (Lindane)	0.044	J p	0.099	0.0030	ug/L	1		8081A	Total/NA
delta-BHC - DL	1.5		0.99	0.017	ug/L	5		8081A	Total/NA
alpha-BHC - DL2	3.4		0.049	0.025	ug/L	10		8081A	Total/NA
beta-BHC - DL3	11		0.49	0.20	ug/L	50		8081A	Total/NA

Client Sample ID: WELL-F-20190405 — Lab Sample ID: 440-238127-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	9.4	J	40	5.0	ug/L	20		8260B	Total/NA
1,2,4-Trichlorobenzene	120		100	8.0	ug/L	20		8260B	Total/NA
1,2-Dichlorobenzene	150		40	5.0	ug/L	20		8260B	Total/NA
1,2-Dichloroethane	17	J	40	5.0	ug/L	20		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Irvine

Detection Summary

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-F-20190405 (Continued) — Lab Sample ID: 440-238127-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3-Dichlorobenzene	25	J	40	5.0	ug/L	20		8260B	Total/NA
1,4-Dichlorobenzene	220		40	5.0	ug/L	20		8260B	Total/NA
Benzene	65		40	5.0	ug/L	20		8260B	Total/NA
Trichloroethene	13	J	40	5.0	ug/L	20		8260B	Total/NA
Chlorobenzene - DL	9800		400	50	ug/L	200		8260B	Total/NA
2,4'-DDT	0.13		0.097	0.019	ug/L	1		8081A	Total/NA
4,4'-DDD	0.017	J	0.097	0.0039	ug/L	1		8081A	Total/NA
4,4'-DDE	0.24	B	0.097	0.0029	ug/L	1		8081A	Total/NA
4,4'-DDT	0.074	J B	0.097	0.0039	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.036	J p	0.097	0.0029	ug/L	1		8081A	Total/NA
Methoxychlor	0.0091	J	0.097	0.0034	ug/L	1		8081A	Total/NA
delta-BHC - DL	0.99		0.97	0.017	ug/L	5		8081A	Total/NA
alpha-BHC - DL2	3.1		0.048	0.024	ug/L	10		8081A	Total/NA
beta-BHC - DL3	21		0.97	0.39	ug/L	100		8081A	Total/NA

Client Sample ID: WELL-G-20190405 — Lab Sample ID: 440-238127-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	130	J	500	40	ug/L	100		8260B	Total/NA
1,2-Dichlorobenzene	1200		200	25	ug/L	100		8260B	Total/NA
1,3-Dichlorobenzene	80	J	200	25	ug/L	100		8260B	Total/NA
1,4-Dichlorobenzene	2000		200	25	ug/L	100		8260B	Total/NA
Chloroform	50	J	200	25	ug/L	100		8260B	Total/NA
Benzene - DL	17000		2000	250	ug/L	1000		8260B	Total/NA
Chlorobenzene - DL	29000		2000	250	ug/L	1000		8260B	Total/NA
Dieldrin	0.019		0.0049	0.0019	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.12		0.097	0.0029	ug/L	1		8081A	Total/NA
Methoxychlor	0.0096	J	0.097	0.0034	ug/L	1		8081A	Total/NA
delta-BHC - DL	2.0		1.9	0.034	ug/L	10		8081A	Total/NA
alpha-BHC - DL2	23		0.24	0.12	ug/L	50		8081A	Total/NA
beta-BHC - DL2	40		0.49	0.19	ug/L	50		8081A	Total/NA

Client Sample ID: WELL-D2-20190405 — Lab Sample ID: 440-238127-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	5.2	J	10	1.3	ug/L	5		8260B	Total/NA
1,2,3-Trichlorobenzene	12	J	25	2.0	ug/L	5		8260B	Total/NA
1,2,4-Trichlorobenzene	48		25	2.0	ug/L	5		8260B	Total/NA
1,2-Dichlorobenzene	84		10	1.3	ug/L	5		8260B	Total/NA
1,2-Dichloroethane	3.1	J	10	1.3	ug/L	5		8260B	Total/NA
1,2-Dichloropropane	5.0	J	10	1.3	ug/L	5		8260B	Total/NA
1,3-Dichlorobenzene	5.2	J	10	1.3	ug/L	5		8260B	Total/NA
1,4-Dichlorobenzene	120		10	1.3	ug/L	5		8260B	Total/NA
Benzene	12		10	1.3	ug/L	5		8260B	Total/NA
Dimethyl disulfide	5.3	J	10	5.0	ug/L	5		8260B	Total/NA
Trichloroethene	24		10	1.3	ug/L	5		8260B	Total/NA
Chlorobenzene - DL	1600		100	13	ug/L	50		8260B	Total/NA
gamma-BHC (Lindane)	0.0062	J p	0.098	0.0029	ug/L	1		8081A	Total/NA
delta-BHC - DL	1.7		0.98	0.017	ug/L	5		8081A	Total/NA
alpha-BHC - DL2	3.4		0.098	0.049	ug/L	20		8081A	Total/NA
beta-BHC - DL2	11		0.20	0.078	ug/L	20		8081A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-H2-20190405 — Lab Sample ID: 440-238127-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	99	J	200	25	ug/L	100		8260B	Total/NA
1,2,4-Trichlorobenzene	200	J	500	40	ug/L	100		8260B	Total/NA
1,2-Dichlorobenzene	1100		200	25	ug/L	100		8260B	Total/NA
1,3-Dichlorobenzene	61	J	200	25	ug/L	100		8260B	Total/NA
1,4-Dichlorobenzene	1800		200	25	ug/L	100		8260B	Total/NA
Trichloroethene	49	J	200	25	ug/L	100		8260B	Total/NA
Benzene - DL	23000		2000	250	ug/L	1000		8260B	Total/NA
Chlorobenzene - DL	37000		2000	250	ug/L	1000		8260B	Total/NA
Dieldrin	0.28		0.0051	0.0020	ug/L	1		8081A	Total/NA
Endosulfan I	0.077	J	0.10	0.0030	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.66		0.10	0.0030	ug/L	1		8081A	Total/NA
delta-BHC - DL	3.1		2.0	0.035	ug/L	10		8081A	Total/NA
alpha-BHC - DL2	180		2.5	1.3	ug/L	500		8081A	Total/NA
beta-BHC - DL2	59		5.1	2.0	ug/L	500		8081A	Total/NA

Client Sample ID: WELL-I-20190405 — Lab Sample ID: 440-238127-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	39	J	40	5.0	ug/L	20		8260B	Total/NA
1,2,4-Trichlorobenzene	10	J	100	8.0	ug/L	20		8260B	Total/NA
1,2-Dichlorobenzene	150		40	5.0	ug/L	20		8260B	Total/NA
1,2-Dichloroethane	13	J	40	5.0	ug/L	20		8260B	Total/NA
1,3-Dichlorobenzene	9.3	J	40	5.0	ug/L	20		8260B	Total/NA
1,4-Dichlorobenzene	250		40	5.0	ug/L	20		8260B	Total/NA
Benzene	33	J	40	5.0	ug/L	20		8260B	Total/NA
Trichloroethene	56		40	5.0	ug/L	20		8260B	Total/NA
Chlorobenzene - DL	4000		400	50	ug/L	200		8260B	Total/NA
beta-BHC	0.50		0.0098	0.0039	ug/L	1		8081A	Total/NA
Methoxychlor	0.0042	J	0.098	0.0034	ug/L	1		8081A	Total/NA
alpha-BHC - DL	0.96		0.025	0.012	ug/L	5		8081A	Total/NA
delta-BHC - DL	1.5		0.98	0.017	ug/L	5		8081A	Total/NA

Client Sample ID: WELL-J-20190405 — Lab Sample ID: 440-238127-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	6.4	J	8.0	1.0	ug/L	4		8260B	Total/NA
1,1-Dichloroethene	1.4	J	20	1.0	ug/L	4		8260B	Total/NA
1,2,3-Trichlorobenzene	16	J	20	1.6	ug/L	4		8260B	Total/NA
1,2,4-Trichlorobenzene	67		20	1.6	ug/L	4		8260B	Total/NA
1,2-Dichloroethane	2.9	J	8.0	1.0	ug/L	4		8260B	Total/NA
1,2-Dichloropropane	3.6	J	8.0	1.0	ug/L	4		8260B	Total/NA
1,3-Dichlorobenzene	16		8.0	1.0	ug/L	4		8260B	Total/NA
Benzene	11		8.0	1.0	ug/L	4		8260B	Total/NA
cis-1,2-Dichloroethene	1.2	J	8.0	1.0	ug/L	4		8260B	Total/NA
Trichloroethene	62		8.0	1.0	ug/L	4		8260B	Total/NA
1,2-Dichlorobenzene - DL	320		100	13	ug/L	50		8260B	Total/NA
1,4-Dichlorobenzene - DL	440		100	13	ug/L	50		8260B	Total/NA
Chlorobenzene - DL	1400		100	13	ug/L	50		8260B	Total/NA
Endosulfan I	0.046	J p	0.10	0.0030	ug/L	1		8081A	Total/NA
Endrin aldehyde	0.0021	J	0.10	0.0020	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.035	J p	0.10	0.0030	ug/L	1		8081A	Total/NA
alpha-BHC - DL	3.6		0.025	0.013	ug/L	5		8081A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-J-20190405 (Continued) — Lab Sample ID: 440-238127-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
delta-BHC - DL	1.5		1.0	0.018	ug/L	5		8081A	Total/NA
beta-BHC - DL2	13		0.50	0.20	ug/L	50		8081A	Total/NA

Client Sample ID: WELL-K2-20190405 — Lab Sample ID: 440-238127-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	100		100	13	ug/L	50		8260B	Total/NA
1,2,4-Trichlorobenzene	140	J	250	20	ug/L	50		8260B	Total/NA
1,2-Dichlorobenzene	780		100	13	ug/L	50		8260B	Total/NA
1,2-Dichloroethane	15	J	100	13	ug/L	50		8260B	Total/NA
1,3-Dichlorobenzene	40	J	100	13	ug/L	50		8260B	Total/NA
1,4-Dichlorobenzene	1300		100	13	ug/L	50		8260B	Total/NA
Trichloroethene	66	J	100	13	ug/L	50		8260B	Total/NA
Benzene - DL	11000		1000	130	ug/L	500		8260B	Total/NA
Chlorobenzene - DL	17000		1000	130	ug/L	500		8260B	Total/NA
Dieldrin	0.030		0.0048	0.0019	ug/L	1		8081A	Total/NA
Endosulfan I	0.035	J	0.096	0.0029	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.46		0.096	0.0029	ug/L	1		8081A	Total/NA
Methoxychlor	0.0068	J	0.096	0.0034	ug/L	1		8081A	Total/NA
delta-BHC - DL	4.0		3.8	0.067	ug/L	20		8081A	Total/NA
beta-BHC - DL2	41		0.96	0.38	ug/L	100		8081A	Total/NA
alpha-BHC - DL3	200		2.4	1.2	ug/L	500		8081A	Total/NA

Client Sample ID: WELL-L-20190405 — Lab Sample ID: 440-238127-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3-Trichlorobenzene	18	J	200	16	ug/L	40		8260B	Total/NA
1,2,4-Trichlorobenzene	91	J	200	16	ug/L	40		8260B	Total/NA
1,2-Dichlorobenzene	77	J	80	10	ug/L	40		8260B	Total/NA
1,2-Dichloroethane	13	J	80	10	ug/L	40		8260B	Total/NA
1,3-Dichlorobenzene	15	J	80	10	ug/L	40		8260B	Total/NA
1,4-Dichlorobenzene	130		80	10	ug/L	40		8260B	Total/NA
Benzene	49	J	80	10	ug/L	40		8260B	Total/NA
Trichloroethene	14	J	80	10	ug/L	40		8260B	Total/NA
Chlorobenzene - DL	6400		400	50	ug/L	200		8260B	Total/NA
gamma-BHC (Lindane)	0.044	J p	0.095	0.0029	ug/L	1		8081A	Total/NA
delta-BHC - DL	1.0		0.95	0.017	ug/L	5		8081A	Total/NA
alpha-BHC - DL2	2.3		0.048	0.024	ug/L	10		8081A	Total/NA
beta-BHC - DL3	16		0.48	0.19	ug/L	50		8081A	Total/NA

Client Sample ID: WELL-N-20190405 — Lab Sample ID: 440-238127-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.1	J	10	1.3	ug/L	5		8260B	Total/NA
1,2,3-Trichlorobenzene	9.6	J	25	2.0	ug/L	5		8260B	Total/NA
1,2,4-Trichlorobenzene	34		25	2.0	ug/L	5		8260B	Total/NA
1,2-Dichlorobenzene	65		10	1.3	ug/L	5		8260B	Total/NA
1,2-Dichloroethane	1.3	J	10	1.3	ug/L	5		8260B	Total/NA
1,3-Dichlorobenzene	3.8	J	10	1.3	ug/L	5		8260B	Total/NA
1,4-Dichlorobenzene	95		10	1.3	ug/L	5		8260B	Total/NA
Benzene	19		10	1.3	ug/L	5		8260B	Total/NA
Trichloroethene	11		10	1.3	ug/L	5		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-N-20190405 (Continued) — Lab Sample ID: 440-238127-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene - DL	1300		50	6.3	ug/L	25		8260B	Total/NA
2,4'-DDE	0.22		0.10	0.020	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.012	J p	0.10	0.0030	ug/L	1		8081A	Total/NA
delta-BHC - DL	1.4		1.0	0.018	ug/L	5		8081A	Total/NA
alpha-BHC - DL2	3.1		0.051	0.025	ug/L	10		8081A	Total/NA
beta-BHC - DL2	8.3		0.20	0.081	ug/L	20		8081A	Total/NA

Client Sample ID: WELL-P-20190405 — Lab Sample ID: 440-238127-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.3		2.0	0.25	ug/L	1		8260B	Total/NA
1,2,3-Trichlorobenzene	3.0	J	5.0	0.40	ug/L	1		8260B	Total/NA
1,2,4-Trichlorobenzene	13		5.0	0.40	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	19		2.0	0.25	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	0.40	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,3-Dichlorobenzene	3.6		2.0	0.25	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	23		2.0	0.25	ug/L	1		8260B	Total/NA
Benzene	0.84	J	2.0	0.25	ug/L	1		8260B	Total/NA
Chlorobenzene	43		2.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	0.55	J	2.0	0.25	ug/L	1		8260B	Total/NA
Trichloroethene	2.4		2.0	0.25	ug/L	1		8260B	Total/NA
gamma-BHC (Lindane)	0.025	J p	0.10	0.0030	ug/L	1		8081A	Total/NA
alpha-BHC - DL	1.6		0.050	0.025	ug/L	10		8081A	Total/NA
beta-BHC - DL	7.4		0.10	0.040	ug/L	10		8081A	Total/NA
delta-BHC - DL	2.4		2.0	0.035	ug/L	10		8081A	Total/NA

Client Sample ID: WELL-O-20190405 — Lab Sample ID: 440-238127-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	110	J	250	20	ug/L	50		8260B	Total/NA
1,2-Dichlorobenzene	560		100	13	ug/L	50		8260B	Total/NA
1,3-Dichlorobenzene	44	J	100	13	ug/L	50		8260B	Total/NA
1,4-Dichlorobenzene	910		100	13	ug/L	50		8260B	Total/NA
Benzene	3300		100	13	ug/L	50		8260B	Total/NA
Chloroform	110		100	13	ug/L	50		8260B	Total/NA
Chlorobenzene - DL	14000		1000	130	ug/L	500		8260B	Total/NA
Dieldrin	0.0024	J	0.0050	0.0020	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.061	J	0.099	0.0030	ug/L	1		8081A	Total/NA
Methoxychlor	0.012	J	0.099	0.0035	ug/L	1		8081A	Total/NA
delta-BHC - DL	1.7	J	2.0	0.035	ug/L	10		8081A	Total/NA
alpha-BHC - DL2	9.3		0.25	0.12	ug/L	50		8081A	Total/NA
beta-BHC - DL2	33		0.50	0.20	ug/L	50		8081A	Total/NA

Client Sample ID: WELL-Q-20190405 — Lab Sample ID: 440-238127-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloroethane	0.94	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	11		2.0	0.25	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	1.4	J	5.0	0.25	ug/L	1		8260B	Total/NA
1,2,3-Trichlorobenzene	7.0		5.0	0.40	ug/L	1		8260B	Total/NA
1,2,4-Trichlorobenzene	33		5.0	0.40	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	1.1	J	2.0	0.25	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: WELL-Q-20190405 (Continued) — Lab Sample ID: 440-238127-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3-Dichlorobenzene	14		2.0	0.25	ug/L	1		8260B	Total/NA
2-Chlorotoluene	0.35	J	5.0	0.25	ug/L	1		8260B	Total/NA
Benzene	2.7		2.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	0.56	J	2.0	0.25	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.2	J	2.0	0.25	ug/L	1		8260B	Total/NA
Toluene	0.33	J	2.0	0.25	ug/L	1		8260B	Total/NA
Trichloroethene	60		2.0	0.25	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene - DL	330		10	1.3	ug/L	5		8260B	Total/NA
1,4-Dichlorobenzene - DL	450		10	1.3	ug/L	5		8260B	Total/NA
Chlorobenzene - DL	430		10	1.3	ug/L	5		8260B	Total/NA
Endosulfan I	0.026	J p	0.10	0.0031	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.057	J p	0.10	0.0031	ug/L	1		8081A	Total/NA
Methoxychlor	0.019	J	0.10	0.0036	ug/L	1		8081A	Total/NA
alpha-BHC - DL	2.8		0.051	0.026	ug/L	10		8081A	Total/NA
beta-BHC - DL	8.6		0.10	0.041	ug/L	10		8081A	Total/NA
delta-BHC - DL	2.5		2.1	0.036	ug/L	10		8081A	Total/NA

Client Sample ID: WELL-J2-20190405 — Lab Sample ID: 440-238127-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	8.8	J	10	1.3	ug/L	5		8260B	Total/NA
1,1-Dichloroethene	1.5	J	25	1.3	ug/L	5		8260B	Total/NA
1,2,3-Trichlorobenzene	14	J	25	2.0	ug/L	5		8260B	Total/NA
1,2,4-Trichlorobenzene	60		25	2.0	ug/L	5		8260B	Total/NA
1,2-Dichlorobenzene	420		10	1.3	ug/L	5		8260B	Total/NA
1,2-Dichloroethane	2.9	J	10	1.3	ug/L	5		8260B	Total/NA
1,3-Dichlorobenzene	20		10	1.3	ug/L	5		8260B	Total/NA
Benzene	11		10	1.3	ug/L	5		8260B	Total/NA
Trichloroethene	73		10	1.3	ug/L	5		8260B	Total/NA
1,4-Dichlorobenzene - DL	620		50	6.3	ug/L	25		8260B	Total/NA
Chlorobenzene - DL	1200		50	6.3	ug/L	25		8260B	Total/NA
gamma-BHC (Lindane)	0.034	J p	0.099	0.0030	ug/L	1		8081A	Total/NA
alpha-BHC - DL	3.5		0.050	0.025	ug/L	10		8081A	Total/NA
delta-BHC - DL	2.0		2.0	0.035	ug/L	10		8081A	Total/NA
beta-BHC - DL2	12		0.50	0.20	ug/L	50		8081A	Total/NA

Client Sample ID: WELL-R-20190405 — Lab Sample ID: 440-238127-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	8.6		8.0	1.0	ug/L	4		8260B	Total/NA
1,2,3-Trichlorobenzene	11	J	20	1.6	ug/L	4		8260B	Total/NA
1,2,4-Trichlorobenzene	46		20	1.6	ug/L	4		8260B	Total/NA
1,2-Dichloroethane	2.4	J	8.0	1.0	ug/L	4		8260B	Total/NA
1,3-Dichlorobenzene	17		8.0	1.0	ug/L	4		8260B	Total/NA
Benzene	5.4	J	8.0	1.0	ug/L	4		8260B	Total/NA
cis-1,2-Dichloroethene	1.5	J	8.0	1.0	ug/L	4		8260B	Total/NA
Trichloroethene	67		8.0	1.0	ug/L	4		8260B	Total/NA
1,2-Dichlorobenzene - DL	690		50	6.3	ug/L	25		8260B	Total/NA
1,4-Dichlorobenzene - DL	830		50	6.3	ug/L	25		8260B	Total/NA
Chlorobenzene - DL	720		50	6.3	ug/L	25		8260B	Total/NA
2,4'-DDE	0.17		0.10	0.021	ug/L	1		8081A	Total/NA
2,4'-DDT	0.042	J	0.10	0.021	ug/L	1		8081A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-R-20190405 (Continued) — Lab Sample ID: 440-238127-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	0.029	J	0.10	0.0031	ug/L	1		8081A	Total/NA
4,4'-DDT	0.021	J	0.10	0.0041	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.043	J p	0.10	0.0031	ug/L	1		8081A	Total/NA
alpha-BHC - DL	2.3		0.10	0.052	ug/L	20		8081A	Total/NA
beta-BHC - DL	7.3		0.21	0.083	ug/L	20		8081A	Total/NA
delta-BHC - DL	1.7	J	4.1	0.073	ug/L	20		8081A	Total/NA

Client Sample ID: WELL-D3-20190405 — Lab Sample ID: 440-238127-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	4.3		4.0	0.50	ug/L	2		8260B	Total/NA
1,2,3-Trichlorobenzene	6.5	J	10	0.80	ug/L	2		8260B	Total/NA
1,2,4-Trichlorobenzene	27		10	0.80	ug/L	2		8260B	Total/NA
1,2-Dichlorobenzene	43		4.0	0.50	ug/L	2		8260B	Total/NA
1,2-Dichloroethane	2.4	J	4.0	0.50	ug/L	2		8260B	Total/NA
1,3-Dichlorobenzene	2.4	J	4.0	0.50	ug/L	2		8260B	Total/NA
1,4-Dichlorobenzene	60		4.0	0.50	ug/L	2		8260B	Total/NA
Benzene	3.4	J	4.0	0.50	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	0.61	J	4.0	0.50	ug/L	2		8260B	Total/NA
Dimethyl disulfide	2.3	J	4.0	2.0	ug/L	2		8260B	Total/NA
tert-Butylbenzene	0.81	J	10	0.50	ug/L	2		8260B	Total/NA
Trichloroethene	8.1		4.0	0.50	ug/L	2		8260B	Total/NA
Chlorobenzene - DL	460		20	2.5	ug/L	10		8260B	Total/NA
2,4'-DDE	0.21		0.097	0.019	ug/L	1		8081A	Total/NA
2,4'-DDT	0.047	J	0.097	0.019	ug/L	1		8081A	Total/NA
Endosulfan I	0.0069	J	0.097	0.0029	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.032	J p	0.097	0.0029	ug/L	1		8081A	Total/NA
alpha-BHC - DL	2.2		0.024	0.012	ug/L	5		8081A	Total/NA
delta-BHC - DL	1.2		0.97	0.017	ug/L	5		8081A	Total/NA
beta-BHC - DL2	5.4		0.19	0.078	ug/L	20		8081A	Total/NA

Client Sample ID: WELL-M2-20190405 — Lab Sample ID: 440-238127-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	76	J	200	25	ug/L	100		8260B	Total/NA
1,2,4-Trichlorobenzene	81	J	500	40	ug/L	100		8260B	Total/NA
1,2-Dichlorobenzene	580		200	25	ug/L	100		8260B	Total/NA
1,4-Dichlorobenzene	1000		200	25	ug/L	100		8260B	Total/NA
Benzene	6300		200	25	ug/L	100		8260B	Total/NA
Trichloroethene	42	J	200	25	ug/L	100		8260B	Total/NA
Chlorobenzene - DL	15000		2000	250	ug/L	1000		8260B	Total/NA
alpha-BHC - DL	8.6		0.097	0.048	ug/L	20		8081A	Total/NA
beta-BHC - DL	8.2		0.19	0.077	ug/L	20		8081A	Total/NA
delta-BHC - DL	3.3	J	3.9	0.068	ug/L	20		8081A	Total/NA

Client Sample ID: WELL-Q-20190405 DUP — Lab Sample ID: 440-238127-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloroethane	0.88	J H	2.0	0.25	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	8.3	H	2.0	0.25	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	1.1	J H	5.0	0.25	ug/L	1		8260B	Total/NA
1,2,3-Trichlorobenzene	5.1	H	5.0	0.40	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-Q-20190405 DUP (Continued) — Lab Sample ID: 440-238127-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	24	H	5.0	0.40	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	1.1	J H	2.0	0.25	ug/L	1		8260B	Total/NA
1,3-Dichlorobenzene	11	H	2.0	0.25	ug/L	1		8260B	Total/NA
2-Chlorotoluene	0.26	J H	5.0	0.25	ug/L	1		8260B	Total/NA
Benzene	2.1	H	2.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	0.50	J H	2.0	0.25	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.97	J H	2.0	0.25	ug/L	1		8260B	Total/NA
Trichloroethene	50	H	2.0	0.25	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene - DL	340	H	20	2.5	ug/L	10		8260B	Total/NA
1,4-Dichlorobenzene - DL	450	H	20	2.5	ug/L	10		8260B	Total/NA
Chlorobenzene - DL	440	H	20	2.5	ug/L	10		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: TB-20190405

Lab Sample ID: 440-238127-1

Date Collected: 04/05/19 07:00
Date Received: 04/06/19 09:45

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/18/19 12:14	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 12:14	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/18/19 12:14	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 12:14	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 12:14	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/18/19 12:14	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 12:14	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 12:14	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/18/19 12:14	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 12:14	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 12:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/18/19 12:14	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/18/19 12:14	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 12:14	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 12:14	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 12:14	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 12:14	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 12:14	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 12:14	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 12:14	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/18/19 12:14	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 12:14	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 12:14	1
Benzene	ND		2.0	0.25	ug/L			04/18/19 12:14	1
Bromobenzene	ND		5.0	0.25	ug/L			04/18/19 12:14	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/18/19 12:14	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/18/19 12:14	1
Bromoform	ND		5.0	0.40	ug/L			04/18/19 12:14	1
Bromomethane	ND		5.0	0.25	ug/L			04/18/19 12:14	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/18/19 12:14	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/18/19 12:14	1
Chloroethane	ND		5.0	0.40	ug/L			04/18/19 12:14	1
Chloroform	ND		2.0	0.25	ug/L			04/18/19 12:14	1
Chloromethane	ND		5.0	0.25	ug/L			04/18/19 12:14	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 12:14	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 12:14	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/18/19 12:14	1
Dibromomethane	ND		2.0	0.25	ug/L			04/18/19 12:14	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/18/19 12:14	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/18/19 12:14	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/18/19 12:14	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/18/19 12:14	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/18/19 12:14	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/18/19 12:14	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/18/19 12:14	1
Naphthalene	ND		5.0	0.40	ug/L			04/18/19 12:14	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/18/19 12:14	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/18/19 12:14	1
o-Xylene	ND		2.0	0.25	ug/L			04/18/19 12:14	1

Client Sample ID: TB-20190405

Lab Sample ID: 440-238127-1

Date Collected: 04/05/19 07:00
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/18/19 12:14	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 12:14	1
Styrene	ND		2.0	0.25	ug/L			04/18/19 12:14	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 12:14	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/18/19 12:14	1
Toluene	ND		2.0	0.25	ug/L			04/18/19 12:14	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 12:14	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 12:14	1
Trichloroethene	ND		2.0	0.25	ug/L			04/18/19 12:14	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/18/19 12:14	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/18/19 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*04/18/19 12:14*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*04/18/19 12:14*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*04/18/19 12:14*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*04/18/19 12:14*	*1*

Client Sample ID: PL-500-20190405

Lab Sample ID: 440-238127-2

Date Collected: 04/05/19 08:45
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/18/19 12:40	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 12:40	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/18/19 12:40	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 12:40	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 12:40	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/18/19 12:40	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 12:40	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 12:40	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/18/19 12:40	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 12:40	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 12:40	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/18/19 12:40	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/18/19 12:40	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 12:40	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 12:40	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 12:40	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 12:40	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 12:40	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 12:40	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 12:40	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/18/19 12:40	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 12:40	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 12:40	1
Benzene	ND		2.0	0.25	ug/L			04/18/19 12:40	1
Bromobenzene	ND		5.0	0.25	ug/L			04/18/19 12:40	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/18/19 12:40	1

Client Sample ID: PL-500-20190405

Lab Sample ID: 440-238127-2

Date Collected: 04/05/19 08:45
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		2.0	0.25	ug/L			04/18/19 12:40	1
Bromoform	ND		5.0	0.40	ug/L			04/18/19 12:40	1
Bromomethane	ND		5.0	0.25	ug/L			04/18/19 12:40	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/18/19 12:40	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/18/19 12:40	1
Chloroethane	ND		5.0	0.40	ug/L			04/18/19 12:40	1
Chloroform	ND		2.0	0.25	ug/L			04/18/19 12:40	1
Chloromethane	ND		5.0	0.25	ug/L			04/18/19 12:40	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 12:40	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 12:40	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/18/19 12:40	1
Dibromomethane	ND		2.0	0.25	ug/L			04/18/19 12:40	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/18/19 12:40	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/18/19 12:40	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/18/19 12:40	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/18/19 12:40	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/18/19 12:40	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/18/19 12:40	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/18/19 12:40	1
Naphthalene	ND		5.0	0.40	ug/L			04/18/19 12:40	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/18/19 12:40	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/18/19 12:40	1
o-Xylene	ND		2.0	0.25	ug/L			04/18/19 12:40	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/18/19 12:40	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 12:40	1
Styrene	ND		2.0	0.25	ug/L			04/18/19 12:40	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 12:40	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/18/19 12:40	1
Toluene	ND		2.0	0.25	ug/L			04/18/19 12:40	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 12:40	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 12:40	1
Trichloroethene	ND		2.0	0.25	ug/L			04/18/19 12:40	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/18/19 12:40	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/18/19 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/18/19 12:40*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/18/19 12:40*	*1*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*04/18/19 12:40*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*04/18/19 12:40*	*1*

Client Sample ID: PL-501-20190405

Lab Sample ID: 440-238127-3

Date Collected: 04/05/19 10:00
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/18/19 11:49	1
1,1,1-Trichloroethane	ND	F1 *	2.0	0.25	ug/L			04/18/19 11:49	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/18/19 11:49	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: PL-501-20190405

Lab Sample ID: 440-238127-3

Date Collected: 04/05/19 10:00
Date Received: 04/06/19 09:45

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 11:49	1
1,1-Dichloroethane	**4.5**		2.0	0.25	ug/L			04/18/19 11:49	1
1,1-Dichloroethene	**0.47**	**J**	5.0	0.25	ug/L			04/18/19 11:49	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 11:49	1
1,2,3-Trichlorobenzene	**10**		5.0	0.40	ug/L			04/18/19 11:49	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/18/19 11:49	1
1,2,4-Trichlorobenzene	**36**	**F1**	5.0	0.40	ug/L			04/18/19 11:49	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 11:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/18/19 11:49	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/18/19 11:49	1
1,2-Dichlorobenzene	**45**		2.0	0.25	ug/L			04/18/19 11:49	1
1,2-Dichloroethane	**2.8**		2.0	0.25	ug/L			04/18/19 11:49	1
1,2-Dichloropropane	**2.4**		2.0	0.25	ug/L			04/18/19 11:49	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 11:49	1
1,3-Dichlorobenzene	**3.6**		2.0	0.25	ug/L			04/18/19 11:49	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 11:49	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/18/19 11:49	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 11:49	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 11:49	1
Benzene	**3.4**		2.0	0.25	ug/L			04/18/19 11:49	1
Bromobenzene	ND		5.0	0.25	ug/L			04/18/19 11:49	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/18/19 11:49	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/18/19 11:49	1
Bromoform	ND		5.0	0.40	ug/L			04/18/19 11:49	1
Bromomethane	ND		5.0	0.25	ug/L			04/18/19 11:49	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/18/19 11:49	1
Chloroethane	ND		5.0	0.40	ug/L			04/18/19 11:49	1
Chloroform	**0.38**	**J**	2.0	0.25	ug/L			04/18/19 11:49	1
Chloromethane	ND		5.0	0.25	ug/L			04/18/19 11:49	1
cis-1,2-Dichloroethene	**0.41**	**J**	2.0	0.25	ug/L			04/18/19 11:49	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 11:49	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/18/19 11:49	1
Dibromomethane	ND		2.0	0.25	ug/L			04/18/19 11:49	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/18/19 11:49	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/18/19 11:49	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/18/19 11:49	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/18/19 11:49	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/18/19 11:49	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/18/19 11:49	1
Naphthalene	ND		5.0	0.40	ug/L			04/18/19 11:49	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/18/19 11:49	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/18/19 11:49	1
o-Xylene	ND		2.0	0.25	ug/L			04/18/19 11:49	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/18/19 11:49	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 11:49	1
Styrene	ND		2.0	0.25	ug/L			04/18/19 11:49	1
tert-Butylbenzene	**0.31**	**J**	5.0	0.25	ug/L			04/18/19 11:49	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/18/19 11:49	1
Toluene	**0.30**	**J**	2.0	0.25	ug/L			04/18/19 11:49	1

Client Sample ID: PL-501-20190405

Lab Sample ID: 440-238127-3

Date Collected: 04/05/19 10:00
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 11:49	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 11:49	1
Trichloroethene	**11**		2.0	0.25	ug/L			04/18/19 11:49	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/18/19 11:49	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/18/19 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*		*04/18/19 11:49*	*1*
4-Bromofluorobenzene (Surr)	*87*		*80 - 120*		*04/18/19 11:49*	*1*
Dibromofluoromethane (Surr)	*119*		*76 - 132*		*04/18/19 11:49*	*1*
Toluene-d8 (Surr)	*93*		*80 - 128*		*04/18/19 11:49*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	**84**		20	2.5	ug/L			04/18/19 12:16	10
Chlorobenzene	**450**		20	2.5	ug/L			04/18/19 12:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*		*04/18/19 12:16*	*10*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*04/18/19 12:16*	*10*
Dibromofluoromethane (Surr)	*124*		*76 - 132*		*04/18/19 12:16*	*10*
Toluene-d8 (Surr)	*101*		*80 - 128*		*04/18/19 12:16*	*10*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/19/19 10:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/19/19 10:13*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/19/19 10:13*	*1*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*04/19/19 10:13*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*04/19/19 10:13*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/09/19 06:08	04/11/19 19:15	1
2,4'-DDE	**0.025**	**J p**	0.10	0.020	ug/L		04/09/19 06:08	04/11/19 19:15	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/09/19 06:08	04/11/19 19:15	1
4,4'-DDD	ND		0.10	0.0040	ug/L		04/09/19 06:08	04/11/19 19:15	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/09/19 06:08	04/11/19 19:15	1
4,4'-DDT	ND		0.10	0.0040	ug/L		04/09/19 06:08	04/11/19 19:15	1
Aldrin	ND		0.0050	0.0015	ug/L		04/09/19 06:08	04/11/19 19:15	1
Chlordane	ND		0.10	0.080	ug/L		04/09/19 06:08	04/11/19 19:15	1
Dieldrin	ND		0.0050	0.0020	ug/L		04/09/19 06:08	04/11/19 19:15	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/09/19 06:08	04/11/19 19:15	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/09/19 06:08	04/11/19 19:15	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/09/19 06:08	04/11/19 19:15	1
Endrin	ND		0.10	0.0020	ug/L		04/09/19 06:08	04/11/19 19:15	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/09/19 06:08	04/11/19 19:15	1
Endrin ketone	ND		0.10	0.0070	ug/L		04/09/19 06:08	04/11/19 19:15	1
gamma-BHC (Lindane)	**0.013**	**J p**	0.10	0.0030	ug/L		04/09/19 06:08	04/11/19 19:15	1

Client Sample ID: PL-501-20190405

Lab Sample ID: 440-238127-3
Date Collected: 04/05/19 10:00
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		0.010	0.0030	ug/L		04/09/19 06:08	04/11/19 19:15	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/09/19 06:08	04/11/19 19:15	1
Methoxychlor	ND		0.10	0.0035	ug/L		04/09/19 06:08	04/11/19 19:15	1
Toxaphene	ND		5.0	0.25	ug/L		04/09/19 06:08	04/11/19 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*28 - 108*	*04/09/19 06:08*	*04/11/19 19:15*	*1*
Tetrachloro-m-xylene	*53*		*10 - 123*	*04/09/19 06:08*	*04/11/19 19:15*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	**2.7**		0.025	0.013	ug/L		04/09/19 06:08	04/10/19 15:26	5
delta-BHC	**1.3**		1.0	0.018	ug/L		04/09/19 06:08	04/10/19 15:26	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*28 - 108*	*04/09/19 06:08*	*04/10/19 15:26*	*5*
Tetrachloro-m-xylene	*65*		*10 - 123*	*04/09/19 06:08*	*04/10/19 15:26*	*5*

Method: 8081A - Organochlorine Pesticides (GC) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	**6.0**		0.20	0.080	ug/L		04/09/19 06:08	04/11/19 14:02	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*28 - 108*	*04/09/19 06:08*	*04/11/19 14:02*	*20*
Tetrachloro-m-xylene	*63*		*10 - 123*	*04/09/19 06:08*	*04/11/19 14:02*	*20*

Client Sample ID: WELL-E3-20190405

Lab Sample ID: 440-238127-4
Date Collected: 04/05/19 10:10
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		100	5.0	ug/L			04/18/19 12:43	20
1,1,1-Trichloroethane	ND	*	40	5.0	ug/L			04/18/19 12:43	20
1,1,2,2-Tetrachloroethane	ND		40	5.0	ug/L			04/18/19 12:43	20
1,1,2-Trichloroethane	ND		40	5.0	ug/L			04/18/19 12:43	20
1,1-Dichloroethane	ND		40	5.0	ug/L			04/18/19 12:43	20
1,1-Dichloroethene	ND		100	5.0	ug/L			04/18/19 12:43	20
1,1-Dichloropropene	ND		40	5.0	ug/L			04/18/19 12:43	20
1,2,3-Trichlorobenzene	ND		100	8.0	ug/L			04/18/19 12:43	20
1,2,3-Trichloropropane	ND		200	5.0	ug/L			04/18/19 12:43	20
1,2,4-Trichlorobenzene	**73**	**J**	100	8.0	ug/L			04/18/19 12:43	20
1,2,4-Trimethylbenzene	ND		40	5.0	ug/L			04/18/19 12:43	20
1,2-Dibromo-3-Chloropropane	ND		100	10	ug/L			04/18/19 12:43	20
1,2-Dibromoethane (EDB)	ND		40	5.0	ug/L			04/18/19 12:43	20
1,2-Dichlorobenzene	**63**		40	5.0	ug/L			04/18/19 12:43	20
1,2-Dichloroethane	**7.2**	**J**	40	5.0	ug/L			04/18/19 12:43	20
1,2-Dichloropropane	ND		40	5.0	ug/L			04/18/19 12:43	20
1,3,5-Trimethylbenzene	ND		40	5.0	ug/L			04/18/19 12:43	20
1,3-Dichlorobenzene	**8.1**	**J**	40	5.0	ug/L			04/18/19 12:43	20
1,3-Dichloropropane	ND		40	5.0	ug/L			04/18/19 12:43	20

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-E3-20190405

Lab Sample ID: 440-238127-4

Date Collected: 04/05/19 10:10
Date Received: 04/06/19 09:45

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	**110**		40	5.0	ug/L			04/18/19 12:43	20
2,2-Dichloropropane	ND		40	8.0	ug/L			04/18/19 12:43	20
2-Chlorotoluene	ND		100	5.0	ug/L			04/18/19 12:43	20
4-Chlorotoluene	ND		100	5.0	ug/L			04/18/19 12:43	20
Benzene	**32**	**J**	40	5.0	ug/L			04/18/19 12:43	20
Bromobenzene	ND		100	5.0	ug/L			04/18/19 12:43	20
Bromochloromethane	ND		100	5.0	ug/L			04/18/19 12:43	20
Bromodichloromethane	ND		40	5.0	ug/L			04/18/19 12:43	20
Bromoform	ND		100	8.0	ug/L			04/18/19 12:43	20
Bromomethane	ND		100	5.0	ug/L			04/18/19 12:43	20
Carbon tetrachloride	ND		20	5.0	ug/L			04/18/19 12:43	20
Chloroethane	ND		100	8.0	ug/L			04/18/19 12:43	20
Chloroform	ND		40	5.0	ug/L			04/18/19 12:43	20
Chloromethane	ND		100	5.0	ug/L			04/18/19 12:43	20
cis-1,2-Dichloroethene	ND		40	5.0	ug/L			04/18/19 12:43	20
cis-1,3-Dichloropropene	ND		40	5.0	ug/L			04/18/19 12:43	20
Dibromochloromethane	ND		40	5.0	ug/L			04/18/19 12:43	20
Dibromomethane	ND		40	5.0	ug/L			04/18/19 12:43	20
Dichlorodifluoromethane	ND		100	5.0	ug/L			04/18/19 12:43	20
Dimethyl disulfide	ND		40	20	ug/L			04/18/19 12:43	20
Ethylbenzene	ND		40	5.0	ug/L			04/18/19 12:43	20
Hexachlorobutadiene	ND		100	5.0	ug/L			04/18/19 12:43	20
Isopropylbenzene	ND		40	5.0	ug/L			04/18/19 12:43	20
m,p-Xylene	ND		40	10	ug/L			04/18/19 12:43	20
Methylene Chloride	ND		40	22	ug/L			04/18/19 12:43	20
Naphthalene	ND		100	8.0	ug/L			04/18/19 12:43	20
n-Butylbenzene	ND		100	8.0	ug/L			04/18/19 12:43	20
N-Propylbenzene	ND		40	5.0	ug/L			04/18/19 12:43	20
o-Xylene	ND		40	5.0	ug/L			04/18/19 12:43	20
p-Isopropyltoluene	ND		40	5.0	ug/L			04/18/19 12:43	20
sec-Butylbenzene	ND		100	5.0	ug/L			04/18/19 12:43	20
Styrene	ND		40	5.0	ug/L			04/18/19 12:43	20
tert-Butylbenzene	ND		100	5.0	ug/L			04/18/19 12:43	20
Tetrachloroethene	ND		40	5.0	ug/L			04/18/19 12:43	20
Toluene	ND		40	5.0	ug/L			04/18/19 12:43	20
trans-1,2-Dichloroethene	ND		40	5.0	ug/L			04/18/19 12:43	20
trans-1,3-Dichloropropene	ND		40	5.0	ug/L			04/18/19 12:43	20
Trichloroethene	**17**	**J**	40	5.0	ug/L			04/18/19 12:43	20
Trichlorofluoromethane	ND		100	5.0	ug/L			04/18/19 12:43	20
Vinyl chloride	ND		100	5.0	ug/L			04/18/19 12:43	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 130*		*04/18/19 12:43*	*20*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*04/18/19 12:43*	*20*
Dibromofluoromethane (Surr)	*127*		*76 - 132*		*04/18/19 12:43*	*20*
Toluene-d8 (Surr)	*100*		*80 - 128*		*04/18/19 12:43*	*20*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**4900**		200	25	ug/L			04/18/19 13:10	100

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-E3-20190405

Date Collected: 04/05/19 10:10
Date Received: 04/06/19 09:45

Lab Sample ID: 440-238127-4

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*126*		*70 - 130*		*04/18/19 13:10*	*100*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*04/18/19 13:10*	*100*
Dibromofluoromethane (Surr)	*126*		*76 - 132*		*04/18/19 13:10*	*100*
Toluene-d8 (Surr)	*96*		*80 - 128*		*04/18/19 13:10*	*100*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDE	ND		0.099	0.020	ug/L		04/09/19 06:08	04/11/19 19:41	1
2,4'-DDT	ND		0.099	0.020	ug/L		04/09/19 06:08	04/11/19 19:41	1
4,4'-DDD	ND		0.099	0.0039	ug/L		04/09/19 06:08	04/11/19 19:41	1
4,4'-DDE	ND		0.099	0.0030	ug/L		04/09/19 06:08	04/11/19 19:41	1
4,4'-DDT	ND		0.099	0.0039	ug/L		04/09/19 06:08	04/11/19 19:41	1
Aldrin	ND		0.0049	0.0015	ug/L		04/09/19 06:08	04/11/19 19:41	1
Chlordane	ND		0.099	0.079	ug/L		04/09/19 06:08	04/11/19 19:41	1
Dieldrin	ND		0.0049	0.0020	ug/L		04/09/19 06:08	04/11/19 19:41	1
Endosulfan I	ND		0.099	0.0030	ug/L		04/09/19 06:08	04/11/19 19:41	1
Endosulfan II	ND		0.099	0.0020	ug/L		04/09/19 06:08	04/11/19 19:41	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/09/19 06:08	04/11/19 19:41	1
Endrin	ND		0.099	0.0020	ug/L		04/09/19 06:08	04/11/19 19:41	1
Endrin aldehyde	ND		0.099	0.0020	ug/L		04/09/19 06:08	04/11/19 19:41	1
Endrin ketone	ND		0.099	0.0069	ug/L		04/09/19 06:08	04/11/19 19:41	1
gamma-BHC (Lindane)	**0.044**	**J p**	0.099	0.0030	ug/L		04/09/19 06:08	04/11/19 19:41	1
Heptachlor	ND		0.0099	0.0030	ug/L		04/09/19 06:08	04/11/19 19:41	1
Heptachlor epoxide	ND		0.0049	0.0025	ug/L		04/09/19 06:08	04/11/19 19:41	1
Methoxychlor	ND		0.099	0.0034	ug/L		04/09/19 06:08	04/11/19 19:41	1
Toxaphene	ND		4.9	0.25	ug/L		04/09/19 06:08	04/11/19 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*63*		*28 - 108*	*04/09/19 06:08*	*04/11/19 19:41*	*1*
Tetrachloro-m-xylene	*78*		*10 - 123*	*04/09/19 06:08*	*04/11/19 19:41*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.49	0.099	ug/L		04/09/19 06:08	04/12/19 23:33	5
delta-BHC	**1.5**		0.99	0.017	ug/L		04/09/19 06:08	04/12/19 23:33	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*59*		*28 - 108*	*04/09/19 06:08*	*04/12/19 23:33*	*5*
Tetrachloro-m-xylene	*48*		*10 - 123*	*04/09/19 06:08*	*04/12/19 23:33*	*5*

Method: 8081A - Organochlorine Pesticides (GC) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	**3.4**		0.049	0.025	ug/L		04/09/19 06:08	04/10/19 15:52	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*71*		*28 - 108*	*04/09/19 06:08*	*04/10/19 15:52*	*10*
Tetrachloro-m-xylene	*85*		*10 - 123*	*04/09/19 06:08*	*04/10/19 15:52*	*10*

Method: 8081A - Organochlorine Pesticides (GC) - DL3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	**11**		0.49	0.20	ug/L		04/09/19 06:08	04/10/19 16:17	50

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-E3-20190405

Lab Sample ID: 440-238127-4
Date Collected: 04/05/19 10:10
Matrix: Water
Date Received: 04/06/19 09:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*28 - 108*	*04/09/19 06:08*	*04/10/19 16:17*	*50*
Tetrachloro-m-xylene	*71*		*10 - 123*	*04/09/19 06:08*	*04/10/19 16:17*	*50*

Client Sample ID: WELL-F-20190405

Lab Sample ID: 440-238127-5
Date Collected: 04/05/19 10:45
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		100	5.0	ug/L			04/18/19 13:37	20
1,1,1-Trichloroethane	ND	*	40	5.0	ug/L			04/18/19 13:37	20
1,1,2,2-Tetrachloroethane	ND		40	5.0	ug/L			04/18/19 13:37	20
1,1,2-Trichloroethane	ND		40	5.0	ug/L			04/18/19 13:37	20
1,1-Dichloroethane	**9.4**	**J**	40	5.0	ug/L			04/18/19 13:37	20
1,1-Dichloroethene	ND		100	5.0	ug/L			04/18/19 13:37	20
1,1-Dichloropropene	ND		40	5.0	ug/L			04/18/19 13:37	20
1,2,3-Trichlorobenzene	ND		100	8.0	ug/L			04/18/19 13:37	20
1,2,3-Trichloropropane	ND		200	5.0	ug/L			04/18/19 13:37	20
1,2,4-Trichlorobenzene	**120**		100	8.0	ug/L			04/18/19 13:37	20
1,2,4-Trimethylbenzene	ND		40	5.0	ug/L			04/18/19 13:37	20
1,2-Dibromo-3-Chloropropane	ND		100	10	ug/L			04/18/19 13:37	20
1,2-Dibromoethane (EDB)	ND		40	5.0	ug/L			04/18/19 13:37	20
1,2-Dichlorobenzene	**150**		40	5.0	ug/L			04/18/19 13:37	20
1,2-Dichloroethane	**17**	**J**	40	5.0	ug/L			04/18/19 13:37	20
1,2-Dichloropropane	ND		40	5.0	ug/L			04/18/19 13:37	20
1,3,5-Trimethylbenzene	ND		40	5.0	ug/L			04/18/19 13:37	20
1,3-Dichlorobenzene	**25**	**J**	40	5.0	ug/L			04/18/19 13:37	20
1,3-Dichloropropane	ND		40	5.0	ug/L			04/18/19 13:37	20
1,4-Dichlorobenzene	**220**		40	5.0	ug/L			04/18/19 13:37	20
2,2-Dichloropropane	ND		40	8.0	ug/L			04/18/19 13:37	20
2-Chlorotoluene	ND		100	5.0	ug/L			04/18/19 13:37	20
4-Chlorotoluene	ND		100	5.0	ug/L			04/18/19 13:37	20
Benzene	**65**		40	5.0	ug/L			04/18/19 13:37	20
Bromobenzene	ND		100	5.0	ug/L			04/18/19 13:37	20
Bromochloromethane	ND		100	5.0	ug/L			04/18/19 13:37	20
Bromodichloromethane	ND		40	5.0	ug/L			04/18/19 13:37	20
Bromoform	ND		100	8.0	ug/L			04/18/19 13:37	20
Bromomethane	ND		100	5.0	ug/L			04/18/19 13:37	20
Carbon tetrachloride	ND		20	5.0	ug/L			04/18/19 13:37	20
Chloroethane	ND		100	8.0	ug/L			04/18/19 13:37	20
Chloroform	ND		40	5.0	ug/L			04/18/19 13:37	20
Chloromethane	ND		100	5.0	ug/L			04/18/19 13:37	20
cis-1,2-Dichloroethene	ND		40	5.0	ug/L			04/18/19 13:37	20
cis-1,3-Dichloropropene	ND		40	5.0	ug/L			04/18/19 13:37	20
Dibromochloromethane	ND		40	5.0	ug/L			04/18/19 13:37	20
Dibromomethane	ND		40	5.0	ug/L			04/18/19 13:37	20
Dichlorodifluoromethane	ND		100	5.0	ug/L			04/18/19 13:37	20
Dimethyl disulfide	ND		40	20	ug/L			04/18/19 13:37	20
Ethylbenzene	ND		40	5.0	ug/L			04/18/19 13:37	20
Hexachlorobutadiene	ND		100	5.0	ug/L			04/18/19 13:37	20

Client Sample ID: WELL-F-20190405

Lab Sample ID: 440-238127-5

Date Collected: 04/05/19 10:45
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		40	5.0	ug/L			04/18/19 13:37	20
m,p-Xylene	ND		40	10	ug/L			04/18/19 13:37	20
Methylene Chloride	ND		40	22	ug/L			04/18/19 13:37	20
Naphthalene	ND		100	8.0	ug/L			04/18/19 13:37	20
n-Butylbenzene	ND		100	8.0	ug/L			04/18/19 13:37	20
N-Propylbenzene	ND		40	5.0	ug/L			04/18/19 13:37	20
o-Xylene	ND		40	5.0	ug/L			04/18/19 13:37	20
p-Isopropyltoluene	ND		40	5.0	ug/L			04/18/19 13:37	20
sec-Butylbenzene	ND		100	5.0	ug/L			04/18/19 13:37	20
Styrene	ND		40	5.0	ug/L			04/18/19 13:37	20
tert-Butylbenzene	ND		100	5.0	ug/L			04/18/19 13:37	20
Tetrachloroethene	ND		40	5.0	ug/L			04/18/19 13:37	20
Toluene	ND		40	5.0	ug/L			04/18/19 13:37	20
trans-1,2-Dichloroethene	ND		40	5.0	ug/L			04/18/19 13:37	20
trans-1,3-Dichloropropene	ND		40	5.0	ug/L			04/18/19 13:37	20
Trichloroethene	**13**	**J**	40	5.0	ug/L			04/18/19 13:37	20
Trichlorofluoromethane	ND		100	5.0	ug/L			04/18/19 13:37	20
Vinyl chloride	ND		100	5.0	ug/L			04/18/19 13:37	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*127*		*70 - 130*		*04/18/19 13:37*	*20*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*04/18/19 13:37*	*20*
Dibromofluoromethane (Surr)	*129*		*76 - 132*		*04/18/19 13:37*	*20*
Toluene-d8 (Surr)	*97*		*80 - 128*		*04/18/19 13:37*	*20*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**9800**		400	50	ug/L			04/18/19 14:04	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*126*		*70 - 130*		*04/18/19 14:04*	*200*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*04/18/19 14:04*	*200*
Dibromofluoromethane (Surr)	*129*		*76 - 132*		*04/18/19 14:04*	*200*
Toluene-d8 (Surr)	*102*		*80 - 128*		*04/18/19 14:04*	*200*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.097	0.019	ug/L		04/09/19 06:08	04/11/19 20:06	1
2,4'-DDE	ND		0.097	0.019	ug/L		04/09/19 06:08	04/11/19 20:06	1
2,4'-DDT	**0.13**		0.097	0.019	ug/L		04/09/19 06:08	04/11/19 20:06	1
4,4'-DDD	**0.017**	**J**	0.097	0.0039	ug/L		04/09/19 06:08	04/11/19 20:06	1
4,4'-DDE	**0.24**	**B**	0.097	0.0029	ug/L		04/09/19 06:08	04/11/19 20:06	1
4,4'-DDT	**0.074**	**J B**	0.097	0.0039	ug/L		04/09/19 06:08	04/11/19 20:06	1
Aldrin	ND		0.0048	0.0014	ug/L		04/09/19 06:08	04/11/19 20:06	1
Chlordane	ND		0.097	0.077	ug/L		04/09/19 06:08	04/11/19 20:06	1
Dieldrin	ND		0.0048	0.0019	ug/L		04/09/19 06:08	04/11/19 20:06	1
Endosulfan I	ND		0.097	0.0029	ug/L		04/09/19 06:08	04/11/19 20:06	1
Endosulfan II	ND		0.097	0.0019	ug/L		04/09/19 06:08	04/11/19 20:06	1
Endosulfan sulfate	ND		0.19	0.0029	ug/L		04/09/19 06:08	04/11/19 20:06	1
Endrin	ND		0.097	0.0019	ug/L		04/09/19 06:08	04/11/19 20:06	1

Client Sample ID: WELL-F-20190405

Lab Sample ID: 440-238127-5
Date Collected: 04/05/19 10:45
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	ND		0.097	0.0019	ug/L		04/09/19 06:08	04/11/19 20:06	1
Endrin ketone	ND		0.097	0.0068	ug/L		04/09/19 06:08	04/11/19 20:06	1
gamma-BHC (Lindane)	**0.036**	**J p**	0.097	0.0029	ug/L		04/09/19 06:08	04/11/19 20:06	1
Heptachlor	ND		0.0097	0.0029	ug/L		04/09/19 06:08	04/11/19 20:06	1
Heptachlor epoxide	ND		0.0048	0.0024	ug/L		04/09/19 06:08	04/11/19 20:06	1
Methoxychlor	**0.0091**	**J**	0.097	0.0034	ug/L		04/09/19 06:08	04/11/19 20:06	1
Toxaphene	ND		4.8	0.24	ug/L		04/09/19 06:08	04/11/19 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*28 - 108*	*04/09/19 06:08*	*04/11/19 20:06*	*1*
Tetrachloro-m-xylene	*55*		*10 - 123*	*04/09/19 06:08*	*04/11/19 20:06*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	**0.99**		0.97	0.017	ug/L		04/09/19 06:08	04/12/19 23:58	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*51*		*28 - 108*	*04/09/19 06:08*	*04/12/19 23:58*	*5*
Tetrachloro-m-xylene	*47*		*10 - 123*	*04/09/19 06:08*	*04/12/19 23:58*	*5*

Method: 8081A - Organochlorine Pesticides (GC) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	**3.1**		0.048	0.024	ug/L		04/09/19 06:08	04/10/19 16:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*28 - 108*	*04/09/19 06:08*	*04/10/19 16:43*	*10*
Tetrachloro-m-xylene	*65*		*10 - 123*	*04/09/19 06:08*	*04/10/19 16:43*	*10*

Method: 8081A - Organochlorine Pesticides (GC) - DL3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	**21**		0.97	0.39	ug/L		04/09/19 06:08	04/10/19 17:09	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*28 - 108*	*04/09/19 06:08*	*04/10/19 17:09*	*100*
Tetrachloro-m-xylene	*99*		*10 - 123*	*04/09/19 06:08*	*04/10/19 17:09*	*100*

Client Sample ID: WELL-G-20190405

Lab Sample ID: 440-238127-6
Date Collected: 04/05/19 11:15
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		500	25	ug/L			04/18/19 14:31	100
1,1,1-Trichloroethane	ND	*	200	25	ug/L			04/18/19 14:31	100
1,1,2,2-Tetrachloroethane	ND		200	25	ug/L			04/18/19 14:31	100
1,1,2-Trichloroethane	ND		200	25	ug/L			04/18/19 14:31	100
1,1-Dichloroethane	ND		200	25	ug/L			04/18/19 14:31	100
1,1-Dichloroethene	ND		500	25	ug/L			04/18/19 14:31	100
1,1-Dichloropropene	ND		200	25	ug/L			04/18/19 14:31	100
1,2,3-Trichlorobenzene	ND		500	40	ug/L			04/18/19 14:31	100
1,2,3-Trichloropropane	ND		1000	25	ug/L			04/18/19 14:31	100
1,2,4-Trichlorobenzene	**130**	**J**	500	40	ug/L			04/18/19 14:31	100

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-G-20190405

Lab Sample ID: 440-238127-6

Date Collected: 04/05/19 11:15
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		200	25	ug/L			04/18/19 14:31	100
1,2-Dibromo-3-Chloropropane	ND		500	50	ug/L			04/18/19 14:31	100
1,2-Dibromoethane (EDB)	ND		200	25	ug/L			04/18/19 14:31	100
1,2-Dichlorobenzene	**1200**		200	25	ug/L			04/18/19 14:31	100
1,2-Dichloroethane	ND		200	25	ug/L			04/18/19 14:31	100
1,2-Dichloropropane	ND		200	25	ug/L			04/18/19 14:31	100
1,3,5-Trimethylbenzene	ND		200	25	ug/L			04/18/19 14:31	100
1,3-Dichlorobenzene	**80**	**J**	200	25	ug/L			04/18/19 14:31	100
1,3-Dichloropropane	ND		200	25	ug/L			04/18/19 14:31	100
1,4-Dichlorobenzene	**2000**		200	25	ug/L			04/18/19 14:31	100
2,2-Dichloropropane	ND		200	40	ug/L			04/18/19 14:31	100
2-Chlorotoluene	ND		500	25	ug/L			04/18/19 14:31	100
4-Chlorotoluene	ND		500	25	ug/L			04/18/19 14:31	100
Bromobenzene	ND		500	25	ug/L			04/18/19 14:31	100
Bromochloromethane	ND		500	25	ug/L			04/18/19 14:31	100
Bromodichloromethane	ND		200	25	ug/L			04/18/19 14:31	100
Bromoform	ND		500	40	ug/L			04/18/19 14:31	100
Bromomethane	ND		500	25	ug/L			04/18/19 14:31	100
Carbon tetrachloride	ND		100	25	ug/L			04/18/19 14:31	100
Chloroethane	ND		500	40	ug/L			04/18/19 14:31	100
Chloroform	**50**	**J**	200	25	ug/L			04/18/19 14:31	100
Chloromethane	ND		500	25	ug/L			04/18/19 14:31	100
cis-1,2-Dichloroethene	ND		200	25	ug/L			04/18/19 14:31	100
cis-1,3-Dichloropropene	ND		200	25	ug/L			04/18/19 14:31	100
Dibromochloromethane	ND		200	25	ug/L			04/18/19 14:31	100
Dibromomethane	ND		200	25	ug/L			04/18/19 14:31	100
Dichlorodifluoromethane	ND		500	25	ug/L			04/18/19 14:31	100
Dimethyl disulfide	ND		200	100	ug/L			04/18/19 14:31	100
Ethylbenzene	ND		200	25	ug/L			04/18/19 14:31	100
Hexachlorobutadiene	ND		500	25	ug/L			04/18/19 14:31	100
Isopropylbenzene	ND		200	25	ug/L			04/18/19 14:31	100
m,p-Xylene	ND		200	50	ug/L			04/18/19 14:31	100
Methylene Chloride	ND		200	110	ug/L			04/18/19 14:31	100
Naphthalene	ND		500	40	ug/L			04/18/19 14:31	100
n-Butylbenzene	ND		500	40	ug/L			04/18/19 14:31	100
N-Propylbenzene	ND		200	25	ug/L			04/18/19 14:31	100
o-Xylene	ND		200	25	ug/L			04/18/19 14:31	100
p-Isopropyltoluene	ND		200	25	ug/L			04/18/19 14:31	100
sec-Butylbenzene	ND		500	25	ug/L			04/18/19 14:31	100
Styrene	ND		200	25	ug/L			04/18/19 14:31	100
tert-Butylbenzene	ND		500	25	ug/L			04/18/19 14:31	100
Tetrachloroethene	ND		200	25	ug/L			04/18/19 14:31	100
Toluene	ND		200	25	ug/L			04/18/19 14:31	100
trans-1,2-Dichloroethene	ND		200	25	ug/L			04/18/19 14:31	100
trans-1,3-Dichloropropene	ND		200	25	ug/L			04/18/19 14:31	100
Trichloroethene	ND		200	25	ug/L			04/18/19 14:31	100
Trichlorofluoromethane	ND		500	25	ug/L			04/18/19 14:31	100
Vinyl chloride	ND		500	25	ug/L			04/18/19 14:31	100

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-G-20190405

Lab Sample ID: 440-238127-6

Date Collected: 04/05/19 11:15
Date Received: 04/06/19 09:45

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		04/18/19 14:31	100
4-Bromofluorobenzene (Surr)	92		80 - 120		04/18/19 14:31	100
Dibromofluoromethane (Surr)	121		76 - 132		04/18/19 14:31	100
Toluene-d8 (Surr)	97		80 - 128		04/18/19 14:31	100

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**17000**		2000	250	ug/L			04/18/19 14:58	1000
Chlorobenzene	**29000**		2000	250	ug/L			04/18/19 14:58	1000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		70 - 130		04/18/19 14:58	1000
4-Bromofluorobenzene (Surr)	91		80 - 120		04/18/19 14:58	1000
Dibromofluoromethane (Surr)	124		76 - 132		04/18/19 14:58	1000
Toluene-d8 (Surr)	101		80 - 128		04/18/19 14:58	1000

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.097	0.019	ug/L		04/09/19 06:08	04/11/19 20:32	1
2,4'-DDE	ND		0.097	0.019	ug/L		04/09/19 06:08	04/11/19 20:32	1
2,4'-DDT	ND		0.097	0.019	ug/L		04/09/19 06:08	04/11/19 20:32	1
4,4'-DDD	ND		0.097	0.0039	ug/L		04/09/19 06:08	04/11/19 20:32	1
4,4'-DDE	ND		0.097	0.0029	ug/L		04/09/19 06:08	04/11/19 20:32	1
4,4'-DDT	ND		0.097	0.0039	ug/L		04/09/19 06:08	04/11/19 20:32	1
Aldrin	ND		0.0049	0.0015	ug/L		04/09/19 06:08	04/11/19 20:32	1
Chlordane	ND		0.097	0.078	ug/L		04/09/19 06:08	04/11/19 20:32	1
Dieldrin	**0.019**		0.0049	0.0019	ug/L		04/09/19 06:08	04/11/19 20:32	1
Endosulfan I	ND		0.097	0.0029	ug/L		04/09/19 06:08	04/11/19 20:32	1
Endosulfan II	ND		0.097	0.0019	ug/L		04/09/19 06:08	04/11/19 20:32	1
Endosulfan sulfate	ND		0.19	0.0029	ug/L		04/09/19 06:08	04/11/19 20:32	1
Endrin	ND		0.097	0.0019	ug/L		04/09/19 06:08	04/11/19 20:32	1
Endrin aldehyde	ND		0.097	0.0019	ug/L		04/09/19 06:08	04/11/19 20:32	1
Endrin ketone	ND		0.097	0.0068	ug/L		04/09/19 06:08	04/11/19 20:32	1
gamma-BHC (Lindane)	**0.12**		0.097	0.0029	ug/L		04/09/19 06:08	04/11/19 20:32	1
Heptachlor	ND		0.0097	0.0029	ug/L		04/09/19 06:08	04/11/19 20:32	1
Heptachlor epoxide	ND		0.0049	0.0024	ug/L		04/09/19 06:08	04/11/19 20:32	1
Methoxychlor	**0.0096**	**J**	0.097	0.0034	ug/L		04/09/19 06:08	04/11/19 20:32	1
Toxaphene	ND		4.9	0.24	ug/L		04/09/19 06:08	04/11/19 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	58		28 - 108	04/09/19 06:08	04/11/19 20:32	1
Tetrachloro-m-xylene	49		10 - 123	04/09/19 06:08	04/11/19 20:32	1

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	**2.0**		1.9	0.034	ug/L		04/09/19 06:08	04/10/19 17:35	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	71		28 - 108	04/09/19 06:08	04/10/19 17:35	10
Tetrachloro-m-xylene	81		10 - 123	04/09/19 06:08	04/10/19 17:35	10

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-G-20190405

Lab Sample ID: 440-238127-6
Date Collected: 04/05/19 11:15
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8081A - Organochlorine Pesticides (GC) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	**23**		0.24	0.12	ug/L		04/09/19 06:08	04/10/19 18:00	50
beta-BHC	**40**		0.49	0.19	ug/L		04/09/19 06:08	04/10/19 18:00	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*105*		*28 - 108*	*04/09/19 06:08*	*04/10/19 18:00*	*50*
Tetrachloro-m-xylene	*111*		*10 - 123*	*04/09/19 06:08*	*04/10/19 18:00*	*50*

Client Sample ID: WELL-D2-20190405

Lab Sample ID: 440-238127-7
Date Collected: 04/05/19 09:45
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		25	1.3	ug/L			04/18/19 15:25	5
1,1,1-Trichloroethane	ND	*	10	1.3	ug/L			04/18/19 15:25	5
1,1,2,2-Tetrachloroethane	ND		10	1.3	ug/L			04/18/19 15:25	5
1,1,2-Trichloroethane	ND		10	1.3	ug/L			04/18/19 15:25	5
1,1-Dichloroethane	**5.2**	**J**	10	1.3	ug/L			04/18/19 15:25	5
1,1-Dichloroethene	ND		25	1.3	ug/L			04/18/19 15:25	5
1,1-Dichloropropene	ND		10	1.3	ug/L			04/18/19 15:25	5
1,2,3-Trichlorobenzene	**12**	**J**	25	2.0	ug/L			04/18/19 15:25	5
1,2,3-Trichloropropane	ND		50	1.3	ug/L			04/18/19 15:25	5
1,2,4-Trichlorobenzene	**48**		25	2.0	ug/L			04/18/19 15:25	5
1,2,4-Trimethylbenzene	ND		10	1.3	ug/L			04/18/19 15:25	5
1,2-Dibromo-3-Chloropropane	ND		25	2.5	ug/L			04/18/19 15:25	5
1,2-Dibromoethane (EDB)	ND		10	1.3	ug/L			04/18/19 15:25	5
1,2-Dichlorobenzene	**84**		10	1.3	ug/L			04/18/19 15:25	5
1,2-Dichloroethane	**3.1**	**J**	10	1.3	ug/L			04/18/19 15:25	5
1,2-Dichloropropane	**5.0**	**J**	10	1.3	ug/L			04/18/19 15:25	5
1,3,5-Trimethylbenzene	ND		10	1.3	ug/L			04/18/19 15:25	5
1,3-Dichlorobenzene	**5.2**	**J**	10	1.3	ug/L			04/18/19 15:25	5
1,3-Dichloropropane	ND		10	1.3	ug/L			04/18/19 15:25	5
1,4-Dichlorobenzene	**120**		10	1.3	ug/L			04/18/19 15:25	5
2,2-Dichloropropane	ND		10	2.0	ug/L			04/18/19 15:25	5
2-Chlorotoluene	ND		25	1.3	ug/L			04/18/19 15:25	5
4-Chlorotoluene	ND		25	1.3	ug/L			04/18/19 15:25	5
Benzene	**12**		10	1.3	ug/L			04/18/19 15:25	5
Bromobenzene	ND		25	1.3	ug/L			04/18/19 15:25	5
Bromochloromethane	ND		25	1.3	ug/L			04/18/19 15:25	5
Bromodichloromethane	ND		10	1.3	ug/L			04/18/19 15:25	5
Bromoform	ND		25	2.0	ug/L			04/18/19 15:25	5
Bromomethane	ND		25	1.3	ug/L			04/18/19 15:25	5
Carbon tetrachloride	ND		5.0	1.3	ug/L			04/18/19 15:25	5
Chloroethane	ND		25	2.0	ug/L			04/18/19 15:25	5
Chloroform	ND		10	1.3	ug/L			04/18/19 15:25	5
Chloromethane	ND		25	1.3	ug/L			04/18/19 15:25	5
cis-1,2-Dichloroethene	ND		10	1.3	ug/L			04/18/19 15:25	5
cis-1,3-Dichloropropene	ND		10	1.3	ug/L			04/18/19 15:25	5
Dibromochloromethane	ND		10	1.3	ug/L			04/18/19 15:25	5
Dibromomethane	ND		10	1.3	ug/L			04/18/19 15:25	5

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-D2-20190405

Lab Sample ID: 440-238127-7

Date Collected: 04/05/19 09:45
Date Received: 04/06/19 09:45

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		25	1.3	ug/L			04/18/19 15:25	5
Dimethyl disulfide	**5.3**	**J**	10	5.0	ug/L			04/18/19 15:25	5
Ethylbenzene	ND		10	1.3	ug/L			04/18/19 15:25	5
Hexachlorobutadiene	ND		25	1.3	ug/L			04/18/19 15:25	5
Isopropylbenzene	ND		10	1.3	ug/L			04/18/19 15:25	5
m,p-Xylene	ND		10	2.5	ug/L			04/18/19 15:25	5
Methylene Chloride	ND		10	5.5	ug/L			04/18/19 15:25	5
Naphthalene	ND		25	2.0	ug/L			04/18/19 15:25	5
n-Butylbenzene	ND		25	2.0	ug/L			04/18/19 15:25	5
N-Propylbenzene	ND		10	1.3	ug/L			04/18/19 15:25	5
o-Xylene	ND		10	1.3	ug/L			04/18/19 15:25	5
p-Isopropyltoluene	ND		10	1.3	ug/L			04/18/19 15:25	5
sec-Butylbenzene	ND		25	1.3	ug/L			04/18/19 15:25	5
Styrene	ND		10	1.3	ug/L			04/18/19 15:25	5
tert-Butylbenzene	ND		25	1.3	ug/L			04/18/19 15:25	5
Tetrachloroethene	ND		10	1.3	ug/L			04/18/19 15:25	5
Toluene	ND		10	1.3	ug/L			04/18/19 15:25	5
trans-1,2-Dichloroethene	ND		10	1.3	ug/L			04/18/19 15:25	5
trans-1,3-Dichloropropene	ND		10	1.3	ug/L			04/18/19 15:25	5
Trichloroethene	**24**		10	1.3	ug/L			04/18/19 15:25	5
Trichlorofluoromethane	ND		25	1.3	ug/L			04/18/19 15:25	5
Vinyl chloride	ND		25	1.3	ug/L			04/18/19 15:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*125*		*70 - 130*		*04/18/19 15:25*	*5*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/18/19 15:25*	*5*
Dibromofluoromethane (Surr)	*134*	*X*	*76 - 132*		*04/18/19 15:25*	*5*
Toluene-d8 (Surr)	*95*		*80 - 128*		*04/18/19 15:25*	*5*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**1600**		100	13	ug/L			04/19/19 10:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*		*04/19/19 10:35*	*50*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*04/19/19 10:35*	*50*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*04/19/19 10:35*	*50*
Toluene-d8 (Surr)	*96*		*80 - 128*		*04/19/19 10:35*	*50*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.098	0.020	ug/L		04/09/19 06:08	04/11/19 20:58	1
2,4'-DDE	ND		0.098	0.020	ug/L		04/09/19 06:08	04/11/19 20:58	1
2,4'-DDT	ND		0.098	0.020	ug/L		04/09/19 06:08	04/11/19 20:58	1
4,4'-DDD	ND		0.098	0.0039	ug/L		04/09/19 06:08	04/11/19 20:58	1
4,4'-DDE	ND		0.098	0.0029	ug/L		04/09/19 06:08	04/11/19 20:58	1
4,4'-DDT	ND		0.098	0.0039	ug/L		04/09/19 06:08	04/11/19 20:58	1
Aldrin	ND		0.0049	0.0015	ug/L		04/09/19 06:08	04/11/19 20:58	1
Chlordane	ND		0.098	0.078	ug/L		04/09/19 06:08	04/11/19 20:58	1
Dieldrin	ND		0.0049	0.0020	ug/L		04/09/19 06:08	04/11/19 20:58	1

Client Sample ID: WELL-D2-20190405

Lab Sample ID: 440-238127-7

Date Collected: 04/05/19 09:45
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	ND		0.098	0.0029	ug/L		04/09/19 06:08	04/11/19 20:58	1
Endosulfan II	ND		0.098	0.0020	ug/L		04/09/19 06:08	04/11/19 20:58	1
Endosulfan sulfate	ND		0.20	0.0029	ug/L		04/09/19 06:08	04/11/19 20:58	1
Endrin	ND		0.098	0.0020	ug/L		04/09/19 06:08	04/11/19 20:58	1
Endrin aldehyde	ND		0.098	0.0020	ug/L		04/09/19 06:08	04/11/19 20:58	1
Endrin ketone	ND		0.098	0.0068	ug/L		04/09/19 06:08	04/11/19 20:58	1
gamma-BHC (Lindane)	**0.0062**	**J p**	0.098	0.0029	ug/L		04/09/19 06:08	04/11/19 20:58	1
Heptachlor	ND		0.0098	0.0029	ug/L		04/09/19 06:08	04/11/19 20:58	1
Heptachlor epoxide	ND		0.0049	0.0024	ug/L		04/09/19 06:08	04/11/19 20:58	1
Methoxychlor	ND		0.098	0.0034	ug/L		04/09/19 06:08	04/11/19 20:58	1
Toxaphene	ND		4.9	0.24	ug/L		04/09/19 06:08	04/11/19 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*28 - 108*	*04/09/19 06:08*	*04/11/19 20:58*	*1*
Tetrachloro-m-xylene	*50*		*10 - 123*	*04/09/19 06:08*	*04/11/19 20:58*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	**1.7**		0.98	0.017	ug/L		04/09/19 06:08	04/13/19 00:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*51*		*28 - 108*	*04/09/19 06:08*	*04/13/19 00:24*	*5*
Tetrachloro-m-xylene	*81*		*10 - 123*	*04/09/19 06:08*	*04/13/19 00:24*	*5*

Method: 8081A - Organochlorine Pesticides (GC) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	**3.4**		0.098	0.049	ug/L		04/09/19 06:08	04/10/19 18:26	20
beta-BHC	**11**		0.20	0.078	ug/L		04/09/19 06:08	04/10/19 18:26	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*28 - 108*	*04/09/19 06:08*	*04/10/19 18:26*	*20*
Tetrachloro-m-xylene	*62*		*10 - 123*	*04/09/19 06:08*	*04/10/19 18:26*	*20*

Client Sample ID: WELL-H2-20190405

Lab Sample ID: 440-238127-8

Date Collected: 04/05/19 12:25
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		500	25	ug/L			04/18/19 16:19	100
1,1,1-Trichloroethane	ND	*	200	25	ug/L			04/18/19 16:19	100
1,1,2,2-Tetrachloroethane	ND		200	25	ug/L			04/18/19 16:19	100
1,1,2-Trichloroethane	ND		200	25	ug/L			04/18/19 16:19	100
1,1-Dichloroethane	**99**	**J**	200	25	ug/L			04/18/19 16:19	100
1,1-Dichloroethene	ND		500	25	ug/L			04/18/19 16:19	100
1,1-Dichloropropene	ND		200	25	ug/L			04/18/19 16:19	100
1,2,3-Trichlorobenzene	ND		500	40	ug/L			04/18/19 16:19	100
1,2,3-Trichloropropane	ND		1000	25	ug/L			04/18/19 16:19	100
1,2,4-Trichlorobenzene	**200**	**J**	500	40	ug/L			04/18/19 16:19	100
1,2,4-Trimethylbenzene	ND		200	25	ug/L			04/18/19 16:19	100
1,2-Dibromo-3-Chloropropane	ND		500	50	ug/L			04/18/19 16:19	100

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-H2-20190405

Lab Sample ID: 440-238127-8

Date Collected: 04/05/19 12:25
Date Received: 04/06/19 09:45

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		200	25	ug/L			04/18/19 16:19	100
1,2-Dichlorobenzene	**1100**		200	25	ug/L			04/18/19 16:19	100
1,2-Dichloroethane	ND		200	25	ug/L			04/18/19 16:19	100
1,2-Dichloropropane	ND		200	25	ug/L			04/18/19 16:19	100
1,3,5-Trimethylbenzene	ND		200	25	ug/L			04/18/19 16:19	100
1,3-Dichlorobenzene	**61**	**J**	200	25	ug/L			04/18/19 16:19	100
1,3-Dichloropropane	ND		200	25	ug/L			04/18/19 16:19	100
1,4-Dichlorobenzene	**1800**		200	25	ug/L			04/18/19 16:19	100
2,2-Dichloropropane	ND		200	40	ug/L			04/18/19 16:19	100
2-Chlorotoluene	ND		500	25	ug/L			04/18/19 16:19	100
4-Chlorotoluene	ND		500	25	ug/L			04/18/19 16:19	100
Bromobenzene	ND		500	25	ug/L			04/18/19 16:19	100
Bromochloromethane	ND		500	25	ug/L			04/18/19 16:19	100
Bromodichloromethane	ND		200	25	ug/L			04/18/19 16:19	100
Bromoform	ND		500	40	ug/L			04/18/19 16:19	100
Bromomethane	ND		500	25	ug/L			04/18/19 16:19	100
Carbon tetrachloride	ND		100	25	ug/L			04/18/19 16:19	100
Chloroethane	ND		500	40	ug/L			04/18/19 16:19	100
Chloroform	ND		200	25	ug/L			04/18/19 16:19	100
Chloromethane	ND		500	25	ug/L			04/18/19 16:19	100
cis-1,2-Dichloroethene	ND		200	25	ug/L			04/18/19 16:19	100
cis-1,3-Dichloropropene	ND		200	25	ug/L			04/18/19 16:19	100
Dibromochloromethane	ND		200	25	ug/L			04/18/19 16:19	100
Dibromomethane	ND		200	25	ug/L			04/18/19 16:19	100
Dichlorodifluoromethane	ND		500	25	ug/L			04/18/19 16:19	100
Dimethyl disulfide	ND		200	100	ug/L			04/18/19 16:19	100
Ethylbenzene	ND		200	25	ug/L			04/18/19 16:19	100
Hexachlorobutadiene	ND		500	25	ug/L			04/18/19 16:19	100
Isopropylbenzene	ND		200	25	ug/L			04/18/19 16:19	100
m,p-Xylene	ND		200	50	ug/L			04/18/19 16:19	100
Methylene Chloride	ND		200	110	ug/L			04/18/19 16:19	100
Naphthalene	ND		500	40	ug/L			04/18/19 16:19	100
n-Butylbenzene	ND		500	40	ug/L			04/18/19 16:19	100
N-Propylbenzene	ND		200	25	ug/L			04/18/19 16:19	100
o-Xylene	ND		200	25	ug/L			04/18/19 16:19	100
p-Isopropyltoluene	ND		200	25	ug/L			04/18/19 16:19	100
sec-Butylbenzene	ND		500	25	ug/L			04/18/19 16:19	100
Styrene	ND		200	25	ug/L			04/18/19 16:19	100
tert-Butylbenzene	ND		500	25	ug/L			04/18/19 16:19	100
Tetrachloroethene	ND		200	25	ug/L			04/18/19 16:19	100
Toluene	ND		200	25	ug/L			04/18/19 16:19	100
trans-1,2-Dichloroethene	ND		200	25	ug/L			04/18/19 16:19	100
trans-1,3-Dichloropropene	ND		200	25	ug/L			04/18/19 16:19	100
Trichloroethene	**49**	**J**	200	25	ug/L			04/18/19 16:19	100
Trichlorofluoromethane	ND		500	25	ug/L			04/18/19 16:19	100
Vinyl chloride	ND		500	25	ug/L			04/18/19 16:19	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*04/18/19 16:19*	*100*
4-Bromofluorobenzene (Surr)	*88*		*80 - 120*		*04/18/19 16:19*	*100*

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-H2-20190405

Lab Sample ID: 440-238127-8

Date Collected: 04/05/19 12:25
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	118		76 - 132		04/18/19 16:19	100
Toluene-d8 (Surr)	98		80 - 128		04/18/19 16:19	100

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**23000**		2000	250	ug/L			04/18/19 16:46	1000
Chlorobenzene	**37000**		2000	250	ug/L			04/18/19 16:46	1000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		70 - 130		04/18/19 16:46	1000
4-Bromofluorobenzene (Surr)	84		80 - 120		04/18/19 16:46	1000
Dibromofluoromethane (Surr)	121		76 - 132		04/18/19 16:46	1000
Toluene-d8 (Surr)	102		80 - 128		04/18/19 16:46	1000

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/09/19 06:08	04/11/19 21:24	1
2,4'-DDE	ND		0.10	0.020	ug/L		04/09/19 06:08	04/11/19 21:24	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/09/19 06:08	04/11/19 21:24	1
4,4'-DDD	ND		0.10	0.0040	ug/L		04/09/19 06:08	04/11/19 21:24	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/09/19 06:08	04/11/19 21:24	1
4,4'-DDT	ND		0.10	0.0040	ug/L		04/09/19 06:08	04/11/19 21:24	1
Aldrin	ND		0.0051	0.0015	ug/L		04/09/19 06:08	04/11/19 21:24	1
Chlordane	ND		0.10	0.081	ug/L		04/09/19 06:08	04/11/19 21:24	1
Dieldrin	**0.28**		0.0051	0.0020	ug/L		04/09/19 06:08	04/11/19 21:24	1
Endosulfan I	**0.077**	**J**	0.10	0.0030	ug/L		04/09/19 06:08	04/11/19 21:24	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/09/19 06:08	04/11/19 21:24	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/09/19 06:08	04/11/19 21:24	1
Endrin	ND		0.10	0.0020	ug/L		04/09/19 06:08	04/11/19 21:24	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/09/19 06:08	04/11/19 21:24	1
Endrin ketone	ND		0.10	0.0071	ug/L		04/09/19 06:08	04/11/19 21:24	1
gamma-BHC (Lindane)	**0.66**		0.10	0.0030	ug/L		04/09/19 06:08	04/11/19 21:24	1
Heptachlor	ND		0.010	0.0030	ug/L		04/09/19 06:08	04/11/19 21:24	1
Heptachlor epoxide	ND		0.0051	0.0025	ug/L		04/09/19 06:08	04/11/19 21:24	1
Methoxychlor	ND		0.10	0.0035	ug/L		04/09/19 06:08	04/11/19 21:24	1
Toxaphene	ND		5.1	0.25	ug/L		04/09/19 06:08	04/11/19 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	88		28 - 108	04/09/19 06:08	04/11/19 21:24	1
Tetrachloro-m-xylene	97		10 - 123	04/09/19 06:08	04/11/19 21:24	1

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	**3.1**		2.0	0.035	ug/L		04/09/19 06:08	04/09/19 19:46	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	65		28 - 108	04/09/19 06:08	04/09/19 19:46	10
Tetrachloro-m-xylene	84		10 - 123	04/09/19 06:08	04/09/19 19:46	10

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-H2-20190405

Lab Sample ID: 440-238127-8
Matrix: Water
Date Collected: 04/05/19 12:25
Date Received: 04/06/19 09:45

Method: 8081A - Organochlorine Pesticides (GC) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	**180**		2.5	1.3	ug/L		04/09/19 06:08	04/10/19 19:18	500
beta-BHC	**59**		5.1	2.0	ug/L		04/09/19 06:08	04/10/19 19:18	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*94*		*28 - 108*	*04/09/19 06:08*	*04/10/19 19:18*	*500*
Tetrachloro-m-xylene	*197*	*X*	*10 - 123*	*04/09/19 06:08*	*04/10/19 19:18*	*500*

Client Sample ID: WELL-I-20190405

Lab Sample ID: 440-238127-9
Matrix: Water
Date Collected: 04/05/19 12:50
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		100	5.0	ug/L			04/18/19 17:14	20
1,1,1-Trichloroethane	ND	*	40	5.0	ug/L			04/18/19 17:14	20
1,1,2,2-Tetrachloroethane	ND		40	5.0	ug/L			04/18/19 17:14	20
1,1,2-Trichloroethane	ND		40	5.0	ug/L			04/18/19 17:14	20
1,1-Dichloroethane	**39**	**J**	40	5.0	ug/L			04/18/19 17:14	20
1,1-Dichloroethene	ND		100	5.0	ug/L			04/18/19 17:14	20
1,1-Dichloropropene	ND		40	5.0	ug/L			04/18/19 17:14	20
1,2,3-Trichlorobenzene	ND		100	8.0	ug/L			04/18/19 17:14	20
1,2,3-Trichloropropane	ND		200	5.0	ug/L			04/18/19 17:14	20
1,2,4-Trichlorobenzene	**10**	**J**	100	8.0	ug/L			04/18/19 17:14	20
1,2,4-Trimethylbenzene	ND		40	5.0	ug/L			04/18/19 17:14	20
1,2-Dibromo-3-Chloropropane	ND		100	10	ug/L			04/18/19 17:14	20
1,2-Dibromoethane (EDB)	ND		40	5.0	ug/L			04/18/19 17:14	20
1,2-Dichlorobenzene	**150**		40	5.0	ug/L			04/18/19 17:14	20
1,2-Dichloroethane	**13**	**J**	40	5.0	ug/L			04/18/19 17:14	20
1,2-Dichloropropane	ND		40	5.0	ug/L			04/18/19 17:14	20
1,3,5-Trimethylbenzene	ND		40	5.0	ug/L			04/18/19 17:14	20
1,3-Dichlorobenzene	**9.3**	**J**	40	5.0	ug/L			04/18/19 17:14	20
1,3-Dichloropropane	ND		40	5.0	ug/L			04/18/19 17:14	20
1,4-Dichlorobenzene	**250**		40	5.0	ug/L			04/18/19 17:14	20
2,2-Dichloropropane	ND		40	8.0	ug/L			04/18/19 17:14	20
2-Chlorotoluene	ND		100	5.0	ug/L			04/18/19 17:14	20
4-Chlorotoluene	ND		100	5.0	ug/L			04/18/19 17:14	20
Benzene	**33**	**J**	40	5.0	ug/L			04/18/19 17:14	20
Bromobenzene	ND		100	5.0	ug/L			04/18/19 17:14	20
Bromochloromethane	ND		100	5.0	ug/L			04/18/19 17:14	20
Bromodichloromethane	ND		40	5.0	ug/L			04/18/19 17:14	20
Bromoform	ND		100	8.0	ug/L			04/18/19 17:14	20
Bromomethane	ND		100	5.0	ug/L			04/18/19 17:14	20
Carbon tetrachloride	ND		20	5.0	ug/L			04/18/19 17:14	20
Chloroethane	ND		100	8.0	ug/L			04/18/19 17:14	20
Chloroform	ND		40	5.0	ug/L			04/18/19 17:14	20
Chloromethane	ND		100	5.0	ug/L			04/18/19 17:14	20
cis-1,2-Dichloroethene	ND		40	5.0	ug/L			04/18/19 17:14	20
cis-1,3-Dichloropropene	ND		40	5.0	ug/L			04/18/19 17:14	20
Dibromochloromethane	ND		40	5.0	ug/L			04/18/19 17:14	20
Dibromomethane	ND		40	5.0	ug/L			04/18/19 17:14	20

Client Sample ID: WELL-I-20190405

Lab Sample ID: 440-238127-9

Date Collected: 04/05/19 12:50
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		100	5.0	ug/L			04/18/19 17:14	20
Dimethyl disulfide	ND		40	20	ug/L			04/18/19 17:14	20
Ethylbenzene	ND		40	5.0	ug/L			04/18/19 17:14	20
Hexachlorobutadiene	ND		100	5.0	ug/L			04/18/19 17:14	20
Isopropylbenzene	ND		40	5.0	ug/L			04/18/19 17:14	20
m,p-Xylene	ND		40	10	ug/L			04/18/19 17:14	20
Methylene Chloride	ND		40	22	ug/L			04/18/19 17:14	20
Naphthalene	ND		100	8.0	ug/L			04/18/19 17:14	20
n-Butylbenzene	ND		100	8.0	ug/L			04/18/19 17:14	20
N-Propylbenzene	ND		40	5.0	ug/L			04/18/19 17:14	20
o-Xylene	ND		40	5.0	ug/L			04/18/19 17:14	20
p-Isopropyltoluene	ND		40	5.0	ug/L			04/18/19 17:14	20
sec-Butylbenzene	ND		100	5.0	ug/L			04/18/19 17:14	20
Styrene	ND		40	5.0	ug/L			04/18/19 17:14	20
tert-Butylbenzene	ND		100	5.0	ug/L			04/18/19 17:14	20
Tetrachloroethene	ND		40	5.0	ug/L			04/18/19 17:14	20
Toluene	ND		40	5.0	ug/L			04/18/19 17:14	20
trans-1,2-Dichloroethene	ND		40	5.0	ug/L			04/18/19 17:14	20
trans-1,3-Dichloropropene	ND		40	5.0	ug/L			04/18/19 17:14	20
Trichloroethene	**56**		40	5.0	ug/L			04/18/19 17:14	20
Trichlorofluoromethane	ND		100	5.0	ug/L			04/18/19 17:14	20
Vinyl chloride	ND		100	5.0	ug/L			04/18/19 17:14	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*70 - 130*		*04/18/19 17:14*	*20*
4-Bromofluorobenzene (Surr)	*86*		*80 - 120*		*04/18/19 17:14*	*20*
Dibromofluoromethane (Surr)	*131*		*76 - 132*		*04/18/19 17:14*	*20*
Toluene-d8 (Surr)	*97*		*80 - 128*		*04/18/19 17:14*	*20*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**4000**		400	50	ug/L			04/19/19 12:56	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 130*		*04/19/19 12:56*	*200*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*04/19/19 12:56*	*200*
Dibromofluoromethane (Surr)	*114*		*76 - 132*		*04/19/19 12:56*	*200*
Toluene-d8 (Surr)	*95*		*80 - 128*		*04/19/19 12:56*	*200*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.098	0.020	ug/L		04/09/19 06:08	04/11/19 21:49	1
2,4'-DDE	ND		0.098	0.020	ug/L		04/09/19 06:08	04/11/19 21:49	1
2,4'-DDT	ND		0.098	0.020	ug/L		04/09/19 06:08	04/11/19 21:49	1
4,4'-DDD	ND		0.098	0.0039	ug/L		04/09/19 06:08	04/11/19 21:49	1
4,4'-DDE	ND		0.098	0.0029	ug/L		04/09/19 06:08	04/11/19 21:49	1
4,4'-DDT	ND		0.098	0.0039	ug/L		04/09/19 06:08	04/11/19 21:49	1
Aldrin	ND		0.0049	0.0015	ug/L		04/09/19 06:08	04/11/19 21:49	1
beta-BHC	**0.50**		0.0098	0.0039	ug/L		04/09/19 06:08	04/11/19 21:49	1
Chlordane	ND		0.098	0.078	ug/L		04/09/19 06:08	04/11/19 21:49	1

Client Sample ID: WELL-I-20190405

Lab Sample ID: 440-238127-9

Date Collected: 04/05/19 12:50
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	ND		0.0049	0.0020	ug/L		04/09/19 06:08	04/11/19 21:49	1
Endosulfan I	ND		0.098	0.0029	ug/L		04/09/19 06:08	04/11/19 21:49	1
Endosulfan II	ND		0.098	0.0020	ug/L		04/09/19 06:08	04/11/19 21:49	1
Endosulfan sulfate	ND		0.20	0.0029	ug/L		04/09/19 06:08	04/11/19 21:49	1
Endrin	ND		0.098	0.0020	ug/L		04/09/19 06:08	04/11/19 21:49	1
Endrin aldehyde	ND		0.098	0.0020	ug/L		04/09/19 06:08	04/11/19 21:49	1
Endrin ketone	ND		0.098	0.0069	ug/L		04/09/19 06:08	04/11/19 21:49	1
gamma-BHC (Lindane)	ND		0.098	0.0029	ug/L		04/09/19 06:08	04/11/19 21:49	1
Heptachlor	ND		0.0098	0.0029	ug/L		04/09/19 06:08	04/11/19 21:49	1
Heptachlor epoxide	ND		0.0049	0.0025	ug/L		04/09/19 06:08	04/11/19 21:49	1
Methoxychlor	**0.0042**	**J**	0.098	0.0034	ug/L		04/09/19 06:08	04/11/19 21:49	1
Toxaphene	ND		4.9	0.25	ug/L		04/09/19 06:08	04/11/19 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*28 - 108*	*04/09/19 06:08*	*04/11/19 21:49*	*1*
Tetrachloro-m-xylene	*51*		*10 - 123*	*04/09/19 06:08*	*04/11/19 21:49*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	**0.96**		0.025	0.012	ug/L		04/09/19 06:08	04/11/19 14:29	5
delta-BHC	**1.5**		0.98	0.017	ug/L		04/09/19 06:08	04/11/19 14:29	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*56*		*28 - 108*	*04/09/19 06:08*	*04/11/19 14:29*	*5*
Tetrachloro-m-xylene	*55*		*10 - 123*	*04/09/19 06:08*	*04/11/19 14:29*	*5*

Client Sample ID: WELL-J-20190405

Lab Sample ID: 440-238127-10

Date Collected: 04/05/19 09:05
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20	1.0	ug/L			04/18/19 18:08	4
1,1,1-Trichloroethane	ND	*	8.0	1.0	ug/L			04/18/19 18:08	4
1,1,2,2-Tetrachloroethane	ND		8.0	1.0	ug/L			04/18/19 18:08	4
1,1,2-Trichloroethane	ND		8.0	1.0	ug/L			04/18/19 18:08	4
1,1-Dichloroethane	**6.4**	**J**	8.0	1.0	ug/L			04/18/19 18:08	4
1,1-Dichloroethene	**1.4**	**J**	20	1.0	ug/L			04/18/19 18:08	4
1,1-Dichloropropene	ND		8.0	1.0	ug/L			04/18/19 18:08	4
1,2,3-Trichlorobenzene	**16**	**J**	20	1.6	ug/L			04/18/19 18:08	4
1,2,3-Trichloropropane	ND		40	1.0	ug/L			04/18/19 18:08	4
1,2,4-Trichlorobenzene	**67**		20	1.6	ug/L			04/18/19 18:08	4
1,2,4-Trimethylbenzene	ND		8.0	1.0	ug/L			04/18/19 18:08	4
1,2-Dibromo-3-Chloropropane	ND		20	2.0	ug/L			04/18/19 18:08	4
1,2-Dibromoethane (EDB)	ND		8.0	1.0	ug/L			04/18/19 18:08	4
1,2-Dichloroethane	**2.9**	**J**	8.0	1.0	ug/L			04/18/19 18:08	4
1,2-Dichloropropane	**3.6**	**J**	8.0	1.0	ug/L			04/18/19 18:08	4
1,3,5-Trimethylbenzene	ND		8.0	1.0	ug/L			04/18/19 18:08	4
1,3-Dichlorobenzene	**16**		8.0	1.0	ug/L			04/18/19 18:08	4
1,3-Dichloropropane	ND		8.0	1.0	ug/L			04/18/19 18:08	4
2,2-Dichloropropane	ND		8.0	1.6	ug/L			04/18/19 18:08	4

Client Sample ID: WELL-J-20190405

Lab Sample ID: 440-238127-10

Date Collected: 04/05/19 09:05
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		20	1.0	ug/L			04/18/19 18:08	4
4-Chlorotoluene	ND		20	1.0	ug/L			04/18/19 18:08	4
Benzene	**11**		8.0	1.0	ug/L			04/18/19 18:08	4
Bromobenzene	ND		20	1.0	ug/L			04/18/19 18:08	4
Bromochloromethane	ND		20	1.0	ug/L			04/18/19 18:08	4
Bromodichloromethane	ND		8.0	1.0	ug/L			04/18/19 18:08	4
Bromoform	ND		20	1.6	ug/L			04/18/19 18:08	4
Bromomethane	ND		20	1.0	ug/L			04/18/19 18:08	4
Carbon tetrachloride	ND		4.0	1.0	ug/L			04/18/19 18:08	4
Chloroethane	ND		20	1.6	ug/L			04/18/19 18:08	4
Chloroform	ND		8.0	1.0	ug/L			04/18/19 18:08	4
Chloromethane	ND		20	1.0	ug/L			04/18/19 18:08	4
cis-1,2-Dichloroethene	**1.2**	**J**	8.0	1.0	ug/L			04/18/19 18:08	4
cis-1,3-Dichloropropene	ND		8.0	1.0	ug/L			04/18/19 18:08	4
Dibromochloromethane	ND		8.0	1.0	ug/L			04/18/19 18:08	4
Dibromomethane	ND		8.0	1.0	ug/L			04/18/19 18:08	4
Dichlorodifluoromethane	ND		20	1.0	ug/L			04/18/19 18:08	4
Dimethyl disulfide	ND		8.0	4.0	ug/L			04/18/19 18:08	4
Ethylbenzene	ND		8.0	1.0	ug/L			04/18/19 18:08	4
Hexachlorobutadiene	ND		20	1.0	ug/L			04/18/19 18:08	4
Isopropylbenzene	ND		8.0	1.0	ug/L			04/18/19 18:08	4
m,p-Xylene	ND		8.0	2.0	ug/L			04/18/19 18:08	4
Methylene Chloride	ND		8.0	4.4	ug/L			04/18/19 18:08	4
Naphthalene	ND		20	1.6	ug/L			04/18/19 18:08	4
n-Butylbenzene	ND		20	1.6	ug/L			04/18/19 18:08	4
N-Propylbenzene	ND		8.0	1.0	ug/L			04/18/19 18:08	4
o-Xylene	ND		8.0	1.0	ug/L			04/18/19 18:08	4
p-Isopropyltoluene	ND		8.0	1.0	ug/L			04/18/19 18:08	4
sec-Butylbenzene	ND		20	1.0	ug/L			04/18/19 18:08	4
Styrene	ND		8.0	1.0	ug/L			04/18/19 18:08	4
tert-Butylbenzene	ND		20	1.0	ug/L			04/18/19 18:08	4
Tetrachloroethene	ND		8.0	1.0	ug/L			04/18/19 18:08	4
Toluene	ND		8.0	1.0	ug/L			04/18/19 18:08	4
trans-1,2-Dichloroethene	ND		8.0	1.0	ug/L			04/18/19 18:08	4
trans-1,3-Dichloropropene	ND		8.0	1.0	ug/L			04/18/19 18:08	4
Trichloroethene	**62**		8.0	1.0	ug/L			04/18/19 18:08	4
Trichlorofluoromethane	ND		20	1.0	ug/L			04/18/19 18:08	4
Vinyl chloride	ND		20	1.0	ug/L			04/18/19 18:08	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 130*		*04/18/19 18:08*	*4*
4-Bromofluorobenzene (Surr)	*86*		*80 - 120*		*04/18/19 18:08*	*4*
Dibromofluoromethane (Surr)	*118*		*76 - 132*		*04/18/19 18:08*	*4*
Toluene-d8 (Surr)	*98*		*80 - 128*		*04/18/19 18:08*	*4*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	**320**		100	13	ug/L			04/19/19 13:24	50
1,4-Dichlorobenzene	**440**		100	13	ug/L			04/19/19 13:24	50
Chlorobenzene	**1400**		100	13	ug/L			04/19/19 13:24	50

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-J-20190405

Lab Sample ID: 440-238127-10

Date Collected: 04/05/19 09:05
Date Received: 04/06/19 09:45

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		70 - 130		04/19/19 13:24	50
4-Bromofluorobenzene (Surr)	100		80 - 120		04/19/19 13:24	50
Dibromofluoromethane (Surr)	115		76 - 132		04/19/19 13:24	50
Toluene-d8 (Surr)	95		80 - 128		04/19/19 13:24	50

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDE	ND		0.10	0.020	ug/L		04/09/19 06:08	04/11/19 22:15	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/09/19 06:08	04/11/19 22:15	1
4,4'-DDD	ND		0.10	0.0040	ug/L		04/09/19 06:08	04/11/19 22:15	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/09/19 06:08	04/11/19 22:15	1
4,4'-DDT	ND		0.10	0.0040	ug/L		04/09/19 06:08	04/11/19 22:15	1
Aldrin	ND		0.0050	0.0015	ug/L		04/09/19 06:08	04/11/19 22:15	1
Chlordane	ND		0.10	0.080	ug/L		04/09/19 06:08	04/11/19 22:15	1
Dieldrin	ND		0.0050	0.0020	ug/L		04/09/19 06:08	04/11/19 22:15	1
Endosulfan I	**0.046**	**J p**	0.10	0.0030	ug/L		04/09/19 06:08	04/11/19 22:15	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/09/19 06:08	04/11/19 22:15	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/09/19 06:08	04/11/19 22:15	1
Endrin	ND		0.10	0.0020	ug/L		04/09/19 06:08	04/11/19 22:15	1
Endrin aldehyde	**0.0021**	**J**	0.10	0.0020	ug/L		04/09/19 06:08	04/11/19 22:15	1
Endrin ketone	ND		0.10	0.0070	ug/L		04/09/19 06:08	04/11/19 22:15	1
gamma-BHC (Lindane)	**0.035**	**J p**	0.10	0.0030	ug/L		04/09/19 06:08	04/11/19 22:15	1
Heptachlor	ND		0.010	0.0030	ug/L		04/09/19 06:08	04/11/19 22:15	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/09/19 06:08	04/11/19 22:15	1
Methoxychlor	ND		0.10	0.0035	ug/L		04/09/19 06:08	04/11/19 22:15	1
Toxaphene	ND		5.0	0.25	ug/L		04/09/19 06:08	04/11/19 22:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	60		28 - 108	04/09/19 06:08	04/11/19 22:15	1
Tetrachloro-m-xylene	43		10 - 123	04/09/19 06:08	04/11/19 22:15	1

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.50	0.10	ug/L		04/09/19 06:08	04/10/19 20:09	5
alpha-BHC	**3.6**		0.025	0.013	ug/L		04/09/19 06:08	04/10/19 20:09	5
delta-BHC	**1.5**		1.0	0.018	ug/L		04/09/19 06:08	04/10/19 20:09	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	63		28 - 108	04/09/19 06:08	04/10/19 20:09	5
Tetrachloro-m-xylene	47		10 - 123	04/09/19 06:08	04/10/19 20:09	5

Method: 8081A - Organochlorine Pesticides (GC) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	**13**		0.50	0.20	ug/L		04/09/19 06:08	04/10/19 20:35	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	89		28 - 108	04/09/19 06:08	04/10/19 20:35	50
Tetrachloro-m-xylene	73		10 - 123	04/09/19 06:08	04/10/19 20:35	50

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-K2-20190405

Lab Sample ID: 440-238127-11

Date Collected: 04/05/19 12:35
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		250	13	ug/L			04/18/19 19:02	50
1,1,1-Trichloroethane	ND	*	100	13	ug/L			04/18/19 19:02	50
1,1,2,2-Tetrachloroethane	ND		100	13	ug/L			04/18/19 19:02	50
1,1,2-Trichloroethane	ND		100	13	ug/L			04/18/19 19:02	50
1,1-Dichloroethane	**100**		100	13	ug/L			04/18/19 19:02	50
1,1-Dichloroethene	ND		250	13	ug/L			04/18/19 19:02	50
1,1-Dichloropropene	ND		100	13	ug/L			04/18/19 19:02	50
1,2,3-Trichlorobenzene	ND		250	20	ug/L			04/18/19 19:02	50
1,2,3-Trichloropropane	ND		500	13	ug/L			04/18/19 19:02	50
1,2,4-Trichlorobenzene	**140**	**J**	250	20	ug/L			04/18/19 19:02	50
1,2,4-Trimethylbenzene	ND		100	13	ug/L			04/18/19 19:02	50
1,2-Dibromo-3-Chloropropane	ND		250	25	ug/L			04/18/19 19:02	50
1,2-Dibromoethane (EDB)	ND		100	13	ug/L			04/18/19 19:02	50
1,2-Dichlorobenzene	**780**		100	13	ug/L			04/18/19 19:02	50
1,2-Dichloroethane	**15**	**J**	100	13	ug/L			04/18/19 19:02	50
1,2-Dichloropropane	ND		100	13	ug/L			04/18/19 19:02	50
1,3,5-Trimethylbenzene	ND		100	13	ug/L			04/18/19 19:02	50
1,3-Dichlorobenzene	**40**	**J**	100	13	ug/L			04/18/19 19:02	50
1,3-Dichloropropane	ND		100	13	ug/L			04/18/19 19:02	50
1,4-Dichlorobenzene	**1300**		100	13	ug/L			04/18/19 19:02	50
2,2-Dichloropropane	ND		100	20	ug/L			04/18/19 19:02	50
2-Chlorotoluene	ND		250	13	ug/L			04/18/19 19:02	50
4-Chlorotoluene	ND		250	13	ug/L			04/18/19 19:02	50
Bromobenzene	ND		250	13	ug/L			04/18/19 19:02	50
Bromochloromethane	ND		250	13	ug/L			04/18/19 19:02	50
Bromodichloromethane	ND		100	13	ug/L			04/18/19 19:02	50
Bromoform	ND		250	20	ug/L			04/18/19 19:02	50
Bromomethane	ND		250	13	ug/L			04/18/19 19:02	50
Carbon tetrachloride	ND		50	13	ug/L			04/18/19 19:02	50
Chloroethane	ND		250	20	ug/L			04/18/19 19:02	50
Chloroform	ND		100	13	ug/L			04/18/19 19:02	50
Chloromethane	ND		250	13	ug/L			04/18/19 19:02	50
cis-1,2-Dichloroethene	ND		100	13	ug/L			04/18/19 19:02	50
cis-1,3-Dichloropropene	ND		100	13	ug/L			04/18/19 19:02	50
Dibromochloromethane	ND		100	13	ug/L			04/18/19 19:02	50
Dibromomethane	ND		100	13	ug/L			04/18/19 19:02	50
Dichlorodifluoromethane	ND		250	13	ug/L			04/18/19 19:02	50
Dimethyl disulfide	ND		100	50	ug/L			04/18/19 19:02	50
Ethylbenzene	ND		100	13	ug/L			04/18/19 19:02	50
Hexachlorobutadiene	ND		250	13	ug/L			04/18/19 19:02	50
Isopropylbenzene	ND		100	13	ug/L			04/18/19 19:02	50
m,p-Xylene	ND		100	25	ug/L			04/18/19 19:02	50
Methylene Chloride	ND		100	55	ug/L			04/18/19 19:02	50
Naphthalene	ND		250	20	ug/L			04/18/19 19:02	50
n-Butylbenzene	ND		250	20	ug/L			04/18/19 19:02	50
N-Propylbenzene	ND		100	13	ug/L			04/18/19 19:02	50
o-Xylene	ND		100	13	ug/L			04/18/19 19:02	50
p-Isopropyltoluene	ND		100	13	ug/L			04/18/19 19:02	50
sec-Butylbenzene	ND		250	13	ug/L			04/18/19 19:02	50

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-K2-20190405

Lab Sample ID: 440-238127-11

Date Collected: 04/05/19 12:35
Date Received: 04/06/19 09:45

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		100	13	ug/L			04/18/19 19:02	50
tert-Butylbenzene	ND		250	13	ug/L			04/18/19 19:02	50
Tetrachloroethene	ND		100	13	ug/L			04/18/19 19:02	50
Toluene	ND		100	13	ug/L			04/18/19 19:02	50
trans-1,2-Dichloroethene	ND		100	13	ug/L			04/18/19 19:02	50
trans-1,3-Dichloropropene	ND		100	13	ug/L			04/18/19 19:02	50
Trichloroethene	**66**	**J**	100	13	ug/L			04/18/19 19:02	50
Trichlorofluoromethane	ND		250	13	ug/L			04/18/19 19:02	50
Vinyl chloride	ND		250	13	ug/L			04/18/19 19:02	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*04/18/19 19:02*	*50*
4-Bromofluorobenzene (Surr)	*84*		*80 - 120*		*04/18/19 19:02*	*50*
Dibromofluoromethane (Surr)	*119*		*76 - 132*		*04/18/19 19:02*	*50*
Toluene-d8 (Surr)	*95*		*80 - 128*		*04/18/19 19:02*	*50*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**11000**		1000	130	ug/L			04/18/19 19:29	500
Chlorobenzene	**17000**		1000	130	ug/L			04/18/19 19:29	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*123*		*70 - 130*		*04/18/19 19:29*	*500*
4-Bromofluorobenzene (Surr)	*86*		*80 - 120*		*04/18/19 19:29*	*500*
Dibromofluoromethane (Surr)	*124*		*76 - 132*		*04/18/19 19:29*	*500*
Toluene-d8 (Surr)	*102*		*80 - 128*		*04/18/19 19:29*	*500*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.096	0.019	ug/L		04/09/19 06:08	04/11/19 22:41	1
2,4'-DDE	ND		0.096	0.019	ug/L		04/09/19 06:08	04/11/19 22:41	1
2,4'-DDT	ND		0.096	0.019	ug/L		04/09/19 06:08	04/11/19 22:41	1
4,4'-DDD	ND		0.096	0.0038	ug/L		04/09/19 06:08	04/11/19 22:41	1
4,4'-DDE	ND		0.096	0.0029	ug/L		04/09/19 06:08	04/11/19 22:41	1
4,4'-DDT	ND		0.096	0.0038	ug/L		04/09/19 06:08	04/11/19 22:41	1
Aldrin	ND		0.0048	0.0014	ug/L		04/09/19 06:08	04/11/19 22:41	1
Chlordane	ND		0.096	0.077	ug/L		04/09/19 06:08	04/11/19 22:41	1
Dieldrin	**0.030**		0.0048	0.0019	ug/L		04/09/19 06:08	04/11/19 22:41	1
Endosulfan I	**0.035**	**J**	0.096	0.0029	ug/L		04/09/19 06:08	04/11/19 22:41	1
Endosulfan II	ND		0.096	0.0019	ug/L		04/09/19 06:08	04/11/19 22:41	1
Endosulfan sulfate	ND		0.19	0.0029	ug/L		04/09/19 06:08	04/11/19 22:41	1
Endrin	ND		0.096	0.0019	ug/L		04/09/19 06:08	04/11/19 22:41	1
Endrin aldehyde	ND		0.096	0.0019	ug/L		04/09/19 06:08	04/11/19 22:41	1
Endrin ketone	ND		0.096	0.0067	ug/L		04/09/19 06:08	04/11/19 22:41	1
gamma-BHC (Lindane)	**0.46**		0.096	0.0029	ug/L		04/09/19 06:08	04/11/19 22:41	1
Heptachlor	ND		0.0096	0.0029	ug/L		04/09/19 06:08	04/11/19 22:41	1
Heptachlor epoxide	ND		0.0048	0.0024	ug/L		04/09/19 06:08	04/11/19 22:41	1
Methoxychlor	**0.0068**	**J**	0.096	0.0034	ug/L		04/09/19 06:08	04/11/19 22:41	1
Toxaphene	ND		4.8	0.24	ug/L		04/09/19 06:08	04/11/19 22:41	1

Client Sample ID: WELL-K2-20190405

Lab Sample ID: 440-238127-11

Date Collected: 04/05/19 12:35
Matrix: Water
Date Received: 04/06/19 09:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	52		28 - 108	04/09/19 06:08	04/11/19 22:41	1
Tetrachloro-m-xylene	56		10 - 123	04/09/19 06:08	04/11/19 22:41	1

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	**4.0**		3.8	0.067	ug/L		04/09/19 06:08	04/09/19 21:29	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	62		28 - 108	04/09/19 06:08	04/09/19 21:29	20
Tetrachloro-m-xylene	75		10 - 123	04/09/19 06:08	04/09/19 21:29	20

Method: 8081A - Organochlorine Pesticides (GC) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	**41**		0.96	0.38	ug/L		04/09/19 06:08	04/10/19 21:01	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	113	X	28 - 108	04/09/19 06:08	04/10/19 21:01	100
Tetrachloro-m-xylene	132	X	10 - 123	04/09/19 06:08	04/10/19 21:01	100

Method: 8081A - Organochlorine Pesticides (GC) - DL3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	**200**		2.4	1.2	ug/L		04/09/19 06:08	04/10/19 21:26	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	106		28 - 108	04/09/19 06:08	04/10/19 21:26	500
Tetrachloro-m-xylene	242	X	10 - 123	04/09/19 06:08	04/10/19 21:26	500

Client Sample ID: WELL-L-20190405

Lab Sample ID: 440-238127-12

Date Collected: 04/05/19 10:35
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		200	10	ug/L			04/18/19 23:13	40
1,1,1-Trichloroethane	ND		80	10	ug/L			04/18/19 23:13	40
1,1,2,2-Tetrachloroethane	ND		80	10	ug/L			04/18/19 23:13	40
1,1,2-Trichloroethane	ND		80	10	ug/L			04/18/19 23:13	40
1,1-Dichloroethane	ND		80	10	ug/L			04/18/19 23:13	40
1,1-Dichloroethene	ND		200	10	ug/L			04/18/19 23:13	40
1,1-Dichloropropene	ND		80	10	ug/L			04/18/19 23:13	40
1,2,3-Trichlorobenzene	**18**	**J**	200	16	ug/L			04/18/19 23:13	40
1,2,3-Trichloropropane	ND		400	10	ug/L			04/18/19 23:13	40
1,2,4-Trichlorobenzene	**91**	**J**	200	16	ug/L			04/18/19 23:13	40
1,2,4-Trimethylbenzene	ND		80	10	ug/L			04/18/19 23:13	40
1,2-Dibromo-3-Chloropropane	ND		200	20	ug/L			04/18/19 23:13	40
1,2-Dibromoethane (EDB)	ND		80	10	ug/L			04/18/19 23:13	40
1,2-Dichlorobenzene	**77**	**J**	80	10	ug/L			04/18/19 23:13	40
1,2-Dichloroethane	**13**	**J**	80	10	ug/L			04/18/19 23:13	40
1,2-Dichloropropane	ND		80	10	ug/L			04/18/19 23:13	40
1,3,5-Trimethylbenzene	ND		80	10	ug/L			04/18/19 23:13	40
1,3-Dichlorobenzene	**15**	**J**	80	10	ug/L			04/18/19 23:13	40
1,3-Dichloropropane	ND		80	10	ug/L			04/18/19 23:13	40

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-L-20190405

Lab Sample ID: 440-238127-12

Date Collected: 04/05/19 10:35
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	**130**		80	10	ug/L			04/18/19 23:13	40
2,2-Dichloropropane	ND		80	16	ug/L			04/18/19 23:13	40
2-Chlorotoluene	ND		200	10	ug/L			04/18/19 23:13	40
4-Chlorotoluene	ND		200	10	ug/L			04/18/19 23:13	40
Benzene	**49**	**J**	80	10	ug/L			04/18/19 23:13	40
Bromobenzene	ND		200	10	ug/L			04/18/19 23:13	40
Bromochloromethane	ND		200	10	ug/L			04/18/19 23:13	40
Bromodichloromethane	ND		80	10	ug/L			04/18/19 23:13	40
Bromoform	ND		200	16	ug/L			04/18/19 23:13	40
Bromomethane	ND		200	10	ug/L			04/18/19 23:13	40
Carbon tetrachloride	ND		40	10	ug/L			04/18/19 23:13	40
Chloroethane	ND		200	16	ug/L			04/18/19 23:13	40
Chloroform	ND		80	10	ug/L			04/18/19 23:13	40
Chloromethane	ND		200	10	ug/L			04/18/19 23:13	40
cis-1,2-Dichloroethene	ND		80	10	ug/L			04/18/19 23:13	40
cis-1,3-Dichloropropene	ND		80	10	ug/L			04/18/19 23:13	40
Dibromochloromethane	ND		80	10	ug/L			04/18/19 23:13	40
Dibromomethane	ND		80	10	ug/L			04/18/19 23:13	40
Dichlorodifluoromethane	ND		200	10	ug/L			04/18/19 23:13	40
Dimethyl disulfide	ND		80	40	ug/L			04/18/19 23:13	40
Ethylbenzene	ND		80	10	ug/L			04/18/19 23:13	40
Hexachlorobutadiene	ND		200	10	ug/L			04/18/19 23:13	40
Isopropylbenzene	ND		80	10	ug/L			04/18/19 23:13	40
m,p-Xylene	ND		80	20	ug/L			04/18/19 23:13	40
Methylene Chloride	ND		80	44	ug/L			04/18/19 23:13	40
Naphthalene	ND		200	16	ug/L			04/18/19 23:13	40
n-Butylbenzene	ND		200	16	ug/L			04/18/19 23:13	40
N-Propylbenzene	ND		80	10	ug/L			04/18/19 23:13	40
o-Xylene	ND		80	10	ug/L			04/18/19 23:13	40
p-Isopropyltoluene	ND		80	10	ug/L			04/18/19 23:13	40
sec-Butylbenzene	ND		200	10	ug/L			04/18/19 23:13	40
Styrene	ND		80	10	ug/L			04/18/19 23:13	40
tert-Butylbenzene	ND		200	10	ug/L			04/18/19 23:13	40
Tetrachloroethene	ND		80	10	ug/L			04/18/19 23:13	40
Toluene	ND		80	10	ug/L			04/18/19 23:13	40
trans-1,2-Dichloroethene	ND		80	10	ug/L			04/18/19 23:13	40
trans-1,3-Dichloropropene	ND		80	10	ug/L			04/18/19 23:13	40
Trichloroethene	**14**	**J**	80	10	ug/L			04/18/19 23:13	40
Trichlorofluoromethane	ND		200	10	ug/L			04/18/19 23:13	40
Vinyl chloride	ND		200	10	ug/L			04/18/19 23:13	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/18/19 23:13*	*40*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*04/18/19 23:13*	*40*
Dibromofluoromethane (Surr)	*96*		*76 - 132*		*04/18/19 23:13*	*40*
Toluene-d8 (Surr)	*100*		*80 - 128*		*04/18/19 23:13*	*40*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**6400**		400	50	ug/L			04/18/19 23:38	200

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-L-20190405

Lab Sample ID: 440-238127-12

Date Collected: 04/05/19 10:35
Matrix: Water
Date Received: 04/06/19 09:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		04/18/19 23:38	200
4-Bromofluorobenzene (Surr)	103		80 - 120		04/18/19 23:38	200
Dibromofluoromethane (Surr)	98		76 - 132		04/18/19 23:38	200
Toluene-d8 (Surr)	102		80 - 128		04/18/19 23:38	200

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.095	0.019	ug/L		04/09/19 06:08	04/11/19 23:07	1
2,4'-DDE	ND		0.095	0.019	ug/L		04/09/19 06:08	04/11/19 23:07	1
2,4'-DDT	ND		0.095	0.019	ug/L		04/09/19 06:08	04/11/19 23:07	1
4,4'-DDD	ND		0.095	0.0038	ug/L		04/09/19 06:08	04/11/19 23:07	1
4,4'-DDE	ND		0.095	0.0029	ug/L		04/09/19 06:08	04/11/19 23:07	1
4,4'-DDT	ND		0.095	0.0038	ug/L		04/09/19 06:08	04/11/19 23:07	1
Aldrin	ND		0.0048	0.0014	ug/L		04/09/19 06:08	04/11/19 23:07	1
Chlordane	ND		0.095	0.076	ug/L		04/09/19 06:08	04/11/19 23:07	1
Dieldrin	ND		0.0048	0.0019	ug/L		04/09/19 06:08	04/11/19 23:07	1
Endosulfan I	ND		0.095	0.0029	ug/L		04/09/19 06:08	04/11/19 23:07	1
Endosulfan II	ND		0.095	0.0019	ug/L		04/09/19 06:08	04/11/19 23:07	1
Endosulfan sulfate	ND		0.19	0.0029	ug/L		04/09/19 06:08	04/11/19 23:07	1
Endrin	ND		0.095	0.0019	ug/L		04/09/19 06:08	04/11/19 23:07	1
Endrin aldehyde	ND		0.095	0.0019	ug/L		04/09/19 06:08	04/11/19 23:07	1
Endrin ketone	ND		0.095	0.0067	ug/L		04/09/19 06:08	04/11/19 23:07	1
gamma-BHC (Lindane)	**0.044**	**J p**	0.095	0.0029	ug/L		04/09/19 06:08	04/11/19 23:07	1
Heptachlor	ND		0.0095	0.0029	ug/L		04/09/19 06:08	04/11/19 23:07	1
Heptachlor epoxide	ND		0.0048	0.0024	ug/L		04/09/19 06:08	04/11/19 23:07	1
Methoxychlor	ND		0.095	0.0033	ug/L		04/09/19 06:08	04/11/19 23:07	1
Toxaphene	ND		4.8	0.24	ug/L		04/09/19 06:08	04/11/19 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	66		28 - 108	04/09/19 06:08	04/11/19 23:07	1
Tetrachloro-m-xylene	58		10 - 123	04/09/19 06:08	04/11/19 23:07	1

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	**1.0**		0.95	0.017	ug/L		04/09/19 06:08	04/13/19 00:50	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	58		28 - 108	04/09/19 06:08	04/13/19 00:50	5
Tetrachloro-m-xylene	50		10 - 123	04/09/19 06:08	04/13/19 00:50	5

Method: 8081A - Organochlorine Pesticides (GC) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	**2.3**		0.048	0.024	ug/L		04/09/19 06:08	04/10/19 21:52	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	69		28 - 108	04/09/19 06:08	04/10/19 21:52	10
Tetrachloro-m-xylene	61		10 - 123	04/09/19 06:08	04/10/19 21:52	10

Method: 8081A - Organochlorine Pesticides (GC) - DL3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	**16**		0.48	0.19	ug/L		04/09/19 06:08	04/10/19 22:18	50

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-L-20190405

Lab Sample ID: 440-238127-12

Date Collected: 04/05/19 10:35
Matrix: Water
Date Received: 04/06/19 09:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*28 - 108*	*04/09/19 06:08*	*04/10/19 22:18*	*50*
Tetrachloro-m-xylene	*85*		*10 - 123*	*04/09/19 06:08*	*04/10/19 22:18*	*50*

Client Sample ID: WELL-N-20190405

Lab Sample ID: 440-238127-13

Date Collected: 04/05/19 09:30
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		25	1.3	ug/L			04/18/19 22:49	5
1,1,1-Trichloroethane	ND		10	1.3	ug/L			04/18/19 22:49	5
1,1,2,2-Tetrachloroethane	ND		10	1.3	ug/L			04/18/19 22:49	5
1,1,2-Trichloroethane	ND		10	1.3	ug/L			04/18/19 22:49	5
1,1-Dichloroethane	**2.1**	**J**	10	1.3	ug/L			04/18/19 22:49	5
1,1-Dichloroethene	ND		25	1.3	ug/L			04/18/19 22:49	5
1,1-Dichloropropene	ND		10	1.3	ug/L			04/18/19 22:49	5
1,2,3-Trichlorobenzene	**9.6**	**J**	25	2.0	ug/L			04/18/19 22:49	5
1,2,3-Trichloropropane	ND		50	1.3	ug/L			04/18/19 22:49	5
1,2,4-Trichlorobenzene	**34**		25	2.0	ug/L			04/18/19 22:49	5
1,2,4-Trimethylbenzene	ND		10	1.3	ug/L			04/18/19 22:49	5
1,2-Dibromo-3-Chloropropane	ND		25	2.5	ug/L			04/18/19 22:49	5
1,2-Dibromoethane (EDB)	ND		10	1.3	ug/L			04/18/19 22:49	5
1,2-Dichlorobenzene	**65**		10	1.3	ug/L			04/18/19 22:49	5
1,2-Dichloroethane	**1.3**	**J**	10	1.3	ug/L			04/18/19 22:49	5
1,2-Dichloropropane	ND		10	1.3	ug/L			04/18/19 22:49	5
1,3,5-Trimethylbenzene	ND		10	1.3	ug/L			04/18/19 22:49	5
1,3-Dichlorobenzene	**3.8**	**J**	10	1.3	ug/L			04/18/19 22:49	5
1,3-Dichloropropane	ND		10	1.3	ug/L			04/18/19 22:49	5
1,4-Dichlorobenzene	**95**		10	1.3	ug/L			04/18/19 22:49	5
2,2-Dichloropropane	ND		10	2.0	ug/L			04/18/19 22:49	5
2-Chlorotoluene	ND		25	1.3	ug/L			04/18/19 22:49	5
4-Chlorotoluene	ND		25	1.3	ug/L			04/18/19 22:49	5
Benzene	**19**		10	1.3	ug/L			04/18/19 22:49	5
Bromobenzene	ND		25	1.3	ug/L			04/18/19 22:49	5
Bromochloromethane	ND		25	1.3	ug/L			04/18/19 22:49	5
Bromodichloromethane	ND		10	1.3	ug/L			04/18/19 22:49	5
Bromoform	ND		25	2.0	ug/L			04/18/19 22:49	5
Bromomethane	ND		25	1.3	ug/L			04/18/19 22:49	5
Carbon tetrachloride	ND		5.0	1.3	ug/L			04/18/19 22:49	5
Chloroethane	ND		25	2.0	ug/L			04/18/19 22:49	5
Chloroform	ND		10	1.3	ug/L			04/18/19 22:49	5
Chloromethane	ND		25	1.3	ug/L			04/18/19 22:49	5
cis-1,2-Dichloroethene	ND		10	1.3	ug/L			04/18/19 22:49	5
cis-1,3-Dichloropropene	ND		10	1.3	ug/L			04/18/19 22:49	5
Dibromochloromethane	ND		10	1.3	ug/L			04/18/19 22:49	5
Dibromomethane	ND		10	1.3	ug/L			04/18/19 22:49	5
Dichlorodifluoromethane	ND		25	1.3	ug/L			04/18/19 22:49	5
Dimethyl disulfide	ND		10	5.0	ug/L			04/18/19 22:49	5
Ethylbenzene	ND		10	1.3	ug/L			04/18/19 22:49	5
Hexachlorobutadiene	ND		25	1.3	ug/L			04/18/19 22:49	5

Client Sample ID: WELL-N-20190405

Lab Sample ID: 440-238127-13

Date Collected: 04/05/19 09:30
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		10	1.3	ug/L			04/18/19 22:49	5
m,p-Xylene	ND		10	2.5	ug/L			04/18/19 22:49	5
Methylene Chloride	ND		10	5.5	ug/L			04/18/19 22:49	5
Naphthalene	ND		25	2.0	ug/L			04/18/19 22:49	5
n-Butylbenzene	ND		25	2.0	ug/L			04/18/19 22:49	5
N-Propylbenzene	ND		10	1.3	ug/L			04/18/19 22:49	5
o-Xylene	ND		10	1.3	ug/L			04/18/19 22:49	5
p-Isopropyltoluene	ND		10	1.3	ug/L			04/18/19 22:49	5
sec-Butylbenzene	ND		25	1.3	ug/L			04/18/19 22:49	5
Styrene	ND		10	1.3	ug/L			04/18/19 22:49	5
tert-Butylbenzene	ND		25	1.3	ug/L			04/18/19 22:49	5
Tetrachloroethene	ND		10	1.3	ug/L			04/18/19 22:49	5
Toluene	ND		10	1.3	ug/L			04/18/19 22:49	5
trans-1,2-Dichloroethene	ND		10	1.3	ug/L			04/18/19 22:49	5
trans-1,3-Dichloropropene	ND		10	1.3	ug/L			04/18/19 22:49	5
Trichloroethene	**11**		10	1.3	ug/L			04/18/19 22:49	5
Trichlorofluoromethane	ND		25	1.3	ug/L			04/18/19 22:49	5
Vinyl chloride	ND		25	1.3	ug/L			04/18/19 22:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*04/18/19 22:49*	*5*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*04/18/19 22:49*	*5*
Dibromofluoromethane (Surr)	*96*		*76 - 132*		*04/18/19 22:49*	*5*
Toluene-d8 (Surr)	*100*		*80 - 128*		*04/18/19 22:49*	*5*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**1300**		50	6.3	ug/L			04/18/19 22:24	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*04/18/19 22:24*	*25*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*04/18/19 22:24*	*25*
Dibromofluoromethane (Surr)	*95*		*76 - 132*		*04/18/19 22:24*	*25*
Toluene-d8 (Surr)	*100*		*80 - 128*		*04/18/19 22:24*	*25*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/09/19 06:08	04/10/19 19:17	1
2,4'-DDE	**0.22**		0.10	0.020	ug/L		04/09/19 06:08	04/10/19 19:17	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/09/19 06:08	04/10/19 19:17	1
4,4'-DDD	ND		0.10	0.0041	ug/L		04/09/19 06:08	04/10/19 19:17	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/09/19 06:08	04/10/19 19:17	1
4,4'-DDT	ND		0.10	0.0041	ug/L		04/09/19 06:08	04/10/19 19:17	1
Aldrin	ND		0.0051	0.0015	ug/L		04/09/19 06:08	04/10/19 19:17	1
Chlordane	ND		0.10	0.081	ug/L		04/09/19 06:08	04/10/19 19:17	1
Dieldrin	ND		0.0051	0.0020	ug/L		04/09/19 06:08	04/10/19 19:17	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/09/19 06:08	04/10/19 19:17	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/09/19 06:08	04/10/19 19:17	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/09/19 06:08	04/10/19 19:17	1
Endrin	ND		0.10	0.0020	ug/L		04/09/19 06:08	04/10/19 19:17	1

Client Sample ID: WELL-N-20190405

Lab Sample ID: 440-238127-13

Date Collected: 04/05/19 09:30
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/09/19 06:08	04/10/19 19:17	1
Endrin ketone	ND		0.10	0.0071	ug/L		04/09/19 06:08	04/10/19 19:17	1
gamma-BHC (Lindane)	**0.012**	**J p**	0.10	0.0030	ug/L		04/09/19 06:08	04/10/19 19:17	1
Heptachlor	ND		0.010	0.0030	ug/L		04/09/19 06:08	04/10/19 19:17	1
Heptachlor epoxide	ND		0.0051	0.0025	ug/L		04/09/19 06:08	04/10/19 19:17	1
Methoxychlor	ND		0.10	0.0036	ug/L		04/09/19 06:08	04/10/19 19:17	1
Toxaphene	ND		5.1	0.25	ug/L		04/09/19 06:08	04/10/19 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*57*		*28 - 108*	*04/09/19 06:08*	*04/10/19 19:17*	*1*
Tetrachloro-m-xylene	*56*		*10 - 123*	*04/09/19 06:08*	*04/10/19 19:17*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	**1.4**		1.0	0.018	ug/L		04/09/19 06:08	04/13/19 01:16	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*28 - 108*	*04/09/19 06:08*	*04/13/19 01:16*	*5*
Tetrachloro-m-xylene	*50*		*10 - 123*	*04/09/19 06:08*	*04/13/19 01:16*	*5*

Method: 8081A - Organochlorine Pesticides (GC) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	**3.1**		0.051	0.025	ug/L		04/09/19 06:08	04/09/19 16:45	10
beta-BHC	**8.3**		0.20	0.081	ug/L		04/09/19 06:08	04/10/19 19:43	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*28 - 108*	*04/09/19 06:08*	*04/09/19 16:45*	*10*
DCB Decachlorobiphenyl (Surr)	*71*		*28 - 108*	*04/09/19 06:08*	*04/10/19 19:43*	*20*
Tetrachloro-m-xylene	*61*		*10 - 123*	*04/09/19 06:08*	*04/09/19 16:45*	*10*
Tetrachloro-m-xylene	*60*		*10 - 123*	*04/09/19 06:08*	*04/10/19 19:43*	*20*

Client Sample ID: WELL-P-20190405

Lab Sample ID: 440-238127-14

Date Collected: 04/05/19 08:22
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/18/19 13:07	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 13:07	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/18/19 13:07	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 13:07	1
1,1-Dichloroethane	**3.3**		2.0	0.25	ug/L			04/18/19 13:07	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/18/19 13:07	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 13:07	1
1,2,3-Trichlorobenzene	**3.0**	**J**	5.0	0.40	ug/L			04/18/19 13:07	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/18/19 13:07	1
1,2,4-Trichlorobenzene	**13**		5.0	0.40	ug/L			04/18/19 13:07	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 13:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/18/19 13:07	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/18/19 13:07	1
1,2-Dichlorobenzene	**19**		2.0	0.25	ug/L			04/18/19 13:07	1

Client Sample ID: WELL-P-20190405

Lab Sample ID: 440-238127-14

Date Collected: 04/05/19 08:22
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	**0.40**	**J**	2.0	0.25	ug/L			04/18/19 13:07	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 13:07	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 13:07	1
1,3-Dichlorobenzene	**3.6**		2.0	0.25	ug/L			04/18/19 13:07	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 13:07	1
1,4-Dichlorobenzene	**23**		2.0	0.25	ug/L			04/18/19 13:07	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/18/19 13:07	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 13:07	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 13:07	1
Benzene	**0.84**	**J**	2.0	0.25	ug/L			04/18/19 13:07	1
Bromobenzene	ND		5.0	0.25	ug/L			04/18/19 13:07	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/18/19 13:07	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/18/19 13:07	1
Bromoform	ND		5.0	0.40	ug/L			04/18/19 13:07	1
Bromomethane	ND		5.0	0.25	ug/L			04/18/19 13:07	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/18/19 13:07	1
Chlorobenzene	**43**		2.0	0.25	ug/L			04/18/19 13:07	1
Chloroethane	ND		5.0	0.40	ug/L			04/18/19 13:07	1
Chloroform	**0.55**	**J**	2.0	0.25	ug/L			04/18/19 13:07	1
Chloromethane	ND		5.0	0.25	ug/L			04/18/19 13:07	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 13:07	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 13:07	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/18/19 13:07	1
Dibromomethane	ND		2.0	0.25	ug/L			04/18/19 13:07	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/18/19 13:07	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/18/19 13:07	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/18/19 13:07	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/18/19 13:07	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/18/19 13:07	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/18/19 13:07	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/18/19 13:07	1
Naphthalene	ND		5.0	0.40	ug/L			04/18/19 13:07	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/18/19 13:07	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/18/19 13:07	1
o-Xylene	ND		2.0	0.25	ug/L			04/18/19 13:07	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/18/19 13:07	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 13:07	1
Styrene	ND		2.0	0.25	ug/L			04/18/19 13:07	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 13:07	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/18/19 13:07	1
Toluene	ND		2.0	0.25	ug/L			04/18/19 13:07	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 13:07	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 13:07	1
Trichloroethene	**2.4**		2.0	0.25	ug/L			04/18/19 13:07	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/18/19 13:07	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/18/19 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/18/19 13:07*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/18/19 13:07*	*1*

Client Sample ID: WELL-P-20190405

Lab Sample ID: 440-238127-14

Date Collected: 04/05/19 08:22
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*04/18/19 13:07*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*04/18/19 13:07*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/09/19 06:08	04/11/19 23:32	1
2,4'-DDE	ND		0.10	0.020	ug/L		04/09/19 06:08	04/11/19 23:32	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/09/19 06:08	04/11/19 23:32	1
4,4'-DDD	ND		0.10	0.0040	ug/L		04/09/19 06:08	04/11/19 23:32	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/09/19 06:08	04/11/19 23:32	1
4,4'-DDT	ND		0.10	0.0040	ug/L		04/09/19 06:08	04/11/19 23:32	1
Aldrin	ND		0.0050	0.0015	ug/L		04/09/19 06:08	04/11/19 23:32	1
Chlordane	ND		0.10	0.080	ug/L		04/09/19 06:08	04/11/19 23:32	1
Dieldrin	ND		0.0050	0.0020	ug/L		04/09/19 06:08	04/11/19 23:32	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/09/19 06:08	04/11/19 23:32	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/09/19 06:08	04/11/19 23:32	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/09/19 06:08	04/11/19 23:32	1
Endrin	ND		0.10	0.0020	ug/L		04/09/19 06:08	04/11/19 23:32	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/09/19 06:08	04/11/19 23:32	1
Endrin ketone	ND		0.10	0.0070	ug/L		04/09/19 06:08	04/11/19 23:32	1
gamma-BHC (Lindane)	**0.025**	**J p**	0.10	0.0030	ug/L		04/09/19 06:08	04/11/19 23:32	1
Heptachlor	ND		0.010	0.0030	ug/L		04/09/19 06:08	04/11/19 23:32	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/09/19 06:08	04/11/19 23:32	1
Methoxychlor	ND		0.10	0.0035	ug/L		04/09/19 06:08	04/11/19 23:32	1
Toxaphene	ND		5.0	0.25	ug/L		04/09/19 06:08	04/11/19 23:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*69*		*28 - 108*	*04/09/19 06:08*	*04/11/19 23:32*	*1*
Tetrachloro-m-xylene	*51*		*10 - 123*	*04/09/19 06:08*	*04/11/19 23:32*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	**1.6**		0.050	0.025	ug/L		04/09/19 06:08	04/10/19 22:44	10
beta-BHC	**7.4**		0.10	0.040	ug/L		04/09/19 06:08	04/10/19 22:44	10
delta-BHC	**2.4**		2.0	0.035	ug/L		04/09/19 06:08	04/10/19 22:44	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*76*		*28 - 108*	*04/09/19 06:08*	*04/10/19 22:44*	*10*
Tetrachloro-m-xylene	*58*		*10 - 123*	*04/09/19 06:08*	*04/10/19 22:44*	*10*

Client Sample ID: WELL-O-20190405

Lab Sample ID: 440-238127-15

Date Collected: 04/05/19 10:55
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		250	13	ug/L			04/19/19 00:02	50
1,1,1-Trichloroethane	ND		100	13	ug/L			04/19/19 00:02	50
1,1,2,2-Tetrachloroethane	ND		100	13	ug/L			04/19/19 00:02	50
1,1,2-Trichloroethane	ND		100	13	ug/L			04/19/19 00:02	50

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-O-20190405

Date Collected: 04/05/19 10:55
Date Received: 04/06/19 09:45

Lab Sample ID: 440-238127-15

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		100	13	ug/L			04/19/19 00:02	50
1,1-Dichloroethene	ND		250	13	ug/L			04/19/19 00:02	50
1,1-Dichloropropene	ND		100	13	ug/L			04/19/19 00:02	50
1,2,3-Trichlorobenzene	ND		250	20	ug/L			04/19/19 00:02	50
1,2,3-Trichloropropane	ND		500	13	ug/L			04/19/19 00:02	50
1,2,4-Trichlorobenzene	**110**	**J**	250	20	ug/L			04/19/19 00:02	50
1,2,4-Trimethylbenzene	ND		100	13	ug/L			04/19/19 00:02	50
1,2-Dibromo-3-Chloropropane	ND		250	25	ug/L			04/19/19 00:02	50
1,2-Dibromoethane (EDB)	ND		100	13	ug/L			04/19/19 00:02	50
1,2-Dichlorobenzene	**560**		100	13	ug/L			04/19/19 00:02	50
1,2-Dichloroethane	ND		100	13	ug/L			04/19/19 00:02	50
1,2-Dichloropropane	ND		100	13	ug/L			04/19/19 00:02	50
1,3,5-Trimethylbenzene	ND		100	13	ug/L			04/19/19 00:02	50
1,3-Dichlorobenzene	**44**	**J**	100	13	ug/L			04/19/19 00:02	50
1,3-Dichloropropane	ND		100	13	ug/L			04/19/19 00:02	50
1,4-Dichlorobenzene	**910**		100	13	ug/L			04/19/19 00:02	50
2,2-Dichloropropane	ND		100	20	ug/L			04/19/19 00:02	50
2-Chlorotoluene	ND		250	13	ug/L			04/19/19 00:02	50
4-Chlorotoluene	ND		250	13	ug/L			04/19/19 00:02	50
Benzene	**3300**		100	13	ug/L			04/19/19 00:02	50
Bromobenzene	ND		250	13	ug/L			04/19/19 00:02	50
Bromochloromethane	ND		250	13	ug/L			04/19/19 00:02	50
Bromodichloromethane	ND		100	13	ug/L			04/19/19 00:02	50
Bromoform	ND		250	20	ug/L			04/19/19 00:02	50
Bromomethane	ND		250	13	ug/L			04/19/19 00:02	50
Carbon tetrachloride	ND		50	13	ug/L			04/19/19 00:02	50
Chloroethane	ND		250	20	ug/L			04/19/19 00:02	50
Chloroform	**110**		100	13	ug/L			04/19/19 00:02	50
Chloromethane	ND		250	13	ug/L			04/19/19 00:02	50
cis-1,2-Dichloroethene	ND		100	13	ug/L			04/19/19 00:02	50
cis-1,3-Dichloropropene	ND		100	13	ug/L			04/19/19 00:02	50
Dibromochloromethane	ND		100	13	ug/L			04/19/19 00:02	50
Dibromomethane	ND		100	13	ug/L			04/19/19 00:02	50
Dichlorodifluoromethane	ND		250	13	ug/L			04/19/19 00:02	50
Dimethyl disulfide	ND		100	50	ug/L			04/19/19 00:02	50
Ethylbenzene	ND		100	13	ug/L			04/19/19 00:02	50
Hexachlorobutadiene	ND		250	13	ug/L			04/19/19 00:02	50
Isopropylbenzene	ND		100	13	ug/L			04/19/19 00:02	50
m,p-Xylene	ND		100	25	ug/L			04/19/19 00:02	50
Methylene Chloride	ND		100	55	ug/L			04/19/19 00:02	50
Naphthalene	ND		250	20	ug/L			04/19/19 00:02	50
n-Butylbenzene	ND		250	20	ug/L			04/19/19 00:02	50
N-Propylbenzene	ND		100	13	ug/L			04/19/19 00:02	50
o-Xylene	ND		100	13	ug/L			04/19/19 00:02	50
p-Isopropyltoluene	ND		100	13	ug/L			04/19/19 00:02	50
sec-Butylbenzene	ND		250	13	ug/L			04/19/19 00:02	50
Styrene	ND		100	13	ug/L			04/19/19 00:02	50
tert-Butylbenzene	ND		250	13	ug/L			04/19/19 00:02	50
Tetrachloroethene	ND		100	13	ug/L			04/19/19 00:02	50

Client Sample ID: WELL-O-20190405

Lab Sample ID: 440-238127-15

Date Collected: 04/05/19 10:55
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		100	13	ug/L			04/19/19 00:02	50
trans-1,2-Dichloroethene	ND		100	13	ug/L			04/19/19 00:02	50
trans-1,3-Dichloropropene	ND		100	13	ug/L			04/19/19 00:02	50
Trichloroethene	ND		100	13	ug/L			04/19/19 00:02	50
Trichlorofluoromethane	ND		250	13	ug/L			04/19/19 00:02	50
Vinyl chloride	ND		250	13	ug/L			04/19/19 00:02	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*04/19/19 00:02*	*50*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*04/19/19 00:02*	*50*
Dibromofluoromethane (Surr)	*94*		*76 - 132*		*04/19/19 00:02*	*50*
Toluene-d8 (Surr)	*99*		*80 - 128*		*04/19/19 00:02*	*50*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**14000**		1000	130	ug/L			04/19/19 00:26	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/19/19 00:26*	*500*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*04/19/19 00:26*	*500*
Dibromofluoromethane (Surr)	*97*		*76 - 132*		*04/19/19 00:26*	*500*
Toluene-d8 (Surr)	*101*		*80 - 128*		*04/19/19 00:26*	*500*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.099	0.020	ug/L		04/09/19 06:08	04/11/19 23:58	1
2,4'-DDE	ND		0.099	0.020	ug/L		04/09/19 06:08	04/11/19 23:58	1
2,4'-DDT	ND		0.099	0.020	ug/L		04/09/19 06:08	04/11/19 23:58	1
4,4'-DDD	ND		0.099	0.0040	ug/L		04/09/19 06:08	04/11/19 23:58	1
4,4'-DDE	ND		0.099	0.0030	ug/L		04/09/19 06:08	04/11/19 23:58	1
4,4'-DDT	ND		0.099	0.0040	ug/L		04/09/19 06:08	04/11/19 23:58	1
Aldrin	ND		0.0050	0.0015	ug/L		04/09/19 06:08	04/11/19 23:58	1
Chlordane	ND		0.099	0.079	ug/L		04/09/19 06:08	04/11/19 23:58	1
Dieldrin	**0.0024**	**J**	0.0050	0.0020	ug/L		04/09/19 06:08	04/11/19 23:58	1
Endosulfan I	ND		0.099	0.0030	ug/L		04/09/19 06:08	04/11/19 23:58	1
Endosulfan II	ND		0.099	0.0020	ug/L		04/09/19 06:08	04/11/19 23:58	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/09/19 06:08	04/11/19 23:58	1
Endrin	ND		0.099	0.0020	ug/L		04/09/19 06:08	04/11/19 23:58	1
Endrin aldehyde	ND		0.099	0.0020	ug/L		04/09/19 06:08	04/11/19 23:58	1
Endrin ketone	ND		0.099	0.0069	ug/L		04/09/19 06:08	04/11/19 23:58	1
gamma-BHC (Lindane)	**0.061**	**J**	0.099	0.0030	ug/L		04/09/19 06:08	04/11/19 23:58	1
Heptachlor	ND		0.0099	0.0030	ug/L		04/09/19 06:08	04/11/19 23:58	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/09/19 06:08	04/11/19 23:58	1
Methoxychlor	**0.012**	**J**	0.099	0.0035	ug/L		04/09/19 06:08	04/11/19 23:58	1
Toxaphene	ND		5.0	0.25	ug/L		04/09/19 06:08	04/11/19 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*28 - 108*	*04/09/19 06:08*	*04/11/19 23:58*	*1*
Tetrachloro-m-xylene	*66*		*10 - 123*	*04/09/19 06:08*	*04/11/19 23:58*	*1*

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-O-20190405

Lab Sample ID: 440-238127-15

Date Collected: 04/05/19 10:55
Date Received: 04/06/19 09:45

Matrix: Water

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	**1.7**	**J**	2.0	0.035	ug/L		04/09/19 06:08	04/10/19 23:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*28 - 108*	*04/09/19 06:08*	*04/10/19 23:09*	*10*
Tetrachloro-m-xylene	*87*		*10 - 123*	*04/09/19 06:08*	*04/10/19 23:09*	*10*

Method: 8081A - Organochlorine Pesticides (GC) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	**9.3**		0.25	0.12	ug/L		04/09/19 06:08	04/10/19 23:35	50
beta-BHC	**33**		0.50	0.20	ug/L		04/09/19 06:08	04/10/19 23:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*100*		*28 - 108*	*04/09/19 06:08*	*04/10/19 23:35*	*50*
Tetrachloro-m-xylene	*106*		*10 - 123*	*04/09/19 06:08*	*04/10/19 23:35*	*50*

Client Sample ID: WELL-Q-20190405

Lab Sample ID: 440-238127-16

Date Collected: 04/05/19 08:35
Date Received: 04/06/19 09:45

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/18/19 13:34	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 13:34	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/18/19 13:34	1
1,1,2-Trichloroethane	**0.94**	**J**	2.0	0.25	ug/L			04/18/19 13:34	1
1,1-Dichloroethane	**11**		2.0	0.25	ug/L			04/18/19 13:34	1
1,1-Dichloroethene	**1.4**	**J**	5.0	0.25	ug/L			04/18/19 13:34	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 13:34	1
1,2,3-Trichlorobenzene	**7.0**		5.0	0.40	ug/L			04/18/19 13:34	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/18/19 13:34	1
1,2,4-Trichlorobenzene	**33**		5.0	0.40	ug/L			04/18/19 13:34	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 13:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/18/19 13:34	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/18/19 13:34	1
1,2-Dichloroethane	**1.1**	**J**	2.0	0.25	ug/L			04/18/19 13:34	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 13:34	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 13:34	1
1,3-Dichlorobenzene	**14**		2.0	0.25	ug/L			04/18/19 13:34	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 13:34	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/18/19 13:34	1
2-Chlorotoluene	**0.35**	**J**	5.0	0.25	ug/L			04/18/19 13:34	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 13:34	1
Benzene	**2.7**		2.0	0.25	ug/L			04/18/19 13:34	1
Bromobenzene	ND		5.0	0.25	ug/L			04/18/19 13:34	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/18/19 13:34	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/18/19 13:34	1
Bromoform	ND		5.0	0.40	ug/L			04/18/19 13:34	1
Bromomethane	ND		5.0	0.25	ug/L			04/18/19 13:34	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/18/19 13:34	1
Chloroethane	ND		5.0	0.40	ug/L			04/18/19 13:34	1
Chloroform	**0.56**	**J**	2.0	0.25	ug/L			04/18/19 13:34	1

Client Sample ID: WELL-Q-20190405

Lab Sample ID: 440-238127-16

Date Collected: 04/05/19 08:35
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		5.0	0.25	ug/L			04/18/19 13:34	1
cis-1,2-Dichloroethene	**1.2**	**J**	2.0	0.25	ug/L			04/18/19 13:34	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 13:34	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/18/19 13:34	1
Dibromomethane	ND		2.0	0.25	ug/L			04/18/19 13:34	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/18/19 13:34	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/18/19 13:34	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/18/19 13:34	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/18/19 13:34	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/18/19 13:34	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/18/19 13:34	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/18/19 13:34	1
Naphthalene	ND		5.0	0.40	ug/L			04/18/19 13:34	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/18/19 13:34	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/18/19 13:34	1
o-Xylene	ND		2.0	0.25	ug/L			04/18/19 13:34	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/18/19 13:34	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 13:34	1
Styrene	ND		2.0	0.25	ug/L			04/18/19 13:34	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 13:34	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/18/19 13:34	1
Toluene	**0.33**	**J**	2.0	0.25	ug/L			04/18/19 13:34	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 13:34	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 13:34	1
Trichloroethene	**60**		2.0	0.25	ug/L			04/18/19 13:34	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/18/19 13:34	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/18/19 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*04/18/19 13:34*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*04/18/19 13:34*	*1*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*04/18/19 13:34*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*04/18/19 13:34*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	**330**		10	1.3	ug/L			04/19/19 02:53	5
1,4-Dichlorobenzene	**450**		10	1.3	ug/L			04/19/19 02:53	5
Chlorobenzene	**430**		10	1.3	ug/L			04/19/19 02:53	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*04/19/19 02:53*	*5*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*04/19/19 02:53*	*5*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*04/19/19 02:53*	*5*
Toluene-d8 (Surr)	*101*		*80 - 128*		*04/19/19 02:53*	*5*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDE	ND		0.10	0.021	ug/L		04/09/19 06:08	04/12/19 00:24	1
2,4'-DDT	ND		0.10	0.021	ug/L		04/09/19 06:08	04/12/19 00:24	1

Client Sample ID: WELL-Q-20190405

Lab Sample ID: 440-238127-16

Date Collected: 04/05/19 08:35
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.10	0.0041	ug/L		04/09/19 06:08	04/12/19 00:24	1
4,4'-DDE	ND		0.10	0.0031	ug/L		04/09/19 06:08	04/12/19 00:24	1
4,4'-DDT	ND		0.10	0.0041	ug/L		04/09/19 06:08	04/12/19 00:24	1
Aldrin	ND		0.0051	0.0015	ug/L		04/09/19 06:08	04/12/19 00:24	1
Chlordane	ND		0.10	0.082	ug/L		04/09/19 06:08	04/12/19 00:24	1
Dieldrin	ND		0.0051	0.0021	ug/L		04/09/19 06:08	04/12/19 00:24	1
Endosulfan I	**0.026**	**J p**	0.10	0.0031	ug/L		04/09/19 06:08	04/12/19 00:24	1
Endosulfan II	ND		0.10	0.0021	ug/L		04/09/19 06:08	04/12/19 00:24	1
Endosulfan sulfate	ND		0.21	0.0031	ug/L		04/09/19 06:08	04/12/19 00:24	1
Endrin	ND		0.10	0.0021	ug/L		04/09/19 06:08	04/12/19 00:24	1
Endrin aldehyde	ND		0.10	0.0021	ug/L		04/09/19 06:08	04/12/19 00:24	1
Endrin ketone	ND		0.10	0.0072	ug/L		04/09/19 06:08	04/12/19 00:24	1
gamma-BHC (Lindane)	**0.057**	**J p**	0.10	0.0031	ug/L		04/09/19 06:08	04/12/19 00:24	1
Heptachlor	ND		0.010	0.0031	ug/L		04/09/19 06:08	04/12/19 00:24	1
Heptachlor epoxide	ND		0.0051	0.0026	ug/L		04/09/19 06:08	04/12/19 00:24	1
Methoxychlor	**0.019**	**J**	0.10	0.0036	ug/L		04/09/19 06:08	04/12/19 00:24	1
Toxaphene	ND		5.1	0.26	ug/L		04/09/19 06:08	04/12/19 00:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*28 - 108*	*04/09/19 06:08*	*04/12/19 00:24*	*1*
Tetrachloro-m-xylene	*53*		*10 - 123*	*04/09/19 06:08*	*04/12/19 00:24*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		1.0	0.21	ug/L		04/09/19 06:08	04/11/19 00:01	10
alpha-BHC	**2.8**		0.051	0.026	ug/L		04/09/19 06:08	04/11/19 00:01	10
beta-BHC	**8.6**		0.10	0.041	ug/L		04/09/19 06:08	04/11/19 00:01	10
delta-BHC	**2.5**		2.1	0.036	ug/L		04/09/19 06:08	04/11/19 00:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*28 - 108*	*04/09/19 06:08*	*04/11/19 00:01*	*10*
Tetrachloro-m-xylene	*60*		*10 - 123*	*04/09/19 06:08*	*04/11/19 00:01*	*10*

Client Sample ID: WELL-J2-20190405

Lab Sample ID: 440-238127-17

Date Collected: 04/05/19 09:15
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		25	1.3	ug/L			04/19/19 00:51	5
1,1,1-Trichloroethane	ND		10	1.3	ug/L			04/19/19 00:51	5
1,1,2,2-Tetrachloroethane	ND		10	1.3	ug/L			04/19/19 00:51	5
1,1,2-Trichloroethane	ND		10	1.3	ug/L			04/19/19 00:51	5
1,1-Dichloroethane	**8.8**	**J**	10	1.3	ug/L			04/19/19 00:51	5
1,1-Dichloroethene	**1.5**	**J**	25	1.3	ug/L			04/19/19 00:51	5
1,1-Dichloropropene	ND		10	1.3	ug/L			04/19/19 00:51	5
1,2,3-Trichlorobenzene	**14**	**J**	25	2.0	ug/L			04/19/19 00:51	5
1,2,3-Trichloropropane	ND		50	1.3	ug/L			04/19/19 00:51	5
1,2,4-Trichlorobenzene	**60**		25	2.0	ug/L			04/19/19 00:51	5
1,2,4-Trimethylbenzene	ND		10	1.3	ug/L			04/19/19 00:51	5
1,2-Dibromo-3-Chloropropane	ND		25	2.5	ug/L			04/19/19 00:51	5

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-J2-20190405

Lab Sample ID: 440-238127-17

Date Collected: 04/05/19 09:15
Date Received: 04/06/19 09:45

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		10	1.3	ug/L			04/19/19 00:51	5
1,2-Dichlorobenzene	**420**		10	1.3	ug/L			04/19/19 00:51	5
1,2-Dichloroethane	**2.9**	**J**	10	1.3	ug/L			04/19/19 00:51	5
1,2-Dichloropropane	ND		10	1.3	ug/L			04/19/19 00:51	5
1,3,5-Trimethylbenzene	ND		10	1.3	ug/L			04/19/19 00:51	5
1,3-Dichlorobenzene	**20**		10	1.3	ug/L			04/19/19 00:51	5
1,3-Dichloropropane	ND		10	1.3	ug/L			04/19/19 00:51	5
2,2-Dichloropropane	ND		10	2.0	ug/L			04/19/19 00:51	5
2-Chlorotoluene	ND		25	1.3	ug/L			04/19/19 00:51	5
4-Chlorotoluene	ND		25	1.3	ug/L			04/19/19 00:51	5
Benzene	**11**		10	1.3	ug/L			04/19/19 00:51	5
Bromobenzene	ND		25	1.3	ug/L			04/19/19 00:51	5
Bromochloromethane	ND		25	1.3	ug/L			04/19/19 00:51	5
Bromodichloromethane	ND		10	1.3	ug/L			04/19/19 00:51	5
Bromoform	ND		25	2.0	ug/L			04/19/19 00:51	5
Bromomethane	ND		25	1.3	ug/L			04/19/19 00:51	5
Carbon tetrachloride	ND		5.0	1.3	ug/L			04/19/19 00:51	5
Chloroethane	ND		25	2.0	ug/L			04/19/19 00:51	5
Chloroform	ND		10	1.3	ug/L			04/19/19 00:51	5
Chloromethane	ND		25	1.3	ug/L			04/19/19 00:51	5
cis-1,2-Dichloroethene	ND		10	1.3	ug/L			04/19/19 00:51	5
cis-1,3-Dichloropropene	ND		10	1.3	ug/L			04/19/19 00:51	5
Dibromochloromethane	ND		10	1.3	ug/L			04/19/19 00:51	5
Dibromomethane	ND		10	1.3	ug/L			04/19/19 00:51	5
Dichlorodifluoromethane	ND		25	1.3	ug/L			04/19/19 00:51	5
Dimethyl disulfide	ND		10	5.0	ug/L			04/19/19 00:51	5
Ethylbenzene	ND		10	1.3	ug/L			04/19/19 00:51	5
Hexachlorobutadiene	ND		25	1.3	ug/L			04/19/19 00:51	5
Isopropylbenzene	ND		10	1.3	ug/L			04/19/19 00:51	5
m,p-Xylene	ND		10	2.5	ug/L			04/19/19 00:51	5
Methylene Chloride	ND		10	5.5	ug/L			04/19/19 00:51	5
Naphthalene	ND		25	2.0	ug/L			04/19/19 00:51	5
n-Butylbenzene	ND		25	2.0	ug/L			04/19/19 00:51	5
N-Propylbenzene	ND		10	1.3	ug/L			04/19/19 00:51	5
o-Xylene	ND		10	1.3	ug/L			04/19/19 00:51	5
p-Isopropyltoluene	ND		10	1.3	ug/L			04/19/19 00:51	5
sec-Butylbenzene	ND		25	1.3	ug/L			04/19/19 00:51	5
Styrene	ND		10	1.3	ug/L			04/19/19 00:51	5
tert-Butylbenzene	ND		25	1.3	ug/L			04/19/19 00:51	5
Tetrachloroethene	ND		10	1.3	ug/L			04/19/19 00:51	5
Toluene	ND		10	1.3	ug/L			04/19/19 00:51	5
trans-1,2-Dichloroethene	ND		10	1.3	ug/L			04/19/19 00:51	5
trans-1,3-Dichloropropene	ND		10	1.3	ug/L			04/19/19 00:51	5
Trichloroethene	**73**		10	1.3	ug/L			04/19/19 00:51	5
Trichlorofluoromethane	ND		25	1.3	ug/L			04/19/19 00:51	5
Vinyl chloride	ND		25	1.3	ug/L			04/19/19 00:51	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/19/19 00:51*	*5*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*04/19/19 00:51*	*5*

Client Sample ID: WELL-J2-20190405

Lab Sample ID: 440-238127-17

Date Collected: 04/05/19 09:15
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		76 - 132		04/19/19 00:51	5
Toluene-d8 (Surr)	100		80 - 128		04/19/19 00:51	5

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	**620**		50	6.3	ug/L			04/19/19 01:15	25
Chlorobenzene	**1200**		50	6.3	ug/L			04/19/19 01:15	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		04/19/19 01:15	25
4-Bromofluorobenzene (Surr)	104		80 - 120		04/19/19 01:15	25
Dibromofluoromethane (Surr)	97		76 - 132		04/19/19 01:15	25
Toluene-d8 (Surr)	99		80 - 128		04/19/19 01:15	25

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDE	ND		0.099	0.020	ug/L		04/09/19 06:08	04/12/19 00:50	1
2,4'-DDT	ND		0.099	0.020	ug/L		04/09/19 06:08	04/12/19 00:50	1
4,4'-DDD	ND		0.099	0.0040	ug/L		04/09/19 06:08	04/12/19 00:50	1
4,4'-DDE	ND		0.099	0.0030	ug/L		04/09/19 06:08	04/12/19 00:50	1
4,4'-DDT	ND		0.099	0.0040	ug/L		04/09/19 06:08	04/12/19 00:50	1
Aldrin	ND		0.0050	0.0015	ug/L		04/09/19 06:08	04/12/19 00:50	1
Chlordane	ND		0.099	0.079	ug/L		04/09/19 06:08	04/12/19 00:50	1
Dieldrin	ND		0.0050	0.0020	ug/L		04/09/19 06:08	04/12/19 00:50	1
Endosulfan I	ND		0.099	0.0030	ug/L		04/09/19 06:08	04/12/19 00:50	1
Endosulfan II	ND		0.099	0.0020	ug/L		04/09/19 06:08	04/12/19 00:50	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/09/19 06:08	04/12/19 00:50	1
Endrin	ND		0.099	0.0020	ug/L		04/09/19 06:08	04/12/19 00:50	1
Endrin aldehyde	ND		0.099	0.0020	ug/L		04/09/19 06:08	04/12/19 00:50	1
Endrin ketone	ND		0.099	0.0069	ug/L		04/09/19 06:08	04/12/19 00:50	1
gamma-BHC (Lindane)	**0.034**	**J p**	0.099	0.0030	ug/L		04/09/19 06:08	04/12/19 00:50	1
Heptachlor	ND		0.0099	0.0030	ug/L		04/09/19 06:08	04/12/19 00:50	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/09/19 06:08	04/12/19 00:50	1
Methoxychlor	ND		0.099	0.0035	ug/L		04/09/19 06:08	04/12/19 00:50	1
Toxaphene	ND		5.0	0.25	ug/L		04/09/19 06:08	04/12/19 00:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	71		28 - 108	04/09/19 06:08	04/12/19 00:50	1
Tetrachloro-m-xylene	47		10 - 123	04/09/19 06:08	04/12/19 00:50	1

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.99	0.20	ug/L		04/09/19 06:08	04/10/19 20:10	10
alpha-BHC	**3.5**		0.050	0.025	ug/L		04/09/19 06:08	04/10/19 20:10	10
delta-BHC	**2.0**		2.0	0.035	ug/L		04/09/19 06:08	04/10/19 20:10	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	70		28 - 108	04/09/19 06:08	04/10/19 20:10	10
Tetrachloro-m-xylene	88		10 - 123	04/09/19 06:08	04/10/19 20:10	10

Client Sample ID: WELL-J2-20190405

Lab Sample ID: 440-238127-17

Date Collected: 04/05/19 09:15
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8081A - Organochlorine Pesticides (GC) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	**12**		0.50	0.20	ug/L		04/09/19 06:08	04/10/19 20:37	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*98*		*28 - 108*	*04/09/19 06:08*	*04/10/19 20:37*	*50*
Tetrachloro-m-xylene	*118*		*10 - 123*	*04/09/19 06:08*	*04/10/19 20:37*	*50*

Client Sample ID: WELL-R-20190405

Lab Sample ID: 440-238127-18

Date Collected: 04/05/19 08:55
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20	1.0	ug/L			04/19/19 11:03	4
1,1,1-Trichloroethane	ND		8.0	1.0	ug/L			04/19/19 11:03	4
1,1,2,2-Tetrachloroethane	ND		8.0	1.0	ug/L			04/19/19 11:03	4
1,1,2-Trichloroethane	ND		8.0	1.0	ug/L			04/19/19 11:03	4
1,1-Dichloroethane	**8.6**		8.0	1.0	ug/L			04/19/19 11:03	4
1,1-Dichloroethene	ND		20	1.0	ug/L			04/19/19 11:03	4
1,1-Dichloropropene	ND		8.0	1.0	ug/L			04/19/19 11:03	4
1,2,3-Trichlorobenzene	**11**	**J**	20	1.6	ug/L			04/19/19 11:03	4
1,2,3-Trichloropropane	ND		40	1.0	ug/L			04/19/19 11:03	4
1,2,4-Trichlorobenzene	**46**		20	1.6	ug/L			04/19/19 11:03	4
1,2,4-Trimethylbenzene	ND		8.0	1.0	ug/L			04/19/19 11:03	4
1,2-Dibromo-3-Chloropropane	ND		20	2.0	ug/L			04/19/19 11:03	4
1,2-Dibromoethane (EDB)	ND		8.0	1.0	ug/L			04/19/19 11:03	4
1,2-Dichloroethane	**2.4**	**J**	8.0	1.0	ug/L			04/19/19 11:03	4
1,2-Dichloropropane	ND		8.0	1.0	ug/L			04/19/19 11:03	4
1,3,5-Trimethylbenzene	ND		8.0	1.0	ug/L			04/19/19 11:03	4
1,3-Dichlorobenzene	**17**		8.0	1.0	ug/L			04/19/19 11:03	4
1,3-Dichloropropane	ND		8.0	1.0	ug/L			04/19/19 11:03	4
2,2-Dichloropropane	ND		8.0	1.6	ug/L			04/19/19 11:03	4
2-Chlorotoluene	ND		20	1.0	ug/L			04/19/19 11:03	4
4-Chlorotoluene	ND		20	1.0	ug/L			04/19/19 11:03	4
Benzene	**5.4**	**J**	8.0	1.0	ug/L			04/19/19 11:03	4
Bromobenzene	ND		20	1.0	ug/L			04/19/19 11:03	4
Bromochloromethane	ND		20	1.0	ug/L			04/19/19 11:03	4
Bromodichloromethane	ND		8.0	1.0	ug/L			04/19/19 11:03	4
Bromoform	ND		20	1.6	ug/L			04/19/19 11:03	4
Bromomethane	ND		20	1.0	ug/L			04/19/19 11:03	4
Carbon tetrachloride	ND		4.0	1.0	ug/L			04/19/19 11:03	4
Chloroethane	ND		20	1.6	ug/L			04/19/19 11:03	4
Chloroform	ND		8.0	1.0	ug/L			04/19/19 11:03	4
Chloromethane	ND		20	1.0	ug/L			04/19/19 11:03	4
cis-1,2-Dichloroethene	**1.5**	**J**	8.0	1.0	ug/L			04/19/19 11:03	4
cis-1,3-Dichloropropene	ND		8.0	1.0	ug/L			04/19/19 11:03	4
Dibromochloromethane	ND		8.0	1.0	ug/L			04/19/19 11:03	4
Dibromomethane	ND		8.0	1.0	ug/L			04/19/19 11:03	4
Dichlorodifluoromethane	ND		20	1.0	ug/L			04/19/19 11:03	4
Dimethyl disulfide	ND		8.0	4.0	ug/L			04/19/19 11:03	4
Ethylbenzene	ND		8.0	1.0	ug/L			04/19/19 11:03	4

Client Sample ID: WELL-R-20190405

Lab Sample ID: 440-238127-18

Date Collected: 04/05/19 08:55
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		20	1.0	ug/L			04/19/19 11:03	4
Isopropylbenzene	ND		8.0	1.0	ug/L			04/19/19 11:03	4
m,p-Xylene	ND		8.0	2.0	ug/L			04/19/19 11:03	4
Methylene Chloride	ND		8.0	4.4	ug/L			04/19/19 11:03	4
Naphthalene	ND		20	1.6	ug/L			04/19/19 11:03	4
n-Butylbenzene	ND		20	1.6	ug/L			04/19/19 11:03	4
N-Propylbenzene	ND		8.0	1.0	ug/L			04/19/19 11:03	4
o-Xylene	ND		8.0	1.0	ug/L			04/19/19 11:03	4
p-Isopropyltoluene	ND		8.0	1.0	ug/L			04/19/19 11:03	4
sec-Butylbenzene	ND		20	1.0	ug/L			04/19/19 11:03	4
Styrene	ND		8.0	1.0	ug/L			04/19/19 11:03	4
tert-Butylbenzene	ND		20	1.0	ug/L			04/19/19 11:03	4
Tetrachloroethene	ND		8.0	1.0	ug/L			04/19/19 11:03	4
Toluene	ND		8.0	1.0	ug/L			04/19/19 11:03	4
trans-1,2-Dichloroethene	ND		8.0	1.0	ug/L			04/19/19 11:03	4
trans-1,3-Dichloropropene	ND		8.0	1.0	ug/L			04/19/19 11:03	4
Trichloroethene	**67**		8.0	1.0	ug/L			04/19/19 11:03	4
Trichlorofluoromethane	ND		20	1.0	ug/L			04/19/19 11:03	4
Vinyl chloride	ND		20	1.0	ug/L			04/19/19 11:03	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 130*		*04/19/19 11:03*	*4*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*04/19/19 11:03*	*4*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*04/19/19 11:03*	*4*
Toluene-d8 (Surr)	*96*		*80 - 128*		*04/19/19 11:03*	*4*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	**690**		50	6.3	ug/L			04/19/19 12:28	25
1,4-Dichlorobenzene	**830**		50	6.3	ug/L			04/19/19 12:28	25
Chlorobenzene	**720**		50	6.3	ug/L			04/19/19 12:28	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 130*		*04/19/19 12:28*	*25*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*04/19/19 12:28*	*25*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*04/19/19 12:28*	*25*
Toluene-d8 (Surr)	*96*		*80 - 128*		*04/19/19 12:28*	*25*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND	F1 F2	0.10	0.021	ug/L		04/09/19 06:14	04/09/19 17:09	1
2,4'-DDE	**0.17**		0.10	0.021	ug/L		04/09/19 06:14	04/09/19 17:09	1
2,4'-DDT	**0.042**	**J**	0.10	0.021	ug/L		04/09/19 06:14	04/09/19 17:09	1
4,4'-DDD	ND		0.10	0.0041	ug/L		04/09/19 06:14	04/09/19 17:09	1
4,4'-DDE	**0.029**	**J**	0.10	0.0031	ug/L		04/09/19 06:14	04/09/19 17:09	1
4,4'-DDT	**0.021**	**J**	0.10	0.0041	ug/L		04/09/19 06:14	04/09/19 17:09	1
Aldrin	ND		0.0052	0.0016	ug/L		04/09/19 06:14	04/09/19 17:09	1
Chlordane	ND		0.10	0.083	ug/L		04/09/19 06:14	04/09/19 17:09	1
Dieldrin	ND		0.0052	0.0021	ug/L		04/09/19 06:14	04/09/19 17:09	1
Endosulfan I	ND		0.10	0.0031	ug/L		04/09/19 06:14	04/09/19 17:09	1

Client Sample ID: WELL-R-20190405

Lab Sample ID: 440-238127-18

Date Collected: 04/05/19 08:55
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	ND		0.10	0.0021	ug/L		04/09/19 06:14	04/09/19 17:09	1
Endosulfan sulfate	ND		0.21	0.0031	ug/L		04/09/19 06:14	04/09/19 17:09	1
Endrin	ND		0.10	0.0021	ug/L		04/09/19 06:14	04/09/19 17:09	1
Endrin aldehyde	ND		0.10	0.0021	ug/L		04/09/19 06:14	04/09/19 17:09	1
Endrin ketone	ND		0.10	0.0073	ug/L		04/09/19 06:14	04/09/19 17:09	1
gamma-BHC (Lindane)	**0.043**	**J p**	0.10	0.0031	ug/L		04/09/19 06:14	04/09/19 17:09	1
Heptachlor	ND		0.010	0.0031	ug/L		04/09/19 06:14	04/09/19 17:09	1
Heptachlor epoxide	ND		0.0052	0.0026	ug/L		04/09/19 06:14	04/09/19 17:09	1
Methoxychlor	ND		0.10	0.0036	ug/L		04/09/19 06:14	04/09/19 17:09	1
Toxaphene	ND		5.2	0.26	ug/L		04/09/19 06:14	04/09/19 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*49*		*28 - 108*	*04/09/19 06:14*	*04/09/19 17:09*	*1*
Tetrachloro-m-xylene	*49*		*10 - 123*	*04/09/19 06:14*	*04/09/19 17:09*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	**2.3**		0.10	0.052	ug/L		04/09/19 06:14	04/09/19 17:36	20
beta-BHC	**7.3**		0.21	0.083	ug/L		04/09/19 06:14	04/09/19 17:36	20
delta-BHC	**1.7**	**J**	4.1	0.073	ug/L		04/09/19 06:14	04/09/19 17:36	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*28 - 108*	*04/09/19 06:14*	*04/09/19 17:36*	*20*
Tetrachloro-m-xylene	*62*		*10 - 123*	*04/09/19 06:14*	*04/09/19 17:36*	*20*

Client Sample ID: WELL-D3-20190405

Lab Sample ID: 440-238127-19

Date Collected: 04/05/19 09:55
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10	0.50	ug/L			04/19/19 13:53	2
1,1,1-Trichloroethane	ND		4.0	0.50	ug/L			04/19/19 13:53	2
1,1,2,2-Tetrachloroethane	ND		4.0	0.50	ug/L			04/19/19 13:53	2
1,1,2-Trichloroethane	ND		4.0	0.50	ug/L			04/19/19 13:53	2
1,1-Dichloroethane	**4.3**		4.0	0.50	ug/L			04/19/19 13:53	2
1,1-Dichloroethene	ND		10	0.50	ug/L			04/19/19 13:53	2
1,1-Dichloropropene	ND		4.0	0.50	ug/L			04/19/19 13:53	2
1,2,3-Trichlorobenzene	**6.5**	**J**	10	0.80	ug/L			04/19/19 13:53	2
1,2,3-Trichloropropane	ND		20	0.50	ug/L			04/19/19 13:53	2
1,2,4-Trichlorobenzene	**27**		10	0.80	ug/L			04/19/19 13:53	2
1,2,4-Trimethylbenzene	ND		4.0	0.50	ug/L			04/19/19 13:53	2
1,2-Dibromo-3-Chloropropane	ND		10	1.0	ug/L			04/19/19 13:53	2
1,2-Dibromoethane (EDB)	ND		4.0	0.50	ug/L			04/19/19 13:53	2
1,2-Dichlorobenzene	**43**		4.0	0.50	ug/L			04/19/19 13:53	2
1,2-Dichloroethane	**2.4**	**J**	4.0	0.50	ug/L			04/19/19 13:53	2
1,2-Dichloropropane	ND		4.0	0.50	ug/L			04/19/19 13:53	2
1,3,5-Trimethylbenzene	ND		4.0	0.50	ug/L			04/19/19 13:53	2
1,3-Dichlorobenzene	**2.4**	**J**	4.0	0.50	ug/L			04/19/19 13:53	2
1,3-Dichloropropane	ND		4.0	0.50	ug/L			04/19/19 13:53	2
1,4-Dichlorobenzene	**60**		4.0	0.50	ug/L			04/19/19 13:53	2

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-D3-20190405

Lab Sample ID: 440-238127-19

Date Collected: 04/05/19 09:55
Date Received: 04/06/19 09:45

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		4.0	0.80	ug/L			04/19/19 13:53	2
2-Chlorotoluene	ND		10	0.50	ug/L			04/19/19 13:53	2
4-Chlorotoluene	ND		10	0.50	ug/L			04/19/19 13:53	2
Benzene	**3.4**	**J**	4.0	0.50	ug/L			04/19/19 13:53	2
Bromobenzene	ND		10	0.50	ug/L			04/19/19 13:53	2
Bromochloromethane	ND		10	0.50	ug/L			04/19/19 13:53	2
Bromodichloromethane	ND		4.0	0.50	ug/L			04/19/19 13:53	2
Bromoform	ND		10	0.80	ug/L			04/19/19 13:53	2
Bromomethane	ND		10	0.50	ug/L			04/19/19 13:53	2
Carbon tetrachloride	ND		2.0	0.50	ug/L			04/19/19 13:53	2
Chloroethane	ND		10	0.80	ug/L			04/19/19 13:53	2
Chloroform	ND		4.0	0.50	ug/L			04/19/19 13:53	2
Chloromethane	ND		10	0.50	ug/L			04/19/19 13:53	2
cis-1,2-Dichloroethene	**0.61**	**J**	4.0	0.50	ug/L			04/19/19 13:53	2
cis-1,3-Dichloropropene	ND		4.0	0.50	ug/L			04/19/19 13:53	2
Dibromochloromethane	ND		4.0	0.50	ug/L			04/19/19 13:53	2
Dibromomethane	ND		4.0	0.50	ug/L			04/19/19 13:53	2
Dichlorodifluoromethane	ND		10	0.50	ug/L			04/19/19 13:53	2
Dimethyl disulfide	**2.3**	**J**	4.0	2.0	ug/L			04/19/19 13:53	2
Ethylbenzene	ND		4.0	0.50	ug/L			04/19/19 13:53	2
Hexachlorobutadiene	ND		10	0.50	ug/L			04/19/19 13:53	2
Isopropylbenzene	ND		4.0	0.50	ug/L			04/19/19 13:53	2
m,p-Xylene	ND		4.0	1.0	ug/L			04/19/19 13:53	2
Methylene Chloride	ND		4.0	2.2	ug/L			04/19/19 13:53	2
Naphthalene	ND		10	0.80	ug/L			04/19/19 13:53	2
n-Butylbenzene	ND		10	0.80	ug/L			04/19/19 13:53	2
N-Propylbenzene	ND		4.0	0.50	ug/L			04/19/19 13:53	2
o-Xylene	ND		4.0	0.50	ug/L			04/19/19 13:53	2
p-Isopropyltoluene	ND		4.0	0.50	ug/L			04/19/19 13:53	2
sec-Butylbenzene	ND		10	0.50	ug/L			04/19/19 13:53	2
Styrene	ND		4.0	0.50	ug/L			04/19/19 13:53	2
tert-Butylbenzene	**0.81**	**J**	10	0.50	ug/L			04/19/19 13:53	2
Tetrachloroethene	ND		4.0	0.50	ug/L			04/19/19 13:53	2
Toluene	ND		4.0	0.50	ug/L			04/19/19 13:53	2
trans-1,2-Dichloroethene	ND		4.0	0.50	ug/L			04/19/19 13:53	2
trans-1,3-Dichloropropene	ND		4.0	0.50	ug/L			04/19/19 13:53	2
Trichloroethene	**8.1**		4.0	0.50	ug/L			04/19/19 13:53	2
Trichlorofluoromethane	ND		10	0.50	ug/L			04/19/19 13:53	2
Vinyl chloride	ND		10	0.50	ug/L			04/19/19 13:53	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*70 - 130*		*04/19/19 13:53*	*2*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/19/19 13:53*	*2*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*04/19/19 13:53*	*2*
Toluene-d8 (Surr)	*94*		*80 - 128*		*04/19/19 13:53*	*2*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**460**		20	2.5	ug/L			04/19/19 14:21	10

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-D3-20190405

Lab Sample ID: 440-238127-19

Date Collected: 04/05/19 09:55
Date Received: 04/06/19 09:45

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	126		70 - 130		04/19/19 14:21	10
4-Bromofluorobenzene (Surr)	97		80 - 120		04/19/19 14:21	10
Dibromofluoromethane (Surr)	115		76 - 132		04/19/19 14:21	10
Toluene-d8 (Surr)	96		80 - 128		04/19/19 14:21	10

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.097	0.019	ug/L		04/09/19 06:14	04/09/19 19:23	1
2,4'-DDE	**0.21**		0.097	0.019	ug/L		04/09/19 06:14	04/09/19 19:23	1
2,4'-DDT	**0.047**	**J**	0.097	0.019	ug/L		04/09/19 06:14	04/09/19 19:23	1
4,4'-DDD	ND		0.097	0.0039	ug/L		04/09/19 06:14	04/09/19 19:23	1
4,4'-DDE	ND		0.097	0.0029	ug/L		04/09/19 06:14	04/09/19 19:23	1
4,4'-DDT	ND		0.097	0.0039	ug/L		04/09/19 06:14	04/09/19 19:23	1
Aldrin	ND		0.0049	0.0015	ug/L		04/09/19 06:14	04/09/19 19:23	1
Chlordane	ND		0.097	0.078	ug/L		04/09/19 06:14	04/09/19 19:23	1
Dieldrin	ND		0.0049	0.0019	ug/L		04/09/19 06:14	04/09/19 19:23	1
Endosulfan I	**0.0069**	**J**	0.097	0.0029	ug/L		04/09/19 06:14	04/09/19 19:23	1
Endosulfan II	ND		0.097	0.0019	ug/L		04/09/19 06:14	04/09/19 19:23	1
Endosulfan sulfate	ND		0.19	0.0029	ug/L		04/09/19 06:14	04/09/19 19:23	1
Endrin	ND		0.097	0.0019	ug/L		04/09/19 06:14	04/09/19 19:23	1
Endrin aldehyde	ND		0.097	0.0019	ug/L		04/09/19 06:14	04/09/19 19:23	1
Endrin ketone	ND		0.097	0.0068	ug/L		04/09/19 06:14	04/09/19 19:23	1
gamma-BHC (Lindane)	**0.032**	**J p**	0.097	0.0029	ug/L		04/09/19 06:14	04/09/19 19:23	1
Heptachlor	ND		0.0097	0.0029	ug/L		04/09/19 06:14	04/09/19 19:23	1
Heptachlor epoxide	ND		0.0049	0.0024	ug/L		04/09/19 06:14	04/09/19 19:23	1
Methoxychlor	ND		0.097	0.0034	ug/L		04/09/19 06:14	04/09/19 19:23	1
Toxaphene	ND		4.9	0.24	ug/L		04/09/19 06:14	04/09/19 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	51		28 - 108	04/09/19 06:14	04/09/19 19:23	1
Tetrachloro-m-xylene	66		10 - 123	04/09/19 06:14	04/09/19 19:23	1

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	**2.2**		0.024	0.012	ug/L		04/09/19 06:14	04/09/19 19:50	5
delta-BHC	**1.2**		0.97	0.017	ug/L		04/09/19 06:14	04/09/19 19:50	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	58		28 - 108	04/09/19 06:14	04/09/19 19:50	5
Tetrachloro-m-xylene	89		10 - 123	04/09/19 06:14	04/09/19 19:50	5

Method: 8081A - Organochlorine Pesticides (GC) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	**5.4**		0.19	0.078	ug/L		04/09/19 06:14	04/09/19 20:17	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	70		28 - 108	04/09/19 06:14	04/09/19 20:17	20
Tetrachloro-m-xylene	63		10 - 123	04/09/19 06:14	04/09/19 20:17	20

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-M2-20190405

Lab Sample ID: 440-238127-20

Date Collected: 04/05/19 12:45
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		500	25	ug/L			04/19/19 14:49	100
1,1,1-Trichloroethane	ND		200	25	ug/L			04/19/19 14:49	100
1,1,2,2-Tetrachloroethane	ND		200	25	ug/L			04/19/19 14:49	100
1,1,2-Trichloroethane	ND		200	25	ug/L			04/19/19 14:49	100
1,1-Dichloroethane	**76**	**J**	200	25	ug/L			04/19/19 14:49	100
1,1-Dichloroethene	ND		500	25	ug/L			04/19/19 14:49	100
1,1-Dichloropropene	ND		200	25	ug/L			04/19/19 14:49	100
1,2,3-Trichlorobenzene	ND		500	40	ug/L			04/19/19 14:49	100
1,2,3-Trichloropropane	ND		1000	25	ug/L			04/19/19 14:49	100
1,2,4-Trichlorobenzene	**81**	**J**	500	40	ug/L			04/19/19 14:49	100
1,2,4-Trimethylbenzene	ND		200	25	ug/L			04/19/19 14:49	100
1,2-Dibromo-3-Chloropropane	ND		500	50	ug/L			04/19/19 14:49	100
1,2-Dibromoethane (EDB)	ND		200	25	ug/L			04/19/19 14:49	100
1,2-Dichlorobenzene	**580**		200	25	ug/L			04/19/19 14:49	100
1,2-Dichloroethane	ND		200	25	ug/L			04/19/19 14:49	100
1,2-Dichloropropane	ND		200	25	ug/L			04/19/19 14:49	100
1,3,5-Trimethylbenzene	ND		200	25	ug/L			04/19/19 14:49	100
1,3-Dichlorobenzene	ND		200	25	ug/L			04/19/19 14:49	100
1,3-Dichloropropane	ND		200	25	ug/L			04/19/19 14:49	100
1,4-Dichlorobenzene	**1000**		200	25	ug/L			04/19/19 14:49	100
2,2-Dichloropropane	ND		200	40	ug/L			04/19/19 14:49	100
2-Chlorotoluene	ND		500	25	ug/L			04/19/19 14:49	100
4-Chlorotoluene	ND		500	25	ug/L			04/19/19 14:49	100
Benzene	**6300**		200	25	ug/L			04/19/19 14:49	100
Bromobenzene	ND		500	25	ug/L			04/19/19 14:49	100
Bromochloromethane	ND		500	25	ug/L			04/19/19 14:49	100
Bromodichloromethane	ND		200	25	ug/L			04/19/19 14:49	100
Bromoform	ND		500	40	ug/L			04/19/19 14:49	100
Bromomethane	ND		500	25	ug/L			04/19/19 14:49	100
Carbon tetrachloride	ND		100	25	ug/L			04/19/19 14:49	100
Chloroethane	ND		500	40	ug/L			04/19/19 14:49	100
Chloroform	ND		200	25	ug/L			04/19/19 14:49	100
Chloromethane	ND		500	25	ug/L			04/19/19 14:49	100
cis-1,2-Dichloroethene	ND		200	25	ug/L			04/19/19 14:49	100
cis-1,3-Dichloropropene	ND		200	25	ug/L			04/19/19 14:49	100
Dibromochloromethane	ND		200	25	ug/L			04/19/19 14:49	100
Dibromomethane	ND		200	25	ug/L			04/19/19 14:49	100
Dichlorodifluoromethane	ND		500	25	ug/L			04/19/19 14:49	100
Dimethyl disulfide	ND		200	100	ug/L			04/19/19 14:49	100
Ethylbenzene	ND		200	25	ug/L			04/19/19 14:49	100
Hexachlorobutadiene	ND		500	25	ug/L			04/19/19 14:49	100
Isopropylbenzene	ND		200	25	ug/L			04/19/19 14:49	100
m,p-Xylene	ND		200	50	ug/L			04/19/19 14:49	100
Methylene Chloride	ND		200	110	ug/L			04/19/19 14:49	100
Naphthalene	ND		500	40	ug/L			04/19/19 14:49	100
n-Butylbenzene	ND		500	40	ug/L			04/19/19 14:49	100
N-Propylbenzene	ND		200	25	ug/L			04/19/19 14:49	100
o-Xylene	ND		200	25	ug/L			04/19/19 14:49	100
p-Isopropyltoluene	ND		200	25	ug/L			04/19/19 14:49	100

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-M2-20190405

Lab Sample ID: 440-238127-20

Date Collected: 04/05/19 12:45
Date Received: 04/06/19 09:45

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		500	25	ug/L			04/19/19 14:49	100
Styrene	ND		200	25	ug/L			04/19/19 14:49	100
tert-Butylbenzene	ND		500	25	ug/L			04/19/19 14:49	100
Tetrachloroethene	ND		200	25	ug/L			04/19/19 14:49	100
Toluene	ND		200	25	ug/L			04/19/19 14:49	100
trans-1,2-Dichloroethene	ND		200	25	ug/L			04/19/19 14:49	100
trans-1,3-Dichloropropene	ND		200	25	ug/L			04/19/19 14:49	100
Trichloroethene	**42**	**J**	200	25	ug/L			04/19/19 14:49	100
Trichlorofluoromethane	ND		500	25	ug/L			04/19/19 14:49	100
Vinyl chloride	ND		500	25	ug/L			04/19/19 14:49	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*		*04/19/19 14:49*	*100*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*04/19/19 14:49*	*100*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*04/19/19 14:49*	*100*
Toluene-d8 (Surr)	*94*		*80 - 128*		*04/19/19 14:49*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**15000**		2000	250	ug/L			04/19/19 15:18	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*		*04/19/19 15:18*	*1000*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*04/19/19 15:18*	*1000*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*04/19/19 15:18*	*1000*
Toluene-d8 (Surr)	*96*		*80 - 128*		*04/19/19 15:18*	*1000*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.097	0.019	ug/L		04/09/19 06:14	04/09/19 20:43	1
2,4'-DDE	ND		0.097	0.019	ug/L		04/09/19 06:14	04/09/19 20:43	1
2,4'-DDT	ND		0.097	0.019	ug/L		04/09/19 06:14	04/09/19 20:43	1
4,4'-DDD	ND		0.097	0.0039	ug/L		04/09/19 06:14	04/09/19 20:43	1
4,4'-DDE	ND		0.097	0.0029	ug/L		04/09/19 06:14	04/09/19 20:43	1
4,4'-DDT	ND		0.097	0.0039	ug/L		04/09/19 06:14	04/09/19 20:43	1
Aldrin	ND		0.0048	0.0014	ug/L		04/09/19 06:14	04/09/19 20:43	1
Chlordane	ND		0.097	0.077	ug/L		04/09/19 06:14	04/09/19 20:43	1
Dieldrin	ND		0.0048	0.0019	ug/L		04/09/19 06:14	04/09/19 20:43	1
Endosulfan I	ND		0.097	0.0029	ug/L		04/09/19 06:14	04/09/19 20:43	1
Endosulfan II	ND		0.097	0.0019	ug/L		04/09/19 06:14	04/09/19 20:43	1
Endosulfan sulfate	ND		0.19	0.0029	ug/L		04/09/19 06:14	04/09/19 20:43	1
Endrin	ND		0.097	0.0019	ug/L		04/09/19 06:14	04/09/19 20:43	1
Endrin aldehyde	ND		0.097	0.0019	ug/L		04/09/19 06:14	04/09/19 20:43	1
Endrin ketone	ND		0.097	0.0068	ug/L		04/09/19 06:14	04/09/19 20:43	1
gamma-BHC (Lindane)	ND		0.097	0.0029	ug/L		04/09/19 06:14	04/09/19 20:43	1
Heptachlor	ND		0.0097	0.0029	ug/L		04/09/19 06:14	04/09/19 20:43	1
Heptachlor epoxide	ND		0.0048	0.0024	ug/L		04/09/19 06:14	04/09/19 20:43	1
Methoxychlor	ND		0.097	0.0034	ug/L		04/09/19 06:14	04/09/19 20:43	1
Toxaphene	ND		4.8	0.24	ug/L		04/09/19 06:14	04/09/19 20:43	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-M2-20190405

Lab Sample ID: 440-238127-20

Date Collected: 04/05/19 12:45
Matrix: Water
Date Received: 04/06/19 09:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	55		28 - 108	04/09/19 06:14	04/09/19 20:43	1
Tetrachloro-m-xylene	99		10 - 123	04/09/19 06:14	04/09/19 20:43	1

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	8.6		0.097	0.048	ug/L		04/09/19 06:14	04/09/19 21:10	20
beta-BHC	8.2		0.19	0.077	ug/L		04/09/19 06:14	04/09/19 21:10	20
delta-BHC	3.3	J	3.9	0.068	ug/L		04/09/19 06:14	04/09/19 21:10	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	70		28 - 108	04/09/19 06:14	04/09/19 21:10	20
Tetrachloro-m-xylene	82		10 - 123	04/09/19 06:14	04/09/19 21:10	20

Client Sample ID: WELL-Q-20190405 DUP

Lab Sample ID: 440-238127-21

Date Collected: 04/05/19 08:35
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H	5.0	0.25	ug/L			05/03/19 17:34	1
1,1,1-Trichloroethane	ND	H	2.0	0.25	ug/L			05/03/19 17:34	1
1,1,2,2-Tetrachloroethane	ND	H	2.0	0.25	ug/L			05/03/19 17:34	1
1,1,2-Trichloroethane	0.88	J H	2.0	0.25	ug/L			05/03/19 17:34	1
1,1-Dichloroethane	8.3	H	2.0	0.25	ug/L			05/03/19 17:34	1
1,1-Dichloroethene	1.1	J H	5.0	0.25	ug/L			05/03/19 17:34	1
1,1-Dichloropropene	ND	H	2.0	0.25	ug/L			05/03/19 17:34	1
1,2,3-Trichlorobenzene	5.1	H	5.0	0.40	ug/L			05/03/19 17:34	1
1,2,3-Trichloropropane	ND	H	10	0.25	ug/L			05/03/19 17:34	1
1,2,4-Trichlorobenzene	24	H	5.0	0.40	ug/L			05/03/19 17:34	1
1,2,4-Trimethylbenzene	ND	H	2.0	0.25	ug/L			05/03/19 17:34	1
1,2-Dibromo-3-Chloropropane	ND	H	5.0	0.50	ug/L			05/03/19 17:34	1
1,2-Dibromoethane (EDB)	ND	H	2.0	0.25	ug/L			05/03/19 17:34	1
1,2-Dichloroethane	1.1	J H	2.0	0.25	ug/L			05/03/19 17:34	1
1,2-Dichloropropane	ND	H	2.0	0.25	ug/L			05/03/19 17:34	1
1,3,5-Trimethylbenzene	ND	H	2.0	0.25	ug/L			05/03/19 17:34	1
1,3-Dichlorobenzene	11	H	2.0	0.25	ug/L			05/03/19 17:34	1
1,3-Dichloropropane	ND	H	2.0	0.25	ug/L			05/03/19 17:34	1
2,2-Dichloropropane	ND	H	2.0	0.40	ug/L			05/03/19 17:34	1
2-Chlorotoluene	0.26	J H	5.0	0.25	ug/L			05/03/19 17:34	1
4-Chlorotoluene	ND	H	5.0	0.25	ug/L			05/03/19 17:34	1
Benzene	2.1	H	2.0	0.25	ug/L			05/03/19 17:34	1
Bromobenzene	ND	H	5.0	0.25	ug/L			05/03/19 17:34	1
Bromochloromethane	ND	H	5.0	0.25	ug/L			05/03/19 17:34	1
Bromodichloromethane	ND	H	2.0	0.25	ug/L			05/03/19 17:34	1
Bromoform	ND	H	5.0	0.40	ug/L			05/03/19 17:34	1
Bromomethane	ND	H	5.0	0.25	ug/L			05/03/19 17:34	1
Carbon tetrachloride	ND	H	1.0	0.25	ug/L			05/03/19 17:34	1
Chloroethane	ND	H	5.0	0.40	ug/L			05/03/19 17:34	1
Chloroform	0.50	J H	2.0	0.25	ug/L			05/03/19 17:34	1
Chloromethane	ND	H	5.0	0.25	ug/L			05/03/19 17:34	1
cis-1,2-Dichloroethene	0.97	J H	2.0	0.25	ug/L			05/03/19 17:34	1

Client Sample ID: WELL-Q-20190405 DUP

Lab Sample ID: 440-238127-21

Date Collected: 04/05/19 08:35
Matrix: Water
Date Received: 04/06/19 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND	H	2.0	0.25	ug/L			05/03/19 17:34	1
Dibromochloromethane	ND	H	2.0	0.25	ug/L			05/03/19 17:34	1
Dibromomethane	ND	H	2.0	0.25	ug/L			05/03/19 17:34	1
Dichlorodifluoromethane	ND	H	5.0	0.25	ug/L			05/03/19 17:34	1
Dimethyl disulfide	ND	H	2.0	1.0	ug/L			05/03/19 17:34	1
Ethylbenzene	ND	H	2.0	0.25	ug/L			05/03/19 17:34	1
Hexachlorobutadiene	ND	H	5.0	0.25	ug/L			05/03/19 17:34	1
Isopropylbenzene	ND	H	2.0	0.25	ug/L			05/03/19 17:34	1
m,p-Xylene	ND	H	2.0	0.50	ug/L			05/03/19 17:34	1
Methylene Chloride	ND	H	2.0	1.1	ug/L			05/03/19 17:34	1
Naphthalene	ND	H	5.0	0.40	ug/L			05/03/19 17:34	1
n-Butylbenzene	ND	H	5.0	0.40	ug/L			05/03/19 17:34	1
N-Propylbenzene	ND	H	2.0	0.25	ug/L			05/03/19 17:34	1
o-Xylene	ND	H	2.0	0.25	ug/L			05/03/19 17:34	1
p-Isopropyltoluene	ND	H	2.0	0.25	ug/L			05/03/19 17:34	1
sec-Butylbenzene	ND	H	5.0	0.25	ug/L			05/03/19 17:34	1
Styrene	ND	H	2.0	0.25	ug/L			05/03/19 17:34	1
tert-Butylbenzene	ND	H	5.0	0.25	ug/L			05/03/19 17:34	1
Tetrachloroethene	ND	H	2.0	0.25	ug/L			05/03/19 17:34	1
Toluene	ND	H	2.0	0.25	ug/L			05/03/19 17:34	1
trans-1,2-Dichloroethene	ND	H	2.0	0.25	ug/L			05/03/19 17:34	1
trans-1,3-Dichloropropene	ND	H	2.0	0.25	ug/L			05/03/19 17:34	1
Trichloroethene	**50**	**H**	2.0	0.25	ug/L			05/03/19 17:34	1
Trichlorofluoromethane	ND	H	5.0	0.25	ug/L			05/03/19 17:34	1
Vinyl chloride	ND	H	5.0	0.25	ug/L			05/03/19 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*		*05/03/19 17:34*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*05/03/19 17:34*	*1*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*05/03/19 17:34*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*05/03/19 17:34*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	**340**	**H**	20	2.5	ug/L			05/03/19 17:59	10
1,4-Dichlorobenzene	**450**	**H**	20	2.5	ug/L			05/03/19 17:59	10
Chlorobenzene	**440**	**H**	20	2.5	ug/L			05/03/19 17:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 130*		*05/03/19 17:59*	*10*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*05/03/19 17:59*	*10*
Dibromofluoromethane (Surr)	*120*		*76 - 132*		*05/03/19 17:59*	*10*
Toluene-d8 (Surr)	*93*		*80 - 128*		*05/03/19 17:59*	*10*

Surrogate Summary

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-130)	(80-120)	(76-132)	(80-128)
440-238127-1	TB-20190405	96	96	102	103
440-238127-2	PL-500-20190405	99	95	104	105
440-238127-3	PL-501-20190405	116	87	119	93
440-238127-3 - DL	PL-501-20190405	117	92	124	101
440-238127-3 - RA	PL-501-20190405	99	95	104	104
440-238127-3 MS	PL-501-20190405	107	92	115	94
440-238127-3 MSD	PL-501-20190405	104	88	114	96
440-238127-4	WELL-E3-20190405	118	91	127	100
440-238127-4 - DL	WELL-E3-20190405	126	91	126	96
440-238127-5	WELL-F-20190405	127	89	129	97
440-238127-5 - DL	WELL-F-20190405	126	93	129	102
440-238127-6	WELL-G-20190405	109	92	121	97
440-238127-6 - DL	WELL-G-20190405	122	91	124	101
440-238127-7	WELL-D2-20190405	125	95	134 X	95
440-238127-7 - DL	WELL-D2-20190405	116	99	111	96
440-238127-8	WELL-H2-20190405	108	88	118	98
440-238127-8 - DL	WELL-H2-20190405	121	84	121	102
440-238127-9	WELL-I-20190405	124	86	131	97
440-238127-9 - DL	WELL-I-20190405	122	99	114	95
440-238127-10	WELL-J-20190405	120	86	118	98
440-238127-10 - DL	WELL-J-20190405	122	100	115	95
440-238127-11	WELL-K2-20190405	110	84	119	95
440-238127-11 - DL	WELL-K2-20190405	123	86	124	102
440-238127-12	WELL-L-20190405	99	104	96	100
440-238127-12 - DL	WELL-L-20190405	97	103	98	102
440-238127-13	WELL-N-20190405	96	106	96	100
440-238127-13 - DL	WELL-N-20190405	98	106	95	100
440-238127-13 MS	WELL-N-20190405	96	104	96	99
440-238127-13 MSD	WELL-N-20190405	96	102	96	100
440-238127-14	WELL-P-20190405	99	95	104	105
440-238127-15	WELL-O-20190405	97	105	94	99
440-238127-15 - DL	WELL-O-20190405	99	105	97	101
440-238127-16	WELL-Q-20190405	98	96	103	103
440-238127-16 - DL	WELL-Q-20190405	100	106	99	101
440-238127-17	WELL-J2-20190405	99	100	100	100
440-238127-17 - DL	WELL-J2-20190405	99	104	97	99
440-238127-18 - DL	WELL-R-20190405	118	98	112	96
440-238127-18	WELL-R-20190405	118	92	110	96
440-238127-18 MS	WELL-R-20190405	108	96	106	96
440-238127-18 MSD	WELL-R-20190405	117	95	109	92
440-238127-19	WELL-D3-20190405	121	95	112	94
440-238127-19 - DL	WELL-D3-20190405	126	97	115	96
440-238127-20	WELL-M2-20190405	116	99	109	94
440-238127-20 - DL	WELL-M2-20190405	119	99	111	96
440-238127-21	WELL-Q-20190405 DUP	117	105	110	98
440-238127-21 - DL	WELL-Q-20190405 DUP	122	105	120	93
440-238310-A-6 MS	Matrix Spike	98	94	104	104
440-238310-A-6 MSD	Matrix Spike Duplicate	97	97	103	102
440-239636-A-10 MS	Matrix Spike	113	104	110	104

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (70-130)	BFB (80-120)	DBFM (76-132)	TOL (80-128)
440-239636-A-10 MSD	Matrix Spike Duplicate	115	97	113	99
LCS 440-541078/5	Lab Control Sample	95	96	102	102
LCS 440-541083/8	Lab Control Sample	106	90	112	107
LCS 440-541250/6	Lab Control Sample	97	105	96	100
LCS 440-541366/7	Lab Control Sample	100	100	99	99
LCS 440-544150/5	Lab Control Sample	116	97	114	99
MB 440-541078/4	Method Blank	98	95	107	108
MB 440-541083/7	Method Blank	119	85	128	107
MB 440-541250/5	Method Blank	99	105	96	102
MB 440-541366/6	Method Blank	108	98	107	96
MB 440-541376/7	Method Blank	100	95	106	106
MB 440-544150/4	Method Blank	117	99	111	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCB2 (28-108)	TCX2 (10-123)
440-238127-3 - DL	PL-501-20190405	65	65
440-238127-3 - DL2	PL-501-20190405	65	63
440-238127-3	PL-501-20190405	69	53
440-238127-4 - DL2	WELL-E3-20190405	71	85
440-238127-4 - DL3	WELL-E3-20190405	77	71
440-238127-4	WELL-E3-20190405	63	78
440-238127-4 - DL	WELL-E3-20190405	59	48
440-238127-5 - DL2	WELL-F-20190405	67	65
440-238127-5 - DL3	WELL-F-20190405	85	99
440-238127-5	WELL-F-20190405	58	55
440-238127-5 - DL	WELL-F-20190405	51	47
440-238127-6 - DL	WELL-G-20190405	71	81
440-238127-6 - DL2	WELL-G-20190405	105	111
440-238127-6	WELL-G-20190405	58	49
440-238127-7 - DL2	WELL-D2-20190405	77	62
440-238127-7	WELL-D2-20190405	63	50
440-238127-7 - DL	WELL-D2-20190405	51	81
440-238127-8 - DL	WELL-H2-20190405	65	84
440-238127-8 - DL2	WELL-H2-20190405	94	197 X
440-238127-8	WELL-H2-20190405	88	97
440-238127-9 - DL	WELL-I-20190405	56	55
440-238127-9	WELL-I-20190405	68	51
440-238127-10 - DL	WELL-J-20190405	63	47
440-238127-10 - DL2	WELL-J-20190405	89	73
440-238127-10	WELL-J-20190405	60	43
440-238127-11 - DL	WELL-K2-20190405	62	75

Surrogate Summary

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DCB2 (28-108)	TCX2 (10-123)						
440-238127-11 - DL2	WELL-K2-20190405	113 X	132 X						
440-238127-11 - DL3	WELL-K2-20190405	106	242 X						
440-238127-11	WELL-K2-20190405	52	56						
440-238127-12 - DL2	WELL-L-20190405	69	61						
440-238127-12 - DL3	WELL-L-20190405	91	85						
440-238127-12	WELL-L-20190405	66	58						
440-238127-12 - DL	WELL-L-20190405	58	50						
440-238127-13 - DL2	WELL-N-20190405	67	61						
440-238127-13	WELL-N-20190405	57	56						
440-238127-13 - DL2	WELL-N-20190405	71	60						
440-238127-13 - DL	WELL-N-20190405	58	50						
440-238127-13 MS	WELL-N-20190405	59	63						
440-238127-13 MSD	WELL-N-20190405	59	58						
440-238127-14 - DL	WELL-P-20190405	76	58						
440-238127-14	WELL-P-20190405	69	51						
440-238127-15 - DL	WELL-O-20190405	76	87						
440-238127-15 - DL2	WELL-O-20190405	100	106						
440-238127-15	WELL-O-20190405	63	66						
440-238127-16 - DL	WELL-Q-20190405	81	60						
440-238127-16	WELL-Q-20190405	76	53						
440-238127-17 - DL	WELL-J2-20190405	70	88						
440-238127-17 - DL2	WELL-J2-20190405	98	118						
440-238127-17	WELL-J2-20190405	71	47						
440-238127-18	WELL-R-20190405	49	49						
440-238127-18 - DL	WELL-R-20190405	74	62						
440-238127-18 MS	WELL-R-20190405	53	55						
440-238127-18 MSD	WELL-R-20190405	55	56						
440-238127-19	WELL-D3-20190405	51	66						
440-238127-19 - DL	WELL-D3-20190405	58	89						
440-238127-19 - DL2	WELL-D3-20190405	70	63						
440-238127-20	WELL-M2-20190405	55	99						
440-238127-20 - DL	WELL-M2-20190405	70	82						
LCS 440-539097/2-A	Lab Control Sample	73	51						
LCS 440-539101/2-A	Lab Control Sample	63	52						
MB 440-539097/1-A	Method Blank	83	59						
MB 440-539101/1-A	Method Blank	58	45						

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method Summary

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: TB-20190405 — Lab Sample ID: 440-238127-1

Date Collected: 04/05/19 07:00 — **Matrix: Water**
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	541078	04/18/19 12:14	RM	TAL IRV

Client Sample ID: PL-500-20190405 — Lab Sample ID: 440-238127-2

Date Collected: 04/05/19 08:45 — **Matrix: Water**
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	541078	04/18/19 12:40	RM	TAL IRV

Client Sample ID: PL-501-20190405 — Lab Sample ID: 440-238127-3

Date Collected: 04/05/19 10:00 — **Matrix: Water**
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	541376	04/19/19 10:13	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	541083	04/18/19 11:49	TCN	TAL IRV
Total/NA	Analysis	8260B	DL	10	10 mL	10 mL	541083	04/18/19 12:16	TCN	TAL IRV
Total/NA	Prep	3510C	DL2		1000 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL2	20			539700	04/11/19 14:02	D1D	TAL IRV
Total/NA	Prep	3510C	DL		1000 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL	5			539482	04/10/19 15:26	D1D	TAL IRV
Total/NA	Prep	3510C			1000 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A		1			539790	04/11/19 19:15	D1D	TAL IRV

Client Sample ID: WELL-E3-20190405 — Lab Sample ID: 440-238127-4

Date Collected: 04/05/19 10:10 — **Matrix: Water**
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	10 mL	10 mL	541083	04/18/19 12:43	TCN	TAL IRV
Total/NA	Analysis	8260B	DL	100	10 mL	10 mL	541083	04/18/19 13:10	TCN	TAL IRV
Total/NA	Prep	3510C	DL2		1015 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL2	10			539482	04/10/19 15:52	D1D	TAL IRV
Total/NA	Prep	3510C	DL3		1015 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL3	50			539482	04/10/19 16:17	D1D	TAL IRV
Total/NA	Prep	3510C			1015 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A		1			539790	04/11/19 19:41	D1D	TAL IRV
Total/NA	Prep	3510C	DL		1015 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL	5			540074	04/12/19 23:33	D1D	TAL IRV

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-F-20190405
Lab Sample ID: 440-238127-5
Date Collected: 04/05/19 10:45
Matrix: Water
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	10 mL	10 mL	541083	04/18/19 13:37	TCN	TAL IRV
Total/NA	Analysis	8260B	DL	200	10 mL	10 mL	541083	04/18/19 14:04	TCN	TAL IRV
Total/NA	Prep	3510C	DL2		1035 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL2	10			539482	04/10/19 16:43	D1D	TAL IRV
Total/NA	Prep	3510C	DL3		1035 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL3	100			539482	04/10/19 17:09	D1D	TAL IRV
Total/NA	Prep	3510C			1035 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A		1			539790	04/11/19 20:06	D1D	TAL IRV
Total/NA	Prep	3510C	DL		1035 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL	5			540074	04/12/19 23:58	D1D	TAL IRV

Client Sample ID: WELL-G-20190405
Lab Sample ID: 440-238127-6
Date Collected: 04/05/19 11:15
Matrix: Water
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	10 mL	10 mL	541083	04/18/19 14:31	TCN	TAL IRV
Total/NA	Analysis	8260B	DL	1000	10 mL	10 mL	541083	04/18/19 14:58	TCN	TAL IRV
Total/NA	Prep	3510C	DL		1030 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL	10			539482	04/10/19 17:35	D1D	TAL IRV
Total/NA	Prep	3510C	DL2		1030 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL2	50			539482	04/10/19 18:00	D1D	TAL IRV
Total/NA	Prep	3510C			1030 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A		1			539790	04/11/19 20:32	D1D	TAL IRV

Client Sample ID: WELL-D2-20190405
Lab Sample ID: 440-238127-7
Date Collected: 04/05/19 09:45
Matrix: Water
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	10 mL	10 mL	541083	04/18/19 15:25	TCN	TAL IRV
Total/NA	Analysis	8260B	DL	50	10 mL	10 mL	541366	04/19/19 10:35	RM	TAL IRV
Total/NA	Prep	3510C	DL2		1025 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL2	20			539482	04/10/19 18:26	D1D	TAL IRV
Total/NA	Prep	3510C			1025 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A		1			539790	04/11/19 20:58	D1D	TAL IRV
Total/NA	Prep	3510C	DL		1025 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL	5			540074	04/13/19 00:24	D1D	TAL IRV

Client Sample ID: WELL-H2-20190405
Lab Sample ID: 440-238127-8
Date Collected: 04/05/19 12:25
Matrix: Water
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	10 mL	10 mL	541083	04/18/19 16:19	TCN	TAL IRV

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-H2-20190405

Lab Sample ID: 440-238127-8
Date Collected: 04/05/19 12:25
Matrix: Water
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	1000	10 mL	10 mL	541083	04/18/19 16:46	TCN	TAL IRV
Total/NA	Prep	3510C	DL		990 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL	10			539167	04/09/19 19:46	D1D	TAL IRV
Total/NA	Prep	3510C	DL2		990 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL2	500			539482	04/10/19 19:18	D1D	TAL IRV
Total/NA	Prep	3510C			990 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A		1			539790	04/11/19 21:24	D1D	TAL IRV

Client Sample ID: WELL-I-20190405

Lab Sample ID: 440-238127-9
Date Collected: 04/05/19 12:50
Matrix: Water
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	10 mL	10 mL	541083	04/18/19 17:14	TCN	TAL IRV
Total/NA	Analysis	8260B	DL	200	10 mL	10 mL	541366	04/19/19 12:56	RM	TAL IRV
Total/NA	Prep	3510C	DL		1020 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL	5			539700	04/11/19 14:29	D1D	TAL IRV
Total/NA	Prep	3510C			1020 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A		1			539790	04/11/19 21:49	D1D	TAL IRV

Client Sample ID: WELL-J-20190405

Lab Sample ID: 440-238127-10
Date Collected: 04/05/19 09:05
Matrix: Water
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	10 mL	10 mL	541083	04/18/19 18:08	TCN	TAL IRV
Total/NA	Analysis	8260B	DL	50	10 mL	10 mL	541366	04/19/19 13:24	RM	TAL IRV
Total/NA	Prep	3510C	DL		995 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL	5			539482	04/10/19 20:09	D1D	TAL IRV
Total/NA	Prep	3510C	DL2		995 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL2	50			539482	04/10/19 20:35	D1D	TAL IRV
Total/NA	Prep	3510C			995 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A		1			539790	04/11/19 22:15	D1D	TAL IRV

Client Sample ID: WELL-K2-20190405

Lab Sample ID: 440-238127-11
Date Collected: 04/05/19 12:35
Matrix: Water
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	10 mL	10 mL	541083	04/18/19 19:02	TCN	TAL IRV
Total/NA	Analysis	8260B	DL	500	10 mL	10 mL	541083	04/18/19 19:29	TCN	TAL IRV
Total/NA	Prep	3510C	DL		1040 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL	20			539167	04/09/19 21:29	D1D	TAL IRV
Total/NA	Prep	3510C	DL2		1040 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL2	100			539482	04/10/19 21:01	D1D	TAL IRV

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-K2-20190405
Lab Sample ID: 440-238127-11

Date Collected: 04/05/19 12:35
Matrix: Water
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	DL3		1040 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL3	500			539482	04/10/19 21:26	D1D	TAL IRV
Total/NA	Prep	3510C			1040 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A		1			539790	04/11/19 22:41	D1D	TAL IRV

Client Sample ID: WELL-L-20190405
Lab Sample ID: 440-238127-12

Date Collected: 04/05/19 10:35
Matrix: Water
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		40	10 mL	10 mL	541250	04/18/19 23:13	JB	TAL IRV
Total/NA	Analysis	8260B	DL	200	10 mL	10 mL	541250	04/18/19 23:38	JB	TAL IRV
Total/NA	Prep	3510C	DL2		1050 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL2	10			539482	04/10/19 21:52	D1D	TAL IRV
Total/NA	Prep	3510C	DL3		1050 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL3	50			539482	04/10/19 22:18	D1D	TAL IRV
Total/NA	Prep	3510C			1050 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A		1			539790	04/11/19 23:07	D1D	TAL IRV
Total/NA	Prep	3510C	DL		1050 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL	5			540074	04/13/19 00:50	D1D	TAL IRV

Client Sample ID: WELL-N-20190405
Lab Sample ID: 440-238127-13

Date Collected: 04/05/19 09:30
Matrix: Water
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	25	10 mL	10 mL	541250	04/18/19 22:24	JB	TAL IRV
Total/NA	Analysis	8260B		5	10 mL	10 mL	541250	04/18/19 22:49	JB	TAL IRV
Total/NA	Prep	3510C			985 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A		1			539476	04/10/19 19:17	D1D	TAL IRV
Total/NA	Prep	3510C	DL2		985 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL2	20			539476	04/10/19 19:43	D1D	TAL IRV
Total/NA	Prep	3510C	DL2		985 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL2	10			539167	04/09/19 16:45	D1D	TAL IRV
Total/NA	Prep	3510C	DL		985 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL	5			540074	04/13/19 01:16	D1D	TAL IRV

Client Sample ID: WELL-P-20190405
Lab Sample ID: 440-238127-14

Date Collected: 04/05/19 08:22
Matrix: Water
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	541078	04/18/19 13:07	RM	TAL IRV
Total/NA	Prep	3510C	DL		1005 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL	10			539482	04/10/19 22:44	D1D	TAL IRV

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-P-20190405
Lab Sample ID: 440-238127-14

Date Collected: 04/05/19 08:22
Matrix: Water
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1005 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A		1			539790	04/11/19 23:32	D1D	TAL IRV

Client Sample ID: WELL-O-20190405
Lab Sample ID: 440-238127-15

Date Collected: 04/05/19 10:55
Matrix: Water
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	10 mL	10 mL	541250	04/19/19 00:02	JB	TAL IRV
Total/NA	Analysis	8260B	DL	500	10 mL	10 mL	541250	04/19/19 00:26	JB	TAL IRV
Total/NA	Prep	3510C	DL		1010 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL	10			539482	04/10/19 23:09	D1D	TAL IRV
Total/NA	Prep	3510C	DL2		1010 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL2	50			539482	04/10/19 23:35	D1D	TAL IRV
Total/NA	Prep	3510C			1010 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A		1			539790	04/11/19 23:58	D1D	TAL IRV

Client Sample ID: WELL-Q-20190405
Lab Sample ID: 440-238127-16

Date Collected: 04/05/19 08:35
Matrix: Water
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	541078	04/18/19 13:34	RM	TAL IRV
Total/NA	Analysis	8260B	DL	5	10 mL	10 mL	541250	04/19/19 02:53	JB	TAL IRV
Total/NA	Prep	3510C	DL		975 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL	10			539482	04/11/19 00:01	D1D	TAL IRV
Total/NA	Prep	3510C			975 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A		1			539790	04/12/19 00:24	D1D	TAL IRV

Client Sample ID: WELL-J2-20190405
Lab Sample ID: 440-238127-17

Date Collected: 04/05/19 09:15
Matrix: Water
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	10 mL	10 mL	541250	04/19/19 00:51	JB	TAL IRV
Total/NA	Analysis	8260B	DL	25	10 mL	10 mL	541250	04/19/19 01:15	JB	TAL IRV
Total/NA	Prep	3510C	DL		1010 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL	10			539476	04/10/19 20:10	D1D	TAL IRV
Total/NA	Prep	3510C	DL2		1010 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A	DL2	50			539476	04/10/19 20:37	D1D	TAL IRV
Total/NA	Prep	3510C			1010 mL	2 mL	539097	04/09/19 06:08	L1A	TAL IRV
Total/NA	Analysis	8081A		1			539790	04/12/19 00:50	D1D	TAL IRV

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Client Sample ID: WELL-R-20190405
Lab Sample ID: 440-238127-18
Date Collected: 04/05/19 08:55
Matrix: Water
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	10 mL	10 mL	541366	04/19/19 11:03	RM	TAL IRV
Total/NA	Analysis	8260B	DL	25	10 mL	10 mL	541366	04/19/19 12:28	RM	TAL IRV
Total/NA	Prep	3510C			965 mL	2 mL	539101	04/09/19 06:14	L1A	TAL IRV
Total/NA	Analysis	8081A		1			539138	04/09/19 17:09	D1D	TAL IRV
Total/NA	Prep	3510C	DL		965 mL	2 mL	539101	04/09/19 06:14	L1A	TAL IRV
Total/NA	Analysis	8081A	DL	20			539138	04/09/19 17:36	D1D	TAL IRV

Client Sample ID: WELL-D3-20190405
Lab Sample ID: 440-238127-19
Date Collected: 04/05/19 09:55
Matrix: Water
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	10 mL	10 mL	541366	04/19/19 13:53	RM	TAL IRV
Total/NA	Analysis	8260B	DL	10	10 mL	10 mL	541366	04/19/19 14:21	RM	TAL IRV
Total/NA	Prep	3510C			1030 mL	2 mL	539101	04/09/19 06:14	L1A	TAL IRV
Total/NA	Analysis	8081A		1			539138	04/09/19 19:23	D1D	TAL IRV
Total/NA	Prep	3510C	DL		1030 mL	2 mL	539101	04/09/19 06:14	L1A	TAL IRV
Total/NA	Analysis	8081A	DL	5			539138	04/09/19 19:50	D1D	TAL IRV
Total/NA	Prep	3510C	DL2		1030 mL	2 mL	539101	04/09/19 06:14	L1A	TAL IRV
Total/NA	Analysis	8081A	DL2	20			539138	04/09/19 20:17	D1D	TAL IRV

Client Sample ID: WELL-M2-20190405
Lab Sample ID: 440-238127-20
Date Collected: 04/05/19 12:45
Matrix: Water
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	10 mL	10 mL	541366	04/19/19 14:49	RM	TAL IRV
Total/NA	Analysis	8260B	DL	1000	10 mL	10 mL	541366	04/19/19 15:18	RM	TAL IRV
Total/NA	Prep	3510C			1035 mL	2 mL	539101	04/09/19 06:14	L1A	TAL IRV
Total/NA	Analysis	8081A		1			539138	04/09/19 20:43	D1D	TAL IRV
Total/NA	Prep	3510C	DL		1035 mL	2 mL	539101	04/09/19 06:14	L1A	TAL IRV
Total/NA	Analysis	8081A	DL	20			539138	04/09/19 21:10	D1D	TAL IRV

Client Sample ID: WELL-Q-20190405 DUP
Lab Sample ID: 440-238127-21
Date Collected: 04/05/19 08:35
Matrix: Water
Date Received: 04/06/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	544150	05/03/19 17:34	WC	TAL IRV
Total/NA	Analysis	8260B	DL	10	10 mL	10 mL	544150	05/03/19 17:59	WC	TAL IRV

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-541078/4
Matrix: Water
Analysis Batch: 541078

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/18/19 07:58	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/18/19 07:58	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 07:58	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/18/19 07:58	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 07:58	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/18/19 07:58	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/18/19 07:58	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 07:58	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 07:58	1
Benzene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
Bromobenzene	ND		5.0	0.25	ug/L			04/18/19 07:58	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/18/19 07:58	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/18/19 07:58	1
Bromoform	ND		5.0	0.40	ug/L			04/18/19 07:58	1
Bromomethane	ND		5.0	0.25	ug/L			04/18/19 07:58	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/18/19 07:58	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
Chloroethane	ND		5.0	0.40	ug/L			04/18/19 07:58	1
Chloroform	ND		2.0	0.25	ug/L			04/18/19 07:58	1
Chloromethane	ND		5.0	0.25	ug/L			04/18/19 07:58	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/18/19 07:58	1
Dibromomethane	ND		2.0	0.25	ug/L			04/18/19 07:58	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/18/19 07:58	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/18/19 07:58	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/18/19 07:58	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/18/19 07:58	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/18/19 07:58	1
Naphthalene	ND		5.0	0.40	ug/L			04/18/19 07:58	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/18/19 07:58	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/18/19 07:58	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-541078/4
Matrix: Water
Analysis Batch: 541078

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 07:58	1
Styrene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 07:58	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
Toluene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
Trichloroethene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/18/19 07:58	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/18/19 07:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*04/18/19 07:58*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/18/19 07:58*	*1*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*04/18/19 07:58*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*04/18/19 07:58*	*1*

Lab Sample ID: LCS 440-541078/5
Matrix: Water
Analysis Batch: 541078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	9.29		ug/L		93	60 - 141
1,1,1-Trichloroethane	10.0	8.61		ug/L		86	70 - 130
1,1,2,2-Tetrachloroethane	10.0	8.91		ug/L		89	63 - 130
1,1,2-Trichloroethane	10.0	8.68		ug/L		87	70 - 130
1,1-Dichloroethane	10.0	8.48		ug/L		85	64 - 130
1,1-Dichloroethene	10.0	8.30		ug/L		83	70 - 130
1,1-Dichloropropene	10.0	8.34		ug/L		83	70 - 130
1,2,3-Trichlorobenzene	10.0	9.84		ug/L		98	60 - 140
1,2,3-Trichloropropane	10.0	8.61	J	ug/L		86	63 - 130
1,2,4-Trichlorobenzene	10.0	9.79		ug/L		98	60 - 140
1,2,4-Trimethylbenzene	10.0	9.23		ug/L		92	70 - 135
1,2-Dibromo-3-Chloropropane	10.0	8.65		ug/L		87	52 - 140
1,2-Dibromoethane (EDB)	10.0	8.54		ug/L		85	70 - 130
1,2-Dichlorobenzene	10.0	9.26		ug/L		93	70 - 130
1,2-Dichloroethane	10.0	7.76		ug/L		78	57 - 138
1,2-Dichloropropane	10.0	8.20		ug/L		82	67 - 130
1,3,5-Trimethylbenzene	10.0	9.30		ug/L		93	70 - 136
1,3-Dichlorobenzene	10.0	8.92		ug/L		89	70 - 130
1,3-Dichloropropane	10.0	8.47		ug/L		85	70 - 130
1,4-Dichlorobenzene	10.0	9.04		ug/L		90	70 - 130
2,2-Dichloropropane	10.0	9.48		ug/L		95	68 - 141
2-Chlorotoluene	10.0	8.96		ug/L		90	70 - 130
4-Chlorotoluene	10.0	8.93		ug/L		89	70 - 130
Benzene	10.0	8.33		ug/L		83	68 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-541078/5
Matrix: Water
Analysis Batch: 541078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	10.0	8.98		ug/L		90	70 - 130
Bromochloromethane	10.0	8.97		ug/L		90	70 - 130
Bromodichloromethane	10.0	8.23		ug/L		82	70 - 132
Bromoform	10.0	8.42		ug/L		84	60 - 148
Bromomethane	10.0	7.72		ug/L		77	64 - 139
Carbon tetrachloride	10.0	8.47		ug/L		85	60 - 150
Chlorobenzene	10.0	8.70		ug/L		87	70 - 130
Chloroethane	10.0	7.71		ug/L		77	64 - 135
Chloroform	10.0	8.57		ug/L		86	70 - 130
Chloromethane	10.0	6.77		ug/L		68	47 - 140
cis-1,2-Dichloroethene	10.0	8.65		ug/L		86	70 - 133
cis-1,3-Dichloropropene	10.0	8.90		ug/L		89	70 - 133
Dibromochloromethane	10.0	8.73		ug/L		87	69 - 145
Dibromomethane	10.0	8.30		ug/L		83	70 - 130
Dichlorodifluoromethane	10.0	6.13		ug/L		61	29 - 150
Ethylbenzene	10.0	8.72		ug/L		87	70 - 130
Hexachlorobutadiene	10.0	9.42		ug/L		94	10 - 150
Isopropylbenzene	10.0	9.04		ug/L		90	70 - 136
m,p-Xylene	10.0	8.83		ug/L		88	70 - 130
Methylene Chloride	10.0	8.05		ug/L		80	52 - 130
Naphthalene	10.0	9.40		ug/L		94	60 - 140
n-Butylbenzene	10.0	9.20		ug/L		92	65 - 150
N-Propylbenzene	10.0	8.95		ug/L		89	67 - 139
o-Xylene	10.0	9.22		ug/L		92	70 - 130
p-Isopropyltoluene	10.0	9.52		ug/L		95	70 - 132
sec-Butylbenzene	10.0	9.22		ug/L		92	70 - 138
Styrene	10.0	8.77		ug/L		88	70 - 134
tert-Butylbenzene	10.0	9.01		ug/L		90	70 - 130
Tetrachloroethene	10.0	9.06		ug/L		91	70 - 130
Toluene	10.0	8.64		ug/L		86	70 - 130
trans-1,2-Dichloroethene	10.0	8.76		ug/L		88	70 - 130
trans-1,3-Dichloropropene	10.0	8.16		ug/L		82	70 - 132
Trichloroethene	10.0	8.61		ug/L		86	70 - 130
Trichlorofluoromethane	10.0	8.00		ug/L		80	60 - 150
Vinyl chloride	10.0	7.55		ug/L		76	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*76 - 132*
Toluene-d8 (Surr)	*102*		*80 - 128*

Lab Sample ID: 440-238310-A-6 MS
Matrix: Water
Analysis Batch: 541078

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		50.0	57.5		ug/L		115	60 - 149

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238310-A-6 MS
Matrix: Water
Analysis Batch: 541078

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		50.0	55.1		ug/L		110	70 - 130
1,1,2,2-Tetrachloroethane	ND		50.0	52.5		ug/L		105	63 - 130
1,1,2-Trichloroethane	ND		50.0	50.4		ug/L		101	70 - 130
1,1-Dichloroethane	4.8	J	50.0	59.1		ug/L		109	65 - 130
1,1-Dichloroethene	ND		50.0	55.6		ug/L		111	70 - 130
1,1-Dichloropropene	ND		50.0	53.7		ug/L		107	64 - 130
1,2,3-Trichlorobenzene	ND		50.0	62.0		ug/L		124	60 - 140
1,2,3-Trichloropropane	ND		50.0	51.8		ug/L		104	60 - 130
1,2,4-Trichlorobenzene	ND		50.0	61.7		ug/L		123	60 - 140
1,2,4-Trimethylbenzene	ND		50.0	57.1		ug/L		114	70 - 130
1,2-Dibromo-3-Chloropropane	ND		50.0	51.9		ug/L		104	48 - 140
1,2-Dibromoethane (EDB)	ND		50.0	50.0		ug/L		100	70 - 131
1,2-Dichlorobenzene	18		50.0	70.1		ug/L		104	70 - 130
1,2-Dichloroethane	ND		50.0	47.4		ug/L		95	56 - 146
1,2-Dichloropropane	ND		50.0	49.4		ug/L		99	69 - 130
1,3,5-Trimethylbenzene	ND		50.0	57.3		ug/L		115	70 - 130
1,3-Dichlorobenzene	ND		50.0	55.4		ug/L		111	70 - 130
1,3-Dichloropropane	ND		50.0	49.4		ug/L		99	70 - 130
1,4-Dichlorobenzene	25		50.0	73.3		ug/L		96	70 - 130
2,2-Dichloropropane	ND		50.0	58.7		ug/L		117	69 - 138
2-Chlorotoluene	ND		50.0	55.3		ug/L		111	70 - 130
4-Chlorotoluene	ND		50.0	54.1		ug/L		108	70 - 130
Benzene	2.5	J	50.0	54.0		ug/L		103	66 - 130
Bromobenzene	ND		50.0	53.5		ug/L		107	70 - 130
Bromochloromethane	ND		50.0	55.1		ug/L		110	70 - 130
Bromodichloromethane	ND		50.0	50.9		ug/L		102	70 - 138
Bromoform	ND		50.0	50.1		ug/L		100	59 - 150
Bromomethane	ND		50.0	48.6		ug/L		97	62 - 131
Carbon tetrachloride	ND		50.0	55.5		ug/L		111	60 - 150
Chlorobenzene	230		50.0	231	4	ug/L		-0.4	70 - 130
Chloroethane	ND		50.0	50.0		ug/L		100	68 - 130
Chloroform	ND		50.0	54.4		ug/L		109	70 - 130
Chloromethane	ND		50.0	43.9		ug/L		88	39 - 144
cis-1,2-Dichloroethene	ND		50.0	54.4		ug/L		109	70 - 130
cis-1,3-Dichloropropene	ND		50.0	53.8		ug/L		108	70 - 133
Dibromochloromethane	ND		50.0	53.1		ug/L		106	70 - 148
Dibromomethane	ND		50.0	49.2		ug/L		98	70 - 130
Dichlorodifluoromethane	ND		50.0	41.7		ug/L		83	25 - 142
Ethylbenzene	ND		50.0	53.8		ug/L		108	70 - 130
Hexachlorobutadiene	ND		50.0	60.0		ug/L		120	10 - 150
Isopropylbenzene	ND		50.0	57.1		ug/L		114	70 - 132
m,p-Xylene	ND		50.0	55.6		ug/L		111	70 - 133
Methylene Chloride	ND		50.0	51.0		ug/L		102	52 - 130
Naphthalene	ND		50.0	58.2		ug/L		116	60 - 140
n-Butylbenzene	ND		50.0	58.5		ug/L		117	61 - 149
N-Propylbenzene	ND		50.0	56.4		ug/L		113	66 - 135
o-Xylene	ND		50.0	56.6		ug/L		113	70 - 133
p-Isopropyltoluene	ND		50.0	60.5		ug/L		121	70 - 130
sec-Butylbenzene	ND		50.0	57.9		ug/L		116	67 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238310-A-6 MS
Matrix: Water
Analysis Batch: 541078

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	ND	F1	50.0	ND	F1	ug/L		0	29 - 150
tert-Butylbenzene	ND		50.0	57.1		ug/L		114	70 - 130
Tetrachloroethene	ND		50.0	57.7		ug/L		115	70 - 137
Toluene	ND		50.0	53.8		ug/L		108	70 - 130
trans-1,2-Dichloroethene	ND		50.0	57.5		ug/L		115	70 - 130
trans-1,3-Dichloropropene	ND		50.0	48.3		ug/L		97	70 - 138
Trichloroethene	2.7	J	50.0	55.4		ug/L		105	70 - 130
Trichlorofluoromethane	ND		50.0	53.5		ug/L		107	60 - 150
Vinyl chloride	ND		50.0	51.8		ug/L		104	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*76 - 132*
Toluene-d8 (Surr)	*104*		*80 - 128*

Lab Sample ID: 440-238310-A-6 MSD
Matrix: Water
Analysis Batch: 541078

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		50.0	56.5		ug/L		113	60 - 149	2	20
1,1,1-Trichloroethane	ND		50.0	53.9		ug/L		108	70 - 130	2	20
1,1,2,2-Tetrachloroethane	ND		50.0	53.5		ug/L		107	63 - 130	2	30
1,1,2-Trichloroethane	ND		50.0	49.4		ug/L		99	70 - 130	2	25
1,1-Dichloroethane	4.8	J	50.0	57.3		ug/L		105	65 - 130	3	20
1,1-Dichloroethene	ND		50.0	53.8		ug/L		108	70 - 130	3	20
1,1-Dichloropropene	ND		50.0	51.2		ug/L		102	64 - 130	5	20
1,2,3-Trichlorobenzene	ND		50.0	62.7		ug/L		125	60 - 140	1	20
1,2,3-Trichloropropane	ND		50.0	51.3		ug/L		103	60 - 130	1	30
1,2,4-Trichlorobenzene	ND		50.0	63.2		ug/L		126	60 - 140	2	20
1,2,4-Trimethylbenzene	ND		50.0	57.9		ug/L		116	70 - 130	1	25
1,2-Dibromo-3-Chloropropane	ND		50.0	53.5		ug/L		107	48 - 140	3	30
1,2-Dibromoethane (EDB)	ND		50.0	48.6		ug/L		97	70 - 131	3	25
1,2-Dichlorobenzene	18		50.0	71.4		ug/L		106	70 - 130	2	20
1,2-Dichloroethane	ND		50.0	47.5		ug/L		95	56 - 146	0	20
1,2-Dichloropropane	ND		50.0	48.6		ug/L		97	69 - 130	1	20
1,3,5-Trimethylbenzene	ND		50.0	56.1		ug/L		112	70 - 130	2	20
1,3-Dichlorobenzene	ND		50.0	56.3		ug/L		113	70 - 130	2	20
1,3-Dichloropropane	ND		50.0	48.0		ug/L		96	70 - 130	3	25
1,4-Dichlorobenzene	25		50.0	73.3		ug/L		96	70 - 130	0	20
2,2-Dichloropropane	ND		50.0	59.3		ug/L		119	69 - 138	1	25
2-Chlorotoluene	ND		50.0	56.1		ug/L		112	70 - 130	1	20
4-Chlorotoluene	ND		50.0	55.0		ug/L		110	70 - 130	2	20
Benzene	2.5	J	50.0	54.0		ug/L		103	66 - 130	0	20
Bromobenzene	ND		50.0	54.3		ug/L		109	70 - 130	2	20
Bromochloromethane	ND		50.0	55.1		ug/L		110	70 - 130	0	25
Bromodichloromethane	ND		50.0	50.5		ug/L		101	70 - 138	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238310-A-6 MSD
Matrix: Water
Analysis Batch: 541078

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		50.0	49.1		ug/L		98	59 - 150	2	25
Bromomethane	ND		50.0	49.4		ug/L		99	62 - 131	2	25
Carbon tetrachloride	ND		50.0	54.0		ug/L		108	60 - 150	3	25
Chlorobenzene	230		50.0	216	4	ug/L		-30	70 - 130	7	20
Chloroethane	ND		50.0	51.2		ug/L		102	68 - 130	2	25
Chloroform	ND		50.0	54.6		ug/L		109	70 - 130	0	20
Chloromethane	ND		50.0	43.4		ug/L		87	39 - 144	1	25
cis-1,2-Dichloroethene	ND		50.0	54.0		ug/L		108	70 - 130	1	20
cis-1,3-Dichloropropene	ND		50.0	52.9		ug/L		106	70 - 133	2	20
Dibromochloromethane	ND		50.0	51.9		ug/L		104	70 - 148	2	25
Dibromomethane	ND		50.0	49.0		ug/L		98	70 - 130	0	25
Dichlorodifluoromethane	ND		50.0	37.9		ug/L		76	25 - 142	10	30
Ethylbenzene	ND		50.0	52.8		ug/L		106	70 - 130	2	20
Hexachlorobutadiene	ND		50.0	59.3		ug/L		119	10 - 150	1	20
Isopropylbenzene	ND		50.0	55.8		ug/L		112	70 - 132	2	20
m,p-Xylene	ND		50.0	55.1		ug/L		110	70 - 133	1	25
Methylene Chloride	ND		50.0	50.5		ug/L		101	52 - 130	1	20
Naphthalene	ND		50.0	59.4		ug/L		119	60 - 140	2	30
n-Butylbenzene	ND		50.0	58.7		ug/L		117	61 - 149	0	20
N-Propylbenzene	ND		50.0	56.0		ug/L		112	66 - 135	1	20
o-Xylene	ND		50.0	56.1		ug/L		112	70 - 133	1	20
p-Isopropyltoluene	ND		50.0	59.7		ug/L		119	70 - 130	1	20
sec-Butylbenzene	ND		50.0	57.8		ug/L		116	67 - 134	0	20
Styrene	ND	F1	50.0	ND	F1	ug/L		0	29 - 150	NC	35
tert-Butylbenzene	ND		50.0	57.1		ug/L		114	70 - 130	0	20
Tetrachloroethene	ND		50.0	55.7		ug/L		111	70 - 137	4	20
Toluene	ND		50.0	52.2		ug/L		104	70 - 130	3	20
trans-1,2-Dichloroethene	ND		50.0	56.8		ug/L		114	70 - 130	1	20
trans-1,3-Dichloropropene	ND		50.0	47.6		ug/L		95	70 - 138	1	25
Trichloroethene	2.7	J	50.0	54.8		ug/L		104	70 - 130	1	20
Trichlorofluoromethane	ND		50.0	49.1		ug/L		98	60 - 150	9	25
Vinyl chloride	ND		50.0	49.0		ug/L		98	50 - 137	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*76 - 132*
Toluene-d8 (Surr)	*102*		*80 - 128*

Lab Sample ID: MB 440-541083/7
Matrix: Water
Analysis Batch: 541083

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/18/19 09:24	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 09:24	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/18/19 09:24	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 09:24	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-541083/7
Matrix: Water
Analysis Batch: 541083

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 09:24	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/18/19 09:24	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 09:24	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 09:24	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/18/19 09:24	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 09:24	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 09:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/18/19 09:24	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/18/19 09:24	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 09:24	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 09:24	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 09:24	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 09:24	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 09:24	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 09:24	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 09:24	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/18/19 09:24	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 09:24	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 09:24	1
Benzene	ND		2.0	0.25	ug/L			04/18/19 09:24	1
Bromobenzene	ND		5.0	0.25	ug/L			04/18/19 09:24	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/18/19 09:24	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/18/19 09:24	1
Bromoform	ND		5.0	0.40	ug/L			04/18/19 09:24	1
Bromomethane	ND		5.0	0.25	ug/L			04/18/19 09:24	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/18/19 09:24	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/18/19 09:24	1
Chloroethane	ND		5.0	0.40	ug/L			04/18/19 09:24	1
Chloroform	ND		2.0	0.25	ug/L			04/18/19 09:24	1
Chloromethane	ND		5.0	0.25	ug/L			04/18/19 09:24	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 09:24	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 09:24	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/18/19 09:24	1
Dibromomethane	ND		2.0	0.25	ug/L			04/18/19 09:24	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/18/19 09:24	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/18/19 09:24	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/18/19 09:24	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/18/19 09:24	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/18/19 09:24	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/18/19 09:24	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/18/19 09:24	1
Naphthalene	ND		5.0	0.40	ug/L			04/18/19 09:24	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/18/19 09:24	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/18/19 09:24	1
o-Xylene	ND		2.0	0.25	ug/L			04/18/19 09:24	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/18/19 09:24	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 09:24	1
Styrene	ND		2.0	0.25	ug/L			04/18/19 09:24	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 09:24	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-541083/7
Matrix: Water
Analysis Batch: 541083

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		2.0	0.25	ug/L			04/18/19 09:24	1
Toluene	ND		2.0	0.25	ug/L			04/18/19 09:24	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 09:24	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 09:24	1
Trichloroethene	ND		2.0	0.25	ug/L			04/18/19 09:24	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/18/19 09:24	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/18/19 09:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*		*04/18/19 09:24*	*1*
4-Bromofluorobenzene (Surr)	*85*		*80 - 120*		*04/18/19 09:24*	*1*
Dibromofluoromethane (Surr)	*128*		*76 - 132*		*04/18/19 09:24*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*04/18/19 09:24*	*1*

Lab Sample ID: LCS 440-541083/8
Matrix: Water
Analysis Batch: 541083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	13.4		ug/L		134	60 - 141
1,1,1-Trichloroethane	10.0	13.4	*	ug/L		134	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.60		ug/L		96	63 - 130
1,1,2-Trichloroethane	10.0	11.1		ug/L		111	70 - 130
1,1-Dichloroethane	10.0	10.6		ug/L		106	64 - 130
1,1-Dichloroethene	10.0	10.2		ug/L		102	70 - 130
1,1-Dichloropropene	10.0	9.23		ug/L		92	70 - 130
1,2,3-Trichlorobenzene	10.0	10.2		ug/L		102	60 - 140
1,2,3-Trichloropropane	10.0	9.48	J	ug/L		95	63 - 130
1,2,4-Trichlorobenzene	10.0	9.57		ug/L		96	60 - 140
1,2,4-Trimethylbenzene	10.0	9.66		ug/L		97	70 - 135
1,2-Dibromo-3-Chloropropane	10.0	10.8		ug/L		108	52 - 140
1,2-Dibromoethane (EDB)	10.0	11.7		ug/L		117	70 - 130
1,2-Dichlorobenzene	10.0	10.1		ug/L		101	70 - 130
1,2-Dichloroethane	10.0	10.4		ug/L		104	57 - 138
1,2-Dichloropropane	10.0	10.3		ug/L		103	67 - 130
1,3,5-Trimethylbenzene	10.0	10.6		ug/L		106	70 - 136
1,3-Dichlorobenzene	10.0	11.5		ug/L		115	70 - 130
1,3-Dichloropropane	10.0	11.2		ug/L		112	70 - 130
1,4-Dichlorobenzene	10.0	11.5		ug/L		115	70 - 130
2,2-Dichloropropane	10.0	12.4		ug/L		124	68 - 141
2-Chlorotoluene	10.0	9.98		ug/L		100	70 - 130
4-Chlorotoluene	10.0	9.92		ug/L		99	70 - 130
Benzene	10.0	10.4		ug/L		104	68 - 130
Bromobenzene	10.0	10.6		ug/L		106	70 - 130
Bromochloromethane	10.0	11.8		ug/L		118	70 - 130
Bromodichloromethane	10.0	11.6		ug/L		116	70 - 132
Bromoform	10.0	13.8		ug/L		138	60 - 148
Bromomethane	10.0	9.87		ug/L		99	64 - 139

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-541083/8
Matrix: Water
Analysis Batch: 541083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	10.0	14.5		ug/L		145	60 - 150
Chlorobenzene	10.0	12.0		ug/L		120	70 - 130
Chloroethane	10.0	9.14		ug/L		91	64 - 135
Chloroform	10.0	11.4		ug/L		114	70 - 130
Chloromethane	10.0	8.18		ug/L		82	47 - 140
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	70 - 133
cis-1,3-Dichloropropene	10.0	11.0		ug/L		110	70 - 133
Dibromochloromethane	10.0	13.8		ug/L		138	69 - 145
Dibromomethane	10.0	11.4		ug/L		114	70 - 130
Dichlorodifluoromethane	10.0	10.5		ug/L		105	29 - 150
Ethylbenzene	10.0	11.5		ug/L		115	70 - 130
Hexachlorobutadiene	10.0	11.7		ug/L		117	10 - 150
Isopropylbenzene	10.0	12.0		ug/L		120	70 - 136
m,p-Xylene	10.0	11.9		ug/L		119	70 - 130
Methylene Chloride	10.0	9.21		ug/L		92	52 - 130
Naphthalene	10.0	7.77		ug/L		78	60 - 140
n-Butylbenzene	10.0	10.7		ug/L		107	65 - 150
N-Propylbenzene	10.0	9.74		ug/L		97	67 - 139
o-Xylene	10.0	12.7		ug/L		127	70 - 130
p-Isopropyltoluene	10.0	11.6		ug/L		116	70 - 132
sec-Butylbenzene	10.0	11.0		ug/L		110	70 - 138
Styrene	10.0	10.6		ug/L		106	70 - 134
tert-Butylbenzene	10.0	10.6		ug/L		106	70 - 130
Tetrachloroethene	10.0	13.0		ug/L		130	70 - 130
Toluene	10.0	11.4		ug/L		114	70 - 130
trans-1,2-Dichloroethene	10.0	10.7		ug/L		107	70 - 130
trans-1,3-Dichloropropene	10.0	10.3		ug/L		103	70 - 132
Trichloroethene	10.0	12.0		ug/L		120	70 - 130
Trichlorofluoromethane	10.0	13.9		ug/L		139	60 - 150
Vinyl chloride	10.0	8.87		ug/L		89	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*
Dibromofluoromethane (Surr)	*112*		*76 - 132*
Toluene-d8 (Surr)	*107*		*80 - 128*

Lab Sample ID: 440-238127-3 MS
Matrix: Water
Analysis Batch: 541083

Client Sample ID: PL-501-20190405
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		10.0	12.0		ug/L		120	60 - 149
1,1,1-Trichloroethane	ND	F1 *	10.0	13.8	F1	ug/L		138	70 - 130
1,1,2,2-Tetrachloroethane	ND		10.0	9.39		ug/L		94	63 - 130
1,1,2-Trichloroethane	ND		10.0	11.1		ug/L		111	70 - 130
1,1-Dichloroethane	4.5		10.0	15.2		ug/L		107	65 - 130
1,1-Dichloroethene	0.47	J	10.0	9.61		ug/L		91	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238127-3 MS
Matrix: Water
Analysis Batch: 541083

Client Sample ID: PL-501-20190405
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloropropene	ND		10.0	9.73		ug/L		97	64 - 130
1,2,3-Trichlorobenzene	10		10.0	20.6		ug/L		105	60 - 140
1,2,3-Trichloropropane	ND		10.0	10.2		ug/L		102	60 - 130
1,2,4-Trichlorobenzene	36	F1	10.0	41.4	F1	ug/L		55	60 - 140
1,2,4-Trimethylbenzene	ND		10.0	9.12		ug/L		91	70 - 130
1,2-Dibromo-3-Chloropropane	ND		10.0	9.84		ug/L		98	48 - 140
1,2-Dibromoethane (EDB)	ND		10.0	10.9		ug/L		109	70 - 131
1,2-Dichlorobenzene	45		10.0	50.7	E 4	ug/L		54	70 - 130
1,2-Dichloroethane	2.8		10.0	13.5		ug/L		107	56 - 146
1,2-Dichloropropane	2.4		10.0	12.6		ug/L		102	69 - 130
1,3,5-Trimethylbenzene	ND		10.0	10.2		ug/L		102	70 - 130
1,3-Dichlorobenzene	3.6		10.0	15.0		ug/L		114	70 - 130
1,3-Dichloropropane	ND		10.0	10.2		ug/L		102	70 - 130
1,4-Dichlorobenzene	68	E	10.0	73.1	E 4	ug/L		54	70 - 130
2,2-Dichloropropane	ND		10.0	13.1		ug/L		131	69 - 138
2-Chlorotoluene	ND		10.0	9.95		ug/L		99	70 - 130
4-Chlorotoluene	ND		10.0	10.1		ug/L		101	70 - 130
Benzene	3.4		10.0	14.3		ug/L		109	66 - 130
Bromobenzene	ND		10.0	10.2		ug/L		102	70 - 130
Bromochloromethane	ND		10.0	11.5		ug/L		115	70 - 130
Bromodichloromethane	ND		10.0	12.5		ug/L		125	70 - 138
Bromoform	ND		10.0	13.7		ug/L		137	59 - 150
Bromomethane	ND		10.0	11.9		ug/L		119	62 - 131
Carbon tetrachloride	ND		10.0	14.6		ug/L		146	60 - 150
Chlorobenzene	250	E	10.0	253	E 4	ug/L		69	70 - 130
Chloroethane	ND		10.0	9.77		ug/L		98	68 - 130
Chloroform	0.38	J	10.0	12.1		ug/L		117	70 - 130
Chloromethane	ND		10.0	8.34		ug/L		83	39 - 144
cis-1,2-Dichloroethene	0.41	J	10.0	11.4		ug/L		110	70 - 130
cis-1,3-Dichloropropene	ND		10.0	9.68		ug/L		97	70 - 133
Dibromochloromethane	ND		10.0	12.5		ug/L		125	70 - 148
Dibromomethane	ND		10.0	11.6		ug/L		116	70 - 130
Dichlorodifluoromethane	ND		10.0	11.4		ug/L		114	25 - 142
Ethylbenzene	ND		10.0	11.1		ug/L		111	70 - 130
Hexachlorobutadiene	ND		10.0	10.3		ug/L		103	10 - 150
Isopropylbenzene	ND		10.0	10.8		ug/L		108	70 - 132
m,p-Xylene	ND		10.0	10.7		ug/L		107	70 - 133
Methylene Chloride	ND		10.0	9.97		ug/L		100	52 - 130
Naphthalene	ND		10.0	9.72		ug/L		97	60 - 140
n-Butylbenzene	ND		10.0	10.2		ug/L		102	61 - 149
N-Propylbenzene	ND		10.0	9.12		ug/L		91	66 - 135
o-Xylene	ND		10.0	11.1		ug/L		111	70 - 133
p-Isopropyltoluene	ND		10.0	11.4		ug/L		114	70 - 130
sec-Butylbenzene	ND		10.0	10.2		ug/L		102	67 - 134
Styrene	ND		10.0	10.3		ug/L		103	29 - 150
tert-Butylbenzene	0.31	J	10.0	9.92		ug/L		96	70 - 130
Tetrachloroethene	ND		10.0	11.8		ug/L		118	70 - 137
Toluene	0.30	J	10.0	10.7		ug/L		104	70 - 130
trans-1,2-Dichloroethene	ND		10.0	10.5		ug/L		105	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238127-3 MS
Matrix: Water
Analysis Batch: 541083

Client Sample ID: PL-501-20190405
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	ND		10.0	9.59		ug/L		96	70 - 138
Trichloroethene	11		10.0	22.4		ug/L		118	70 - 130
Trichlorofluoromethane	ND		10.0	14.5		ug/L		145	60 - 150
Vinyl chloride	ND		10.0	9.10		ug/L		91	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*
Dibromofluoromethane (Surr)	*115*		*76 - 132*
Toluene-d8 (Surr)	*94*		*80 - 128*

Lab Sample ID: 440-238127-3 MSD
Matrix: Water
Analysis Batch: 541083

Client Sample ID: PL-501-20190405
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		10.0	11.6		ug/L		116	60 - 149	4	20
1,1,1-Trichloroethane	ND	F1 *	10.0	13.2	F1	ug/L		132	70 - 130	4	20
1,1,2,2-Tetrachloroethane	ND		10.0	10.4		ug/L		104	63 - 130	10	30
1,1,2-Trichloroethane	ND		10.0	10.2		ug/L		102	70 - 130	8	25
1,1-Dichloroethane	4.5		10.0	14.5		ug/L		100	65 - 130	4	20
1,1-Dichloroethene	0.47	J	10.0	9.63		ug/L		92	70 - 130	0	20
1,1-Dichloropropene	ND		10.0	9.35		ug/L		94	64 - 130	4	20
1,2,3-Trichlorobenzene	10		10.0	21.1		ug/L		111	60 - 140	3	20
1,2,3-Trichloropropane	ND		10.0	10.9		ug/L		109	60 - 130	7	30
1,2,4-Trichlorobenzene	36	F1	10.0	40.5	F1	ug/L		45	60 - 140	2	20
1,2,4-Trimethylbenzene	ND		10.0	8.96		ug/L		90	70 - 130	2	25
1,2-Dibromo-3-Chloropropane	ND		10.0	11.7		ug/L		117	48 - 140	17	30
1,2-Dibromoethane (EDB)	ND		10.0	10.5		ug/L		105	70 - 131	4	25
1,2-Dichlorobenzene	45		10.0	48.9	4	ug/L		36	70 - 130	4	20
1,2-Dichloroethane	2.8		10.0	13.3		ug/L		105	56 - 146	1	20
1,2-Dichloropropane	2.4		10.0	12.6		ug/L		102	69 - 130	0	20
1,3,5-Trimethylbenzene	ND		10.0	9.66		ug/L		97	70 - 130	6	20
1,3-Dichlorobenzene	3.6		10.0	14.0		ug/L		104	70 - 130	7	20
1,3-Dichloropropane	ND		10.0	10.2		ug/L		102	70 - 130	0	25
1,4-Dichlorobenzene	68	E	10.0	68.9	E 4	ug/L		12	70 - 130	6	20
2,2-Dichloropropane	ND		10.0	12.4		ug/L		124	69 - 138	5	25
2-Chlorotoluene	ND		10.0	9.89		ug/L		99	70 - 130	1	20
4-Chlorotoluene	ND		10.0	9.60		ug/L		96	70 - 130	5	20
Benzene	3.4		10.0	14.0		ug/L		105	66 - 130	3	20
Bromobenzene	ND		10.0	10.3		ug/L		103	70 - 130	0	20
Bromochloromethane	ND		10.0	11.3		ug/L		113	70 - 130	2	25
Bromodichloromethane	ND		10.0	11.6		ug/L		116	70 - 138	7	20
Bromoform	ND		10.0	12.9		ug/L		129	59 - 150	6	25
Bromomethane	ND		10.0	9.91		ug/L		99	62 - 131	18	25
Carbon tetrachloride	ND		10.0	14.1		ug/L		141	60 - 150	4	25
Chlorobenzene	250	E	10.0	236	E 4	ug/L		-107	70 - 130	7	20
Chloroethane	ND		10.0	9.41		ug/L		94	68 - 130	4	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238127-3 MSD
Matrix: Water
Analysis Batch: 541083

Client Sample ID: PL-501-20190405
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform	0.38	J	10.0	11.6		ug/L		112	70 - 130	4	20
Chloromethane	ND		10.0	7.81		ug/L		78	39 - 144	7	25
cis-1,2-Dichloroethene	0.41	J	10.0	11.0		ug/L		106	70 - 130	3	20
cis-1,3-Dichloropropene	ND		10.0	9.61		ug/L		96	70 - 133	1	20
Dibromochloromethane	ND		10.0	12.8		ug/L		128	70 - 148	2	25
Dibromomethane	ND		10.0	11.5		ug/L		115	70 - 130	1	25
Dichlorodifluoromethane	ND		10.0	10.8		ug/L		108	25 - 142	6	30
Ethylbenzene	ND		10.0	10.9		ug/L		109	70 - 130	2	20
Hexachlorobutadiene	ND		10.0	10.8		ug/L		108	10 - 150	4	20
Isopropylbenzene	ND		10.0	10.6		ug/L		106	70 - 132	2	20
m,p-Xylene	ND		10.0	10.8		ug/L		108	70 - 133	1	25
Methylene Chloride	ND		10.0	9.52		ug/L		95	52 - 130	5	20
Naphthalene	ND		10.0	9.89		ug/L		99	60 - 140	2	30
n-Butylbenzene	ND		10.0	9.97		ug/L		100	61 - 149	2	20
N-Propylbenzene	ND		10.0	8.93		ug/L		89	66 - 135	2	20
o-Xylene	ND		10.0	11.2		ug/L		112	70 - 133	1	20
p-Isopropyltoluene	ND		10.0	11.1		ug/L		111	70 - 130	3	20
sec-Butylbenzene	ND		10.0	10.1		ug/L		101	67 - 134	1	20
Styrene	ND		10.0	10.0		ug/L		100	29 - 150	3	35
tert-Butylbenzene	0.31	J	10.0	9.85		ug/L		95	70 - 130	1	20
Tetrachloroethene	ND		10.0	11.7		ug/L		117	70 - 137	1	20
Toluene	0.30	J	10.0	10.1		ug/L		98	70 - 130	5	20
trans-1,2-Dichloroethene	ND		10.0	10.5		ug/L		105	70 - 130	1	20
trans-1,3-Dichloropropene	ND		10.0	9.04		ug/L		90	70 - 138	6	25
Trichloroethene	11		10.0	21.7		ug/L		111	70 - 130	3	20
Trichlorofluoromethane	ND		10.0	12.6		ug/L		126	60 - 150	14	25
Vinyl chloride	ND		10.0	8.89		ug/L		89	50 - 137	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
4-Bromofluorobenzene (Surr)	*88*		*80 - 120*
Dibromofluoromethane (Surr)	*114*		*76 - 132*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: MB 440-541250/5
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/18/19 20:46	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/18/19 20:46	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 20:46	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/18/19 20:46	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-541250/5
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 20:46	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/18/19 20:46	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/18/19 20:46	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 20:46	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Benzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Bromobenzene	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Bromoform	ND		5.0	0.40	ug/L			04/18/19 20:46	1
Bromomethane	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/18/19 20:46	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Chloroethane	ND		5.0	0.40	ug/L			04/18/19 20:46	1
Chloroform	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Chloromethane	ND		5.0	0.25	ug/L			04/18/19 20:46	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Dibromomethane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/18/19 20:46	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/18/19 20:46	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/18/19 20:46	1
Naphthalene	ND		5.0	0.40	ug/L			04/18/19 20:46	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/18/19 20:46	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
o-Xylene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Styrene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Toluene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Trichloroethene	ND		2.0	0.25	ug/L			04/18/19 20:46	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-541250/5
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/18/19 20:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/18/19 20:46*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*04/18/19 20:46*	*1*
Dibromofluoromethane (Surr)	*96*		*76 - 132*		*04/18/19 20:46*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*04/18/19 20:46*	*1*

Lab Sample ID: LCS 440-541250/6
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	9.93		ug/L		99	60 - 141
1,1,1-Trichloroethane	10.0	9.48		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	10.0	10.3		ug/L		103	63 - 130
1,1,2-Trichloroethane	10.0	10.1		ug/L		101	70 - 130
1,1-Dichloroethane	10.0	8.81		ug/L		88	64 - 130
1,1-Dichloroethene	10.0	9.16		ug/L		92	70 - 130
1,1-Dichloropropene	10.0	9.15		ug/L		92	70 - 130
1,2,3-Trichlorobenzene	10.0	8.48		ug/L		85	60 - 140
1,2,3-Trichloropropane	10.0	9.31	J	ug/L		93	63 - 130
1,2,4-Trichlorobenzene	10.0	8.44		ug/L		84	60 - 140
1,2,4-Trimethylbenzene	10.0	10.1		ug/L		101	70 - 135
1,2-Dibromo-3-Chloropropane	10.0	8.87		ug/L		89	52 - 140
1,2-Dibromoethane (EDB)	10.0	9.79		ug/L		98	70 - 130
1,2-Dichlorobenzene	10.0	9.79		ug/L		98	70 - 130
1,2-Dichloroethane	10.0	9.15		ug/L		92	57 - 138
1,2-Dichloropropane	10.0	10.0		ug/L		100	67 - 130
1,3,5-Trimethylbenzene	10.0	10.3		ug/L		103	70 - 136
1,3-Dichlorobenzene	10.0	10.1		ug/L		101	70 - 130
1,3-Dichloropropane	10.0	9.87		ug/L		99	70 - 130
1,4-Dichlorobenzene	10.0	9.93		ug/L		99	70 - 130
2,2-Dichloropropane	10.0	9.05		ug/L		91	68 - 141
2-Chlorotoluene	10.0	10.2		ug/L		102	70 - 130
4-Chlorotoluene	10.0	10.5		ug/L		105	70 - 130
Benzene	10.0	9.27		ug/L		93	68 - 130
Bromobenzene	10.0	10.8		ug/L		108	70 - 130
Bromochloromethane	10.0	9.53		ug/L		95	70 - 130
Bromodichloromethane	10.0	9.95		ug/L		99	70 - 132
Bromoform	10.0	10.9		ug/L		109	60 - 148
Bromomethane	10.0	8.76		ug/L		88	64 - 139
Carbon tetrachloride	10.0	10.1		ug/L		101	60 - 150
Chlorobenzene	10.0	10.1		ug/L		101	70 - 130
Chloroethane	10.0	8.61		ug/L		86	64 - 135
Chloroform	10.0	9.36		ug/L		94	70 - 130
Chloromethane	10.0	8.17		ug/L		82	47 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-541250/6
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	10.0	9.48		ug/L		95	70 - 133
cis-1,3-Dichloropropene	10.0	10.2		ug/L		102	70 - 133
Dibromochloromethane	10.0	9.83		ug/L		98	69 - 145
Dibromomethane	10.0	9.52		ug/L		95	70 - 130
Dichlorodifluoromethane	10.0	7.20		ug/L		72	29 - 150
Ethylbenzene	10.0	10.3		ug/L		103	70 - 130
Hexachlorobutadiene	10.0	8.83		ug/L		88	10 - 150
Isopropylbenzene	10.0	9.85		ug/L		98	70 - 136
m,p-Xylene	10.0	10.1		ug/L		101	70 - 130
Methylene Chloride	10.0	9.01		ug/L		90	52 - 130
Naphthalene	10.0	8.14		ug/L		81	60 - 140
n-Butylbenzene	10.0	9.50		ug/L		95	65 - 150
N-Propylbenzene	10.0	10.6		ug/L		106	67 - 139
o-Xylene	10.0	9.41		ug/L		94	70 - 130
p-Isopropyltoluene	10.0	10.3		ug/L		103	70 - 132
sec-Butylbenzene	10.0	10.4		ug/L		104	70 - 138
Styrene	10.0	9.88		ug/L		99	70 - 134
tert-Butylbenzene	10.0	10.2		ug/L		102	70 - 130
Tetrachloroethene	10.0	9.94		ug/L		99	70 - 130
Toluene	10.0	9.85		ug/L		99	70 - 130
trans-1,2-Dichloroethene	10.0	9.09		ug/L		91	70 - 130
trans-1,3-Dichloropropene	10.0	10.1		ug/L		101	70 - 132
Trichloroethene	10.0	9.29		ug/L		93	70 - 130
Trichlorofluoromethane	10.0	8.59		ug/L		86	60 - 150
Vinyl chloride	10.0	8.44		ug/L		84	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: 440-238127-13 MS
Matrix: Water
Analysis Batch: 541250

Client Sample ID: WELL-N-20190405
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		250	248		ug/L		99	60 - 149
1,1,1-Trichloroethane	ND		250	232		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	ND		250	248		ug/L		99	63 - 130
1,1,2-Trichloroethane	ND		250	255		ug/L		102	70 - 130
1,1-Dichloroethane	ND		250	227		ug/L		91	65 - 130
1,1-Dichloroethene	ND		250	218		ug/L		87	70 - 130
1,1-Dichloropropene	ND		250	221		ug/L		89	64 - 130
1,2,3-Trichlorobenzene	31	J	250	233		ug/L		81	60 - 140
1,2,3-Trichloropropane	ND		250	245	J	ug/L		98	60 - 130
1,2,4-Trichlorobenzene	46	J	250	256		ug/L		84	60 - 140
1,2,4-Trimethylbenzene	ND		250	247		ug/L		99	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238127-13 MS
Matrix: Water
Analysis Batch: 541250

Client Sample ID: WELL-N-20190405
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		250	214		ug/L		86	48 - 140
1,2-Dibromoethane (EDB)	ND		250	247		ug/L		99	70 - 131
1,2-Dichlorobenzene	67		250	303		ug/L		94	70 - 130
1,2-Dichloroethane	ND		250	223		ug/L		89	56 - 146
1,2-Dichloropropane	ND		250	263		ug/L		105	69 - 130
1,3,5-Trimethylbenzene	ND		250	255		ug/L		102	70 - 130
1,3-Dichlorobenzene	7.3	J	250	255		ug/L		99	70 - 130
1,3-Dichloropropane	ND		250	249		ug/L		99	70 - 130
1,4-Dichlorobenzene	96		250	336		ug/L		96	70 - 130
2,2-Dichloropropane	ND		250	234		ug/L		93	69 - 138
2-Chlorotoluene	ND		250	256		ug/L		102	70 - 130
4-Chlorotoluene	ND		250	274		ug/L		109	70 - 130
Benzene	19	J	250	246		ug/L		91	66 - 130
Bromobenzene	ND		250	270		ug/L		108	70 - 130
Bromochloromethane	ND		250	223		ug/L		89	70 - 130
Bromodichloromethane	ND		250	248		ug/L		99	70 - 138
Bromoform	ND		250	270		ug/L		108	59 - 150
Bromomethane	ND		250	212		ug/L		85	62 - 131
Carbon tetrachloride	ND		250	241		ug/L		97	60 - 150
Chlorobenzene	1300		250	1460	4	ug/L		78	70 - 130
Chloroethane	ND		250	214		ug/L		85	68 - 130
Chloroform	ND		250	236		ug/L		94	70 - 130
Chloromethane	ND		250	194		ug/L		78	39 - 144
cis-1,2-Dichloroethene	ND		250	231		ug/L		93	70 - 130
cis-1,3-Dichloropropene	ND		250	255		ug/L		102	70 - 133
Dibromochloromethane	ND		250	253		ug/L		101	70 - 148
Dibromomethane	ND		250	225		ug/L		90	70 - 130
Dichlorodifluoromethane	ND		250	181		ug/L		72	25 - 142
Ethylbenzene	ND		250	258		ug/L		103	70 - 130
Hexachlorobutadiene	15	J	250	229		ug/L		86	10 - 150
Isopropylbenzene	ND		250	249		ug/L		100	70 - 132
m,p-Xylene	ND		250	253		ug/L		101	70 - 133
Methylene Chloride	ND		250	227		ug/L		91	52 - 130
Naphthalene	19	J	250	216		ug/L		79	60 - 140
n-Butylbenzene	ND		250	242		ug/L		97	61 - 149
N-Propylbenzene	ND		250	259		ug/L		103	66 - 135
o-Xylene	ND		250	238		ug/L		95	70 - 133
p-Isopropyltoluene	ND		250	260		ug/L		104	70 - 130
sec-Butylbenzene	ND		250	254		ug/L		102	67 - 134
Styrene	ND		250	238		ug/L		95	29 - 150
tert-Butylbenzene	ND		250	257		ug/L		103	70 - 130
Tetrachloroethene	ND		250	244		ug/L		98	70 - 137
Toluene	ND		250	248		ug/L		99	70 - 130
trans-1,2-Dichloroethene	ND		250	226		ug/L		90	70 - 130
trans-1,3-Dichloropropene	ND		250	251		ug/L		101	70 - 138
Trichloroethene	9.5	J	250	234		ug/L		90	70 - 130
Trichlorofluoromethane	ND		250	215		ug/L		86	60 - 150
Vinyl chloride	ND		250	218		ug/L		87	50 - 137

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238127-13 MS
Matrix: Water
Analysis Batch: 541250

Client Sample ID: WELL-N-20190405
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*76 - 132*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 440-238127-13 MSD
Matrix: Water
Analysis Batch: 541250

Client Sample ID: WELL-N-20190405
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		250	256		ug/L		102	60 - 149	3	20
1,1,1-Trichloroethane	ND		250	232		ug/L		93	70 - 130	0	20
1,1,2,2-Tetrachloroethane	ND		250	252		ug/L		101	63 - 130	2	30
1,1,2-Trichloroethane	ND		250	260		ug/L		104	70 - 130	2	25
1,1-Dichloroethane	ND		250	222		ug/L		89	65 - 130	2	20
1,1-Dichloroethene	ND		250	220		ug/L		88	70 - 130	1	20
1,1-Dichloropropene	ND		250	226		ug/L		91	64 - 130	2	20
1,2,3-Trichlorobenzene	31	J	250	246		ug/L		86	60 - 140	5	20
1,2,3-Trichloropropane	ND		250	240	J	ug/L		96	60 - 130	2	30
1,2,4-Trichlorobenzene	46	J	250	252		ug/L		82	60 - 140	2	20
1,2,4-Trimethylbenzene	ND		250	250		ug/L		100	70 - 130	1	25
1,2-Dibromo-3-Chloropropane	ND		250	211		ug/L		84	48 - 140	2	30
1,2-Dibromoethane (EDB)	ND		250	256		ug/L		103	70 - 131	4	25
1,2-Dichlorobenzene	67		250	304		ug/L		95	70 - 130	0	20
1,2-Dichloroethane	ND		250	233		ug/L		93	56 - 146	4	20
1,2-Dichloropropane	ND		250	256		ug/L		102	69 - 130	3	20
1,3,5-Trimethylbenzene	ND		250	255		ug/L		102	70 - 130	0	20
1,3-Dichlorobenzene	7.3	J	250	259		ug/L		101	70 - 130	2	20
1,3-Dichloropropane	ND		250	260		ug/L		104	70 - 130	4	25
1,4-Dichlorobenzene	96		250	348		ug/L		101	70 - 130	4	20
2,2-Dichloropropane	ND		250	230		ug/L		92	69 - 138	1	25
2-Chlorotoluene	ND		250	255		ug/L		102	70 - 130	1	20
4-Chlorotoluene	ND		250	264		ug/L		106	70 - 130	3	20
Benzene	19	J	250	255		ug/L		95	66 - 130	4	20
Bromobenzene	ND		250	266		ug/L		106	70 - 130	2	20
Bromochloromethane	ND		250	225		ug/L		90	70 - 130	1	25
Bromodichloromethane	ND		250	254		ug/L		102	70 - 138	2	20
Bromoform	ND		250	278		ug/L		111	59 - 150	3	25
Bromomethane	ND		250	207		ug/L		83	62 - 131	2	25
Carbon tetrachloride	ND		250	246		ug/L		98	60 - 150	2	25
Chlorobenzene	1300		250	1480	4	ug/L		85	70 - 130	1	20
Chloroethane	ND		250	210		ug/L		84	68 - 130	2	25
Chloroform	ND		250	237		ug/L		95	70 - 130	0	20
Chloromethane	ND		250	193		ug/L		77	39 - 144	1	25
cis-1,2-Dichloroethene	ND		250	235		ug/L		94	70 - 130	2	20
cis-1,3-Dichloropropene	ND		250	266		ug/L		106	70 - 133	4	20
Dibromochloromethane	ND		250	264		ug/L		106	70 - 148	4	25
Dibromomethane	ND		250	237		ug/L		95	70 - 130	5	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238127-13 MSD
Matrix: Water
Analysis Batch: 541250

Client Sample ID: WELL-N-20190405
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	ND		250	179		ug/L		72	25 - 142	1	30
Ethylbenzene	ND		250	260		ug/L		104	70 - 130	1	20
Hexachlorobutadiene	15	J	250	226		ug/L		85	10 - 150	1	20
Isopropylbenzene	ND		250	252		ug/L		101	70 - 132	1	20
m,p-Xylene	ND		250	252		ug/L		101	70 - 133	0	25
Methylene Chloride	ND		250	242		ug/L		97	52 - 130	6	20
Naphthalene	19	J	250	216		ug/L		79	60 - 140	0	30
n-Butylbenzene	ND		250	237		ug/L		95	61 - 149	2	20
N-Propylbenzene	ND		250	259		ug/L		104	66 - 135	0	20
o-Xylene	ND		250	246		ug/L		98	70 - 133	3	20
p-Isopropyltoluene	ND		250	255		ug/L		102	70 - 130	2	20
sec-Butylbenzene	ND		250	258		ug/L		103	67 - 134	2	20
Styrene	ND		250	244		ug/L		98	29 - 150	2	35
tert-Butylbenzene	ND		250	254		ug/L		101	70 - 130	1	20
Tetrachloroethene	ND		250	253		ug/L		101	70 - 137	4	20
Toluene	ND		250	250		ug/L		100	70 - 130	1	20
trans-1,2-Dichloroethene	ND		250	225		ug/L		90	70 - 130	1	20
trans-1,3-Dichloropropene	ND		250	254		ug/L		102	70 - 138	1	25
Trichloroethene	9.5	J	250	242		ug/L		93	70 - 130	3	20
Trichlorofluoromethane	ND		250	212		ug/L		85	60 - 150	1	25
Vinyl chloride	ND		250	212		ug/L		85	50 - 137	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: MB 440-541366/6
Matrix: Water
Analysis Batch: 541366

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/19/19 09:38	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/19/19 09:38	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/19/19 09:38	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/19/19 09:38	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/19/19 09:38	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/19/19 09:38	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 09:38	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/19/19 09:38	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/19/19 09:38	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/19/19 09:38	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/19/19 09:38	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/19/19 09:38	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/19/19 09:38	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/19/19 09:38	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/19/19 09:38	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-541366/6
Matrix: Water
Analysis Batch: 541366

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/19/19 09:38	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/19/19 09:38	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/19/19 09:38	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/19/19 09:38	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/19/19 09:38	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/19/19 09:38	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/19/19 09:38	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/19/19 09:38	1
Benzene	ND		2.0	0.25	ug/L			04/19/19 09:38	1
Bromobenzene	ND		5.0	0.25	ug/L			04/19/19 09:38	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/19/19 09:38	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/19/19 09:38	1
Bromoform	ND		5.0	0.40	ug/L			04/19/19 09:38	1
Bromomethane	ND		5.0	0.25	ug/L			04/19/19 09:38	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/19/19 09:38	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/19/19 09:38	1
Chloroethane	ND		5.0	0.40	ug/L			04/19/19 09:38	1
Chloroform	ND		2.0	0.25	ug/L			04/19/19 09:38	1
Chloromethane	ND		5.0	0.25	ug/L			04/19/19 09:38	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/19/19 09:38	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 09:38	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/19/19 09:38	1
Dibromomethane	ND		2.0	0.25	ug/L			04/19/19 09:38	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/19/19 09:38	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/19/19 09:38	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/19/19 09:38	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/19/19 09:38	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/19/19 09:38	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/19/19 09:38	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/19/19 09:38	1
Naphthalene	ND		5.0	0.40	ug/L			04/19/19 09:38	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/19/19 09:38	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/19/19 09:38	1
o-Xylene	ND		2.0	0.25	ug/L			04/19/19 09:38	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/19/19 09:38	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/19/19 09:38	1
Styrene	ND		2.0	0.25	ug/L			04/19/19 09:38	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/19/19 09:38	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/19/19 09:38	1
Toluene	ND		2.0	0.25	ug/L			04/19/19 09:38	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/19/19 09:38	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 09:38	1
Trichloroethene	ND		2.0	0.25	ug/L			04/19/19 09:38	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/19/19 09:38	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/19/19 09:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*04/19/19 09:38*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-541366/6
Matrix: Water
Analysis Batch: 541366

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120		04/19/19 09:38	1
Dibromofluoromethane (Surr)	107		76 - 132		04/19/19 09:38	1
Toluene-d8 (Surr)	96		80 - 128		04/19/19 09:38	1

Lab Sample ID: LCS 440-541366/7
Matrix: Water
Analysis Batch: 541366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	10.1		ug/L		101	60 - 141
1,1,1-Trichloroethane	10.0	10.0		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.98		ug/L		100	63 - 130
1,1,2-Trichloroethane	10.0	9.84		ug/L		98	70 - 130
1,1-Dichloroethane	10.0	9.96		ug/L		100	64 - 130
1,1-Dichloroethene	10.0	9.80		ug/L		98	70 - 130
1,1-Dichloropropene	10.0	8.94		ug/L		89	70 - 130
1,2,3-Trichlorobenzene	10.0	9.62		ug/L		96	60 - 140
1,2,3-Trichloropropane	10.0	9.88	J	ug/L		99	63 - 130
1,2,4-Trichlorobenzene	10.0	9.48		ug/L		95	60 - 140
1,2,4-Trimethylbenzene	10.0	10.7		ug/L		107	70 - 135
1,2-Dibromo-3-Chloropropane	10.0	8.81		ug/L		88	52 - 140
1,2-Dibromoethane (EDB)	10.0	10.4		ug/L		104	70 - 130
1,2-Dichlorobenzene	10.0	10.5		ug/L		105	70 - 130
1,2-Dichloroethane	10.0	9.20		ug/L		92	57 - 138
1,2-Dichloropropane	10.0	9.96		ug/L		100	67 - 130
1,3,5-Trimethylbenzene	10.0	10.9		ug/L		109	70 - 136
1,3-Dichlorobenzene	10.0	10.2		ug/L		102	70 - 130
1,3-Dichloropropane	10.0	9.77		ug/L		98	70 - 130
1,4-Dichlorobenzene	10.0	9.97		ug/L		100	70 - 130
2,2-Dichloropropane	10.0	10.5		ug/L		105	68 - 141
2-Chlorotoluene	10.0	10.6		ug/L		106	70 - 130
4-Chlorotoluene	10.0	11.0		ug/L		110	70 - 130
Benzene	10.0	10.5		ug/L		105	68 - 130
Bromobenzene	10.0	10.2		ug/L		102	70 - 130
Bromochloromethane	10.0	10.1		ug/L		101	70 - 130
Bromodichloromethane	10.0	9.55		ug/L		95	70 - 132
Bromoform	10.0	8.59		ug/L		86	60 - 148
Bromomethane	10.0	7.96		ug/L		80	64 - 139
Carbon tetrachloride	10.0	9.79		ug/L		98	60 - 150
Chlorobenzene	10.0	10.1		ug/L		101	70 - 130
Chloroethane	10.0	8.26		ug/L		83	64 - 135
Chloroform	10.0	10.2		ug/L		102	70 - 130
Chloromethane	10.0	7.03		ug/L		70	47 - 140
cis-1,2-Dichloroethene	10.0	9.88		ug/L		99	70 - 133
cis-1,3-Dichloropropene	10.0	10.2		ug/L		102	70 - 133
Dibromochloromethane	10.0	10.2		ug/L		102	69 - 145
Dibromomethane	10.0	9.74		ug/L		97	70 - 130
Dichlorodifluoromethane	10.0	5.17		ug/L		52	29 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-541366/7
Matrix: Water
Analysis Batch: 541366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	10.0	11.8		ug/L		118	70 - 130
Hexachlorobutadiene	10.0	10.3		ug/L		103	10 - 150
Isopropylbenzene	10.0	12.0		ug/L		120	70 - 136
m,p-Xylene	10.0	9.84		ug/L		98	70 - 130
Methylene Chloride	10.0	9.23		ug/L		92	52 - 130
Naphthalene	10.0	9.08		ug/L		91	60 - 140
n-Butylbenzene	10.0	11.4		ug/L		114	65 - 150
N-Propylbenzene	10.0	12.2		ug/L		122	67 - 139
o-Xylene	10.0	10.4		ug/L		104	70 - 130
p-Isopropyltoluene	10.0	11.9		ug/L		119	70 - 132
sec-Butylbenzene	10.0	11.3		ug/L		113	70 - 138
Styrene	10.0	9.73		ug/L		97	70 - 134
tert-Butylbenzene	10.0	10.3		ug/L		103	70 - 130
Tetrachloroethene	10.0	10.1		ug/L		101	70 - 130
Toluene	10.0	10.4		ug/L		104	70 - 130
trans-1,2-Dichloroethene	10.0	11.2		ug/L		112	70 - 130
trans-1,3-Dichloropropene	10.0	9.20		ug/L		92	70 - 132
Trichloroethene	10.0	10.3		ug/L		103	70 - 130
Trichlorofluoromethane	10.0	8.28		ug/L		83	60 - 150
Vinyl chloride	10.0	7.48		ug/L		75	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*76 - 132*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 440-238127-18 MS
Matrix: Water
Analysis Batch: 541366

Client Sample ID: WELL-R-20190405
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		40.0	39.7		ug/L		99	60 - 149
1,1,1-Trichloroethane	ND		40.0	39.7		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	ND		40.0	39.5		ug/L		99	63 - 130
1,1,2-Trichloroethane	ND		40.0	41.1		ug/L		103	70 - 130
1,1-Dichloroethane	8.6		40.0	48.4		ug/L		100	65 - 130
1,1-Dichloroethene	ND		40.0	41.1		ug/L		103	70 - 130
1,1-Dichloropropene	ND		40.0	34.8		ug/L		87	64 - 130
1,2,3-Trichlorobenzene	11	J	40.0	50.2		ug/L		99	60 - 140
1,2,3-Trichloropropane	ND		40.0	41.2		ug/L		103	60 - 130
1,2,4-Trichlorobenzene	46		40.0	87.3		ug/L		104	60 - 140
1,2,4-Trimethylbenzene	ND		40.0	39.4		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	ND		40.0	38.0		ug/L		95	48 - 140
1,2-Dibromoethane (EDB)	ND		40.0	43.9		ug/L		110	70 - 131
1,2-Dichlorobenzene	580	E	40.0	597	E 4	ug/L		44	70 - 130
1,2-Dichloroethane	2.4	J	40.0	40.5		ug/L		95	56 - 146
1,2-Dichloropropane	ND		40.0	40.7		ug/L		102	69 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238127-18 MS
Matrix: Water
Analysis Batch: 541366

Client Sample ID: WELL-R-20190405
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	ND		40.0	39.2		ug/L		98	70 - 130
1,3-Dichlorobenzene	17		40.0	59.1		ug/L		105	70 - 130
1,3-Dichloropropane	ND		40.0	40.2		ug/L		100	70 - 130
1,4-Dichlorobenzene	610	E	40.0	625	E 4	ug/L		27	70 - 130
2,2-Dichloropropane	ND		40.0	40.4		ug/L		101	69 - 138
2-Chlorotoluene	ND		40.0	38.9		ug/L		97	70 - 130
4-Chlorotoluene	ND		40.0	41.0		ug/L		103	70 - 130
Benzene	5.4	J	40.0	47.4		ug/L		105	66 - 130
Bromobenzene	ND		40.0	38.5		ug/L		96	70 - 130
Bromochloromethane	ND		40.0	42.4		ug/L		106	70 - 130
Bromodichloromethane	ND		40.0	41.9		ug/L		105	70 - 138
Bromoform	ND		40.0	38.1		ug/L		95	59 - 150
Bromomethane	ND		40.0	34.3		ug/L		86	62 - 131
Carbon tetrachloride	ND		40.0	39.1		ug/L		98	60 - 150
Chlorobenzene	560	E	40.0	579	E 4	ug/L		42	70 - 130
Chloroethane	ND		40.0	35.5		ug/L		89	68 - 130
Chloroform	ND		40.0	40.7		ug/L		102	70 - 130
Chloromethane	ND		40.0	32.0		ug/L		80	39 - 144
cis-1,2-Dichloroethene	1.5	J	40.0	41.7		ug/L		100	70 - 130
cis-1,3-Dichloropropene	ND		40.0	39.1		ug/L		98	70 - 133
Dibromochloromethane	ND		40.0	42.8		ug/L		107	70 - 148
Dibromomethane	ND		40.0	41.4		ug/L		104	70 - 130
Dichlorodifluoromethane	ND		40.0	27.4		ug/L		69	25 - 142
Ethylbenzene	ND		40.0	46.0		ug/L		115	70 - 130
Hexachlorobutadiene	ND		40.0	38.8		ug/L		97	10 - 150
Isopropylbenzene	ND		40.0	47.4		ug/L		119	70 - 132
m,p-Xylene	ND		40.0	37.9		ug/L		95	70 - 133
Methylene Chloride	ND		40.0	39.5		ug/L		99	52 - 130
Naphthalene	ND		40.0	38.6		ug/L		97	60 - 140
n-Butylbenzene	ND		40.0	41.8		ug/L		104	61 - 149
N-Propylbenzene	ND		40.0	43.0		ug/L		108	66 - 135
o-Xylene	ND		40.0	40.9		ug/L		102	70 - 133
p-Isopropyltoluene	ND		40.0	44.3		ug/L		111	70 - 130
sec-Butylbenzene	ND		40.0	40.3		ug/L		101	67 - 134
Styrene	ND		40.0	38.8		ug/L		97	29 - 150
tert-Butylbenzene	ND		40.0	37.8		ug/L		95	70 - 130
Tetrachloroethene	ND		40.0	38.3		ug/L		96	70 - 137
Toluene	ND		40.0	39.5		ug/L		99	70 - 130
trans-1,2-Dichloroethene	ND		40.0	45.0		ug/L		112	70 - 130
trans-1,3-Dichloropropene	ND		40.0	36.7		ug/L		92	70 - 138
Trichloroethene	67		40.0	113		ug/L		116	70 - 130
Trichlorofluoromethane	ND		40.0	35.6		ug/L		89	60 - 150
Vinyl chloride	ND		40.0	32.9		ug/L		82	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*76 - 132*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238127-18 MS
Matrix: Water
Analysis Batch: 541366

Client Sample ID: WELL-R-20190405
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-238127-18 MSD
Matrix: Water
Analysis Batch: 541366

Client Sample ID: WELL-R-20190405
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		40.0	39.7		ug/L		99	60 - 149	0	20
1,1,1-Trichloroethane	ND		40.0	37.3		ug/L		93	70 - 130	6	20
1,1,2,2-Tetrachloroethane	ND		40.0	44.9		ug/L		112	63 - 130	13	30
1,1,2-Trichloroethane	ND		40.0	44.3		ug/L		111	70 - 130	8	25
1,1-Dichloroethane	8.6		40.0	46.4		ug/L		95	65 - 130	4	20
1,1-Dichloroethene	ND		40.0	39.2		ug/L		98	70 - 130	5	20
1,1-Dichloropropene	ND		40.0	33.4		ug/L		83	64 - 130	4	20
1,2,3-Trichlorobenzene	11	J	40.0	52.5		ug/L		105	60 - 140	4	20
1,2,3-Trichloropropane	ND		40.0	45.9		ug/L		115	60 - 130	11	30
1,2,4-Trichlorobenzene	46		40.0	87.0		ug/L		103	60 - 140	0	20
1,2,4-Trimethylbenzene	ND		40.0	37.4		ug/L		94	70 - 130	5	25
1,2-Dibromo-3-Chloropropane	ND		40.0	44.8		ug/L		112	48 - 140	17	30
1,2-Dibromoethane (EDB)	ND		40.0	46.6		ug/L		116	70 - 131	6	25
1,2-Dichlorobenzene	580	E	40.0	576	E 4	ug/L		-9	70 - 130	4	20
1,2-Dichloroethane	2.4	J	40.0	43.7		ug/L		103	56 - 146	8	20
1,2-Dichloropropane	ND		40.0	41.3		ug/L		103	69 - 130	1	20
1,3,5-Trimethylbenzene	ND		40.0	37.3		ug/L		93	70 - 130	5	20
1,3-Dichlorobenzene	17		40.0	56.8		ug/L		100	70 - 130	4	20
1,3-Dichloropropane	ND		40.0	42.7		ug/L		107	70 - 130	6	25
1,4-Dichlorobenzene	610	E	40.0	593	E 4	ug/L		-54	70 - 130	5	20
2,2-Dichloropropane	ND		40.0	37.9		ug/L		95	69 - 138	6	25
2-Chlorotoluene	ND		40.0	37.0		ug/L		93	70 - 130	5	20
4-Chlorotoluene	ND		40.0	39.6		ug/L		99	70 - 130	3	20
Benzene	5.4	J	40.0	46.1		ug/L		102	66 - 130	3	20
Bromobenzene	ND		40.0	38.7		ug/L		97	70 - 130	0	20
Bromochloromethane	ND		40.0	45.1		ug/L		113	70 - 130	6	25
Bromodichloromethane	ND		40.0	42.1		ug/L		105	70 - 138	0	20
Bromoform	ND		40.0	41.8		ug/L		104	59 - 150	9	25
Bromomethane	ND		40.0	33.8		ug/L		85	62 - 131	1	25
Carbon tetrachloride	ND		40.0	36.6		ug/L		91	60 - 150	7	25
Chlorobenzene	560	E	40.0	541	E 4	ug/L		-53	70 - 130	7	20
Chloroethane	ND		40.0	33.4		ug/L		84	68 - 130	6	25
Chloroform	ND		40.0	40.6		ug/L		102	70 - 130	0	20
Chloromethane	ND		40.0	30.9		ug/L		77	39 - 144	4	25
cis-1,2-Dichloroethene	1.5	J	40.0	40.6		ug/L		98	70 - 130	3	20
cis-1,3-Dichloropropene	ND		40.0	40.3		ug/L		101	70 - 133	3	20
Dibromochloromethane	ND		40.0	43.5		ug/L		109	70 - 148	1	25
Dibromomethane	ND		40.0	45.7		ug/L		114	70 - 130	10	25
Dichlorodifluoromethane	ND		40.0	25.1		ug/L		63	25 - 142	9	30
Ethylbenzene	ND		40.0	42.8		ug/L		107	70 - 130	7	20
Hexachlorobutadiene	ND		40.0	36.4		ug/L		91	10 - 150	6	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238127-18 MSD — **Client Sample ID: WELL-R-20190405**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541366

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isopropylbenzene	ND		40.0	43.9		ug/L		110	70 - 132	8	20
m,p-Xylene	ND		40.0	36.0		ug/L		90	70 - 133	5	25
Methylene Chloride	ND		40.0	39.4		ug/L		99	52 - 130	0	20
Naphthalene	ND		40.0	45.1		ug/L		113	60 - 140	15	30
n-Butylbenzene	ND		40.0	38.9		ug/L		97	61 - 149	7	20
N-Propylbenzene	ND		40.0	40.6		ug/L		101	66 - 135	6	20
o-Xylene	ND		40.0	38.3		ug/L		96	70 - 133	7	20
p-Isopropyltoluene	ND		40.0	41.4		ug/L		104	70 - 130	7	20
sec-Butylbenzene	ND		40.0	37.9		ug/L		95	67 - 134	6	20
Styrene	ND		40.0	38.1		ug/L		95	29 - 150	2	35
tert-Butylbenzene	ND		40.0	35.7		ug/L		89	70 - 130	6	20
Tetrachloroethene	ND		40.0	35.7		ug/L		89	70 - 137	7	20
Toluene	ND		40.0	37.4		ug/L		93	70 - 130	6	20
trans-1,2-Dichloroethene	ND		40.0	43.1		ug/L		108	70 - 130	4	20
trans-1,3-Dichloropropene	ND		40.0	39.3		ug/L		98	70 - 138	7	25
Trichloroethene	67		40.0	109		ug/L		105	70 - 130	4	20
Trichlorofluoromethane	ND		40.0	32.9		ug/L		82	60 - 150	8	25
Vinyl chloride	ND		40.0	30.7		ug/L		77	50 - 137	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*76 - 132*
Toluene-d8 (Surr)	*92*		*80 - 128*

Lab Sample ID: MB 440-541376/7 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/19/19 09:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*04/19/19 09:46*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/19/19 09:46*	*1*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*04/19/19 09:46*	*1*
Toluene-d8 (Surr)	*106*		*80 - 128*		*04/19/19 09:46*	*1*

Lab Sample ID: MB 440-544150/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 544150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/03/19 08:31	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			05/03/19 08:31	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			05/03/19 08:31	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			05/03/19 08:31	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			05/03/19 08:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-544150/4
Matrix: Water
Analysis Batch: 544150

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		5.0	0.25	ug/L			05/03/19 08:31	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			05/03/19 08:31	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			05/03/19 08:31	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			05/03/19 08:31	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			05/03/19 08:31	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			05/03/19 08:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			05/03/19 08:31	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			05/03/19 08:31	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			05/03/19 08:31	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			05/03/19 08:31	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			05/03/19 08:31	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			05/03/19 08:31	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			05/03/19 08:31	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			05/03/19 08:31	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			05/03/19 08:31	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			05/03/19 08:31	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			05/03/19 08:31	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			05/03/19 08:31	1
Benzene	ND		2.0	0.25	ug/L			05/03/19 08:31	1
Bromobenzene	ND		5.0	0.25	ug/L			05/03/19 08:31	1
Bromochloromethane	ND		5.0	0.25	ug/L			05/03/19 08:31	1
Bromodichloromethane	ND		2.0	0.25	ug/L			05/03/19 08:31	1
Bromoform	ND		5.0	0.40	ug/L			05/03/19 08:31	1
Bromomethane	ND		5.0	0.25	ug/L			05/03/19 08:31	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			05/03/19 08:31	1
Chlorobenzene	ND		2.0	0.25	ug/L			05/03/19 08:31	1
Chloroethane	ND		5.0	0.40	ug/L			05/03/19 08:31	1
Chloroform	ND		2.0	0.25	ug/L			05/03/19 08:31	1
Chloromethane	ND		5.0	0.25	ug/L			05/03/19 08:31	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			05/03/19 08:31	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			05/03/19 08:31	1
Dibromochloromethane	ND		2.0	0.25	ug/L			05/03/19 08:31	1
Dibromomethane	ND		2.0	0.25	ug/L			05/03/19 08:31	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			05/03/19 08:31	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			05/03/19 08:31	1
Ethylbenzene	ND		2.0	0.25	ug/L			05/03/19 08:31	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			05/03/19 08:31	1
Isopropylbenzene	ND		2.0	0.25	ug/L			05/03/19 08:31	1
m,p-Xylene	ND		2.0	0.50	ug/L			05/03/19 08:31	1
Methylene Chloride	ND		2.0	1.1	ug/L			05/03/19 08:31	1
Naphthalene	ND		5.0	0.40	ug/L			05/03/19 08:31	1
n-Butylbenzene	ND		5.0	0.40	ug/L			05/03/19 08:31	1
N-Propylbenzene	ND		2.0	0.25	ug/L			05/03/19 08:31	1
o-Xylene	ND		2.0	0.25	ug/L			05/03/19 08:31	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			05/03/19 08:31	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			05/03/19 08:31	1
Styrene	ND		2.0	0.25	ug/L			05/03/19 08:31	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			05/03/19 08:31	1
Tetrachloroethene	ND		2.0	0.25	ug/L			05/03/19 08:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-544150/4
Matrix: Water
Analysis Batch: 544150

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		2.0	0.25	ug/L			05/03/19 08:31	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			05/03/19 08:31	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			05/03/19 08:31	1
Trichloroethene	ND		2.0	0.25	ug/L			05/03/19 08:31	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			05/03/19 08:31	1
Vinyl chloride	ND		5.0	0.25	ug/L			05/03/19 08:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*		*05/03/19 08:31*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/03/19 08:31*	*1*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*05/03/19 08:31*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*05/03/19 08:31*	*1*

Lab Sample ID: LCS 440-544150/5
Matrix: Water
Analysis Batch: 544150

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	10.3		ug/L		103	60 - 141
1,1,1-Trichloroethane	10.0	10.7		ug/L		107	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.54		ug/L		95	63 - 130
1,1,2-Trichloroethane	10.0	8.81		ug/L		88	70 - 130
1,1-Dichloroethane	10.0	9.78		ug/L		98	64 - 130
1,1-Dichloroethene	10.0	9.53		ug/L		95	70 - 130
1,1-Dichloropropene	10.0	9.37		ug/L		94	70 - 130
1,2,3-Trichlorobenzene	10.0	9.60		ug/L		96	60 - 140
1,2,3-Trichloropropane	10.0	10.5		ug/L		105	63 - 130
1,2,4-Trichlorobenzene	10.0	9.57		ug/L		96	60 - 140
1,2,4-Trimethylbenzene	10.0	9.39		ug/L		94	70 - 135
1,2-Dibromo-3-Chloropropane	10.0	8.86		ug/L		89	52 - 140
1,2-Dibromoethane (EDB)	10.0	9.95		ug/L		99	70 - 130
1,2-Dichlorobenzene	10.0	9.53		ug/L		95	70 - 130
1,2-Dichloroethane	10.0	10.7		ug/L		107	57 - 138
1,2-Dichloropropane	10.0	9.88		ug/L		99	67 - 130
1,3,5-Trimethylbenzene	10.0	9.31		ug/L		93	70 - 136
1,3-Dichlorobenzene	10.0	9.19		ug/L		92	70 - 130
1,3-Dichloropropane	10.0	9.93		ug/L		99	70 - 130
1,4-Dichlorobenzene	10.0	9.32		ug/L		93	70 - 130
2,2-Dichloropropane	10.0	10.9		ug/L		109	68 - 141
2-Chlorotoluene	10.0	9.16		ug/L		92	70 - 130
4-Chlorotoluene	10.0	9.45		ug/L		95	70 - 130
Benzene	10.0	9.62		ug/L		96	68 - 130
Bromobenzene	10.0	9.12		ug/L		91	70 - 130
Bromochloromethane	10.0	10.0		ug/L		100	70 - 130
Bromodichloromethane	10.0	10.3		ug/L		103	70 - 132
Bromoform	10.0	10.7		ug/L		107	60 - 148
Bromomethane	10.0	9.13		ug/L		91	64 - 139
Carbon tetrachloride	10.0	11.2		ug/L		112	60 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-544150/5
Matrix: Water
Analysis Batch: 544150

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	10.0	9.65		ug/L		96	70 - 130
Chloroethane	10.0	9.07		ug/L		91	64 - 135
Chloroform	10.0	10.3		ug/L		103	70 - 130
Chloromethane	10.0	8.94		ug/L		89	47 - 140
cis-1,2-Dichloroethene	10.0	9.20		ug/L		92	70 - 133
cis-1,3-Dichloropropene	10.0	10.0		ug/L		100	70 - 133
Dibromochloromethane	10.0	10.4		ug/L		104	69 - 145
Dibromomethane	10.0	10.4		ug/L		104	70 - 130
Dichlorodifluoromethane	10.0	9.27		ug/L		93	29 - 150
Ethylbenzene	10.0	9.41		ug/L		94	70 - 130
Hexachlorobutadiene	10.0	10.5		ug/L		105	10 - 150
Isopropylbenzene	10.0	9.25		ug/L		93	70 - 136
m,p-Xylene	10.0	9.42		ug/L		94	70 - 130
Methylene Chloride	10.0	9.83		ug/L		98	52 - 130
Naphthalene	10.0	9.39		ug/L		94	60 - 140
n-Butylbenzene	10.0	9.56		ug/L		96	65 - 150
N-Propylbenzene	10.0	9.29		ug/L		93	67 - 139
o-Xylene	10.0	9.83		ug/L		98	70 - 130
p-Isopropyltoluene	10.0	9.21		ug/L		92	70 - 132
sec-Butylbenzene	10.0	9.53		ug/L		95	70 - 138
Styrene	10.0	9.68		ug/L		97	70 - 134
tert-Butylbenzene	10.0	9.21		ug/L		92	70 - 130
Tetrachloroethene	10.0	9.74		ug/L		97	70 - 130
Toluene	10.0	9.09		ug/L		91	70 - 130
trans-1,2-Dichloroethene	10.0	10.1		ug/L		101	70 - 130
trans-1,3-Dichloropropene	10.0	10.2		ug/L		102	70 - 132
Trichloroethene	10.0	9.73		ug/L		97	70 - 130
Trichlorofluoromethane	10.0	10.0		ug/L		100	60 - 150
Vinyl chloride	10.0	8.30		ug/L		83	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*114*		*76 - 132*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 440-239636-A-10 MS
Matrix: Water
Analysis Batch: 544150

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		40.0	41.9		ug/L		105	60 - 149
1,1,1-Trichloroethane	ND		40.0	49.8		ug/L		124	70 - 130
1,1,2,2-Tetrachloroethane	ND		40.0	37.7		ug/L		94	63 - 130
1,1,2-Trichloroethane	ND		40.0	32.6		ug/L		82	70 - 130
1,1-Dichloroethane	ND		40.0	40.3		ug/L		101	65 - 130
1,1-Dichloroethene	ND		40.0	44.6		ug/L		111	70 - 130
1,1-Dichloropropene	ND		40.0	43.5		ug/L		109	64 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-239636-A-10 MS
Matrix: Water
Analysis Batch: 544150

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichlorobenzene	ND		40.0	38.2		ug/L		96	60 - 140
1,2,3-Trichloropropane	ND		40.0	41.5		ug/L		104	60 - 130
1,2,4-Trichlorobenzene	ND		40.0	40.3		ug/L		101	60 - 140
1,2,4-Trimethylbenzene	ND		40.0	40.0		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	ND		40.0	39.3		ug/L		98	48 - 140
1,2-Dibromoethane (EDB)	ND		40.0	38.6		ug/L		96	70 - 131
1,2-Dichlorobenzene	ND		40.0	38.8		ug/L		97	70 - 130
1,2-Dichloroethane	ND		40.0	38.6		ug/L		97	56 - 146
1,2-Dichloropropane	ND		40.0	40.2		ug/L		101	69 - 130
1,3,5-Trimethylbenzene	ND		40.0	40.2		ug/L		100	70 - 130
1,3-Dichlorobenzene	ND		40.0	37.8		ug/L		94	70 - 130
1,3-Dichloropropane	ND		40.0	40.1		ug/L		100	70 - 130
1,4-Dichlorobenzene	ND		40.0	37.5		ug/L		94	70 - 130
2,2-Dichloropropane	ND		40.0	51.2		ug/L		128	69 - 138
2-Chlorotoluene	ND		40.0	39.0		ug/L		98	70 - 130
4-Chlorotoluene	ND		40.0	40.3		ug/L		101	70 - 130
Benzene	ND		40.0	39.1		ug/L		98	66 - 130
Bromobenzene	ND		40.0	37.0		ug/L		93	70 - 130
Bromochloromethane	ND		40.0	38.3		ug/L		96	70 - 130
Bromodichloromethane	ND		40.0	40.3		ug/L		101	70 - 138
Bromoform	ND		40.0	37.4		ug/L		94	59 - 150
Bromomethane	ND		40.0	35.3		ug/L		88	62 - 131
Carbon tetrachloride	ND		40.0	50.0		ug/L		125	60 - 150
Chlorobenzene	ND		40.0	38.7		ug/L		97	70 - 130
Chloroethane	ND		40.0	38.2		ug/L		95	68 - 130
Chloroform	1.1	J	40.0	40.8		ug/L		99	70 - 130
Chloromethane	ND		40.0	35.5		ug/L		89	39 - 144
cis-1,2-Dichloroethene	ND		40.0	38.2		ug/L		95	70 - 130
cis-1,3-Dichloropropene	ND		40.0	39.8		ug/L		100	70 - 133
Dibromochloromethane	ND		40.0	39.8		ug/L		99	70 - 148
Dibromomethane	ND		40.0	40.7		ug/L		102	70 - 130
Dichlorodifluoromethane	ND		40.0	44.6		ug/L		111	25 - 142
Ethylbenzene	ND		40.0	40.8		ug/L		102	70 - 130
Hexachlorobutadiene	ND		40.0	47.6		ug/L		119	10 - 150
Isopropylbenzene	ND		40.0	42.8		ug/L		107	70 - 132
m,p-Xylene	ND		40.0	40.2		ug/L		100	70 - 133
Methylene Chloride	ND		40.0	36.1		ug/L		90	52 - 130
Naphthalene	ND		40.0	37.7		ug/L		94	60 - 140
n-Butylbenzene	ND		40.0	45.4		ug/L		113	61 - 149
N-Propylbenzene	ND		40.0	42.0		ug/L		105	66 - 135
o-Xylene	ND		40.0	40.0		ug/L		100	70 - 133
p-Isopropyltoluene	ND		40.0	42.6		ug/L		107	70 - 130
sec-Butylbenzene	ND		40.0	44.4		ug/L		111	67 - 134
Styrene	ND		40.0	39.4		ug/L		99	29 - 150
tert-Butylbenzene	ND		40.0	42.5		ug/L		106	70 - 130
Tetrachloroethene	ND		40.0	43.6		ug/L		109	70 - 137
Toluene	ND		40.0	37.9		ug/L		95	70 - 130
trans-1,2-Dichloroethene	ND		40.0	41.3		ug/L		103	70 - 130
trans-1,3-Dichloropropene	ND		40.0	39.5		ug/L		99	70 - 138

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-239636-A-10 MS
Matrix: Water
Analysis Batch: 544150

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	920	E	40.0	1040	E 4	ug/L		298	70 - 130
Trichlorofluoromethane	ND		40.0	48.8		ug/L		122	60 - 150
Vinyl chloride	ND		40.0	38.1		ug/L		95	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*110*		*76 - 132*
Toluene-d8 (Surr)	*104*		*80 - 128*

Lab Sample ID: 440-239636-A-10 MSD
Matrix: Water
Analysis Batch: 544150

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		40.0	42.5		ug/L		106	60 - 149	1	20
1,1,1-Trichloroethane	ND		40.0	48.1		ug/L		120	70 - 130	3	20
1,1,2,2-Tetrachloroethane	ND		40.0	39.1		ug/L		98	63 - 130	4	30
1,1,2-Trichloroethane	ND		40.0	37.1		ug/L		93	70 - 130	13	25
1,1-Dichloroethane	ND		40.0	41.5		ug/L		104	65 - 130	3	20
1,1-Dichloroethene	ND		40.0	44.3		ug/L		111	70 - 130	1	20
1,1-Dichloropropene	ND		40.0	43.3		ug/L		108	64 - 130	1	20
1,2,3-Trichlorobenzene	ND		40.0	39.7		ug/L		99	60 - 140	4	20
1,2,3-Trichloropropane	ND		40.0	41.7		ug/L		104	60 - 130	1	30
1,2,4-Trichlorobenzene	ND		40.0	40.5		ug/L		101	60 - 140	1	20
1,2,4-Trimethylbenzene	ND		40.0	39.8		ug/L		99	70 - 130	1	25
1,2-Dibromo-3-Chloropropane	ND		40.0	35.3		ug/L		88	48 - 140	11	30
1,2-Dibromoethane (EDB)	ND		40.0	39.2		ug/L		98	70 - 131	2	25
1,2-Dichlorobenzene	ND		40.0	39.7		ug/L		99	70 - 130	2	20
1,2-Dichloroethane	ND		40.0	40.2		ug/L		101	56 - 146	4	20
1,2-Dichloropropane	ND		40.0	41.7		ug/L		104	69 - 130	4	20
1,3,5-Trimethylbenzene	ND		40.0	39.9		ug/L		100	70 - 130	1	20
1,3-Dichlorobenzene	ND		40.0	37.7		ug/L		94	70 - 130	0	20
1,3-Dichloropropane	ND		40.0	38.2		ug/L		96	70 - 130	5	25
1,4-Dichlorobenzene	ND		40.0	38.3		ug/L		96	70 - 130	2	20
2,2-Dichloropropane	ND		40.0	50.4		ug/L		126	69 - 138	2	25
2-Chlorotoluene	ND		40.0	39.4		ug/L		98	70 - 130	1	20
4-Chlorotoluene	ND		40.0	37.6		ug/L		94	70 - 130	7	20
Benzene	ND		40.0	38.8		ug/L		97	66 - 130	1	20
Bromobenzene	ND		40.0	36.9		ug/L		92	70 - 130	0	20
Bromochloromethane	ND		40.0	36.4		ug/L		91	70 - 130	5	25
Bromodichloromethane	ND		40.0	43.7		ug/L		109	70 - 138	8	20
Bromoform	ND		40.0	43.2		ug/L		108	59 - 150	14	25
Bromomethane	ND		40.0	36.9		ug/L		92	62 - 131	5	25
Carbon tetrachloride	ND		40.0	48.2		ug/L		121	60 - 150	4	25
Chlorobenzene	ND		40.0	38.9		ug/L		97	70 - 130	1	20
Chloroethane	ND		40.0	38.8		ug/L		97	68 - 130	2	25
Chloroform	1.1	J	40.0	42.0		ug/L		102	70 - 130	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-239636-A-10 MSD
Matrix: Water
Analysis Batch: 544150

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloromethane	ND		40.0	35.4		ug/L		88	39 - 144	0	25
cis-1,2-Dichloroethene	ND		40.0	41.4		ug/L		103	70 - 130	8	20
cis-1,3-Dichloropropene	ND		40.0	39.5		ug/L		99	70 - 133	1	20
Dibromochloromethane	ND		40.0	40.8		ug/L		102	70 - 148	3	25
Dibromomethane	ND		40.0	39.8		ug/L		99	70 - 130	2	25
Dichlorodifluoromethane	ND		40.0	42.1		ug/L		105	25 - 142	6	30
Ethylbenzene	ND		40.0	40.5		ug/L		101	70 - 130	1	20
Hexachlorobutadiene	ND		40.0	44.5		ug/L		111	10 - 150	7	20
Isopropylbenzene	ND		40.0	42.2		ug/L		105	70 - 132	1	20
m,p-Xylene	ND		40.0	39.7		ug/L		99	70 - 133	1	25
Methylene Chloride	ND		40.0	38.1		ug/L		95	52 - 130	5	20
Naphthalene	ND		40.0	37.7		ug/L		94	60 - 140	0	30
n-Butylbenzene	ND		40.0	43.9		ug/L		110	61 - 149	3	20
N-Propylbenzene	ND		40.0	41.2		ug/L		103	66 - 135	2	20
o-Xylene	ND		40.0	41.5		ug/L		104	70 - 133	4	20
p-Isopropyltoluene	ND		40.0	43.6		ug/L		109	70 - 130	2	20
sec-Butylbenzene	ND		40.0	44.4		ug/L		111	67 - 134	0	20
Styrene	ND		40.0	38.4		ug/L		96	29 - 150	3	35
tert-Butylbenzene	ND		40.0	42.2		ug/L		105	70 - 130	1	20
Tetrachloroethene	ND		40.0	45.3		ug/L		113	70 - 137	4	20
Toluene	ND		40.0	36.7		ug/L		92	70 - 130	3	20
trans-1,2-Dichloroethene	ND		40.0	44.4		ug/L		111	70 - 130	7	20
trans-1,3-Dichloropropene	ND		40.0	39.8		ug/L		100	70 - 138	1	25
Trichloroethene	920	E	40.0	1030	E 4	ug/L		268	70 - 130	1	20
Trichlorofluoromethane	ND		40.0	50.0		ug/L		125	60 - 150	2	25
Vinyl chloride	ND		40.0	37.7		ug/L		94	50 - 137	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*113*		*76 - 132*
Toluene-d8 (Surr)	*99*		*80 - 128*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-539097/1-A
Matrix: Water
Analysis Batch: 539790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539097

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/09/19 06:08	04/11/19 18:23	1
2,4'-DDE	ND		0.10	0.020	ug/L		04/09/19 06:08	04/11/19 18:23	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/09/19 06:08	04/11/19 18:23	1
4,4'-DDD	ND		0.10	0.0040	ug/L		04/09/19 06:08	04/11/19 18:23	1
4,4'-DDE	0.00670	J	0.10	0.0030	ug/L		04/09/19 06:08	04/11/19 18:23	1
4,4'-DDT	0.00488	J	0.10	0.0040	ug/L		04/09/19 06:08	04/11/19 18:23	1
Aldrin	ND		0.0050	0.0015	ug/L		04/09/19 06:08	04/11/19 18:23	1
alpha-BHC	ND		0.0050	0.0025	ug/L		04/09/19 06:08	04/11/19 18:23	1
beta-BHC	ND		0.010	0.0040	ug/L		04/09/19 06:08	04/11/19 18:23	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 440-539097/1-A
Matrix: Water
Analysis Batch: 539790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539097

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane	ND		0.10	0.080	ug/L		04/09/19 06:08	04/11/19 18:23	1
delta-BHC	ND		0.20	0.0035	ug/L		04/09/19 06:08	04/11/19 18:23	1
Dieldrin	ND		0.0050	0.0020	ug/L		04/09/19 06:08	04/11/19 18:23	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/09/19 06:08	04/11/19 18:23	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/09/19 06:08	04/11/19 18:23	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/09/19 06:08	04/11/19 18:23	1
Endrin	ND		0.10	0.0020	ug/L		04/09/19 06:08	04/11/19 18:23	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/09/19 06:08	04/11/19 18:23	1
Endrin ketone	ND		0.10	0.0070	ug/L		04/09/19 06:08	04/11/19 18:23	1
gamma-BHC (Lindane)	ND		0.10	0.0030	ug/L		04/09/19 06:08	04/11/19 18:23	1
Heptachlor	ND		0.010	0.0030	ug/L		04/09/19 06:08	04/11/19 18:23	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/09/19 06:08	04/11/19 18:23	1
Methoxychlor	ND		0.10	0.0035	ug/L		04/09/19 06:08	04/11/19 18:23	1
Toxaphene	ND		5.0	0.25	ug/L		04/09/19 06:08	04/11/19 18:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*28 - 108*	*04/09/19 06:08*	*04/11/19 18:23*	*1*
Tetrachloro-m-xylene	*59*		*10 - 123*	*04/09/19 06:08*	*04/11/19 18:23*	*1*

Lab Sample ID: LCS 440-539097/2-A
Matrix: Water
Analysis Batch: 539167

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539097

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4'-DDD	0.250	0.167		ug/L		67	10 - 150
2,4'-DDE	0.250	0.160		ug/L		64	10 - 150
2,4'-DDT	0.250	0.162		ug/L		65	10 - 150
4,4'-DDD	0.250	0.179		ug/L		72	50 - 128
4,4'-DDE	0.250	0.176		ug/L		70	49 - 121
4,4'-DDT	0.250	0.177		ug/L		71	41 - 140
Aldrin	0.250	0.137		ug/L		55	37 - 115
alpha-BHC	0.250	0.169		ug/L		68	44 - 115
beta-BHC	0.250	0.167		ug/L		67	46 - 121
delta-BHC	0.250	0.175	J	ug/L		70	32 - 129
Dieldrin	0.250	0.170		ug/L		68	39 - 126
Endosulfan I	0.250	0.167		ug/L		67	47 - 115
Endosulfan II	0.250	0.176		ug/L		70	47 - 120
Endosulfan sulfate	0.250	0.171	J	ug/L		68	48 - 126
Endrin	0.250	0.175		ug/L		70	43 - 127
Endrin aldehyde	0.250	0.163		ug/L		65	43 - 120
Endrin ketone	0.250	0.167		ug/L		67	47 - 123
gamma-BHC (Lindane)	0.250	0.166		ug/L		67	45 - 116
Heptachlor	0.250	0.151		ug/L		60	37 - 115
Heptachlor epoxide	0.250	0.165		ug/L		66	41 - 129
Methoxychlor	0.250	0.187		ug/L		75	44 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*73*		*28 - 108*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-539097/2-A
Matrix: Water
Analysis Batch: 539167

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539097

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*51*		*10 - 123*

Lab Sample ID: 440-238127-13 MS
Matrix: Water
Analysis Batch: 539476

Client Sample ID: WELL-N-20190405
Prep Type: Total/NA
Prep Batch: 539097

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4'-DDD	ND		0.245	0.172		ug/L		70	50 - 125
2,4'-DDE	0.22		0.245	0.370		ug/L		60	45 - 125
2,4'-DDT	ND		0.245	0.177		ug/L		72	50 - 125
4,4'-DDD	ND		0.245	0.170		ug/L		69	50 - 125
4,4'-DDE	ND		0.245	0.195		ug/L		80	45 - 125
4,4'-DDT	ND		0.245	0.163		ug/L		67	50 - 125
Aldrin	ND		0.245	0.178		ug/L		73	35 - 120
alpha-BHC	2.9	E	0.245	3.28	E 4	ug/L		172	40 - 120
beta-BHC	8.9	E	0.245	9.57	E 4	ug/L		263	50 - 120
delta-BHC	1.4	E	0.245	1.70	E 4	ug/L		109	50 - 120
Dieldrin	ND		0.245	0.164		ug/L		67	50 - 120
Endosulfan I	ND		0.245	0.179		ug/L		73	50 - 120
Endosulfan II	ND		0.245	0.169		ug/L		69	50 - 125
Endosulfan sulfate	ND		0.245	0.168	J	ug/L		69	55 - 125
Endrin	ND		0.245	0.219		ug/L		90	50 - 120
Endrin aldehyde	ND		0.245	0.137		ug/L		56	45 - 125
Endrin ketone	ND		0.245	0.151		ug/L		62	50 - 125
gamma-BHC (Lindane)	0.012	J p	0.245	0.174		ug/L		66	40 - 120
Heptachlor	ND		0.245	0.193		ug/L		79	40 - 120
Heptachlor epoxide	ND		0.245	0.174		ug/L		71	50 - 120
Methoxychlor	ND		0.245	0.166		ug/L		68	55 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*59*		*28 - 108*
Tetrachloro-m-xylene	*63*		*10 - 123*

Lab Sample ID: 440-238127-13 MSD
Matrix: Water
Analysis Batch: 539476

Client Sample ID: WELL-N-20190405
Prep Type: Total/NA
Prep Batch: 539097

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4'-DDD	ND		0.249	0.174		ug/L		70	50 - 125	1	30
2,4'-DDE	0.22		0.249	0.371		ug/L		60	45 - 125	0	30
2,4'-DDT	ND		0.249	0.175		ug/L		71	50 - 125	1	30
4,4'-DDD	ND		0.249	0.173		ug/L		69	50 - 125	2	30
4,4'-DDE	ND		0.249	0.199		ug/L		80	45 - 125	2	30
4,4'-DDT	ND		0.249	0.163		ug/L		66	50 - 125	0	30
Aldrin	ND		0.249	0.176		ug/L		71	35 - 120	1	30
alpha-BHC	2.9	E	0.249	3.24	E 4	ug/L		153	40 - 120	1	30
beta-BHC	8.9	E	0.249	9.45	E 4	ug/L		208	50 - 120	1	30
delta-BHC	1.4	E	0.249	1.68	E 4	ug/L		99	50 - 120	1	30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-238127-13 MSD
Matrix: Water
Analysis Batch: 539476

Client Sample ID: WELL-N-20190405
Prep Type: Total/NA
Prep Batch: 539097

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dieldrin	ND		0.249	0.166		ug/L		67	50 - 120	1	30
Endosulfan I	ND		0.249	0.181		ug/L		73	50 - 120	1	30
Endosulfan II	ND		0.249	0.173		ug/L		70	50 - 125	3	30
Endosulfan sulfate	ND		0.249	0.170	J	ug/L		68	55 - 125	1	30
Endrin	ND		0.249	0.224		ug/L		90	50 - 120	2	30
Endrin aldehyde	ND		0.249	0.142		ug/L		57	45 - 125	4	30
Endrin ketone	ND		0.249	0.151		ug/L		61	50 - 125	0	30
gamma-BHC (Lindane)	0.012	J p	0.249	0.169		ug/L		63	40 - 120	3	30
Heptachlor	ND		0.249	0.186		ug/L		75	40 - 120	4	30
Heptachlor epoxide	ND		0.249	0.174		ug/L		70	50 - 120	0	30
Methoxychlor	ND		0.249	0.172		ug/L		69	55 - 125	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*59*		*28 - 108*
Tetrachloro-m-xylene	*58*		*10 - 123*

Lab Sample ID: MB 440-539101/1-A
Matrix: Water
Analysis Batch: 539138

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539101

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/09/19 06:14	04/09/19 15:22	1
2,4'-DDE	ND		0.10	0.020	ug/L		04/09/19 06:14	04/09/19 15:22	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/09/19 06:14	04/09/19 15:22	1
4,4'-DDD	ND		0.10	0.0040	ug/L		04/09/19 06:14	04/09/19 15:22	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/09/19 06:14	04/09/19 15:22	1
4,4'-DDT	ND		0.10	0.0040	ug/L		04/09/19 06:14	04/09/19 15:22	1
Aldrin	ND		0.0050	0.0015	ug/L		04/09/19 06:14	04/09/19 15:22	1
alpha-BHC	ND		0.0050	0.0025	ug/L		04/09/19 06:14	04/09/19 15:22	1
beta-BHC	ND		0.010	0.0040	ug/L		04/09/19 06:14	04/09/19 15:22	1
Chlordane	ND		0.10	0.080	ug/L		04/09/19 06:14	04/09/19 15:22	1
delta-BHC	ND		0.20	0.0035	ug/L		04/09/19 06:14	04/09/19 15:22	1
Dieldrin	ND		0.0050	0.0020	ug/L		04/09/19 06:14	04/09/19 15:22	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/09/19 06:14	04/09/19 15:22	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/09/19 06:14	04/09/19 15:22	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/09/19 06:14	04/09/19 15:22	1
Endrin	ND		0.10	0.0020	ug/L		04/09/19 06:14	04/09/19 15:22	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/09/19 06:14	04/09/19 15:22	1
Endrin ketone	ND		0.10	0.0070	ug/L		04/09/19 06:14	04/09/19 15:22	1
gamma-BHC (Lindane)	ND		0.10	0.0030	ug/L		04/09/19 06:14	04/09/19 15:22	1
Heptachlor	ND		0.010	0.0030	ug/L		04/09/19 06:14	04/09/19 15:22	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/09/19 06:14	04/09/19 15:22	1
Methoxychlor	ND		0.10	0.0035	ug/L		04/09/19 06:14	04/09/19 15:22	1
Toxaphene	ND		5.0	0.25	ug/L		04/09/19 06:14	04/09/19 15:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*28 - 108*	*04/09/19 06:14*	*04/09/19 15:22*	*1*
Tetrachloro-m-xylene	*45*		*10 - 123*	*04/09/19 06:14*	*04/09/19 15:22*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: LCS 440-539101/2-A
Matrix: Water
Analysis Batch: 539138

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539101

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4'-DDD	0.250	0.168		ug/L		67	10 - 150
2,4'-DDE	0.250	0.162		ug/L		65	10 - 150
2,4'-DDT	0.250	0.164		ug/L		66	10 - 150
4,4'-DDD	0.250	0.176		ug/L		70	50 - 128
4,4'-DDE	0.250	0.175		ug/L		70	49 - 121
4,4'-DDT	0.250	0.169		ug/L		68	41 - 140
Aldrin	0.250	0.154		ug/L		62	37 - 115
alpha-BHC	0.250	0.170		ug/L		68	44 - 115
beta-BHC	0.250	0.167		ug/L		67	46 - 121
delta-BHC	0.250	0.178	J	ug/L		71	32 - 129
Dieldrin	0.250	0.173		ug/L		69	39 - 126
Endosulfan I	0.250	0.170		ug/L		68	47 - 115
Endosulfan II	0.250	0.177		ug/L		71	47 - 120
Endosulfan sulfate	0.250	0.175	J	ug/L		70	48 - 126
Endrin	0.250	0.184		ug/L		74	43 - 127
Endrin aldehyde	0.250	0.166		ug/L		66	43 - 120
Endrin ketone	0.250	0.162		ug/L		65	47 - 123
gamma-BHC (Lindane)	0.250	0.169		ug/L		68	45 - 116
Heptachlor	0.250	0.159		ug/L		64	37 - 115
Heptachlor epoxide	0.250	0.171		ug/L		68	41 - 129
Methoxychlor	0.250	0.176		ug/L		70	44 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*63*		*28 - 108*
Tetrachloro-m-xylene	*52*		*10 - 123*

Lab Sample ID: 440-238127-18 MS
Matrix: Water
Analysis Batch: 539138

Client Sample ID: WELL-R-20190405
Prep Type: Total/NA
Prep Batch: 539101

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4'-DDD	ND	F1 F2	0.254	1.52	E F1	ug/L		598	50 - 125
2,4'-DDE	0.17		0.254	0.347		ug/L		70	45 - 125
2,4'-DDT	0.042	J	0.254	0.284		ug/L		96	50 - 125
4,4'-DDD	ND		0.254	0.196		ug/L		77	50 - 125
4,4'-DDE	0.029	J	0.254	0.243		ug/L		84	45 - 125
4,4'-DDT	0.021	J	0.254	0.288		ug/L		105	50 - 125
Aldrin	ND		0.254	0.204		ug/L		80	35 - 120
alpha-BHC	2.2	E	0.254	2.51	E 4	ug/L		118	40 - 120
beta-BHC	6.6	E	0.254	7.35	E 4	ug/L		290	50 - 120
delta-BHC	1.6	E	0.254	1.89	E 4	ug/L		127	50 - 120
Dieldrin	ND		0.254	0.260		ug/L		102	50 - 120
Endosulfan I	ND		0.254	0.221		ug/L		87	50 - 120
Endosulfan II	ND		0.254	0.194		ug/L		77	50 - 125
Endosulfan sulfate	ND		0.254	0.191	J	ug/L		75	55 - 125
Endrin	ND		0.254	0.305		ug/L		120	50 - 120
Endrin aldehyde	ND		0.254	0.204		ug/L		80	45 - 125
Endrin ketone	ND		0.254	0.155		ug/L		61	50 - 125

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-238127-18 MS — **Client Sample ID: WELL-R-20190405**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 539138 — **Prep Batch: 539101**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
gamma-BHC (Lindane)	0.043	J p	0.254	0.211		ug/L		66	40 - 120
Heptachlor	ND		0.254	0.170		ug/L		67	40 - 120
Heptachlor epoxide	ND		0.254	0.206		ug/L		81	50 - 120
Methoxychlor	ND		0.254	0.240		ug/L		95	55 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*53*		*28 - 108*
Tetrachloro-m-xylene	*55*		*10 - 123*

Lab Sample ID: 440-238127-18 MSD — **Client Sample ID: WELL-R-20190405**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 539138 — **Prep Batch: 539101**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4'-DDD	ND	F1 F2	0.254	1.09	E F1 F2	ug/L		428	50 - 125	33	30
2,4'-DDE	0.17		0.254	0.346		ug/L		70	45 - 125	0	30
2,4'-DDT	0.042	J	0.254	0.264		ug/L		88	50 - 125	7	30
4,4'-DDD	ND		0.254	0.194		ug/L		76	50 - 125	1	30
4,4'-DDE	0.029	J	0.254	0.235		ug/L		81	45 - 125	3	30
4,4'-DDT	0.021	J	0.254	0.269		ug/L		98	50 - 125	7	30
Aldrin	ND		0.254	0.190		ug/L		75	35 - 120	7	30
alpha-BHC	2.2	E	0.254	2.62	E 4	ug/L		160	40 - 120	4	30
beta-BHC	6.6	E	0.254	7.59	E 4	ug/L		383	50 - 120	3	30
delta-BHC	1.6	E	0.254	1.94	E 4	ug/L		148	50 - 120	3	30
Dieldrin	ND		0.254	0.237		ug/L		93	50 - 120	9	30
Endosulfan I	ND		0.254	0.221		ug/L		87	50 - 120	0	30
Endosulfan II	ND		0.254	0.193		ug/L		76	50 - 125	1	30
Endosulfan sulfate	ND		0.254	0.190	J	ug/L		75	55 - 125	1	30
Endrin	ND		0.254	0.297		ug/L		117	50 - 120	2	30
Endrin aldehyde	ND		0.254	0.196		ug/L		77	45 - 125	4	30
Endrin ketone	ND		0.254	0.161		ug/L		63	50 - 125	3	30
gamma-BHC (Lindane)	0.043	J p	0.254	0.206		ug/L		64	40 - 120	2	30
Heptachlor	ND		0.254	0.165		ug/L		65	40 - 120	3	30
Heptachlor epoxide	ND		0.254	0.198		ug/L		78	50 - 120	4	30
Methoxychlor	ND		0.254	0.247		ug/L		97	55 - 125	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*55*		*28 - 108*
Tetrachloro-m-xylene	*56*		*10 - 123*

QC Association Summary

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

GC/MS VOA

Analysis Batch: 541078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238127-1	TB-20190405	Total/NA	Water	8260B	
440-238127-2	PL-500-20190405	Total/NA	Water	8260B	
440-238127-14	WELL-P-20190405	Total/NA	Water	8260B	
440-238127-16	WELL-Q-20190405	Total/NA	Water	8260B	
MB 440-541078/4	Method Blank	Total/NA	Water	8260B	
LCS 440-541078/5	Lab Control Sample	Total/NA	Water	8260B	
440-238310-A-6 MS	Matrix Spike	Total/NA	Water	8260B	
440-238310-A-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 541083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238127-3	PL-501-20190405	Total/NA	Water	8260B	
440-238127-3 - DL	PL-501-20190405	Total/NA	Water	8260B	
440-238127-4	WELL-E3-20190405	Total/NA	Water	8260B	
440-238127-4 - DL	WELL-E3-20190405	Total/NA	Water	8260B	
440-238127-5	WELL-F-20190405	Total/NA	Water	8260B	
440-238127-5 - DL	WELL-F-20190405	Total/NA	Water	8260B	
440-238127-6	WELL-G-20190405	Total/NA	Water	8260B	
440-238127-6 - DL	WELL-G-20190405	Total/NA	Water	8260B	
440-238127-7	WELL-D2-20190405	Total/NA	Water	8260B	
440-238127-8	WELL-H2-20190405	Total/NA	Water	8260B	
440-238127-8 - DL	WELL-H2-20190405	Total/NA	Water	8260B	
440-238127-9	WELL-I-20190405	Total/NA	Water	8260B	
440-238127-10	WELL-J-20190405	Total/NA	Water	8260B	
440-238127-11	WELL-K2-20190405	Total/NA	Water	8260B	
440-238127-11 - DL	WELL-K2-20190405	Total/NA	Water	8260B	
MB 440-541083/7	Method Blank	Total/NA	Water	8260B	
LCS 440-541083/8	Lab Control Sample	Total/NA	Water	8260B	
440-238127-3 MS	PL-501-20190405	Total/NA	Water	8260B	
440-238127-3 MSD	PL-501-20190405	Total/NA	Water	8260B	

Analysis Batch: 541250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238127-12	WELL-L-20190405	Total/NA	Water	8260B	
440-238127-12 - DL	WELL-L-20190405	Total/NA	Water	8260B	
440-238127-13 - DL	WELL-N-20190405	Total/NA	Water	8260B	
440-238127-13	WELL-N-20190405	Total/NA	Water	8260B	
440-238127-15	WELL-O-20190405	Total/NA	Water	8260B	
440-238127-15 - DL	WELL-O-20190405	Total/NA	Water	8260B	
440-238127-16 - DL	WELL-Q-20190405	Total/NA	Water	8260B	
440-238127-17	WELL-J2-20190405	Total/NA	Water	8260B	
440-238127-17 - DL	WELL-J2-20190405	Total/NA	Water	8260B	
MB 440-541250/5	Method Blank	Total/NA	Water	8260B	
LCS 440-541250/6	Lab Control Sample	Total/NA	Water	8260B	
440-238127-13 MS	WELL-N-20190405	Total/NA	Water	8260B	
440-238127-13 MSD	WELL-N-20190405	Total/NA	Water	8260B	

Analysis Batch: 541366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238127-7 - DL	WELL-D2-20190405	Total/NA	Water	8260B	
440-238127-9 - DL	WELL-I-20190405	Total/NA	Water	8260B	

GC/MS VOA (Continued)

Analysis Batch: 541366 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238127-10 - DL	WELL-J-20190405	Total/NA	Water	8260B	
440-238127-18	WELL-R-20190405	Total/NA	Water	8260B	
440-238127-18 - DL	WELL-R-20190405	Total/NA	Water	8260B	
440-238127-19	WELL-D3-20190405	Total/NA	Water	8260B	
440-238127-19 - DL	WELL-D3-20190405	Total/NA	Water	8260B	
440-238127-20	WELL-M2-20190405	Total/NA	Water	8260B	
440-238127-20 - DL	WELL-M2-20190405	Total/NA	Water	8260B	
MB 440-541366/6	Method Blank	Total/NA	Water	8260B	
LCS 440-541366/7	Lab Control Sample	Total/NA	Water	8260B	
440-238127-18 MS	WELL-R-20190405	Total/NA	Water	8260B	
440-238127-18 MSD	WELL-R-20190405	Total/NA	Water	8260B	

Analysis Batch: 541376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238127-3 - RA	PL-501-20190405	Total/NA	Water	8260B	
MB 440-541376/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 544150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238127-21	WELL-Q-20190405 DUP	Total/NA	Water	8260B	
440-238127-21 - DL	WELL-Q-20190405 DUP	Total/NA	Water	8260B	
MB 440-544150/4	Method Blank	Total/NA	Water	8260B	
LCS 440-544150/5	Lab Control Sample	Total/NA	Water	8260B	
440-239636-A-10 MS	Matrix Spike	Total/NA	Water	8260B	
440-239636-A-10 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 539097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238127-3 - DL2	PL-501-20190405	Total/NA	Water	3510C	
440-238127-3	PL-501-20190405	Total/NA	Water	3510C	
440-238127-3 - DL	PL-501-20190405	Total/NA	Water	3510C	
440-238127-4 - DL	WELL-E3-20190405	Total/NA	Water	3510C	
440-238127-4 - DL3	WELL-E3-20190405	Total/NA	Water	3510C	
440-238127-4	WELL-E3-20190405	Total/NA	Water	3510C	
440-238127-4 - DL2	WELL-E3-20190405	Total/NA	Water	3510C	
440-238127-5 - DL3	WELL-F-20190405	Total/NA	Water	3510C	
440-238127-5 - DL	WELL-F-20190405	Total/NA	Water	3510C	
440-238127-5	WELL-F-20190405	Total/NA	Water	3510C	
440-238127-5 - DL2	WELL-F-20190405	Total/NA	Water	3510C	
440-238127-6 - DL2	WELL-G-20190405	Total/NA	Water	3510C	
440-238127-6	WELL-G-20190405	Total/NA	Water	3510C	
440-238127-6 - DL	WELL-G-20190405	Total/NA	Water	3510C	
440-238127-7	WELL-D2-20190405	Total/NA	Water	3510C	
440-238127-7 - DL2	WELL-D2-20190405	Total/NA	Water	3510C	
440-238127-7 - DL	WELL-D2-20190405	Total/NA	Water	3510C	
440-238127-8 - DL	WELL-H2-20190405	Total/NA	Water	3510C	
440-238127-8	WELL-H2-20190405	Total/NA	Water	3510C	
440-238127-8 - DL2	WELL-H2-20190405	Total/NA	Water	3510C	
440-238127-9 - DL	WELL-I-20190405	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 539097 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238127-9	WELL-I-20190405	Total/NA	Water	3510C	
440-238127-10	WELL-J-20190405	Total/NA	Water	3510C	
440-238127-10 - DL2	WELL-J-20190405	Total/NA	Water	3510C	
440-238127-10 - DL	WELL-J-20190405	Total/NA	Water	3510C	
440-238127-11	WELL-K2-20190405	Total/NA	Water	3510C	
440-238127-11 - DL2	WELL-K2-20190405	Total/NA	Water	3510C	
440-238127-11 - DL	WELL-K2-20190405	Total/NA	Water	3510C	
440-238127-11 - DL3	WELL-K2-20190405	Total/NA	Water	3510C	
440-238127-12 - DL3	WELL-L-20190405	Total/NA	Water	3510C	
440-238127-12	WELL-L-20190405	Total/NA	Water	3510C	
440-238127-12 - DL	WELL-L-20190405	Total/NA	Water	3510C	
440-238127-12 - DL2	WELL-L-20190405	Total/NA	Water	3510C	
440-238127-13 - DL2	WELL-N-20190405	Total/NA	Water	3510C	
440-238127-13	WELL-N-20190405	Total/NA	Water	3510C	
440-238127-13 - DL	WELL-N-20190405	Total/NA	Water	3510C	
440-238127-14	WELL-P-20190405	Total/NA	Water	3510C	
440-238127-14 - DL	WELL-P-20190405	Total/NA	Water	3510C	
440-238127-15 - DL2	WELL-O-20190405	Total/NA	Water	3510C	
440-238127-15	WELL-O-20190405	Total/NA	Water	3510C	
440-238127-15 - DL	WELL-O-20190405	Total/NA	Water	3510C	
440-238127-16 - DL	WELL-Q-20190405	Total/NA	Water	3510C	
440-238127-16	WELL-Q-20190405	Total/NA	Water	3510C	
440-238127-17 - DL	WELL-J2-20190405	Total/NA	Water	3510C	
440-238127-17 - DL2	WELL-J2-20190405	Total/NA	Water	3510C	
440-238127-17	WELL-J2-20190405	Total/NA	Water	3510C	
MB 440-539097/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-539097/2-A	Lab Control Sample	Total/NA	Water	3510C	
440-238127-13 MS	WELL-N-20190405	Total/NA	Water	3510C	
440-238127-13 MSD	WELL-N-20190405	Total/NA	Water	3510C	

Prep Batch: 539101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238127-18	WELL-R-20190405	Total/NA	Water	3510C	
440-238127-18 - DL	WELL-R-20190405	Total/NA	Water	3510C	
440-238127-19 - DL2	WELL-D3-20190405	Total/NA	Water	3510C	
440-238127-19	WELL-D3-20190405	Total/NA	Water	3510C	
440-238127-19 - DL	WELL-D3-20190405	Total/NA	Water	3510C	
440-238127-20 - DL	WELL-M2-20190405	Total/NA	Water	3510C	
440-238127-20	WELL-M2-20190405	Total/NA	Water	3510C	
MB 440-539101/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-539101/2-A	Lab Control Sample	Total/NA	Water	3510C	
440-238127-18 MS	WELL-R-20190405	Total/NA	Water	3510C	
440-238127-18 MSD	WELL-R-20190405	Total/NA	Water	3510C	

Analysis Batch: 539138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238127-18	WELL-R-20190405	Total/NA	Water	8081A	539101
440-238127-18 - DL	WELL-R-20190405	Total/NA	Water	8081A	539101
440-238127-19	WELL-D3-20190405	Total/NA	Water	8081A	539101
440-238127-19 - DL	WELL-D3-20190405	Total/NA	Water	8081A	539101
440-238127-19 - DL2	WELL-D3-20190405	Total/NA	Water	8081A	539101

GC Semi VOA (Continued)

Analysis Batch: 539138 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238127-20	WELL-M2-20190405	Total/NA	Water	8081A	539101
440-238127-20 - DL	WELL-M2-20190405	Total/NA	Water	8081A	539101
MB 440-539101/1-A	Method Blank	Total/NA	Water	8081A	539101
LCS 440-539101/2-A	Lab Control Sample	Total/NA	Water	8081A	539101
440-238127-18 MS	WELL-R-20190405	Total/NA	Water	8081A	539101
440-238127-18 MSD	WELL-R-20190405	Total/NA	Water	8081A	539101

Analysis Batch: 539167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238127-8 - DL	WELL-H2-20190405	Total/NA	Water	8081A	539097
440-238127-11 - DL	WELL-K2-20190405	Total/NA	Water	8081A	539097
440-238127-13 - DL2	WELL-N-20190405	Total/NA	Water	8081A	539097
LCS 440-539097/2-A	Lab Control Sample	Total/NA	Water	8081A	539097

Analysis Batch: 539476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238127-13	WELL-N-20190405	Total/NA	Water	8081A	539097
440-238127-13 - DL2	WELL-N-20190405	Total/NA	Water	8081A	539097
440-238127-17 - DL	WELL-J2-20190405	Total/NA	Water	8081A	539097
440-238127-17 - DL2	WELL-J2-20190405	Total/NA	Water	8081A	539097
440-238127-13 MS	WELL-N-20190405	Total/NA	Water	8081A	539097
440-238127-13 MSD	WELL-N-20190405	Total/NA	Water	8081A	539097

Analysis Batch: 539482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238127-3 - DL	PL-501-20190405	Total/NA	Water	8081A	539097
440-238127-4 - DL2	WELL-E3-20190405	Total/NA	Water	8081A	539097
440-238127-4 - DL3	WELL-E3-20190405	Total/NA	Water	8081A	539097
440-238127-5 - DL2	WELL-F-20190405	Total/NA	Water	8081A	539097
440-238127-5 - DL3	WELL-F-20190405	Total/NA	Water	8081A	539097
440-238127-6 - DL	WELL-G-20190405	Total/NA	Water	8081A	539097
440-238127-6 - DL2	WELL-G-20190405	Total/NA	Water	8081A	539097
440-238127-7 - DL2	WELL-D2-20190405	Total/NA	Water	8081A	539097
440-238127-8 - DL2	WELL-H2-20190405	Total/NA	Water	8081A	539097
440-238127-10 - DL	WELL-J-20190405	Total/NA	Water	8081A	539097
440-238127-10 - DL2	WELL-J-20190405	Total/NA	Water	8081A	539097
440-238127-11 - DL2	WELL-K2-20190405	Total/NA	Water	8081A	539097
440-238127-11 - DL3	WELL-K2-20190405	Total/NA	Water	8081A	539097
440-238127-12 - DL2	WELL-L-20190405	Total/NA	Water	8081A	539097
440-238127-12 - DL3	WELL-L-20190405	Total/NA	Water	8081A	539097
440-238127-14 - DL	WELL-P-20190405	Total/NA	Water	8081A	539097
440-238127-15 - DL	WELL-O-20190405	Total/NA	Water	8081A	539097
440-238127-15 - DL2	WELL-O-20190405	Total/NA	Water	8081A	539097
440-238127-16 - DL	WELL-Q-20190405	Total/NA	Water	8081A	539097

Analysis Batch: 539700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238127-3 - DL2	PL-501-20190405	Total/NA	Water	8081A	539097
440-238127-9 - DL	WELL-I-20190405	Total/NA	Water	8081A	539097

QC Association Summary

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

GC Semi VOA

Analysis Batch: 539790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238127-3	PL-501-20190405	Total/NA	Water	8081A	539097
440-238127-4	WELL-E3-20190405	Total/NA	Water	8081A	539097
440-238127-5	WELL-F-20190405	Total/NA	Water	8081A	539097
440-238127-6	WELL-G-20190405	Total/NA	Water	8081A	539097
440-238127-7	WELL-D2-20190405	Total/NA	Water	8081A	539097
440-238127-8	WELL-H2-20190405	Total/NA	Water	8081A	539097
440-238127-9	WELL-I-20190405	Total/NA	Water	8081A	539097
440-238127-10	WELL-J-20190405	Total/NA	Water	8081A	539097
440-238127-11	WELL-K2-20190405	Total/NA	Water	8081A	539097
440-238127-12	WELL-L-20190405	Total/NA	Water	8081A	539097
440-238127-14	WELL-P-20190405	Total/NA	Water	8081A	539097
440-238127-15	WELL-O-20190405	Total/NA	Water	8081A	539097
440-238127-16	WELL-Q-20190405	Total/NA	Water	8081A	539097
440-238127-17	WELL-J2-20190405	Total/NA	Water	8081A	539097
MB 440-539097/1-A	Method Blank	Total/NA	Water	8081A	539097

Analysis Batch: 540074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238127-4 - DL	WELL-E3-20190405	Total/NA	Water	8081A	539097
440-238127-5 - DL	WELL-F-20190405	Total/NA	Water	8081A	539097
440-238127-7 - DL	WELL-D2-20190405	Total/NA	Water	8081A	539097
440-238127-12 - DL	WELL-L-20190405	Total/NA	Water	8081A	539097
440-238127-13 - DL	WELL-N-20190405	Total/NA	Water	8081A	539097

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: de maximis, inc.
Project/Site: 3200D Henderson Extracton Wells

Job ID: 440-238127-1
SDG: Henderson, NV

Laboratory: Eurofins TestAmerica, Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Nevada	State Program	9	CA015312018-1	07-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8081A	3510C	Water	2,4'-DDD
8081A	3510C	Water	2,4'-DDE
8081A	3510C	Water	2,4'-DDT
8081A	3510C	Water	4,4'-DDD
8081A	3510C	Water	4,4'-DDE
8081A	3510C	Water	4,4'-DDT
8081A	3510C	Water	Aldrin
8081A	3510C	Water	alpha-BHC
8081A	3510C	Water	beta-BHC
8081A	3510C	Water	Chlordane
8081A	3510C	Water	delta-BHC
8081A	3510C	Water	Dieldrin
8081A	3510C	Water	Endosulfan I
8081A	3510C	Water	Endosulfan II
8081A	3510C	Water	Endosulfan sulfate
8081A	3510C	Water	Endrin
8081A	3510C	Water	Endrin aldehyde
8081A	3510C	Water	Endrin ketone
8081A	3510C	Water	gamma-BHC (Lindane)
8081A	3510C	Water	Heptachlor
8081A	3510C	Water	Heptachlor epoxide
8081A	3510C	Water	Methoxychlor
8081A	3510C	Water	Toxaphene
8260B		Water	Dimethyl disulfide

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone 949.261.1022 fax 949.260 3299

TestAmerica
Las Vegas
219

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Nicole Bradley, Dean Charles	Site Contact: Kevin Paprocki	Date: 4-5-19	COC No:
de maximis, Inc.	Tel/Fax: 619-546-8377	Lab Contact: Danielle Roberts	Carrier: Kevin Paprocki	__1__ of __2__ COCs
1322 Scott St., Suite 101	Analysis Turnaround Time			Job No. **3200D**
San Diego, CA 92106	Calendar (C) or Work Days (W)___ W___			SDG No.
(619) 546-8377 Phone	TAT if different from Below_____			00 4/8/19
(619) 546-9980 Fax	☒ 2 weeks			
Project Name: **3200D Henderson Extraction Wells**	☐ 1 week			
Site: Henderson, NV	☐ 2 days			
PO#	☐ 1 day			

Sample Identification	Container Type	Sample Date	Sample Time	Preservation Type	Matrix	# of Containers	Filtered Sample	8260B-HEND-Qtrly	8081A-Pesticides + DDT ByProd								VOC concentration > 500 ppb	MS/MSD REQUIRED	LEVEL 2A REQUIRED	Sample Specific Notes:
TB-20190405	VOA	4/5/19	0700	4°C	AQ	3	N	x									x		x	
PL-500-20190405	VOA	4/5/19	0845	4°C	AQ	3	N	x									x		x	
PL-501-20190405	VOA/Amber	4/5/19	1000	4°C	AQ	5	N	x	x								x		x	
Well-E3-20190405	VOA/Amber	4/5/19	1010	4°C	AQ	5	N	x	x								x		x	
Well-F-20190405	VOA/Amber	4/5/19	1045	4°C	AQ	5	N	x	x								x		x	
Well-G-20190405	VOA/Amber	4/5/19	1115	4°C	AQ	5	N	x	x								x		x	
Well-D2-20190405	VOA/Amber	4/5/19	0945	4°C	AQ	5	N	x	x								x		x	
Well-H2-20190405	VOA/Amber	4/5/19	1225	4°C	AQ	5	N	x	x								x		x	
Well-I-20190405	VOA/Amber	4/5/19	1250	4°C	AQ	5	N	x	x								x		x	
Well-J-20190405	VOA/Amber	4/5/19	0905	4°C	AQ	5	N	x	x								x		x	
Well-K2-20190405	VOA/Amber	4/5/19	1235	4°C	AQ	5	N	x	x								x		x	
Well-L-20190405	VOA/Amber	4/5/19	1035	4°C	AQ	5	N	x	x								x		x	
Well-N-20190405	VOA/Amber	4/5/19	0930	4°C	AQ	10	N	x	x								x	X	x	
Well-P-20190405	VOA/Amber	4/5/19	0822	4°C	AQ	5	N	x	x								x		x	
Well-O-20190405	VOA/Amber	4/5/19	1055	4°C	AQ	5	N	x	x								x		x	
Well-Q-20190405	VOA/Amber	4/5/19	0835	4°C	AQ	5	N	x	x								x		x	
Well-J2-20190405	VOA/Amber	4/5/19	0915	4°C	AQ	5	N	x	x								x		x	
Well-R-20190405	VOA/Amber	4/5/19	0845	4°C	AQ	10	N	x	x								x	X	x	

[1] I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature_____ Date_____

Preservation Used: 1= Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other_____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return to Client* ☐ Disposal by Lab Archive For _____ Months

Special Instructions/QC Requirements & Comments:
4766 5636 9999 2.4/2.8 1.89

Sample Int (circle one)
Intact: Y / N on ice: Y / N
temperature: 0/5

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Converse	4/5/19 1325	[signature]	TAIRV	4/5/19 1325
Relinquished by: [signature]	Company: TAIRV	Date/Time: 4/5/19 [illegible]	Received by: [signature]	Company: TAIRV	Date/Time: 4/6/19 0945

440-238127 Chain of Custody

4/4/23 2.6/3.0 4.3/4.7 3.9/4.3 1.1/1.5 3.1/3.5 2.2/2.6 2.8/9

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone 949 261.1022 fax 949 260.3299

TestAmerica
Las Vegas
219

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Nicole Bradley, Dean Charles	Site Contact: Kevin Paprocki	Date: 4-5-19	COC No:
de maximis, Inc.	Tel/Fax: 619-546-8377	Lab Contact: Danielle Roberts	Carrier: Kevin Paprocki	2 of 2 COCs
1322 Scott St., Suite 101	Analysis Turnaround Time			Job No. 3200D
San Diego, CA 92106	Calendar (C) or Work Days (W)___ W___			SDG No.
(619) 546-8377 Phone	TAT if different from Below_____			
(619) 546-9980 Fax	☒ 2 weeks			
Project Name 3200D Henderson Extraction Wells	☐ 1 week			
Site: Henderson, NV	☐ 2 days			
PO#	☐ 1 day			

Sample Identification	Container Type	Sample Date	Sample Time	Preservation Type	Matrix	# of Containers	Filtered Sample	8260B-HEND-Qtrly	8081A-Pesticides + DDT ByProd									VOC concentration > 500 ppb	MS/MSD REQUIRED	LEVEL 2A REQUIRED	Sample Specific Notes.
Well-D3-20190405	VOA/Amber	4/5/19	0955	4°C	AQ	5	N	x	x									x		x	
Well-M2-20190405	VOA/Amber	4/5/19	1245	4°C	AQ	5	N	x	x									x		x	

[1] I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature:_____Date_____

Preservation Used: 1= Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other_____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return to Client* ☐ Disposal by Lab Archive For _____ Months

Special Instructions/QC Requirements & Comments:

4766 5636 9799 2.4 12.8 1889

Sample Int (circle one)
Intact: Y / N on ice: Y / N
temperature: C/S

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Converse	4/5/19 1325	[signature]	DWI	4/5/19 1325
Relinquished by:	Company: DWI	Date/Time: 4/5/19 1625	Received by: [signature]	Company: TAIX	Date/Time: 4/6/19 0945

IR 95 2.9

Login Sample Receipt Checklist

Client: de maximis, inc.

Job Number: 440-238127-2
SDG Number: Henderson, NV

Login Number: 238127
List Number: 1
Creator: Bonta, Lucia F

List Source: Eurofins TestAmerica, Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

Laboratory Job ID: 440-238310-1
Laboratory Sample Delivery Group: Henderson, NV
Client Project/Site: 3200B Henderson Transect

For:
de maximis, inc.
1322 Scott Street, Suite 104
San Diego, California 92106

Attn: Nicole Bradley

Authorized for release by:
5/2/2019 1:53:02 PM

Danielle Roberts, Senior Project Manager
(949)260-3249
danielle.roberts@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 6
Client Sample Results 10
Surrogate Summary 34
Method Summary 36
Lab Chronicle 37
QC Sample Results 41
QC Association Summary 60
Definitions/Glossary 64
Certification Summary 65
Chain of Custody 66
Receipt Checklists 67

Sample Summary

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-238310-1	TB-20190408	Water	04/08/19 07:00	04/09/19 12:57
440-238310-2	PL-502-20190408	Water	04/08/19 09:00	04/09/19 12:57
440-238310-3	PL-503-20190408	Water	04/08/19 09:15	04/09/19 12:57
440-238310-4	PL-504-20190408	Water	04/08/19 13:35	04/09/19 12:57
440-238310-5	MC-113-20190408	Water	04/08/19 10:34	04/09/19 12:57
440-238310-6	MC-114-20190408	Water	04/08/19 11:45	04/09/19 12:57
440-238310-7	MC-53-20190408	Water	04/08/19 14:00	04/09/19 12:57
440-238310-8	MC-47-20190408	Water	04/08/19 10:45	04/09/19 12:57
440-238310-9	MC-48-20190408	Water	04/08/19 12:02	04/09/19 12:57
440-238310-10	MC-49-20190408	Water	04/08/19 13:35	04/09/19 12:57

Job ID: 440-238310-1

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative
440-238310-1

Comments
No additional comments.

Receipt
The samples were received on 4/9/2019 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.0º C, 2.1º C and 2.4º C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): MC-49-20190408 (440-238310-10). MW-49 listed 4/8/19 @ 1335 and containers labeled MW-48 4/8/19 @ 1335

GC/MS VOA
Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-541078 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8081A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch preparation batch 440-539449 and analytical batch 440-539476 The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch: (LCS 440-539449/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6020: The following samples were diluted due to the nature of the sample matrix: MC-113-20190408 (440-238310-5), MC-114-20190408 (440-238310-6), MC-53-20190408 (440-238310-7), MC-47-20190408 (440-238310-8), MC-48-20190408 (440-238310-9) and MC-49-20190408 (440-238310-10). Elevated reporting limits (RLs) are provided.

Method(s) 7470A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-540529 and analytical batch 440-540896 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8081A preparation batch 440-539449. LCS was performed in duplicate to maintain precision of data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 440-238310-2

Laboratory: Eurofins TestAmerica, Irvine

Job ID: 440-238310-2 (Continued)

Laboratory: Eurofins TestAmerica, Irvine (Continued)

Narrative

Job Narrative
440-238310-2

Comments
No additional comments.

Receipt
The samples were received on 4/9/2019 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.0º C, 2.1º C and 2.4º C.

Receipt Exceptions

Perchlorate analysis requires that samples have significant headspace (1/3 of container volume) to reduce potential anaerobic biodegradation. The following samples were received with insufficient headspace: PL-502-20190408 (440-238310-2), PL-503-20190408 (440-238310-3), MC-113-20190408 (440-238310-5), MC-114-20190408 (440-238310-6), MC-53-20190408 (440-238310-7), MC-47-20190408 (440-238310-8), MC-48-20190408 (440-238310-9) and MC-49-20190408 (440-238310-10). Received containers with not enough headpace.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: TB-20190408 — Lab Sample ID: 440-238310-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene - RA	1.1	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene - RA	1.3	J	2.0	0.25	ug/L	1		8260B	Total/NA

Client Sample ID: PL-502-20190408 — Lab Sample ID: 440-238310-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.10	J	0.20	0.10	ug/L	1		6020	Total Recoverable
Barium	0.69		0.20	0.10	ug/L	1		6020	Total Recoverable
Cadmium	0.10		0.10	0.050	ug/L	1		6020	Total Recoverable
Chromium	0.82		0.50	0.25	ug/L	1		6020	Total Recoverable
Lead	0.14		0.10	0.050	ug/L	1		6020	Total Recoverable
Silver	0.32		0.20	0.10	ug/L	1		6020	Total Recoverable
Uranium	0.13		0.10	0.050	ug/L	1		6020	Total Recoverable

Client Sample ID: PL-503-20190408 — Lab Sample ID: 440-238310-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.41		0.20	0.10	ug/L	1		6020	Total Recoverable
Chromium	0.70		0.50	0.25	ug/L	1		6020	Total Recoverable
Silver	0.15	J	0.20	0.10	ug/L	1		6020	Total Recoverable

Client Sample ID: PL-504-20190408 — Lab Sample ID: 440-238310-4

No Detections.

Client Sample ID: MC-113-20190408 — Lab Sample ID: 440-238310-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3-Trichlorobenzene	1.1	J	5.0	0.40	ug/L	1		8260B	Total/NA
1,2,4-Trichlorobenzene	3.3	J	5.0	0.40	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	2.0		2.0	0.25	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	3.1		2.0	0.25	ug/L	1		8260B	Total/NA
Chlorobenzene	8.9		2.0	0.25	ug/L	1		8260B	Total/NA
2,4'-DDE	0.035	J p	0.099	0.020	ug/L	1		8081A	Total/NA
alpha-BHC	0.89		0.0049	0.0025	ug/L	1		8081A	Total/NA
delta-BHC	0.18	J	0.20	0.0034	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.015	J	0.099	0.0030	ug/L	1		8081A	Total/NA
beta-BHC - DL	3.5		0.099	0.039	ug/L	10		8081A	Total/NA
Perchlorate	1400		400	95	ug/L	100		314.0	Total/NA
Arsenic	100		4.0	2.0	ug/L	20		6020	Total Recoverable
Barium	51		4.0	2.0	ug/L	20		6020	Total Recoverable
Cadmium	1.1	J	2.0	1.0	ug/L	20		6020	Total Recoverable
Lead	1.3	J	2.0	1.0	ug/L	20		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: MC-113-20190408 (Continued) — Lab Sample ID: 440-238310-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	45		4.0	2.0	ug/L	20		6020	Total Recoverable
Uranium	23		2.0	1.0	ug/L	20		6020	Total Recoverable
Total Dissolved Solids	17000		200	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MC-114-20190408 — Lab Sample ID: 440-238310-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	4.6		2.0	0.25	ug/L	1		8260B	Total/NA
1,2,3-Trichlorobenzene	0.68	J	5.0	0.40	ug/L	1		8260B	Total/NA
1,2,4-Trichlorobenzene	1.6	J	5.0	0.40	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	16		2.0	0.25	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	0.92	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,3-Dichlorobenzene	1.1	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	23		2.0	0.25	ug/L	1		8260B	Total/NA
Benzene	2.3		2.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	0.27	J	2.0	0.25	ug/L	1		8260B	Total/NA
Trichloroethene	2.5		2.0	0.25	ug/L	1		8260B	Total/NA
Chlorobenzene - DL	230		10	1.3	ug/L	5		8260B	Total/NA
2,4'-DDE	0.023	J p	0.095	0.019	ug/L	1		8081A	Total/NA
alpha-BHC	0.68		0.0047	0.0024	ug/L	1		8081A	Total/NA
delta-BHC	0.79		0.19	0.0033	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.0055	J p	0.095	0.0028	ug/L	1		8081A	Total/NA
beta-BHC - DL	2.0		0.047	0.019	ug/L	5		8081A	Total/NA
Perchlorate	24		20	4.8	ug/L	5		314.0	Total/NA
Arsenic	170		4.0	2.0	ug/L	20		6020	Total Recoverable
Barium	60		4.0	2.0	ug/L	20		6020	Total Recoverable
Chromium	13		10	5.0	ug/L	20		6020	Total Recoverable
Lead	31		2.0	1.0	ug/L	20		6020	Total Recoverable
Silver	13		4.0	2.0	ug/L	20		6020	Total Recoverable
Uranium	39		2.0	1.0	ug/L	20		6020	Total Recoverable
Mercury	0.00029		0.00020	0.00010	mg/L	1		7470A	Total/NA
Total Dissolved Solids	16000		200	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MC-53-20190408 — Lab Sample ID: 440-238310-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.1	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	0.35	J	2.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	0.82	J	2.0	0.25	ug/L	1		8260B	Total/NA
Tetrachloroethene	1.7	J	2.0	0.25	ug/L	1		8260B	Total/NA
alpha-BHC	0.24		0.0051	0.0025	ug/L	1		8081A	Total/NA
beta-BHC	0.74		0.010	0.0041	ug/L	1		8081A	Total/NA
delta-BHC	0.11	J	0.20	0.0036	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.0071	J	0.10	0.0030	ug/L	1		8081A	Total/NA
Perchlorate	2100		2000	480	ug/L	500		314.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: MC-53-20190408 (Continued) — Lab Sample ID: 440-238310-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	110		4.0	2.0	ug/L	20		6020	Total Recoverable
Barium	92		4.0	2.0	ug/L	20		6020	Total Recoverable
Chromium	10		10	5.0	ug/L	20		6020	Total Recoverable
Lead	1.6	J	2.0	1.0	ug/L	20		6020	Total Recoverable
Silver	4.4		4.0	2.0	ug/L	20		6020	Total Recoverable
Uranium	52		2.0	1.0	ug/L	20		6020	Total Recoverable
Total Dissolved Solids	15000		200	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MC-47-20190408 — Lab Sample ID: 440-238310-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.26	J	2.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	9.7		2.0	0.25	ug/L	1		8260B	Total/NA
Trichloroethene	0.28	J	2.0	0.25	ug/L	1		8260B	Total/NA
alpha-BHC	0.059		0.0050	0.0025	ug/L	1		8081A	Total/NA
beta-BHC	0.79		0.010	0.0040	ug/L	1		8081A	Total/NA
delta-BHC	0.32		0.20	0.0035	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.0035	J	0.10	0.0030	ug/L	1		8081A	Total/NA
Perchlorate	21000		4000	950	ug/L	1000		314.0	Total/NA
Arsenic	80		1.0	0.50	ug/L	5		6020	Total Recoverable
Barium	31		1.0	0.50	ug/L	5		6020	Total Recoverable
Chromium	4.5		2.5	1.3	ug/L	5		6020	Total Recoverable
Selenium	5.5		3.0	1.5	ug/L	5		6020	Total Recoverable
Uranium	14		0.50	0.25	ug/L	5		6020	Total Recoverable
Mercury	0.00040		0.00020	0.00010	mg/L	1		7470A	Total/NA
Total Dissolved Solids	3400		100	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MC-48-20190408 — Lab Sample ID: 440-238310-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	0.72	J	5.0	0.40	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	0.54	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	1.1	J	2.0	0.25	ug/L	1		8260B	Total/NA
Chlorobenzene	4.5		2.0	0.25	ug/L	1		8260B	Total/NA
alpha-BHC	0.56		0.0047	0.0024	ug/L	1		8081A	Total/NA
delta-BHC	0.13	J p	0.19	0.0033	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.013	J p	0.095	0.0028	ug/L	1		8081A	Total/NA
beta-BHC - DL	1.9		0.047	0.019	ug/L	5		8081A	Total/NA
Perchlorate	110		40	9.5	ug/L	10		314.0	Total/NA
Arsenic	140		4.0	2.0	ug/L	20		6020	Total Recoverable
Barium	69		4.0	2.0	ug/L	20		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: MC-48-20190408 (Continued) — Lab Sample ID: 440-238310-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	1.1	J	2.0	1.0	ug/L	20		6020	Total Recoverable
Chromium	7.2	J	10	5.0	ug/L	20		6020	Total Recoverable
Silver	2.7	J	4.0	2.0	ug/L	20		6020	Total Recoverable
Uranium	28		2.0	1.0	ug/L	20		6020	Total Recoverable
Total Dissolved Solids	17000		200	100	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MC-49-20190408 — Lab Sample ID: 440-238310-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.3	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,2,3-Trichlorobenzene	0.61	J	5.0	0.40	ug/L	1		8260B	Total/NA
1,2,4-Trichlorobenzene	4.0	J	5.0	0.40	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	15		2.0	0.25	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	0.39	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,3-Dichlorobenzene	0.73	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	23		2.0	0.25	ug/L	1		8260B	Total/NA
Dimethyl disulfide	1.3	J	2.0	1.0	ug/L	1		8260B	Total/NA
tert-Butylbenzene	0.27	J	5.0	0.25	ug/L	1		8260B	Total/NA
Trichloroethene	0.63	J	2.0	0.25	ug/L	1		8260B	Total/NA
Chlorobenzene - DL	160		10	1.3	ug/L	5		8260B	Total/NA
delta-BHC	0.41		0.19	0.0033	ug/L	1		8081A	Total/NA
alpha-BHC - DL	1.9		0.024	0.012	ug/L	5		8081A	Total/NA
beta-BHC - DL	2.2		0.048	0.019	ug/L	5		8081A	Total/NA
Perchlorate	1600		400	95	ug/L	100		314.0	Total/NA
Arsenic	150		4.0	2.0	ug/L	20		6020	Total Recoverable
Barium	53		4.0	2.0	ug/L	20		6020	Total Recoverable
Lead	1.2	J	2.0	1.0	ug/L	20		6020	Total Recoverable
Silver	2.3	J	4.0	2.0	ug/L	20		6020	Total Recoverable
Uranium	22		2.0	1.0	ug/L	20		6020	Total Recoverable
Total Dissolved Solids	17000		200	100	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: TB-20190408

Date Collected: 04/08/19 07:00
Date Received: 04/09/19 12:57

Lab Sample ID: 440-238310-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			04/18/19 14:01	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 14:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/18/19 14:01	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 14:01	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 14:01	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/18/19 14:01	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 14:01	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 14:01	1
1,2,3-Trichloropropane	ND		1.0	0.25	ug/L			04/18/19 14:01	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 14:01	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 14:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/18/19 14:01	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/18/19 14:01	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 14:01	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 14:01	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 14:01	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 14:01	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 14:01	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/18/19 14:01	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 14:01	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 14:01	1
Benzene	ND		2.0	0.25	ug/L			04/18/19 14:01	1
Bromobenzene	ND		5.0	0.25	ug/L			04/18/19 14:01	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/18/19 14:01	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/18/19 14:01	1
Bromoform	ND		5.0	0.40	ug/L			04/18/19 14:01	1
Bromomethane	ND		5.0	0.25	ug/L			04/18/19 14:01	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/18/19 14:01	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/18/19 14:01	1
Chloroethane	ND		5.0	0.40	ug/L			04/18/19 14:01	1
Chloroform	ND		2.0	0.25	ug/L			04/18/19 14:01	1
Chloromethane	ND		2.5	0.25	ug/L			04/18/19 14:01	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 14:01	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 14:01	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/18/19 14:01	1
Dibromomethane	ND		1.0	0.25	ug/L			04/18/19 14:01	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/18/19 14:01	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/18/19 14:01	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/18/19 14:01	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/18/19 14:01	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/18/19 14:01	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/18/19 14:01	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/18/19 14:01	1
Naphthalene	ND		1.0	0.40	ug/L			04/18/19 14:01	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/18/19 14:01	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/18/19 14:01	1
o-Xylene	ND		2.0	0.25	ug/L			04/18/19 14:01	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/18/19 14:01	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 14:01	1

Client Sample ID: TB-20190408

Lab Sample ID: 440-238310-1
Matrix: Water
Date Collected: 04/08/19 07:00
Date Received: 04/09/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		2.0	0.25	ug/L			04/18/19 14:01	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 14:01	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/18/19 14:01	1
Toluene	ND		2.0	0.25	ug/L			04/18/19 14:01	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 14:01	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 14:01	1
Trichloroethene	ND		2.0	0.25	ug/L			04/18/19 14:01	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/18/19 14:01	1
Vinyl chloride	ND		2.0	0.25	ug/L			04/18/19 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*04/18/19 14:01*	*1*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*04/18/19 14:01*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*04/18/19 14:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*04/18/19 14:01*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	**1.1**	**J**	2.0	0.25	ug/L			04/19/19 03:17	1
1,4-Dichlorobenzene	**1.3**	**J**	2.0	0.25	ug/L			04/19/19 03:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*04/19/19 03:17*	*1*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*04/19/19 03:17*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*04/19/19 03:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*04/19/19 03:17*	*1*

Client Sample ID: PL-502-20190408

Lab Sample ID: 440-238310-2
Matrix: Water
Date Collected: 04/08/19 09:00
Date Received: 04/09/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			04/18/19 14:28	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 14:28	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/18/19 14:28	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 14:28	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 14:28	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/18/19 14:28	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 14:28	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 14:28	1
1,2,3-Trichloropropane	ND		1.0	0.25	ug/L			04/18/19 14:28	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 14:28	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 14:28	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/18/19 14:28	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/18/19 14:28	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 14:28	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 14:28	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 14:28	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 14:28	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 14:28	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: PL-502-20190408

Date Collected: 04/08/19 09:00
Date Received: 04/09/19 12:57

Lab Sample ID: 440-238310-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 14:28	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 14:28	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/18/19 14:28	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 14:28	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 14:28	1
Benzene	ND		2.0	0.25	ug/L			04/18/19 14:28	1
Bromobenzene	ND		5.0	0.25	ug/L			04/18/19 14:28	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/18/19 14:28	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/18/19 14:28	1
Bromoform	ND		5.0	0.40	ug/L			04/18/19 14:28	1
Bromomethane	ND		5.0	0.25	ug/L			04/18/19 14:28	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/18/19 14:28	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/18/19 14:28	1
Chloroethane	ND		5.0	0.40	ug/L			04/18/19 14:28	1
Chloroform	ND		2.0	0.25	ug/L			04/18/19 14:28	1
Chloromethane	ND		2.5	0.25	ug/L			04/18/19 14:28	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 14:28	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 14:28	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/18/19 14:28	1
Dibromomethane	ND		1.0	0.25	ug/L			04/18/19 14:28	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/18/19 14:28	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/18/19 14:28	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/18/19 14:28	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/18/19 14:28	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/18/19 14:28	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/18/19 14:28	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/18/19 14:28	1
Naphthalene	ND		1.0	0.40	ug/L			04/18/19 14:28	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/18/19 14:28	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/18/19 14:28	1
o-Xylene	ND		2.0	0.25	ug/L			04/18/19 14:28	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/18/19 14:28	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 14:28	1
Styrene	ND		2.0	0.25	ug/L			04/18/19 14:28	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 14:28	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/18/19 14:28	1
Toluene	ND		2.0	0.25	ug/L			04/18/19 14:28	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 14:28	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 14:28	1
Trichloroethene	ND		2.0	0.25	ug/L			04/18/19 14:28	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/18/19 14:28	1
Vinyl chloride	ND		2.0	0.25	ug/L			04/18/19 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*04/18/19 14:28*	*1*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*04/18/19 14:28*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*04/18/19 14:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*04/18/19 14:28*	*1*

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: PL-502-20190408

Date Collected: 04/08/19 09:00
Date Received: 04/09/19 12:57

Lab Sample ID: 440-238310-2

Matrix: Water

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.096	0.019	ug/L		04/10/19 10:43	04/10/19 22:23	1
2,4'-DDE	ND		0.096	0.019	ug/L		04/10/19 10:43	04/10/19 22:23	1
2,4'-DDT	ND		0.096	0.019	ug/L		04/10/19 10:43	04/10/19 22:23	1
4,4'-DDD	ND		0.096	0.0038	ug/L		04/10/19 10:43	04/10/19 22:23	1
4,4'-DDE	ND		0.096	0.0029	ug/L		04/10/19 10:43	04/10/19 22:23	1
4,4'-DDT	ND		0.096	0.0038	ug/L		04/10/19 10:43	04/10/19 22:23	1
Aldrin	ND		0.0029	0.0014	ug/L		04/10/19 10:43	04/10/19 22:23	1
alpha-BHC	ND		0.0048	0.0024	ug/L		04/10/19 10:43	04/10/19 22:23	1
beta-BHC	ND		0.0096	0.0038	ug/L		04/10/19 10:43	04/10/19 22:23	1
Chlordane	ND		0.096	0.077	ug/L		04/10/19 10:43	04/10/19 22:23	1
delta-BHC	ND		0.19	0.0033	ug/L		04/10/19 10:43	04/10/19 22:23	1
Dieldrin	ND		0.0038	0.0019	ug/L		04/10/19 10:43	04/10/19 22:23	1
Endosulfan I	ND		0.096	0.0029	ug/L		04/10/19 10:43	04/10/19 22:23	1
Endosulfan II	ND		0.096	0.0019	ug/L		04/10/19 10:43	04/10/19 22:23	1
Endosulfan sulfate	ND		0.19	0.0029	ug/L		04/10/19 10:43	04/10/19 22:23	1
Endrin	ND		0.096	0.0019	ug/L		04/10/19 10:43	04/10/19 22:23	1
Endrin aldehyde	ND		0.096	0.0019	ug/L		04/10/19 10:43	04/10/19 22:23	1
Endrin ketone	ND		0.096	0.0067	ug/L		04/10/19 10:43	04/10/19 22:23	1
gamma-BHC (Lindane)	ND		0.096	0.0029	ug/L		04/10/19 10:43	04/10/19 22:23	1
Heptachlor	ND		0.0096	0.0029	ug/L		04/10/19 10:43	04/10/19 22:23	1
Heptachlor epoxide	ND		0.0048	0.0024	ug/L		04/10/19 10:43	04/10/19 22:23	1
Methoxychlor	ND		0.096	0.0033	ug/L		04/10/19 10:43	04/10/19 22:23	1
Toxaphene	ND		2.9	0.24	ug/L		04/10/19 10:43	04/10/19 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*28 - 108*	*04/10/19 10:43*	*04/10/19 22:23*	*1*
Tetrachloro-m-xylene	*52*		*10 - 123*	*04/10/19 10:43*	*04/10/19 22:23*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/16/19 12:27	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.10**	**J**	0.20	0.10	ug/L		04/11/19 08:08	04/11/19 13:27	1
Barium	**0.69**		0.20	0.10	ug/L		04/11/19 08:08	04/11/19 13:27	1
Cadmium	**0.10**		0.10	0.050	ug/L		04/11/19 08:08	04/11/19 13:27	1
Chromium	**0.82**		0.50	0.25	ug/L		04/11/19 08:08	04/11/19 13:27	1
Lead	**0.14**		0.10	0.050	ug/L		04/11/19 08:08	04/11/19 13:27	1
Selenium	ND		0.60	0.30	ug/L		04/11/19 08:08	04/11/19 13:27	1
Silver	**0.32**		0.20	0.10	ug/L		04/11/19 08:08	04/11/19 13:27	1
Uranium	**0.13**		0.10	0.050	ug/L		04/11/19 08:08	04/11/19 13:27	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/16/19 10:36	04/17/19 07:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			04/12/19 08:47	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: PL-503-20190408

Lab Sample ID: 440-238310-3

Date Collected: 04/08/19 09:15
Matrix: Water
Date Received: 04/09/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			04/18/19 14:55	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 14:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/18/19 14:55	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 14:55	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 14:55	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/18/19 14:55	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 14:55	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 14:55	1
1,2,3-Trichloropropane	ND		1.0	0.25	ug/L			04/18/19 14:55	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 14:55	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 14:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/18/19 14:55	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/18/19 14:55	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 14:55	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 14:55	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 14:55	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 14:55	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 14:55	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 14:55	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 14:55	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/18/19 14:55	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 14:55	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 14:55	1
Benzene	ND		2.0	0.25	ug/L			04/18/19 14:55	1
Bromobenzene	ND		5.0	0.25	ug/L			04/18/19 14:55	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/18/19 14:55	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/18/19 14:55	1
Bromoform	ND		5.0	0.40	ug/L			04/18/19 14:55	1
Bromomethane	ND		5.0	0.25	ug/L			04/18/19 14:55	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/18/19 14:55	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/18/19 14:55	1
Chloroethane	ND		5.0	0.40	ug/L			04/18/19 14:55	1
Chloroform	ND		2.0	0.25	ug/L			04/18/19 14:55	1
Chloromethane	ND		2.5	0.25	ug/L			04/18/19 14:55	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 14:55	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 14:55	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/18/19 14:55	1
Dibromomethane	ND		1.0	0.25	ug/L			04/18/19 14:55	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/18/19 14:55	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/18/19 14:55	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/18/19 14:55	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/18/19 14:55	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/18/19 14:55	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/18/19 14:55	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/18/19 14:55	1
Naphthalene	ND		1.0	0.40	ug/L			04/18/19 14:55	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/18/19 14:55	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/18/19 14:55	1
o-Xylene	ND		2.0	0.25	ug/L			04/18/19 14:55	1

Client Sample ID: PL-503-20190408

Lab Sample ID: 440-238310-3

Date Collected: 04/08/19 09:15
Matrix: Water
Date Received: 04/09/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/18/19 14:55	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 14:55	1
Styrene	ND		2.0	0.25	ug/L			04/18/19 14:55	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 14:55	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/18/19 14:55	1
Toluene	ND		2.0	0.25	ug/L			04/18/19 14:55	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 14:55	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 14:55	1
Trichloroethene	ND		2.0	0.25	ug/L			04/18/19 14:55	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/18/19 14:55	1
Vinyl chloride	ND		2.0	0.25	ug/L			04/18/19 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/18/19 14:55*	*1*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*04/18/19 14:55*	*1*
Toluene-d8 (Surr)	*106*		*80 - 128*		*04/18/19 14:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*04/18/19 14:55*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.097	0.019	ug/L		04/10/19 10:43	04/10/19 22:50	1
2,4'-DDE	ND		0.097	0.019	ug/L		04/10/19 10:43	04/10/19 22:50	1
2,4'-DDT	ND		0.097	0.019	ug/L		04/10/19 10:43	04/10/19 22:50	1
4,4'-DDD	ND		0.097	0.0039	ug/L		04/10/19 10:43	04/10/19 22:50	1
4,4'-DDE	ND		0.097	0.0029	ug/L		04/10/19 10:43	04/10/19 22:50	1
4,4'-DDT	ND		0.097	0.0039	ug/L		04/10/19 10:43	04/10/19 22:50	1
Aldrin	ND		0.0029	0.0015	ug/L		04/10/19 10:43	04/10/19 22:50	1
alpha-BHC	ND		0.0049	0.0024	ug/L		04/10/19 10:43	04/10/19 22:50	1
beta-BHC	ND		0.0097	0.0039	ug/L		04/10/19 10:43	04/10/19 22:50	1
Chlordane	ND		0.097	0.078	ug/L		04/10/19 10:43	04/10/19 22:50	1
delta-BHC	ND		0.19	0.0034	ug/L		04/10/19 10:43	04/10/19 22:50	1
Dieldrin	ND		0.0039	0.0019	ug/L		04/10/19 10:43	04/10/19 22:50	1
Endosulfan I	ND		0.097	0.0029	ug/L		04/10/19 10:43	04/10/19 22:50	1
Endosulfan II	ND		0.097	0.0019	ug/L		04/10/19 10:43	04/10/19 22:50	1
Endosulfan sulfate	ND		0.19	0.0029	ug/L		04/10/19 10:43	04/10/19 22:50	1
Endrin	ND		0.097	0.0019	ug/L		04/10/19 10:43	04/10/19 22:50	1
Endrin aldehyde	ND		0.097	0.0019	ug/L		04/10/19 10:43	04/10/19 22:50	1
Endrin ketone	ND		0.097	0.0068	ug/L		04/10/19 10:43	04/10/19 22:50	1
gamma-BHC (Lindane)	ND		0.097	0.0029	ug/L		04/10/19 10:43	04/10/19 22:50	1
Heptachlor	ND		0.0097	0.0029	ug/L		04/10/19 10:43	04/10/19 22:50	1
Heptachlor epoxide	ND		0.0049	0.0024	ug/L		04/10/19 10:43	04/10/19 22:50	1
Methoxychlor	ND		0.097	0.0034	ug/L		04/10/19 10:43	04/10/19 22:50	1
Toxaphene	ND		2.9	0.24	ug/L		04/10/19 10:43	04/10/19 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*28 - 108*	*04/10/19 10:43*	*04/10/19 22:50*	*1*
Tetrachloro-m-xylene	*55*		*10 - 123*	*04/10/19 10:43*	*04/10/19 22:50*	*1*

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: PL-503-20190408

Lab Sample ID: 440-238310-3
Matrix: Water
Date Collected: 04/08/19 09:15
Date Received: 04/09/19 12:57

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/16/19 12:45	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.10	ug/L		04/11/19 08:08	04/11/19 13:39	1
Barium	**0.41**		0.20	0.10	ug/L		04/11/19 08:08	04/11/19 13:39	1
Cadmium	ND		0.10	0.050	ug/L		04/11/19 08:08	04/11/19 13:39	1
Chromium	**0.70**		0.50	0.25	ug/L		04/11/19 08:08	04/11/19 13:39	1
Lead	ND		0.10	0.050	ug/L		04/11/19 08:08	04/11/19 13:39	1
Selenium	ND		0.60	0.30	ug/L		04/11/19 08:08	04/11/19 13:39	1
Silver	**0.15**	**J**	0.20	0.10	ug/L		04/11/19 08:08	04/11/19 13:39	1
Uranium	ND		0.10	0.050	ug/L		04/11/19 08:08	04/11/19 13:39	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/16/19 10:36	04/17/19 07:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			04/12/19 08:47	1

Client Sample ID: PL-504-20190408

Lab Sample ID: 440-238310-4
Matrix: Water
Date Collected: 04/08/19 13:35
Date Received: 04/09/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			04/18/19 15:21	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 15:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/18/19 15:21	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 15:21	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 15:21	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/18/19 15:21	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 15:21	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 15:21	1
1,2,3-Trichloropropane	ND		1.0	0.25	ug/L			04/18/19 15:21	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 15:21	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 15:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/18/19 15:21	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/18/19 15:21	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 15:21	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 15:21	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 15:21	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 15:21	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 15:21	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 15:21	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 15:21	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/18/19 15:21	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 15:21	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 15:21	1
Benzene	ND		2.0	0.25	ug/L			04/18/19 15:21	1

Client Sample ID: PL-504-20190408

Lab Sample ID: 440-238310-4

Date Collected: 04/08/19 13:35
Matrix: Water
Date Received: 04/09/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		5.0	0.25	ug/L			04/18/19 15:21	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/18/19 15:21	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/18/19 15:21	1
Bromoform	ND		5.0	0.40	ug/L			04/18/19 15:21	1
Bromomethane	ND		5.0	0.25	ug/L			04/18/19 15:21	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/18/19 15:21	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/18/19 15:21	1
Chloroethane	ND		5.0	0.40	ug/L			04/18/19 15:21	1
Chloroform	ND		2.0	0.25	ug/L			04/18/19 15:21	1
Chloromethane	ND		2.5	0.25	ug/L			04/18/19 15:21	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 15:21	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 15:21	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/18/19 15:21	1
Dibromomethane	ND		1.0	0.25	ug/L			04/18/19 15:21	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/18/19 15:21	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/18/19 15:21	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/18/19 15:21	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/18/19 15:21	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/18/19 15:21	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/18/19 15:21	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/18/19 15:21	1
Naphthalene	ND		1.0	0.40	ug/L			04/18/19 15:21	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/18/19 15:21	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/18/19 15:21	1
o-Xylene	ND		2.0	0.25	ug/L			04/18/19 15:21	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/18/19 15:21	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 15:21	1
Styrene	ND		2.0	0.25	ug/L			04/18/19 15:21	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 15:21	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/18/19 15:21	1
Toluene	ND		2.0	0.25	ug/L			04/18/19 15:21	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 15:21	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 15:21	1
Trichloroethene	ND		2.0	0.25	ug/L			04/18/19 15:21	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/18/19 15:21	1
Vinyl chloride	ND		2.0	0.25	ug/L			04/18/19 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/18/19 15:21*	*1*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*04/18/19 15:21*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*04/18/19 15:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*04/18/19 15:21*	*1*

Client Sample ID: MC-113-20190408

Lab Sample ID: 440-238310-5

Date Collected: 04/08/19 10:34
Matrix: Water
Date Received: 04/09/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			04/18/19 15:48	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: MC-113-20190408

Lab Sample ID: 440-238310-5

Date Collected: 04/08/19 10:34
Matrix: Water
Date Received: 04/09/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 15:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/18/19 15:48	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 15:48	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 15:48	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/18/19 15:48	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 15:48	1
1,2,3-Trichlorobenzene	**1.1**	**J**	5.0	0.40	ug/L			04/18/19 15:48	1
1,2,3-Trichloropropane	ND		1.0	0.25	ug/L			04/18/19 15:48	1
1,2,4-Trichlorobenzene	**3.3**	**J**	5.0	0.40	ug/L			04/18/19 15:48	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 15:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/18/19 15:48	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/18/19 15:48	1
1,2-Dichlorobenzene	**2.0**		2.0	0.25	ug/L			04/18/19 15:48	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 15:48	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 15:48	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 15:48	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 15:48	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 15:48	1
1,4-Dichlorobenzene	**3.1**		2.0	0.25	ug/L			04/18/19 15:48	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/18/19 15:48	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 15:48	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 15:48	1
Benzene	ND		2.0	0.25	ug/L			04/18/19 15:48	1
Bromobenzene	ND		5.0	0.25	ug/L			04/18/19 15:48	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/18/19 15:48	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/18/19 15:48	1
Bromoform	ND		5.0	0.40	ug/L			04/18/19 15:48	1
Bromomethane	ND		5.0	0.25	ug/L			04/18/19 15:48	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/18/19 15:48	1
Chlorobenzene	**8.9**		2.0	0.25	ug/L			04/18/19 15:48	1
Chloroethane	ND		5.0	0.40	ug/L			04/18/19 15:48	1
Chloroform	ND		2.0	0.25	ug/L			04/18/19 15:48	1
Chloromethane	ND		2.5	0.25	ug/L			04/18/19 15:48	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 15:48	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 15:48	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/18/19 15:48	1
Dibromomethane	ND		1.0	0.25	ug/L			04/18/19 15:48	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/18/19 15:48	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/18/19 15:48	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/18/19 15:48	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/18/19 15:48	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/18/19 15:48	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/18/19 15:48	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/18/19 15:48	1
Naphthalene	ND		1.0	0.40	ug/L			04/18/19 15:48	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/18/19 15:48	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/18/19 15:48	1
o-Xylene	ND		2.0	0.25	ug/L			04/18/19 15:48	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/18/19 15:48	1

Client Sample ID: MC-113-20190408

Lab Sample ID: 440-238310-5

Date Collected: 04/08/19 10:34
Date Received: 04/09/19 12:57

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 15:48	1
Styrene	ND		2.0	0.25	ug/L			04/18/19 15:48	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 15:48	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/18/19 15:48	1
Toluene	ND		2.0	0.25	ug/L			04/18/19 15:48	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 15:48	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 15:48	1
Trichloroethene	ND		2.0	0.25	ug/L			04/18/19 15:48	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/18/19 15:48	1
Vinyl chloride	ND		2.0	0.25	ug/L			04/18/19 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/18/19 15:48*	*1*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*04/18/19 15:48*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*04/18/19 15:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*04/18/19 15:48*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.099	0.020	ug/L		04/10/19 10:43	04/10/19 23:17	1
2,4'-DDE	**0.035**	**J p**	0.099	0.020	ug/L		04/10/19 10:43	04/10/19 23:17	1
2,4'-DDT	ND		0.099	0.020	ug/L		04/10/19 10:43	04/10/19 23:17	1
4,4'-DDD	ND		0.099	0.0039	ug/L		04/10/19 10:43	04/10/19 23:17	1
4,4'-DDE	ND		0.099	0.0030	ug/L		04/10/19 10:43	04/10/19 23:17	1
4,4'-DDT	ND		0.099	0.0039	ug/L		04/10/19 10:43	04/10/19 23:17	1
Aldrin	ND		0.0030	0.0015	ug/L		04/10/19 10:43	04/10/19 23:17	1
alpha-BHC	**0.89**		0.0049	0.0025	ug/L		04/10/19 10:43	04/10/19 23:17	1
Chlordane	ND		0.099	0.079	ug/L		04/10/19 10:43	04/10/19 23:17	1
delta-BHC	**0.18**	**J**	0.20	0.0034	ug/L		04/10/19 10:43	04/10/19 23:17	1
Dieldrin	ND		0.0039	0.0020	ug/L		04/10/19 10:43	04/10/19 23:17	1
Endosulfan I	ND		0.099	0.0030	ug/L		04/10/19 10:43	04/10/19 23:17	1
Endosulfan II	ND		0.099	0.0020	ug/L		04/10/19 10:43	04/10/19 23:17	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/10/19 10:43	04/10/19 23:17	1
Endrin	ND		0.099	0.0020	ug/L		04/10/19 10:43	04/10/19 23:17	1
Endrin aldehyde	ND		0.099	0.0020	ug/L		04/10/19 10:43	04/10/19 23:17	1
Endrin ketone	ND		0.099	0.0069	ug/L		04/10/19 10:43	04/10/19 23:17	1
gamma-BHC (Lindane)	**0.015**	**J**	0.099	0.0030	ug/L		04/10/19 10:43	04/10/19 23:17	1
Heptachlor	ND		0.0099	0.0030	ug/L		04/10/19 10:43	04/10/19 23:17	1
Heptachlor epoxide	ND		0.0049	0.0025	ug/L		04/10/19 10:43	04/10/19 23:17	1
Methoxychlor	ND		0.099	0.0034	ug/L		04/10/19 10:43	04/10/19 23:17	1
Toxaphene	ND		3.0	0.25	ug/L		04/10/19 10:43	04/10/19 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*60*		*28 - 108*	*04/10/19 10:43*	*04/10/19 23:17*	*1*
Tetrachloro-m-xylene	*64*		*10 - 123*	*04/10/19 10:43*	*04/10/19 23:17*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	**3.5**		0.099	0.039	ug/L		04/10/19 10:43	04/11/19 14:56	10

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: MC-113-20190408

Lab Sample ID: 440-238310-5
Matrix: Water

Date Collected: 04/08/19 10:34
Date Received: 04/09/19 12:57

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	76		28 - 108	04/10/19 10:43	04/11/19 14:56	10
Tetrachloro-m-xylene	67		10 - 123	04/10/19 10:43	04/11/19 14:56	10

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**1400**		400	95	ug/L			04/16/19 20:07	100

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**100**		4.0	2.0	ug/L		04/11/19 08:08	04/11/19 14:43	20
Barium	**51**		4.0	2.0	ug/L		04/11/19 08:08	04/11/19 14:43	20
Cadmium	**1.1**	**J**	2.0	1.0	ug/L		04/11/19 08:08	04/11/19 14:43	20
Chromium	ND		10	5.0	ug/L		04/11/19 08:08	04/11/19 14:43	20
Lead	**1.3**	**J**	2.0	1.0	ug/L		04/11/19 08:08	04/11/19 14:43	20
Selenium	ND		12	6.0	ug/L		04/11/19 08:08	04/11/19 14:43	20
Silver	**45**		4.0	2.0	ug/L		04/11/19 08:08	04/11/19 14:43	20
Uranium	**23**		2.0	1.0	ug/L		04/11/19 08:08	04/11/19 14:43	20

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/16/19 10:36	04/17/19 07:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**17000**		200	100	mg/L			04/12/19 08:47	1

Client Sample ID: MC-114-20190408

Lab Sample ID: 440-238310-6
Matrix: Water

Date Collected: 04/08/19 11:45
Date Received: 04/09/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			04/18/19 09:19	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 09:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/18/19 09:19	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 09:19	1
1,1-Dichloroethane	**4.6**		2.0	0.25	ug/L			04/18/19 09:19	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/18/19 09:19	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 09:19	1
1,2,3-Trichlorobenzene	**0.68**	**J**	5.0	0.40	ug/L			04/18/19 09:19	1
1,2,3-Trichloropropane	ND		1.0	0.25	ug/L			04/18/19 09:19	1
1,2,4-Trichlorobenzene	**1.6**	**J**	5.0	0.40	ug/L			04/18/19 09:19	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 09:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/18/19 09:19	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/18/19 09:19	1
1,2-Dichlorobenzene	**16**		2.0	0.25	ug/L			04/18/19 09:19	1
1,2-Dichloroethane	**0.92**	**J**	2.0	0.25	ug/L			04/18/19 09:19	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 09:19	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 09:19	1
1,3-Dichlorobenzene	**1.1**	**J**	2.0	0.25	ug/L			04/18/19 09:19	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 09:19	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: MC-114-20190408

Date Collected: 04/08/19 11:45
Date Received: 04/09/19 12:57

Lab Sample ID: 440-238310-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	**23**		2.0	0.25	ug/L			04/18/19 09:19	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/18/19 09:19	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 09:19	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 09:19	1
Benzene	**2.3**		2.0	0.25	ug/L			04/18/19 09:19	1
Bromobenzene	ND		5.0	0.25	ug/L			04/18/19 09:19	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/18/19 09:19	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/18/19 09:19	1
Bromoform	ND		5.0	0.40	ug/L			04/18/19 09:19	1
Bromomethane	ND		5.0	0.25	ug/L			04/18/19 09:19	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/18/19 09:19	1
Chloroethane	ND		5.0	0.40	ug/L			04/18/19 09:19	1
Chloroform	**0.27**	**J**	2.0	0.25	ug/L			04/18/19 09:19	1
Chloromethane	ND		2.5	0.25	ug/L			04/18/19 09:19	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 09:19	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 09:19	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/18/19 09:19	1
Dibromomethane	ND		1.0	0.25	ug/L			04/18/19 09:19	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/18/19 09:19	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/18/19 09:19	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/18/19 09:19	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/18/19 09:19	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/18/19 09:19	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/18/19 09:19	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/18/19 09:19	1
Naphthalene	ND		1.0	0.40	ug/L			04/18/19 09:19	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/18/19 09:19	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/18/19 09:19	1
o-Xylene	ND		2.0	0.25	ug/L			04/18/19 09:19	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/18/19 09:19	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 09:19	1
Styrene	ND		2.0	0.25	ug/L			04/18/19 09:19	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 09:19	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/18/19 09:19	1
Toluene	ND		2.0	0.25	ug/L			04/18/19 09:19	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 09:19	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 09:19	1
Trichloroethene	**2.5**		2.0	0.25	ug/L			04/18/19 09:19	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/18/19 09:19	1
Vinyl chloride	ND		2.0	0.25	ug/L			04/18/19 09:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*04/18/19 09:19*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*04/18/19 09:19*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*04/18/19 09:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*04/18/19 09:19*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**230**		10	1.3	ug/L			04/18/19 10:53	5

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: MC-114-20190408

Lab Sample ID: 440-238310-6

Date Collected: 04/08/19 11:45
Matrix: Water
Date Received: 04/09/19 12:57

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		04/18/19 10:53	5
Dibromofluoromethane (Surr)	102		76 - 132		04/18/19 10:53	5
Toluene-d8 (Surr)	105		80 - 128		04/18/19 10:53	5
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		04/18/19 10:53	5

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.095	0.019	ug/L		04/10/19 10:43	04/10/19 23:44	1
2,4'-DDE	**0.023**	**J p**	0.095	0.019	ug/L		04/10/19 10:43	04/10/19 23:44	1
2,4'-DDT	ND		0.095	0.019	ug/L		04/10/19 10:43	04/10/19 23:44	1
4,4'-DDD	ND		0.095	0.0038	ug/L		04/10/19 10:43	04/10/19 23:44	1
4,4'-DDE	ND		0.095	0.0028	ug/L		04/10/19 10:43	04/10/19 23:44	1
4,4'-DDT	ND		0.095	0.0038	ug/L		04/10/19 10:43	04/10/19 23:44	1
Aldrin	ND		0.0028	0.0014	ug/L		04/10/19 10:43	04/10/19 23:44	1
alpha-BHC	**0.68**		0.0047	0.0024	ug/L		04/10/19 10:43	04/10/19 23:44	1
Chlordane	ND		0.095	0.076	ug/L		04/10/19 10:43	04/10/19 23:44	1
delta-BHC	**0.79**		0.19	0.0033	ug/L		04/10/19 10:43	04/10/19 23:44	1
Dieldrin	ND		0.0038	0.0019	ug/L		04/10/19 10:43	04/10/19 23:44	1
Endosulfan I	ND		0.095	0.0028	ug/L		04/10/19 10:43	04/10/19 23:44	1
Endosulfan II	ND		0.095	0.0019	ug/L		04/10/19 10:43	04/10/19 23:44	1
Endosulfan sulfate	ND		0.19	0.0028	ug/L		04/10/19 10:43	04/10/19 23:44	1
Endrin	ND		0.095	0.0019	ug/L		04/10/19 10:43	04/10/19 23:44	1
Endrin aldehyde	ND		0.095	0.0019	ug/L		04/10/19 10:43	04/10/19 23:44	1
Endrin ketone	ND		0.095	0.0066	ug/L		04/10/19 10:43	04/10/19 23:44	1
gamma-BHC (Lindane)	**0.0055**	**J p**	0.095	0.0028	ug/L		04/10/19 10:43	04/10/19 23:44	1
Heptachlor	ND		0.0095	0.0028	ug/L		04/10/19 10:43	04/10/19 23:44	1
Heptachlor epoxide	ND		0.0047	0.0024	ug/L		04/10/19 10:43	04/10/19 23:44	1
Methoxychlor	ND		0.095	0.0033	ug/L		04/10/19 10:43	04/10/19 23:44	1
Toxaphene	ND		2.8	0.24	ug/L		04/10/19 10:43	04/10/19 23:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	50		28 - 108	04/10/19 10:43	04/10/19 23:44	1
Tetrachloro-m-xylene	46		10 - 123	04/10/19 10:43	04/10/19 23:44	1

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	**2.0**		0.047	0.019	ug/L		04/10/19 10:43	04/11/19 15:22	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	63		28 - 108	04/10/19 10:43	04/11/19 15:22	5
Tetrachloro-m-xylene	63		10 - 123	04/10/19 10:43	04/11/19 15:22	5

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**24**		20	4.8	ug/L			04/18/19 11:27	5

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**170**		4.0	2.0	ug/L		04/11/19 08:08	04/11/19 14:45	20
Barium	**60**		4.0	2.0	ug/L		04/11/19 08:08	04/11/19 14:45	20
Cadmium	ND		2.0	1.0	ug/L		04/11/19 08:08	04/11/19 14:45	20

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: MC-114-20190408

Lab Sample ID: 440-238310-6
Matrix: Water

Date Collected: 04/08/19 11:45
Date Received: 04/09/19 12:57

Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	13		10	5.0	ug/L		04/11/19 08:08	04/11/19 14:45	20
Lead	31		2.0	1.0	ug/L		04/11/19 08:08	04/11/19 14:45	20
Selenium	ND		12	6.0	ug/L		04/11/19 08:08	04/11/19 14:45	20
Silver	13		4.0	2.0	ug/L		04/11/19 08:08	04/11/19 14:45	20
Uranium	39		2.0	1.0	ug/L		04/11/19 08:08	04/11/19 14:45	20

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00029		0.00020	0.00010	mg/L		04/16/19 10:36	04/17/19 07:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	16000		200	100	mg/L			04/12/19 08:47	1

Client Sample ID: MC-53-20190408

Lab Sample ID: 440-238310-7
Matrix: Water

Date Collected: 04/08/19 14:00
Date Received: 04/09/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			04/18/19 16:15	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 16:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/18/19 16:15	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 16:15	1
1,1-Dichloroethane	1.1	J	2.0	0.25	ug/L			04/18/19 16:15	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/18/19 16:15	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 16:15	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 16:15	1
1,2,3-Trichloropropane	ND		1.0	0.25	ug/L			04/18/19 16:15	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 16:15	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 16:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/18/19 16:15	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/18/19 16:15	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 16:15	1
1,2-Dichloroethane	0.35	J	2.0	0.25	ug/L			04/18/19 16:15	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 16:15	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 16:15	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 16:15	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 16:15	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 16:15	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/18/19 16:15	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 16:15	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 16:15	1
Benzene	ND		2.0	0.25	ug/L			04/18/19 16:15	1
Bromobenzene	ND		5.0	0.25	ug/L			04/18/19 16:15	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/18/19 16:15	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/18/19 16:15	1
Bromoform	ND		5.0	0.40	ug/L			04/18/19 16:15	1
Bromomethane	ND		5.0	0.25	ug/L			04/18/19 16:15	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/18/19 16:15	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: MC-53-20190408

Lab Sample ID: 440-238310-7

Date Collected: 04/08/19 14:00
Matrix: Water
Date Received: 04/09/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		2.0	0.25	ug/L			04/18/19 16:15	1
Chloroethane	ND		5.0	0.40	ug/L			04/18/19 16:15	1
Chloroform	**0.82**	**J**	2.0	0.25	ug/L			04/18/19 16:15	1
Chloromethane	ND		2.5	0.25	ug/L			04/18/19 16:15	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 16:15	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 16:15	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/18/19 16:15	1
Dibromomethane	ND		1.0	0.25	ug/L			04/18/19 16:15	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/18/19 16:15	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/18/19 16:15	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/18/19 16:15	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/18/19 16:15	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/18/19 16:15	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/18/19 16:15	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/18/19 16:15	1
Naphthalene	ND		1.0	0.40	ug/L			04/18/19 16:15	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/18/19 16:15	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/18/19 16:15	1
o-Xylene	ND		2.0	0.25	ug/L			04/18/19 16:15	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/18/19 16:15	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 16:15	1
Styrene	ND		2.0	0.25	ug/L			04/18/19 16:15	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 16:15	1
Tetrachloroethene	**1.7**	**J**	2.0	0.25	ug/L			04/18/19 16:15	1
Toluene	ND		2.0	0.25	ug/L			04/18/19 16:15	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 16:15	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 16:15	1
Trichloroethene	ND		2.0	0.25	ug/L			04/18/19 16:15	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/18/19 16:15	1
Vinyl chloride	ND		2.0	0.25	ug/L			04/18/19 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*04/18/19 16:15*	*1*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*04/18/19 16:15*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*04/18/19 16:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/18/19 16:15*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/10/19 10:43	04/11/19 00:11	1
2,4'-DDE	ND		0.10	0.020	ug/L		04/10/19 10:43	04/11/19 00:11	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/10/19 10:43	04/11/19 00:11	1
4,4'-DDD	ND		0.10	0.0041	ug/L		04/10/19 10:43	04/11/19 00:11	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/10/19 10:43	04/11/19 00:11	1
4,4'-DDT	ND		0.10	0.0041	ug/L		04/10/19 10:43	04/11/19 00:11	1
Aldrin	ND		0.0030	0.0015	ug/L		04/10/19 10:43	04/11/19 00:11	1
alpha-BHC	**0.24**		0.0051	0.0025	ug/L		04/10/19 10:43	04/11/19 00:11	1
beta-BHC	**0.74**		0.010	0.0041	ug/L		04/10/19 10:43	04/11/19 00:11	1
Chlordane	ND		0.10	0.081	ug/L		04/10/19 10:43	04/11/19 00:11	1
delta-BHC	**0.11**	**J**	0.20	0.0036	ug/L		04/10/19 10:43	04/11/19 00:11	1

Client Sample ID: MC-53-20190408

Lab Sample ID: 440-238310-7

Date Collected: 04/08/19 14:00
Matrix: Water
Date Received: 04/09/19 12:57

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	ND		0.0041	0.0020	ug/L		04/10/19 10:43	04/11/19 00:11	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/10/19 10:43	04/11/19 00:11	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/10/19 10:43	04/11/19 00:11	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/10/19 10:43	04/11/19 00:11	1
Endrin	ND		0.10	0.0020	ug/L		04/10/19 10:43	04/11/19 00:11	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/10/19 10:43	04/11/19 00:11	1
Endrin ketone	ND		0.10	0.0071	ug/L		04/10/19 10:43	04/11/19 00:11	1
gamma-BHC (Lindane)	**0.0071**	**J**	0.10	0.0030	ug/L		04/10/19 10:43	04/11/19 00:11	1
Heptachlor	ND		0.010	0.0030	ug/L		04/10/19 10:43	04/11/19 00:11	1
Heptachlor epoxide	ND		0.0051	0.0025	ug/L		04/10/19 10:43	04/11/19 00:11	1
Methoxychlor	ND		0.10	0.0036	ug/L		04/10/19 10:43	04/11/19 00:11	1
Toxaphene	ND		3.0	0.25	ug/L		04/10/19 10:43	04/11/19 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*28 - 108*	*04/10/19 10:43*	*04/11/19 00:11*	*1*
Tetrachloro-m-xylene	*50*		*10 - 123*	*04/10/19 10:43*	*04/11/19 00:11*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**2100**		2000	480	ug/L			04/16/19 20:43	500

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**110**		4.0	2.0	ug/L		04/11/19 08:08	04/11/19 14:47	20
Barium	**92**		4.0	2.0	ug/L		04/11/19 08:08	04/11/19 14:47	20
Cadmium	ND		2.0	1.0	ug/L		04/11/19 08:08	04/11/19 14:47	20
Chromium	**10**		10	5.0	ug/L		04/11/19 08:08	04/11/19 14:47	20
Lead	**1.6**	**J**	2.0	1.0	ug/L		04/11/19 08:08	04/11/19 14:47	20
Selenium	ND		12	6.0	ug/L		04/11/19 08:08	04/11/19 14:47	20
Silver	**4.4**		4.0	2.0	ug/L		04/11/19 08:08	04/11/19 14:47	20
Uranium	**52**		2.0	1.0	ug/L		04/11/19 08:08	04/11/19 14:47	20

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/16/19 10:36	04/17/19 07:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**15000**		200	100	mg/L			04/12/19 08:47	1

Client Sample ID: MC-47-20190408

Lab Sample ID: 440-238310-8

Date Collected: 04/08/19 10:45
Matrix: Water
Date Received: 04/09/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			04/18/19 16:42	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 16:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/18/19 16:42	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 16:42	1
1,1-Dichloroethane	**0.26**	**J**	2.0	0.25	ug/L			04/18/19 16:42	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: MC-47-20190408

Lab Sample ID: 440-238310-8

Date Collected: 04/08/19 10:45
Matrix: Water
Date Received: 04/09/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/18/19 16:42	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 16:42	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 16:42	1
1,2,3-Trichloropropane	ND		1.0	0.25	ug/L			04/18/19 16:42	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 16:42	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 16:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/18/19 16:42	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/18/19 16:42	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 16:42	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 16:42	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 16:42	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 16:42	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 16:42	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 16:42	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 16:42	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/18/19 16:42	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 16:42	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 16:42	1
Benzene	ND		2.0	0.25	ug/L			04/18/19 16:42	1
Bromobenzene	ND		5.0	0.25	ug/L			04/18/19 16:42	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/18/19 16:42	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/18/19 16:42	1
Bromoform	ND		5.0	0.40	ug/L			04/18/19 16:42	1
Bromomethane	ND		5.0	0.25	ug/L			04/18/19 16:42	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/18/19 16:42	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/18/19 16:42	1
Chloroethane	ND		5.0	0.40	ug/L			04/18/19 16:42	1
Chloroform	**9.7**		2.0	0.25	ug/L			04/18/19 16:42	1
Chloromethane	ND		2.5	0.25	ug/L			04/18/19 16:42	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 16:42	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 16:42	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/18/19 16:42	1
Dibromomethane	ND		1.0	0.25	ug/L			04/18/19 16:42	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/18/19 16:42	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/18/19 16:42	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/18/19 16:42	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/18/19 16:42	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/18/19 16:42	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/18/19 16:42	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/18/19 16:42	1
Naphthalene	ND		1.0	0.40	ug/L			04/18/19 16:42	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/18/19 16:42	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/18/19 16:42	1
o-Xylene	ND		2.0	0.25	ug/L			04/18/19 16:42	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/18/19 16:42	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 16:42	1
Styrene	ND		2.0	0.25	ug/L			04/18/19 16:42	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 16:42	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/18/19 16:42	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: MC-47-20190408

Date Collected: 04/08/19 10:45
Date Received: 04/09/19 12:57

Lab Sample ID: 440-238310-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		2.0	0.25	ug/L			04/18/19 16:42	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 16:42	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 16:42	1
Trichloroethene	**0.28**	**J**	2.0	0.25	ug/L			04/18/19 16:42	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/18/19 16:42	1
Vinyl chloride	ND		2.0	0.25	ug/L			04/18/19 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*04/18/19 16:42*	*1*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*04/18/19 16:42*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*04/18/19 16:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/18/19 16:42*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/10/19 10:43	04/11/19 00:37	1
2,4'-DDE	ND		0.10	0.020	ug/L		04/10/19 10:43	04/11/19 00:37	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/10/19 10:43	04/11/19 00:37	1
4,4'-DDD	ND		0.10	0.0040	ug/L		04/10/19 10:43	04/11/19 00:37	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/10/19 10:43	04/11/19 00:37	1
4,4'-DDT	ND		0.10	0.0040	ug/L		04/10/19 10:43	04/11/19 00:37	1
Aldrin	ND		0.0030	0.0015	ug/L		04/10/19 10:43	04/11/19 00:37	1
alpha-BHC	**0.059**		0.0050	0.0025	ug/L		04/10/19 10:43	04/11/19 00:37	1
beta-BHC	**0.79**		0.010	0.0040	ug/L		04/10/19 10:43	04/11/19 00:37	1
Chlordane	ND		0.10	0.080	ug/L		04/10/19 10:43	04/11/19 00:37	1
delta-BHC	**0.32**		0.20	0.0035	ug/L		04/10/19 10:43	04/11/19 00:37	1
Dieldrin	ND		0.0040	0.0020	ug/L		04/10/19 10:43	04/11/19 00:37	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/10/19 10:43	04/11/19 00:37	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/10/19 10:43	04/11/19 00:37	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/10/19 10:43	04/11/19 00:37	1
Endrin	ND		0.10	0.0020	ug/L		04/10/19 10:43	04/11/19 00:37	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/10/19 10:43	04/11/19 00:37	1
Endrin ketone	ND		0.10	0.0070	ug/L		04/10/19 10:43	04/11/19 00:37	1
gamma-BHC (Lindane)	**0.0035**	**J**	0.10	0.0030	ug/L		04/10/19 10:43	04/11/19 00:37	1
Heptachlor	ND		0.010	0.0030	ug/L		04/10/19 10:43	04/11/19 00:37	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/10/19 10:43	04/11/19 00:37	1
Methoxychlor	ND		0.10	0.0035	ug/L		04/10/19 10:43	04/11/19 00:37	1
Toxaphene	ND		3.0	0.25	ug/L		04/10/19 10:43	04/11/19 00:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*28 - 108*	*04/10/19 10:43*	*04/11/19 00:37*	*1*
Tetrachloro-m-xylene	*52*		*10 - 123*	*04/10/19 10:43*	*04/11/19 00:37*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**21000**		4000	950	ug/L			04/17/19 12:26	1000

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**80**		1.0	0.50	ug/L		04/11/19 08:08	04/11/19 14:50	5
Barium	**31**		1.0	0.50	ug/L		04/11/19 08:08	04/11/19 14:50	5

Client Sample ID: MC-47-20190408

Lab Sample ID: 440-238310-8
Matrix: Water
Date Collected: 04/08/19 10:45
Date Received: 04/09/19 12:57

Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.50	0.25	ug/L		04/11/19 08:08	04/11/19 14:50	5
Chromium	**4.5**		2.5	1.3	ug/L		04/11/19 08:08	04/11/19 14:50	5
Lead	ND		0.50	0.25	ug/L		04/11/19 08:08	04/11/19 14:50	5
Selenium	**5.5**		3.0	1.5	ug/L		04/11/19 08:08	04/11/19 14:50	5
Silver	ND		1.0	0.50	ug/L		04/11/19 08:08	04/11/19 14:50	5
Uranium	**14**		0.50	0.25	ug/L		04/11/19 08:08	04/11/19 14:50	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00040**		0.00020	0.00010	mg/L		04/16/19 10:36	04/17/19 07:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**3400**		100	50	mg/L			04/12/19 08:47	1

Client Sample ID: MC-48-20190408

Lab Sample ID: 440-238310-9
Matrix: Water
Date Collected: 04/08/19 12:02
Date Received: 04/09/19 12:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			04/18/19 17:10	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 17:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/18/19 17:10	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 17:10	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 17:10	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/18/19 17:10	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 17:10	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 17:10	1
1,2,3-Trichloropropane	ND		1.0	0.25	ug/L			04/18/19 17:10	1
1,2,4-Trichlorobenzene	**0.72**	**J**	5.0	0.40	ug/L			04/18/19 17:10	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 17:10	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/18/19 17:10	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/18/19 17:10	1
1,2-Dichlorobenzene	**0.54**	**J**	2.0	0.25	ug/L			04/18/19 17:10	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 17:10	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 17:10	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 17:10	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 17:10	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 17:10	1
1,4-Dichlorobenzene	**1.1**	**J**	2.0	0.25	ug/L			04/18/19 17:10	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/18/19 17:10	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 17:10	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 17:10	1
Benzene	ND		2.0	0.25	ug/L			04/18/19 17:10	1
Bromobenzene	ND		5.0	0.25	ug/L			04/18/19 17:10	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/18/19 17:10	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/18/19 17:10	1
Bromoform	ND		5.0	0.40	ug/L			04/18/19 17:10	1
Bromomethane	ND		5.0	0.25	ug/L			04/18/19 17:10	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: MC-48-20190408

Lab Sample ID: 440-238310-9

Date Collected: 04/08/19 12:02
Date Received: 04/09/19 12:57

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/18/19 17:10	1
Chlorobenzene	**4.5**		2.0	0.25	ug/L			04/18/19 17:10	1
Chloroethane	ND		5.0	0.40	ug/L			04/18/19 17:10	1
Chloroform	ND		2.0	0.25	ug/L			04/18/19 17:10	1
Chloromethane	ND		2.5	0.25	ug/L			04/18/19 17:10	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 17:10	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 17:10	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/18/19 17:10	1
Dibromomethane	ND		1.0	0.25	ug/L			04/18/19 17:10	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/18/19 17:10	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/18/19 17:10	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/18/19 17:10	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/18/19 17:10	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/18/19 17:10	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/18/19 17:10	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/18/19 17:10	1
Naphthalene	ND		1.0	0.40	ug/L			04/18/19 17:10	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/18/19 17:10	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/18/19 17:10	1
o-Xylene	ND		2.0	0.25	ug/L			04/18/19 17:10	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/18/19 17:10	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 17:10	1
Styrene	ND		2.0	0.25	ug/L			04/18/19 17:10	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 17:10	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/18/19 17:10	1
Toluene	ND		2.0	0.25	ug/L			04/18/19 17:10	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 17:10	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 17:10	1
Trichloroethene	ND		2.0	0.25	ug/L			04/18/19 17:10	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/18/19 17:10	1
Vinyl chloride	ND		2.0	0.25	ug/L			04/18/19 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*04/18/19 17:10*	*1*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*04/18/19 17:10*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*04/18/19 17:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*04/18/19 17:10*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.095	0.019	ug/L		04/10/19 10:43	04/11/19 01:04	1
2,4'-DDE	ND		0.095	0.019	ug/L		04/10/19 10:43	04/11/19 01:04	1
2,4'-DDT	ND		0.095	0.019	ug/L		04/10/19 10:43	04/11/19 01:04	1
4,4'-DDD	ND		0.095	0.0038	ug/L		04/10/19 10:43	04/11/19 01:04	1
4,4'-DDE	ND		0.095	0.0028	ug/L		04/10/19 10:43	04/11/19 01:04	1
4,4'-DDT	ND		0.095	0.0038	ug/L		04/10/19 10:43	04/11/19 01:04	1
Aldrin	ND		0.0028	0.0014	ug/L		04/10/19 10:43	04/11/19 01:04	1
alpha-BHC	**0.56**		0.0047	0.0024	ug/L		04/10/19 10:43	04/11/19 01:04	1
Chlordane	ND		0.095	0.076	ug/L		04/10/19 10:43	04/11/19 01:04	1
delta-BHC	**0.13**	**J p**	0.19	0.0033	ug/L		04/10/19 10:43	04/11/19 01:04	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: MC-48-20190408

Date Collected: 04/08/19 12:02
Date Received: 04/09/19 12:57

Lab Sample ID: 440-238310-9

Matrix: Water

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	ND		0.0038	0.0019	ug/L		04/10/19 10:43	04/11/19 01:04	1
Endosulfan I	ND		0.095	0.0028	ug/L		04/10/19 10:43	04/11/19 01:04	1
Endosulfan II	ND		0.095	0.0019	ug/L		04/10/19 10:43	04/11/19 01:04	1
Endosulfan sulfate	ND		0.19	0.0028	ug/L		04/10/19 10:43	04/11/19 01:04	1
Endrin	ND		0.095	0.0019	ug/L		04/10/19 10:43	04/11/19 01:04	1
Endrin aldehyde	ND		0.095	0.0019	ug/L		04/10/19 10:43	04/11/19 01:04	1
Endrin ketone	ND		0.095	0.0066	ug/L		04/10/19 10:43	04/11/19 01:04	1
gamma-BHC (Lindane)	**0.013**	**J p**	0.095	0.0028	ug/L		04/10/19 10:43	04/11/19 01:04	1
Heptachlor	ND		0.0095	0.0028	ug/L		04/10/19 10:43	04/11/19 01:04	1
Heptachlor epoxide	ND		0.0047	0.0024	ug/L		04/10/19 10:43	04/11/19 01:04	1
Methoxychlor	ND		0.095	0.0033	ug/L		04/10/19 10:43	04/11/19 01:04	1
Toxaphene	ND		2.8	0.24	ug/L		04/10/19 10:43	04/11/19 01:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*28 - 108*	*04/10/19 10:43*	*04/11/19 01:04*	*1*
Tetrachloro-m-xylene	*61*		*10 - 123*	*04/10/19 10:43*	*04/11/19 01:04*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	**1.9**		0.047	0.019	ug/L		04/10/19 10:43	04/11/19 15:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*28 - 108*	*04/10/19 10:43*	*04/11/19 15:49*	*5*
Tetrachloro-m-xylene	*72*		*10 - 123*	*04/10/19 10:43*	*04/11/19 15:49*	*5*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**110**		40	9.5	ug/L			04/18/19 11:07	10

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**140**		4.0	2.0	ug/L		04/11/19 08:08	04/11/19 14:52	20
Barium	**69**		4.0	2.0	ug/L		04/11/19 08:08	04/11/19 14:52	20
Cadmium	**1.1**	**J**	2.0	1.0	ug/L		04/11/19 08:08	04/11/19 14:52	20
Chromium	**7.2**	**J**	10	5.0	ug/L		04/11/19 08:08	04/11/19 14:52	20
Lead	ND		2.0	1.0	ug/L		04/11/19 08:08	04/11/19 14:52	20
Selenium	ND		12	6.0	ug/L		04/11/19 08:08	04/11/19 14:52	20
Silver	**2.7**	**J**	4.0	2.0	ug/L		04/11/19 08:08	04/11/19 14:52	20
Uranium	**28**		2.0	1.0	ug/L		04/11/19 08:08	04/11/19 14:52	20

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/16/19 10:36	04/17/19 07:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**17000**		200	100	mg/L			04/12/19 08:47	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: MC-49-20190408

Date Collected: 04/08/19 13:35
Date Received: 04/09/19 12:57

Lab Sample ID: 440-238310-10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			04/19/19 01:39	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/19/19 01:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/19/19 01:39	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/19/19 01:39	1
1,1-Dichloroethane	**1.3**	**J**	2.0	0.25	ug/L			04/19/19 01:39	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/19/19 01:39	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 01:39	1
1,2,3-Trichlorobenzene	**0.61**	**J**	5.0	0.40	ug/L			04/19/19 01:39	1
1,2,3-Trichloropropane	ND		1.0	0.25	ug/L			04/19/19 01:39	1
1,2,4-Trichlorobenzene	**4.0**	**J**	5.0	0.40	ug/L			04/19/19 01:39	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/19/19 01:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/19/19 01:39	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/19/19 01:39	1
1,2-Dichlorobenzene	**15**		2.0	0.25	ug/L			04/19/19 01:39	1
1,2-Dichloroethane	**0.39**	**J**	2.0	0.25	ug/L			04/19/19 01:39	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/19/19 01:39	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/19/19 01:39	1
1,3-Dichlorobenzene	**0.73**	**J**	2.0	0.25	ug/L			04/19/19 01:39	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/19/19 01:39	1
1,4-Dichlorobenzene	**23**		2.0	0.25	ug/L			04/19/19 01:39	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/19/19 01:39	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/19/19 01:39	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/19/19 01:39	1
Benzene	ND		2.0	0.25	ug/L			04/19/19 01:39	1
Bromobenzene	ND		5.0	0.25	ug/L			04/19/19 01:39	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/19/19 01:39	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/19/19 01:39	1
Bromoform	ND		5.0	0.40	ug/L			04/19/19 01:39	1
Bromomethane	ND		5.0	0.25	ug/L			04/19/19 01:39	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/19/19 01:39	1
Chloroethane	ND		5.0	0.40	ug/L			04/19/19 01:39	1
Chloroform	ND		2.0	0.25	ug/L			04/19/19 01:39	1
Chloromethane	ND		2.5	0.25	ug/L			04/19/19 01:39	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/19/19 01:39	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 01:39	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/19/19 01:39	1
Dibromomethane	ND		1.0	0.25	ug/L			04/19/19 01:39	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/19/19 01:39	1
Dimethyl disulfide	**1.3**	**J**	2.0	1.0	ug/L			04/19/19 01:39	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/19/19 01:39	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/19/19 01:39	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/19/19 01:39	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/19/19 01:39	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/19/19 01:39	1
Naphthalene	ND		1.0	0.40	ug/L			04/19/19 01:39	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/19/19 01:39	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/19/19 01:39	1
o-Xylene	ND		2.0	0.25	ug/L			04/19/19 01:39	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/19/19 01:39	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: MC-49-20190408

Date Collected: 04/08/19 13:35
Date Received: 04/09/19 12:57

Lab Sample ID: 440-238310-10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/19/19 01:39	1
Styrene	ND		2.0	0.25	ug/L			04/19/19 01:39	1
tert-Butylbenzene	**0.27**	**J**	5.0	0.25	ug/L			04/19/19 01:39	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/19/19 01:39	1
Toluene	ND		2.0	0.25	ug/L			04/19/19 01:39	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/19/19 01:39	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 01:39	1
Trichloroethene	**0.63**	**J**	2.0	0.25	ug/L			04/19/19 01:39	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/19/19 01:39	1
Vinyl chloride	ND		2.0	0.25	ug/L			04/19/19 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*04/19/19 01:39*	*1*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*04/19/19 01:39*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*04/19/19 01:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*04/19/19 01:39*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**160**		10	1.3	ug/L			04/19/19 02:04	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*04/19/19 02:04*	*5*
Dibromofluoromethane (Surr)	*97*		*76 - 132*		*04/19/19 02:04*	*5*
Toluene-d8 (Surr)	*100*		*80 - 128*		*04/19/19 02:04*	*5*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*04/19/19 02:04*	*5*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.096	0.019	ug/L		04/10/19 10:43	04/11/19 01:31	1
2,4'-DDE	ND		0.096	0.019	ug/L		04/10/19 10:43	04/11/19 01:31	1
2,4'-DDT	ND		0.096	0.019	ug/L		04/10/19 10:43	04/11/19 01:31	1
4,4'-DDD	ND		0.096	0.0038	ug/L		04/10/19 10:43	04/11/19 01:31	1
4,4'-DDE	ND		0.096	0.0029	ug/L		04/10/19 10:43	04/11/19 01:31	1
4,4'-DDT	ND		0.096	0.0038	ug/L		04/10/19 10:43	04/11/19 01:31	1
Aldrin	ND		0.0029	0.0014	ug/L		04/10/19 10:43	04/11/19 01:31	1
Chlordane	ND		0.096	0.077	ug/L		04/10/19 10:43	04/11/19 01:31	1
delta-BHC	**0.41**		0.19	0.0033	ug/L		04/10/19 10:43	04/11/19 01:31	1
Dieldrin	ND		0.0038	0.0019	ug/L		04/10/19 10:43	04/11/19 01:31	1
Endosulfan I	ND		0.096	0.0029	ug/L		04/10/19 10:43	04/11/19 01:31	1
Endosulfan II	ND		0.096	0.0019	ug/L		04/10/19 10:43	04/11/19 01:31	1
Endosulfan sulfate	ND		0.19	0.0029	ug/L		04/10/19 10:43	04/11/19 01:31	1
Endrin	ND		0.096	0.0019	ug/L		04/10/19 10:43	04/11/19 01:31	1
Endrin aldehyde	ND		0.096	0.0019	ug/L		04/10/19 10:43	04/11/19 01:31	1
Endrin ketone	ND		0.096	0.0067	ug/L		04/10/19 10:43	04/11/19 01:31	1
gamma-BHC (Lindane)	ND		0.096	0.0029	ug/L		04/10/19 10:43	04/11/19 01:31	1
Heptachlor	ND		0.0096	0.0029	ug/L		04/10/19 10:43	04/11/19 01:31	1
Heptachlor epoxide	ND		0.0048	0.0024	ug/L		04/10/19 10:43	04/11/19 01:31	1
Methoxychlor	ND		0.096	0.0033	ug/L		04/10/19 10:43	04/11/19 01:31	1
Toxaphene	ND		2.9	0.24	ug/L		04/10/19 10:43	04/11/19 01:31	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: MC-49-20190408

Date Collected: 04/08/19 13:35
Date Received: 04/09/19 12:57

Lab Sample ID: 440-238310-10

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*28 - 108*	*04/10/19 10:43*	*04/11/19 01:31*	*1*
Tetrachloro-m-xylene	*47*		*10 - 123*	*04/10/19 10:43*	*04/11/19 01:31*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	**1.9**		0.024	0.012	ug/L		04/10/19 10:43	04/11/19 16:16	5
beta-BHC	**2.2**		0.048	0.019	ug/L		04/10/19 10:43	04/11/19 16:16	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*28 - 108*	*04/10/19 10:43*	*04/11/19 16:16*	*5*
Tetrachloro-m-xylene	*58*		*10 - 123*	*04/10/19 10:43*	*04/11/19 16:16*	*5*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**1600**		400	95	ug/L			04/16/19 20:25	100

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**150**		4.0	2.0	ug/L		04/11/19 08:08	04/11/19 14:55	20
Barium	**53**		4.0	2.0	ug/L		04/11/19 08:08	04/11/19 14:55	20
Cadmium	ND		2.0	1.0	ug/L		04/11/19 08:08	04/11/19 14:55	20
Chromium	ND		10	5.0	ug/L		04/11/19 08:08	04/11/19 14:55	20
Lead	**1.2**	**J**	2.0	1.0	ug/L		04/11/19 08:08	04/11/19 14:55	20
Selenium	ND		12	6.0	ug/L		04/11/19 08:08	04/11/19 14:55	20
Silver	**2.3**	**J**	4.0	2.0	ug/L		04/11/19 08:08	04/11/19 14:55	20
Uranium	**22**		2.0	1.0	ug/L		04/11/19 08:08	04/11/19 14:55	20

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/16/19 10:36	04/17/19 07:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**17000**		200	100	mg/L			04/12/19 08:47	1

Surrogate Summary

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB (80-120)	DBFM (76-132)	TOL (80-128)	DCA (70-130)
440-238127-A-13 MS	Matrix Spike	104	96	99	96
440-238127-A-13 MSD	Matrix Spike Duplicate	102	96	100	96
440-238310-1	TB-20190408	96	103	107	95
440-238310-1 - RA	TB-20190408	107	101	102	100
440-238310-2	PL-502-20190408	92	105	107	97
440-238310-3	PL-503-20190408	95	105	106	97
440-238310-4	PL-504-20190408	95	104	107	97
440-238310-5	MC-113-20190408	95	107	108	101
440-238310-6 - DL	MC-114-20190408	95	102	105	98
440-238310-6	MC-114-20190408	94	102	105	97
440-238310-6 MS	MC-114-20190408	94	104	104	98
440-238310-6 MSD	MC-114-20190408	97	103	102	97
440-238310-7	MC-53-20190408	93	106	107	99
440-238310-8	MC-47-20190408	94	108	107	99
440-238310-9	MC-48-20190408	94	106	107	100
440-238310-10	MC-49-20190408	101	99	100	101
440-238310-10 - DL	MC-49-20190408	104	97	100	100
LCS 440-541078/5	Lab Control Sample	96	102	102	95
LCS 440-541250/6	Lab Control Sample	105	96	100	97
MB 440-541078/4	Method Blank	95	107	108	98
MB 440-541250/5	Method Blank	105	96	102	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCB2 (28-108)	TCX2 (10-123)
440-238310-2	PL-502-20190408	68	52
440-238310-3	PL-503-20190408	69	55
440-238310-5	MC-113-20190408	60	64
440-238310-5 - DL	MC-113-20190408	76	67
440-238310-6	MC-114-20190408	50	46
440-238310-6 - DL	MC-114-20190408	63	63
440-238310-7	MC-53-20190408	58	50
440-238310-8	MC-47-20190408	67	52
440-238310-9	MC-48-20190408	67	61
440-238310-9 - DL	MC-48-20190408	75	72
440-238310-10	MC-49-20190408	64	47
440-238310-10 - DL	MC-49-20190408	72	58
LCS 440-539449/2-A	Lab Control Sample	70	59
LCSD 440-539449/3-A	Lab Control Sample Dup	70	58
MB 440-539449/1-A	Method Blank	63	46

Surrogate Legend

Surrogate Summary

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method Summary

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
314.0	Perchlorate (IC)	EPA	TAL IRV
6020	Metals (ICP/MS)	SW846	TAL IRV
7470A	Mercury (CVAA)	SW846	TAL IRV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL IRV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: TB-20190408 — Lab Sample ID: 440-238310-1

Date Collected: 04/08/19 07:00 — **Matrix: Water**
Date Received: 04/09/19 12:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	541078	04/18/19 14:01	RM	TAL IRV
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	541250	04/19/19 03:17	JB	TAL IRV

Client Sample ID: PL-502-20190408 — Lab Sample ID: 440-238310-2

Date Collected: 04/08/19 09:00 — **Matrix: Water**
Date Received: 04/09/19 12:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	541078	04/18/19 14:28	RM	TAL IRV
Total/NA	Prep	3510C			1045 mL	2 mL	539449	04/10/19 10:43	HCK	TAL IRV
Total/NA	Analysis	8081A		1			539476	04/10/19 22:23	D1D	TAL IRV
Total/NA	Analysis	314.0		1			540570	04/16/19 12:27	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	539673	04/11/19 08:08	BV	TAL IRV
Total Recoverable	Analysis	6020		1			539799	04/11/19 13:27	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	540529	04/16/19 10:36	DB	TAL IRV
Total/NA	Analysis	7470A		1			540896	04/17/19 07:00	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	539974	04/12/19 08:47	XL	TAL IRV

Client Sample ID: PL-503-20190408 — Lab Sample ID: 440-238310-3

Date Collected: 04/08/19 09:15 — **Matrix: Water**
Date Received: 04/09/19 12:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	541078	04/18/19 14:55	RM	TAL IRV
Total/NA	Prep	3510C			1030 mL	2 mL	539449	04/10/19 10:43	HCK	TAL IRV
Total/NA	Analysis	8081A		1			539476	04/10/19 22:50	D1D	TAL IRV
Total/NA	Analysis	314.0		1			540570	04/16/19 12:45	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	539673	04/11/19 08:08	BV	TAL IRV
Total Recoverable	Analysis	6020		1			539799	04/11/19 13:39	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	540529	04/16/19 10:36	DB	TAL IRV
Total/NA	Analysis	7470A		1			540896	04/17/19 07:02	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	539974	04/12/19 08:47	XL	TAL IRV

Client Sample ID: PL-504-20190408 — Lab Sample ID: 440-238310-4

Date Collected: 04/08/19 13:35 — **Matrix: Water**
Date Received: 04/09/19 12:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	541078	04/18/19 15:21	RM	TAL IRV

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: MC-113-20190408

Lab Sample ID: 440-238310-5

Date Collected: 04/08/19 10:34
Matrix: Water
Date Received: 04/09/19 12:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	541078	04/18/19 15:48	RM	TAL IRV
Total/NA	Prep	3510C			1015 mL	2 mL	539449	04/10/19 10:43	HCK	TAL IRV
Total/NA	Analysis	8081A		1			539476	04/10/19 23:17	D1D	TAL IRV
Total/NA	Prep	3510C	DL		1015 mL	2 mL	539449	04/10/19 10:43	HCK	TAL IRV
Total/NA	Analysis	8081A	DL	10			539700	04/11/19 14:56	D1D	TAL IRV
Total/NA	Analysis	314.0		100			540570	04/16/19 20:07	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	539673	04/11/19 08:08	BV	TAL IRV
Total Recoverable	Analysis	6020		20			539799	04/11/19 14:43	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	540529	04/16/19 10:36	DB	TAL IRV
Total/NA	Analysis	7470A		1			540896	04/17/19 07:04	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	539974	04/12/19 08:47	XL	TAL IRV

Client Sample ID: MC-114-20190408

Lab Sample ID: 440-238310-6

Date Collected: 04/08/19 11:45
Matrix: Water
Date Received: 04/09/19 12:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	541078	04/18/19 09:19	RM	TAL IRV
Total/NA	Analysis	8260B	DL	5	10 mL	10 mL	541078	04/18/19 10:53	RM	TAL IRV
Total/NA	Prep	3510C			1055 mL	2 mL	539449	04/10/19 10:43	HCK	TAL IRV
Total/NA	Analysis	8081A		1			539476	04/10/19 23:44	D1D	TAL IRV
Total/NA	Prep	3510C	DL		1055 mL	2 mL	539449	04/10/19 10:43	HCK	TAL IRV
Total/NA	Analysis	8081A	DL	5			539700	04/11/19 15:22	D1D	TAL IRV
Total/NA	Analysis	314.0		5			541105	04/18/19 11:27	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	539673	04/11/19 08:08	BV	TAL IRV
Total Recoverable	Analysis	6020		20			539799	04/11/19 14:45	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	540529	04/16/19 10:36	DB	TAL IRV
Total/NA	Analysis	7470A		1			540896	04/17/19 07:07	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	539974	04/12/19 08:47	XL	TAL IRV

Client Sample ID: MC-53-20190408

Lab Sample ID: 440-238310-7

Date Collected: 04/08/19 14:00
Matrix: Water
Date Received: 04/09/19 12:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	541078	04/18/19 16:15	RM	TAL IRV
Total/NA	Prep	3510C			985 mL	2 mL	539449	04/10/19 10:43	HCK	TAL IRV
Total/NA	Analysis	8081A		1			539476	04/11/19 00:11	D1D	TAL IRV
Total/NA	Analysis	314.0		500			540570	04/16/19 20:43	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	539673	04/11/19 08:08	BV	TAL IRV
Total Recoverable	Analysis	6020		20			539799	04/11/19 14:47	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	540529	04/16/19 10:36	DB	TAL IRV
Total/NA	Analysis	7470A		1			540896	04/17/19 07:09	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	539974	04/12/19 08:47	XL	TAL IRV

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Client Sample ID: MC-47-20190408

Lab Sample ID: 440-238310-8

Date Collected: 04/08/19 10:45
Matrix: Water
Date Received: 04/09/19 12:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	541078	04/18/19 16:42	RM	TAL IRV
Total/NA	Prep	3510C			1005 mL	2 mL	539449	04/10/19 10:43	HCK	TAL IRV
Total/NA	Analysis	8081A		1			539476	04/11/19 00:37	D1D	TAL IRV
Total/NA	Analysis	314.0		1000			540639	04/17/19 12:26	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	539673	04/11/19 08:08	BV	TAL IRV
Total Recoverable	Analysis	6020		5			539799	04/11/19 14:50	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	540529	04/16/19 10:36	DB	TAL IRV
Total/NA	Analysis	7470A		1			540896	04/17/19 07:11	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	539974	04/12/19 08:47	XL	TAL IRV

Client Sample ID: MC-48-20190408

Lab Sample ID: 440-238310-9

Date Collected: 04/08/19 12:02
Matrix: Water
Date Received: 04/09/19 12:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	541078	04/18/19 17:10	RM	TAL IRV
Total/NA	Prep	3510C			1055 mL	2 mL	539449	04/10/19 10:43	HCK	TAL IRV
Total/NA	Analysis	8081A		1			539476	04/11/19 01:04	D1D	TAL IRV
Total/NA	Prep	3510C	DL		1055 mL	2 mL	539449	04/10/19 10:43	HCK	TAL IRV
Total/NA	Analysis	8081A	DL	5			539700	04/11/19 15:49	D1D	TAL IRV
Total/NA	Analysis	314.0		10			541105	04/18/19 11:07	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	539673	04/11/19 08:08	BV	TAL IRV
Total Recoverable	Analysis	6020		20			539799	04/11/19 14:52	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	540529	04/16/19 10:36	DB	TAL IRV
Total/NA	Analysis	7470A		1			540896	04/17/19 07:13	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	539974	04/12/19 08:47	XL	TAL IRV

Client Sample ID: MC-49-20190408

Lab Sample ID: 440-238310-10

Date Collected: 04/08/19 13:35
Matrix: Water
Date Received: 04/09/19 12:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	541250	04/19/19 01:39	JB	TAL IRV
Total/NA	Analysis	8260B	DL	5	10 mL	10 mL	541250	04/19/19 02:04	JB	TAL IRV
Total/NA	Prep	3510C			1045 mL	2 mL	539449	04/10/19 10:43	HCK	TAL IRV
Total/NA	Analysis	8081A		1			539476	04/11/19 01:31	D1D	TAL IRV
Total/NA	Prep	3510C	DL		1045 mL	2 mL	539449	04/10/19 10:43	HCK	TAL IRV
Total/NA	Analysis	8081A	DL	5			539700	04/11/19 16:16	D1D	TAL IRV
Total/NA	Analysis	314.0		100			540570	04/16/19 20:25	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	539673	04/11/19 08:08	BV	TAL IRV
Total Recoverable	Analysis	6020		20			539799	04/11/19 14:55	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	540529	04/16/19 10:36	DB	TAL IRV
Total/NA	Analysis	7470A		1			540896	04/17/19 07:15	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	539974	04/12/19 08:47	XL	TAL IRV

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-541078/4
Matrix: Water
Analysis Batch: 541078

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			04/18/19 07:58	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/18/19 07:58	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/18/19 07:58	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 07:58	1
1,2,3-Trichloropropane	ND		1.0	0.25	ug/L			04/18/19 07:58	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 07:58	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/18/19 07:58	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 07:58	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/18/19 07:58	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 07:58	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 07:58	1
Benzene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
Bromobenzene	ND		5.0	0.25	ug/L			04/18/19 07:58	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/18/19 07:58	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/18/19 07:58	1
Bromoform	ND		5.0	0.40	ug/L			04/18/19 07:58	1
Bromomethane	ND		5.0	0.25	ug/L			04/18/19 07:58	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/18/19 07:58	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
Chloroethane	ND		5.0	0.40	ug/L			04/18/19 07:58	1
Chloroform	ND		2.0	0.25	ug/L			04/18/19 07:58	1
Chloromethane	ND		2.5	0.25	ug/L			04/18/19 07:58	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/18/19 07:58	1
Dibromomethane	ND		1.0	0.25	ug/L			04/18/19 07:58	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/18/19 07:58	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/18/19 07:58	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/18/19 07:58	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/18/19 07:58	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/18/19 07:58	1
Naphthalene	ND		1.0	0.40	ug/L			04/18/19 07:58	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/18/19 07:58	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/18/19 07:58	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-541078/4
Matrix: Water
Analysis Batch: 541078

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 07:58	1
Styrene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 07:58	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
Toluene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
Trichloroethene	ND		2.0	0.25	ug/L			04/18/19 07:58	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/18/19 07:58	1
Vinyl chloride	ND		2.0	0.25	ug/L			04/18/19 07:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/18/19 07:58*	*1*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*04/18/19 07:58*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*04/18/19 07:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*04/18/19 07:58*	*1*

Lab Sample ID: LCS 440-541078/5
Matrix: Water
Analysis Batch: 541078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	9.29		ug/L		93	60 - 141
1,1,1-Trichloroethane	10.0	8.61		ug/L		86	70 - 130
1,1,2,2-Tetrachloroethane	10.0	8.91		ug/L		89	63 - 130
1,1,2-Trichloroethane	10.0	8.68		ug/L		87	70 - 130
1,1-Dichloroethane	10.0	8.48		ug/L		85	64 - 130
1,1-Dichloroethene	10.0	8.30		ug/L		83	70 - 130
1,1-Dichloropropene	10.0	8.34		ug/L		83	70 - 130
1,2,3-Trichlorobenzene	10.0	9.84		ug/L		98	60 - 140
1,2,3-Trichloropropane	10.0	8.61		ug/L		86	63 - 130
1,2,4-Trichlorobenzene	10.0	9.79		ug/L		98	60 - 140
1,2,4-Trimethylbenzene	10.0	9.23		ug/L		92	70 - 135
1,2-Dibromo-3-Chloropropane	10.0	8.65		ug/L		87	52 - 140
1,2-Dibromoethane (EDB)	10.0	8.54		ug/L		85	70 - 130
1,2-Dichlorobenzene	10.0	9.26		ug/L		93	70 - 130
1,2-Dichloroethane	10.0	7.76		ug/L		78	57 - 138
1,2-Dichloropropane	10.0	8.20		ug/L		82	67 - 130
1,3,5-Trimethylbenzene	10.0	9.30		ug/L		93	70 - 136
1,3-Dichlorobenzene	10.0	8.92		ug/L		89	70 - 130
1,3-Dichloropropane	10.0	8.47		ug/L		85	70 - 130
1,4-Dichlorobenzene	10.0	9.04		ug/L		90	70 - 130
2,2-Dichloropropane	10.0	9.48		ug/L		95	68 - 141
2-Chlorotoluene	10.0	8.96		ug/L		90	70 - 130
4-Chlorotoluene	10.0	8.93		ug/L		89	70 - 130
Benzene	10.0	8.33		ug/L		83	68 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-541078/5
Matrix: Water
Analysis Batch: 541078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	10.0	8.98		ug/L		90	70 - 130
Bromochloromethane	10.0	8.97		ug/L		90	70 - 130
Bromodichloromethane	10.0	8.23		ug/L		82	70 - 132
Bromoform	10.0	8.42		ug/L		84	60 - 148
Bromomethane	10.0	7.72		ug/L		77	64 - 139
Carbon tetrachloride	10.0	8.47		ug/L		85	60 - 150
Chlorobenzene	10.0	8.70		ug/L		87	70 - 130
Chloroethane	10.0	7.71		ug/L		77	64 - 135
Chloroform	10.0	8.57		ug/L		86	70 - 130
Chloromethane	10.0	6.77		ug/L		68	47 - 140
cis-1,2-Dichloroethene	10.0	8.65		ug/L		86	70 - 133
cis-1,3-Dichloropropene	10.0	8.90		ug/L		89	70 - 133
Dibromochloromethane	10.0	8.73		ug/L		87	69 - 145
Dibromomethane	10.0	8.30		ug/L		83	70 - 130
Dichlorodifluoromethane	10.0	6.13		ug/L		61	29 - 150
Ethylbenzene	10.0	8.72		ug/L		87	70 - 130
Hexachlorobutadiene	10.0	9.42		ug/L		94	10 - 150
Isopropylbenzene	10.0	9.04		ug/L		90	70 - 136
m,p-Xylene	10.0	8.83		ug/L		88	70 - 130
Methylene Chloride	10.0	8.05		ug/L		80	52 - 130
Naphthalene	10.0	9.40		ug/L		94	60 - 140
n-Butylbenzene	10.0	9.20		ug/L		92	65 - 150
N-Propylbenzene	10.0	8.95		ug/L		89	67 - 139
o-Xylene	10.0	9.22		ug/L		92	70 - 130
p-Isopropyltoluene	10.0	9.52		ug/L		95	70 - 132
sec-Butylbenzene	10.0	9.22		ug/L		92	70 - 138
Styrene	10.0	8.77		ug/L		88	70 - 134
tert-Butylbenzene	10.0	9.01		ug/L		90	70 - 130
Tetrachloroethene	10.0	9.06		ug/L		91	70 - 130
Toluene	10.0	8.64		ug/L		86	70 - 130
trans-1,2-Dichloroethene	10.0	8.76		ug/L		88	70 - 130
trans-1,3-Dichloropropene	10.0	8.16		ug/L		82	70 - 132
Trichloroethene	10.0	8.61		ug/L		86	70 - 130
Trichlorofluoromethane	10.0	8.00		ug/L		80	60 - 150
Vinyl chloride	10.0	7.55		ug/L		76	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*76 - 132*
Toluene-d8 (Surr)	*102*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*

Lab Sample ID: 440-238310-6 MS
Matrix: Water
Analysis Batch: 541078

Client Sample ID: MC-114-20190408
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		50.0	57.5		ug/L		115	60 - 149

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238310-6 MS
Matrix: Water
Analysis Batch: 541078

Client Sample ID: MC-114-20190408
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		50.0	55.1		ug/L		110	70 - 130
1,1,2,2-Tetrachloroethane	ND		50.0	52.5		ug/L		105	63 - 130
1,1,2-Trichloroethane	ND		50.0	50.4		ug/L		101	70 - 130
1,1-Dichloroethane	4.8	J	50.0	59.1		ug/L		109	65 - 130
1,1-Dichloroethene	ND		50.0	55.6		ug/L		111	70 - 130
1,1-Dichloropropene	ND		50.0	53.7		ug/L		107	64 - 130
1,2,3-Trichlorobenzene	ND		50.0	62.0		ug/L		124	60 - 140
1,2,3-Trichloropropane	ND		50.0	51.8		ug/L		104	60 - 130
1,2,4-Trichlorobenzene	ND		50.0	61.7		ug/L		123	60 - 140
1,2,4-Trimethylbenzene	ND		50.0	57.1		ug/L		114	70 - 130
1,2-Dibromo-3-Chloropropane	ND		50.0	51.9		ug/L		104	48 - 140
1,2-Dibromoethane (EDB)	ND		50.0	50.0		ug/L		100	70 - 131
1,2-Dichlorobenzene	18		50.0	70.1		ug/L		104	70 - 130
1,2-Dichloroethane	ND		50.0	47.4		ug/L		95	56 - 146
1,2-Dichloropropane	ND		50.0	49.4		ug/L		99	69 - 130
1,3,5-Trimethylbenzene	ND		50.0	57.3		ug/L		115	70 - 130
1,3-Dichlorobenzene	ND		50.0	55.4		ug/L		111	70 - 130
1,3-Dichloropropane	ND		50.0	49.4		ug/L		99	70 - 130
1,4-Dichlorobenzene	25		50.0	73.3		ug/L		96	70 - 130
2,2-Dichloropropane	ND		50.0	58.7		ug/L		117	69 - 138
2-Chlorotoluene	ND		50.0	55.3		ug/L		111	70 - 130
4-Chlorotoluene	ND		50.0	54.1		ug/L		108	70 - 130
Benzene	2.5	J	50.0	54.0		ug/L		103	66 - 130
Bromobenzene	ND		50.0	53.5		ug/L		107	70 - 130
Bromochloromethane	ND		50.0	55.1		ug/L		110	70 - 130
Bromodichloromethane	ND		50.0	50.9		ug/L		102	70 - 138
Bromoform	ND		50.0	50.1		ug/L		100	59 - 150
Bromomethane	ND		50.0	48.6		ug/L		97	62 - 131
Carbon tetrachloride	ND		50.0	55.5		ug/L		111	60 - 150
Chlorobenzene	230		50.0	231	4	ug/L		-0.4	70 - 130
Chloroethane	ND		50.0	50.0		ug/L		100	68 - 130
Chloroform	ND		50.0	54.4		ug/L		109	70 - 130
Chloromethane	ND		50.0	43.9		ug/L		88	39 - 144
cis-1,2-Dichloroethene	ND		50.0	54.4		ug/L		109	70 - 130
cis-1,3-Dichloropropene	ND		50.0	53.8		ug/L		108	70 - 133
Dibromochloromethane	ND		50.0	53.1		ug/L		106	70 - 148
Dibromomethane	ND		50.0	49.2		ug/L		98	70 - 130
Dichlorodifluoromethane	ND		50.0	41.7		ug/L		83	25 - 142
Ethylbenzene	ND		50.0	53.8		ug/L		108	70 - 130
Hexachlorobutadiene	ND		50.0	60.0		ug/L		120	10 - 150
Isopropylbenzene	ND		50.0	57.1		ug/L		114	70 - 132
m,p-Xylene	ND		50.0	55.6		ug/L		111	70 - 133
Methylene Chloride	ND		50.0	51.0		ug/L		102	52 - 130
Naphthalene	ND		50.0	58.2		ug/L		116	60 - 140
n-Butylbenzene	ND		50.0	58.5		ug/L		117	61 - 149
N-Propylbenzene	ND		50.0	56.4		ug/L		113	66 - 135
o-Xylene	ND		50.0	56.6		ug/L		113	70 - 133
p-Isopropyltoluene	ND		50.0	60.5		ug/L		121	70 - 130
sec-Butylbenzene	ND		50.0	57.9		ug/L		116	67 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238310-6 MS
Matrix: Water
Analysis Batch: 541078

Client Sample ID: MC-114-20190408
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	ND	F1	50.0	ND	F1	ug/L		0	29 - 150
tert-Butylbenzene	ND		50.0	57.1		ug/L		114	70 - 130
Tetrachloroethene	ND		50.0	57.7		ug/L		115	70 - 137
Toluene	ND		50.0	53.8		ug/L		108	70 - 130
trans-1,2-Dichloroethene	ND		50.0	57.5		ug/L		115	70 - 130
trans-1,3-Dichloropropene	ND		50.0	48.3		ug/L		97	70 - 138
Trichloroethene	2.7	J	50.0	55.4		ug/L		105	70 - 130
Trichlorofluoromethane	ND		50.0	53.5		ug/L		107	60 - 150
Vinyl chloride	ND		50.0	51.8		ug/L		104	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*76 - 132*
Toluene-d8 (Surr)	*104*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*

Lab Sample ID: 440-238310-6 MSD
Matrix: Water
Analysis Batch: 541078

Client Sample ID: MC-114-20190408
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		50.0	56.5		ug/L		113	60 - 149	2	20
1,1,1-Trichloroethane	ND		50.0	53.9		ug/L		108	70 - 130	2	20
1,1,2,2-Tetrachloroethane	ND		50.0	53.5		ug/L		107	63 - 130	2	30
1,1,2-Trichloroethane	ND		50.0	49.4		ug/L		99	70 - 130	2	25
1,1-Dichloroethane	4.8	J	50.0	57.3		ug/L		105	65 - 130	3	20
1,1-Dichloroethene	ND		50.0	53.8		ug/L		108	70 - 130	3	20
1,1-Dichloropropene	ND		50.0	51.2		ug/L		102	64 - 130	5	20
1,2,3-Trichlorobenzene	ND		50.0	62.7		ug/L		125	60 - 140	1	20
1,2,3-Trichloropropane	ND		50.0	51.3		ug/L		103	60 - 130	1	30
1,2,4-Trichlorobenzene	ND		50.0	63.2		ug/L		126	60 - 140	2	20
1,2,4-Trimethylbenzene	ND		50.0	57.9		ug/L		116	70 - 130	1	25
1,2-Dibromo-3-Chloropropane	ND		50.0	53.5		ug/L		107	48 - 140	3	30
1,2-Dibromoethane (EDB)	ND		50.0	48.6		ug/L		97	70 - 131	3	25
1,2-Dichlorobenzene	18		50.0	71.4		ug/L		106	70 - 130	2	20
1,2-Dichloroethane	ND		50.0	47.5		ug/L		95	56 - 146	0	20
1,2-Dichloropropane	ND		50.0	48.6		ug/L		97	69 - 130	1	20
1,3,5-Trimethylbenzene	ND		50.0	56.1		ug/L		112	70 - 130	2	20
1,3-Dichlorobenzene	ND		50.0	56.3		ug/L		113	70 - 130	2	20
1,3-Dichloropropane	ND		50.0	48.0		ug/L		96	70 - 130	3	25
1,4-Dichlorobenzene	25		50.0	73.3		ug/L		96	70 - 130	0	20
2,2-Dichloropropane	ND		50.0	59.3		ug/L		119	69 - 138	1	25
2-Chlorotoluene	ND		50.0	56.1		ug/L		112	70 - 130	1	20
4-Chlorotoluene	ND		50.0	55.0		ug/L		110	70 - 130	2	20
Benzene	2.5	J	50.0	54.0		ug/L		103	66 - 130	0	20
Bromobenzene	ND		50.0	54.3		ug/L		109	70 - 130	2	20
Bromochloromethane	ND		50.0	55.1		ug/L		110	70 - 130	0	25
Bromodichloromethane	ND		50.0	50.5		ug/L		101	70 - 138	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238310-6 MSD
Matrix: Water
Analysis Batch: 541078

Client Sample ID: MC-114-20190408
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		50.0	49.1		ug/L		98	59 - 150	2	25
Bromomethane	ND		50.0	49.4		ug/L		99	62 - 131	2	25
Carbon tetrachloride	ND		50.0	54.0		ug/L		108	60 - 150	3	25
Chlorobenzene	230		50.0	216	4	ug/L		-30	70 - 130	7	20
Chloroethane	ND		50.0	51.2		ug/L		102	68 - 130	2	25
Chloroform	ND		50.0	54.6		ug/L		109	70 - 130	0	20
Chloromethane	ND		50.0	43.4		ug/L		87	39 - 144	1	25
cis-1,2-Dichloroethene	ND		50.0	54.0		ug/L		108	70 - 130	1	20
cis-1,3-Dichloropropene	ND		50.0	52.9		ug/L		106	70 - 133	2	20
Dibromochloromethane	ND		50.0	51.9		ug/L		104	70 - 148	2	25
Dibromomethane	ND		50.0	49.0		ug/L		98	70 - 130	0	25
Dichlorodifluoromethane	ND		50.0	37.9		ug/L		76	25 - 142	10	30
Ethylbenzene	ND		50.0	52.8		ug/L		106	70 - 130	2	20
Hexachlorobutadiene	ND		50.0	59.3		ug/L		119	10 - 150	1	20
Isopropylbenzene	ND		50.0	55.8		ug/L		112	70 - 132	2	20
m,p-Xylene	ND		50.0	55.1		ug/L		110	70 - 133	1	25
Methylene Chloride	ND		50.0	50.5		ug/L		101	52 - 130	1	20
Naphthalene	ND		50.0	59.4		ug/L		119	60 - 140	2	30
n-Butylbenzene	ND		50.0	58.7		ug/L		117	61 - 149	0	20
N-Propylbenzene	ND		50.0	56.0		ug/L		112	66 - 135	1	20
o-Xylene	ND		50.0	56.1		ug/L		112	70 - 133	1	20
p-Isopropyltoluene	ND		50.0	59.7		ug/L		119	70 - 130	1	20
sec-Butylbenzene	ND		50.0	57.8		ug/L		116	67 - 134	0	20
Styrene	ND	F1	50.0	ND	F1	ug/L		0	29 - 150	NC	35
tert-Butylbenzene	ND		50.0	57.1		ug/L		114	70 - 130	0	20
Tetrachloroethene	ND		50.0	55.7		ug/L		111	70 - 137	4	20
Toluene	ND		50.0	52.2		ug/L		104	70 - 130	3	20
trans-1,2-Dichloroethene	ND		50.0	56.8		ug/L		114	70 - 130	1	20
trans-1,3-Dichloropropene	ND		50.0	47.6		ug/L		95	70 - 138	1	25
Trichloroethene	2.7	J	50.0	54.8		ug/L		104	70 - 130	1	20
Trichlorofluoromethane	ND		50.0	49.1		ug/L		98	60 - 150	9	25
Vinyl chloride	ND		50.0	49.0		ug/L		98	50 - 137	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*76 - 132*
Toluene-d8 (Surr)	*102*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 440-541250/5
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			04/18/19 20:46	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/18/19 20:46	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 20:46	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-541250/5
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/18/19 20:46	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 20:46	1
1,2,3-Trichloropropane	ND		1.0	0.25	ug/L			04/18/19 20:46	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 20:46	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/18/19 20:46	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/18/19 20:46	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 20:46	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Benzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Bromobenzene	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Bromoform	ND		5.0	0.40	ug/L			04/18/19 20:46	1
Bromomethane	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/18/19 20:46	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Chloroethane	ND		5.0	0.40	ug/L			04/18/19 20:46	1
Chloroform	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Chloromethane	ND		2.5	0.25	ug/L			04/18/19 20:46	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Dibromomethane	ND		1.0	0.25	ug/L			04/18/19 20:46	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/18/19 20:46	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/18/19 20:46	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/18/19 20:46	1
Naphthalene	ND		1.0	0.40	ug/L			04/18/19 20:46	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/18/19 20:46	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
o-Xylene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Styrene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 20:46	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-541250/5
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Toluene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Trichloroethene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Vinyl chloride	ND		2.0	0.25	ug/L			04/18/19 20:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*04/18/19 20:46*	*1*
Dibromofluoromethane (Surr)	*96*		*76 - 132*		*04/18/19 20:46*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*04/18/19 20:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/18/19 20:46*	*1*

Lab Sample ID: LCS 440-541250/6
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	9.93		ug/L		99	60 - 141
1,1,1-Trichloroethane	10.0	9.48		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	10.0	10.3		ug/L		103	63 - 130
1,1,2-Trichloroethane	10.0	10.1		ug/L		101	70 - 130
1,1-Dichloroethane	10.0	8.81		ug/L		88	64 - 130
1,1-Dichloroethene	10.0	9.16		ug/L		92	70 - 130
1,1-Dichloropropene	10.0	9.15		ug/L		92	70 - 130
1,2,3-Trichlorobenzene	10.0	8.48		ug/L		85	60 - 140
1,2,3-Trichloropropane	10.0	9.31		ug/L		93	63 - 130
1,2,4-Trichlorobenzene	10.0	8.44		ug/L		84	60 - 140
1,2,4-Trimethylbenzene	10.0	10.1		ug/L		101	70 - 135
1,2-Dibromo-3-Chloropropane	10.0	8.87		ug/L		89	52 - 140
1,2-Dibromoethane (EDB)	10.0	9.79		ug/L		98	70 - 130
1,2-Dichlorobenzene	10.0	9.79		ug/L		98	70 - 130
1,2-Dichloroethane	10.0	9.15		ug/L		92	57 - 138
1,2-Dichloropropane	10.0	10.0		ug/L		100	67 - 130
1,3,5-Trimethylbenzene	10.0	10.3		ug/L		103	70 - 136
1,3-Dichlorobenzene	10.0	10.1		ug/L		101	70 - 130
1,3-Dichloropropane	10.0	9.87		ug/L		99	70 - 130
1,4-Dichlorobenzene	10.0	9.93		ug/L		99	70 - 130
2,2-Dichloropropane	10.0	9.05		ug/L		91	68 - 141
2-Chlorotoluene	10.0	10.2		ug/L		102	70 - 130
4-Chlorotoluene	10.0	10.5		ug/L		105	70 - 130
Benzene	10.0	9.27		ug/L		93	68 - 130
Bromobenzene	10.0	10.8		ug/L		108	70 - 130
Bromochloromethane	10.0	9.53		ug/L		95	70 - 130
Bromodichloromethane	10.0	9.95		ug/L		99	70 - 132
Bromoform	10.0	10.9		ug/L		109	60 - 148
Bromomethane	10.0	8.76		ug/L		88	64 - 139

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-541250/6
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	10.0	10.1		ug/L		101	60 - 150
Chlorobenzene	10.0	10.1		ug/L		101	70 - 130
Chloroethane	10.0	8.61		ug/L		86	64 - 135
Chloroform	10.0	9.36		ug/L		94	70 - 130
Chloromethane	10.0	8.17		ug/L		82	47 - 140
cis-1,2-Dichloroethene	10.0	9.48		ug/L		95	70 - 133
cis-1,3-Dichloropropene	10.0	10.2		ug/L		102	70 - 133
Dibromochloromethane	10.0	9.83		ug/L		98	69 - 145
Dibromomethane	10.0	9.52		ug/L		95	70 - 130
Dichlorodifluoromethane	10.0	7.20		ug/L		72	29 - 150
Ethylbenzene	10.0	10.3		ug/L		103	70 - 130
Hexachlorobutadiene	10.0	8.83		ug/L		88	10 - 150
Isopropylbenzene	10.0	9.85		ug/L		98	70 - 136
m,p-Xylene	10.0	10.1		ug/L		101	70 - 130
Methylene Chloride	10.0	9.01		ug/L		90	52 - 130
Naphthalene	10.0	8.14		ug/L		81	60 - 140
n-Butylbenzene	10.0	9.50		ug/L		95	65 - 150
N-Propylbenzene	10.0	10.6		ug/L		106	67 - 139
o-Xylene	10.0	9.41		ug/L		94	70 - 130
p-Isopropyltoluene	10.0	10.3		ug/L		103	70 - 132
sec-Butylbenzene	10.0	10.4		ug/L		104	70 - 138
Styrene	10.0	9.88		ug/L		99	70 - 134
tert-Butylbenzene	10.0	10.2		ug/L		102	70 - 130
Tetrachloroethene	10.0	9.94		ug/L		99	70 - 130
Toluene	10.0	9.85		ug/L		99	70 - 130
trans-1,2-Dichloroethene	10.0	9.09		ug/L		91	70 - 130
trans-1,3-Dichloropropene	10.0	10.1		ug/L		101	70 - 132
Trichloroethene	10.0	9.29		ug/L		93	70 - 130
Trichlorofluoromethane	10.0	8.59		ug/L		86	60 - 150
Vinyl chloride	10.0	8.44		ug/L		84	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*

Lab Sample ID: 440-238127-A-13 MS
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		250	248		ug/L		99	60 - 149
1,1,1-Trichloroethane	ND		250	232		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	ND		250	248		ug/L		99	63 - 130
1,1,2-Trichloroethane	ND		250	255		ug/L		102	70 - 130
1,1-Dichloroethane	ND		250	227		ug/L		91	65 - 130
1,1-Dichloroethene	ND		250	218		ug/L		87	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238127-A-13 MS
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloropropene	ND		250	221		ug/L		89	64 - 130
1,2,3-Trichlorobenzene	31	J	250	233		ug/L		81	60 - 140
1,2,3-Trichloropropane	ND		250	245		ug/L		98	60 - 130
1,2,4-Trichlorobenzene	46	J	250	256		ug/L		84	60 - 140
1,2,4-Trimethylbenzene	ND		250	247		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	ND		250	214		ug/L		86	48 - 140
1,2-Dibromoethane (EDB)	ND		250	247		ug/L		99	70 - 131
1,2-Dichlorobenzene	67		250	303		ug/L		94	70 - 130
1,2-Dichloroethane	ND		250	223		ug/L		89	56 - 146
1,2-Dichloropropane	ND		250	263		ug/L		105	69 - 130
1,3,5-Trimethylbenzene	ND		250	255		ug/L		102	70 - 130
1,3-Dichlorobenzene	7.3	J	250	255		ug/L		99	70 - 130
1,3-Dichloropropane	ND		250	249		ug/L		99	70 - 130
1,4-Dichlorobenzene	96		250	336		ug/L		96	70 - 130
2,2-Dichloropropane	ND		250	234		ug/L		93	69 - 138
2-Chlorotoluene	ND		250	256		ug/L		102	70 - 130
4-Chlorotoluene	ND		250	274		ug/L		109	70 - 130
Benzene	19	J	250	246		ug/L		91	66 - 130
Bromobenzene	ND		250	270		ug/L		108	70 - 130
Bromochloromethane	ND		250	223		ug/L		89	70 - 130
Bromodichloromethane	ND		250	248		ug/L		99	70 - 138
Bromoform	ND		250	270		ug/L		108	59 - 150
Bromomethane	ND		250	212		ug/L		85	62 - 131
Carbon tetrachloride	ND		250	241		ug/L		97	60 - 150
Chlorobenzene	1300		250	1460	4	ug/L		78	70 - 130
Chloroethane	ND		250	214		ug/L		85	68 - 130
Chloroform	ND		250	236		ug/L		94	70 - 130
Chloromethane	ND		250	194		ug/L		78	39 - 144
cis-1,2-Dichloroethene	ND		250	231		ug/L		93	70 - 130
cis-1,3-Dichloropropene	ND		250	255		ug/L		102	70 - 133
Dibromochloromethane	ND		250	253		ug/L		101	70 - 148
Dibromomethane	ND		250	225		ug/L		90	70 - 130
Dichlorodifluoromethane	ND		250	181		ug/L		72	25 - 142
Ethylbenzene	ND		250	258		ug/L		103	70 - 130
Hexachlorobutadiene	15	J	250	229		ug/L		86	10 - 150
Isopropylbenzene	ND		250	249		ug/L		100	70 - 132
m,p-Xylene	ND		250	253		ug/L		101	70 - 133
Methylene Chloride	ND		250	227		ug/L		91	52 - 130
Naphthalene	19	J	250	216		ug/L		79	60 - 140
n-Butylbenzene	ND		250	242		ug/L		97	61 - 149
N-Propylbenzene	ND		250	259		ug/L		103	66 - 135
o-Xylene	ND		250	238		ug/L		95	70 - 133
p-Isopropyltoluene	ND		250	260		ug/L		104	70 - 130
sec-Butylbenzene	ND		250	254		ug/L		102	67 - 134
Styrene	ND		250	238		ug/L		95	29 - 150
tert-Butylbenzene	ND		250	257		ug/L		103	70 - 130
Tetrachloroethene	ND		250	244		ug/L		98	70 - 137
Toluene	ND		250	248		ug/L		99	70 - 130
trans-1,2-Dichloroethene	ND		250	226		ug/L		90	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238127-A-13 MS
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	ND		250	251		ug/L		101	70 - 138
Trichloroethene	9.5	J	250	234		ug/L		90	70 - 130
Trichlorofluoromethane	ND		250	215		ug/L		86	60 - 150
Vinyl chloride	ND		250	218		ug/L		87	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*76 - 132*
Toluene-d8 (Surr)	*99*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*

Lab Sample ID: 440-238127-A-13 MSD
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		250	256		ug/L		102	60 - 149	3	20
1,1,1-Trichloroethane	ND		250	232		ug/L		93	70 - 130	0	20
1,1,2,2-Tetrachloroethane	ND		250	252		ug/L		101	63 - 130	2	30
1,1,2-Trichloroethane	ND		250	260		ug/L		104	70 - 130	2	25
1,1-Dichloroethane	ND		250	222		ug/L		89	65 - 130	2	20
1,1-Dichloroethene	ND		250	220		ug/L		88	70 - 130	1	20
1,1-Dichloropropene	ND		250	226		ug/L		91	64 - 130	2	20
1,2,3-Trichlorobenzene	31	J	250	246		ug/L		86	60 - 140	5	20
1,2,3-Trichloropropane	ND		250	240		ug/L		96	60 - 130	2	30
1,2,4-Trichlorobenzene	46	J	250	252		ug/L		82	60 - 140	2	20
1,2,4-Trimethylbenzene	ND		250	250		ug/L		100	70 - 130	1	25
1,2-Dibromo-3-Chloropropane	ND		250	211		ug/L		84	48 - 140	2	30
1,2-Dibromoethane (EDB)	ND		250	256		ug/L		103	70 - 131	4	25
1,2-Dichlorobenzene	67		250	304		ug/L		95	70 - 130	0	20
1,2-Dichloroethane	ND		250	233		ug/L		93	56 - 146	4	20
1,2-Dichloropropane	ND		250	256		ug/L		102	69 - 130	3	20
1,3,5-Trimethylbenzene	ND		250	255		ug/L		102	70 - 130	0	20
1,3-Dichlorobenzene	7.3	J	250	259		ug/L		101	70 - 130	2	20
1,3-Dichloropropane	ND		250	260		ug/L		104	70 - 130	4	25
1,4-Dichlorobenzene	96		250	348		ug/L		101	70 - 130	4	20
2,2-Dichloropropane	ND		250	230		ug/L		92	69 - 138	1	25
2-Chlorotoluene	ND		250	255		ug/L		102	70 - 130	1	20
4-Chlorotoluene	ND		250	264		ug/L		106	70 - 130	3	20
Benzene	19	J	250	255		ug/L		95	66 - 130	4	20
Bromobenzene	ND		250	266		ug/L		106	70 - 130	2	20
Bromochloromethane	ND		250	225		ug/L		90	70 - 130	1	25
Bromodichloromethane	ND		250	254		ug/L		102	70 - 138	2	20
Bromoform	ND		250	278		ug/L		111	59 - 150	3	25
Bromomethane	ND		250	207		ug/L		83	62 - 131	2	25
Carbon tetrachloride	ND		250	246		ug/L		98	60 - 150	2	25
Chlorobenzene	1300		250	1480	4	ug/L		85	70 - 130	1	20
Chloroethane	ND		250	210		ug/L		84	68 - 130	2	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238127-A-13 MSD
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform	ND		250	237		ug/L		95	70 - 130	0	20
Chloromethane	ND		250	193		ug/L		77	39 - 144	1	25
cis-1,2-Dichloroethene	ND		250	235		ug/L		94	70 - 130	2	20
cis-1,3-Dichloropropene	ND		250	266		ug/L		106	70 - 133	4	20
Dibromochloromethane	ND		250	264		ug/L		106	70 - 148	4	25
Dibromomethane	ND		250	237		ug/L		95	70 - 130	5	25
Dichlorodifluoromethane	ND		250	179		ug/L		72	25 - 142	1	30
Ethylbenzene	ND		250	260		ug/L		104	70 - 130	1	20
Hexachlorobutadiene	15	J	250	226		ug/L		85	10 - 150	1	20
Isopropylbenzene	ND		250	252		ug/L		101	70 - 132	1	20
m,p-Xylene	ND		250	252		ug/L		101	70 - 133	0	25
Methylene Chloride	ND		250	242		ug/L		97	52 - 130	6	20
Naphthalene	19	J	250	216		ug/L		79	60 - 140	0	30
n-Butylbenzene	ND		250	237		ug/L		95	61 - 149	2	20
N-Propylbenzene	ND		250	259		ug/L		104	66 - 135	0	20
o-Xylene	ND		250	246		ug/L		98	70 - 133	3	20
p-Isopropyltoluene	ND		250	255		ug/L		102	70 - 130	2	20
sec-Butylbenzene	ND		250	258		ug/L		103	67 - 134	2	20
Styrene	ND		250	244		ug/L		98	29 - 150	2	35
tert-Butylbenzene	ND		250	254		ug/L		101	70 - 130	1	20
Tetrachloroethene	ND		250	253		ug/L		101	70 - 137	4	20
Toluene	ND		250	250		ug/L		100	70 - 130	1	20
trans-1,2-Dichloroethene	ND		250	225		ug/L		90	70 - 130	1	20
trans-1,3-Dichloropropene	ND		250	254		ug/L		102	70 - 138	1	25
Trichloroethene	9.5	J	250	242		ug/L		93	70 - 130	3	20
Trichlorofluoromethane	ND		250	212		ug/L		85	60 - 150	1	25
Vinyl chloride	ND		250	212		ug/L		85	50 - 137	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-539449/1-A
Matrix: Water
Analysis Batch: 539476

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539449

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/10/19 10:43	04/10/19 21:03	1
2,4'-DDE	ND		0.10	0.020	ug/L		04/10/19 10:43	04/10/19 21:03	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/10/19 10:43	04/10/19 21:03	1
4,4'-DDD	ND		0.10	0.0040	ug/L		04/10/19 10:43	04/10/19 21:03	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/10/19 10:43	04/10/19 21:03	1
4,4'-DDT	ND		0.10	0.0040	ug/L		04/10/19 10:43	04/10/19 21:03	1
Aldrin	ND		0.0030	0.0015	ug/L		04/10/19 10:43	04/10/19 21:03	1
alpha-BHC	ND		0.0050	0.0025	ug/L		04/10/19 10:43	04/10/19 21:03	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 440-539449/1-A
Matrix: Water
Analysis Batch: 539476

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539449

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	ND		0.010	0.0040	ug/L		04/10/19 10:43	04/10/19 21:03	1
Chlordane	ND		0.10	0.080	ug/L		04/10/19 10:43	04/10/19 21:03	1
delta-BHC	ND		0.20	0.0035	ug/L		04/10/19 10:43	04/10/19 21:03	1
Dieldrin	ND		0.0040	0.0020	ug/L		04/10/19 10:43	04/10/19 21:03	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/10/19 10:43	04/10/19 21:03	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/10/19 10:43	04/10/19 21:03	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/10/19 10:43	04/10/19 21:03	1
Endrin	ND		0.10	0.0020	ug/L		04/10/19 10:43	04/10/19 21:03	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/10/19 10:43	04/10/19 21:03	1
Endrin ketone	ND		0.10	0.0070	ug/L		04/10/19 10:43	04/10/19 21:03	1
gamma-BHC (Lindane)	ND		0.10	0.0030	ug/L		04/10/19 10:43	04/10/19 21:03	1
Heptachlor	ND		0.010	0.0030	ug/L		04/10/19 10:43	04/10/19 21:03	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/10/19 10:43	04/10/19 21:03	1
Methoxychlor	ND		0.10	0.0035	ug/L		04/10/19 10:43	04/10/19 21:03	1
Toxaphene	ND		3.0	0.25	ug/L		04/10/19 10:43	04/10/19 21:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*28 - 108*	*04/10/19 10:43*	*04/10/19 21:03*	*1*
Tetrachloro-m-xylene	*46*		*10 - 123*	*04/10/19 10:43*	*04/10/19 21:03*	*1*

Lab Sample ID: LCS 440-539449/2-A
Matrix: Water
Analysis Batch: 539476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539449

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4'-DDD	0.250	0.183		ug/L		73	10 - 150
2,4'-DDE	0.250	0.172		ug/L		69	10 - 150
2,4'-DDT	0.250	0.179		ug/L		72	10 - 150
4,4'-DDD	0.250	0.193		ug/L		77	50 - 128
4,4'-DDE	0.250	0.189		ug/L		76	49 - 121
4,4'-DDT	0.250	0.185		ug/L		74	41 - 140
Aldrin	0.250	0.167		ug/L		67	37 - 115
alpha-BHC	0.250	0.183		ug/L		73	44 - 115
beta-BHC	0.250	0.180		ug/L		72	46 - 121
delta-BHC	0.250	0.183	J	ug/L		73	32 - 129
Dieldrin	0.250	0.187		ug/L		75	39 - 126
Endosulfan I	0.250	0.183		ug/L		73	47 - 115
Endosulfan II	0.250	0.189		ug/L		76	47 - 120
Endosulfan sulfate	0.250	0.197	J	ug/L		79	48 - 126
Endrin	0.250	0.192		ug/L		77	43 - 127
Endrin aldehyde	0.250	0.181		ug/L		72	43 - 120
Endrin ketone	0.250	0.179		ug/L		71	47 - 123
gamma-BHC (Lindane)	0.250	0.179		ug/L		72	45 - 116
Heptachlor	0.250	0.166		ug/L		66	37 - 115
Heptachlor epoxide	0.250	0.176		ug/L		70	41 - 129
Methoxychlor	0.250	0.195		ug/L		78	44 - 141

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-539449/2-A
Matrix: Water
Analysis Batch: 539476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539449

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*70*		*28 - 108*
Tetrachloro-m-xylene	*59*		*10 - 123*

Lab Sample ID: LCSD 440-539449/3-A
Matrix: Water
Analysis Batch: 539476

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 539449

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4'-DDD	0.250	0.183		ug/L		73	10 - 150	0	26
2,4'-DDE	0.250	0.171		ug/L		69	10 - 150	1	35
2,4'-DDT	0.250	0.179		ug/L		72	10 - 150	0	35
4,4'-DDD	0.250	0.193		ug/L		77	50 - 128	0	26
4,4'-DDE	0.250	0.188		ug/L		75	49 - 121	1	22
4,4'-DDT	0.250	0.185		ug/L		74	41 - 140	0	20
Aldrin	0.250	0.170		ug/L		68	37 - 115	1	24
alpha-BHC	0.250	0.184		ug/L		73	44 - 115	1	26
beta-BHC	0.250	0.180		ug/L		72	46 - 121	0	27
delta-BHC	0.250	0.180	J	ug/L		72	32 - 129	1	35
Dieldrin	0.250	0.187		ug/L		75	39 - 126	0	35
Endosulfan I	0.250	0.183		ug/L		73	47 - 115	0	27
Endosulfan II	0.250	0.189		ug/L		76	47 - 120	0	29
Endosulfan sulfate	0.250	0.197	J	ug/L		79	48 - 126	0	26
Endrin	0.250	0.193		ug/L		77	43 - 127	1	35
Endrin aldehyde	0.250	0.179		ug/L		72	43 - 120	1	35
Endrin ketone	0.250	0.178		ug/L		71	47 - 123	0	27
gamma-BHC (Lindane)	0.250	0.180		ug/L		72	45 - 116	1	28
Heptachlor	0.250	0.166		ug/L		66	37 - 115	0	35
Heptachlor epoxide	0.250	0.170		ug/L		68	41 - 129	4	35
Methoxychlor	0.250	0.195		ug/L		78	44 - 141	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*70*		*28 - 108*
Tetrachloro-m-xylene	*58*		*10 - 123*

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 440-540570/6
Matrix: Water
Analysis Batch: 540570

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/16/19 08:47	1

Lab Sample ID: LCS 440-540570/5
Matrix: Water
Analysis Batch: 540570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	10.0	10.3		ug/L		103	85 - 115

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MRL 440-540570/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540570

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	1.00	1.11	J	ug/L		111	75 - 125

Lab Sample ID: MRL 440-540570/8 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540570

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	4.17		ug/L		104	75 - 125

Lab Sample ID: 440-238249-D-6 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540570

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	7.7	F1	10.0	19.9	F1	ug/L		122	80 - 120

Lab Sample ID: 440-238249-D-6 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540570

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	7.7	F1	10.0	18.9		ug/L		112	80 - 120	5	15

Lab Sample ID: MB 440-540639/38 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540639

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/17/19 00:32	1

Lab Sample ID: LCS 440-540639/39 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540639

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	25.0	21.9		ug/L		88	85 - 115

Lab Sample ID: MRL 440-540639/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540639

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	1.00	0.960	J	ug/L		96	75 - 125

Lab Sample ID: 440-238324-A-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540639

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	ND		25.0	25.2		ug/L		101	80 - 120

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: 440-238324-A-1 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540639

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	ND		25.0	25.4		ug/L		102	80 - 120	1	15

Lab Sample ID: MB 440-541105/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541105

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/18/19 09:15	1

Lab Sample ID: LCS 440-541105/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541105

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			10.0	10.1		ug/L		101	85 - 115		

Lab Sample ID: MRL 440-541105/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541105

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			1.00	1.16	J	ug/L		116	75 - 125		

Lab Sample ID: MRL 440-541105/8 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541105

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			4.00	4.27		ug/L		107	75 - 125		

Lab Sample ID: 440-238326-F-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541105

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate	ND		10.0	9.44		ug/L		94	80 - 120		

Lab Sample ID: 440-238326-F-1 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541105

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	ND		10.0	9.58		ug/L		96	80 - 120	2	15

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 440-539673/1-A
Matrix: Water
Analysis Batch: 539799

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 539673

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.10	ug/L		04/11/19 08:08	04/11/19 13:22	1
Barium	ND		0.20	0.10	ug/L		04/11/19 08:08	04/11/19 13:22	1
Cadmium	ND		0.10	0.050	ug/L		04/11/19 08:08	04/11/19 13:22	1
Chromium	ND		0.50	0.25	ug/L		04/11/19 08:08	04/11/19 13:22	1
Lead	ND		0.10	0.050	ug/L		04/11/19 08:08	04/11/19 13:22	1
Selenium	ND		0.60	0.30	ug/L		04/11/19 08:08	04/11/19 13:22	1
Silver	ND		0.20	0.10	ug/L		04/11/19 08:08	04/11/19 13:22	1
Uranium	ND		0.10	0.050	ug/L		04/11/19 08:08	04/11/19 13:22	1

Lab Sample ID: LCS 440-539673/2-A
Matrix: Water
Analysis Batch: 539799

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 539673

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	80.0	80.6		ug/L		101	80 - 120
Barium	80.0	81.4		ug/L		102	80 - 120
Cadmium	80.0	81.4		ug/L		102	80 - 120
Chromium	80.0	80.9		ug/L		101	80 - 120
Lead	80.0	79.2		ug/L		99	80 - 120
Selenium	80.0	78.0		ug/L		97	80 - 120
Silver	80.0	80.1		ug/L		100	80 - 120
Uranium	80.0	79.7		ug/L		100	80 - 120

Lab Sample ID: 440-238310-2 MS
Matrix: Water
Analysis Batch: 539799

Client Sample ID: PL-502-20190408
Prep Type: Total Recoverable
Prep Batch: 539673

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.10	J	80.0	81.6		ug/L		102	75 - 125
Barium	0.69		80.0	82.8		ug/L		103	75 - 125
Cadmium	0.10		80.0	81.8		ug/L		102	75 - 125
Chromium	0.82		80.0	82.1		ug/L		102	75 - 125
Lead	0.14		80.0	80.8		ug/L		101	75 - 125
Selenium	ND		80.0	78.5		ug/L		98	75 - 125
Silver	0.32		80.0	81.6		ug/L		102	75 - 125
Uranium	0.13		80.0	81.8		ug/L		102	75 - 125

Lab Sample ID: 440-238310-2 MSD
Matrix: Water
Analysis Batch: 539799

Client Sample ID: PL-502-20190408
Prep Type: Total Recoverable
Prep Batch: 539673

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.10	J	80.0	81.3		ug/L		102	75 - 125	0	20
Barium	0.69		80.0	81.8		ug/L		101	75 - 125	1	20
Cadmium	0.10		80.0	81.4		ug/L		102	75 - 125	0	20
Chromium	0.82		80.0	81.8		ug/L		101	75 - 125	0	20
Lead	0.14		80.0	79.8		ug/L		100	75 - 125	1	20
Selenium	ND		80.0	77.7		ug/L		97	75 - 125	1	20
Silver	0.32		80.0	81.1		ug/L		101	75 - 125	1	20

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 440-238310-2 MSD — **Client Sample ID: PL-502-20190408**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 539799 — **Prep Batch: 539673**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Uranium	0.13		80.0	81.0		ug/L		101	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 440-540529/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540896 — **Prep Batch: 540529**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/16/19 10:36	04/17/19 06:39	1

Lab Sample ID: LCS 440-540529/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540896 — **Prep Batch: 540529**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00800	0.00788		mg/L		99	80 - 120

Lab Sample ID: 440-238447-F-1-G MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540896 — **Prep Batch: 540529**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00800	0.000957	F1	mg/L		12	75 - 125

Lab Sample ID: 440-238447-F-1-H MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540896 — **Prep Batch: 540529**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00800	0.000607	F1 F2	mg/L		8	75 - 125	45	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 440-539974/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 539974

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			04/12/19 08:47	1

Lab Sample ID: LCS 440-539974/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 539974

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	998		mg/L		100	90 - 110

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 440-238310-5 DU
Matrix: Water
Analysis Batch: 539974

Client Sample ID: MC-113-20190408
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	17000			16900		mg/L				2	5

QC Association Summary

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

GC/MS VOA

Analysis Batch: 541078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238310-1	TB-20190408	Total/NA	Water	8260B	
440-238310-2	PL-502-20190408	Total/NA	Water	8260B	
440-238310-3	PL-503-20190408	Total/NA	Water	8260B	
440-238310-4	PL-504-20190408	Total/NA	Water	8260B	
440-238310-5	MC-113-20190408	Total/NA	Water	8260B	
440-238310-6	MC-114-20190408	Total/NA	Water	8260B	
440-238310-6 - DL	MC-114-20190408	Total/NA	Water	8260B	
440-238310-7	MC-53-20190408	Total/NA	Water	8260B	
440-238310-8	MC-47-20190408	Total/NA	Water	8260B	
440-238310-9	MC-48-20190408	Total/NA	Water	8260B	
MB 440-541078/4	Method Blank	Total/NA	Water	8260B	
LCS 440-541078/5	Lab Control Sample	Total/NA	Water	8260B	
440-238310-6 MS	MC-114-20190408	Total/NA	Water	8260B	
440-238310-6 MSD	MC-114-20190408	Total/NA	Water	8260B	

Analysis Batch: 541250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238310-1 - RA	TB-20190408	Total/NA	Water	8260B	
440-238310-10	MC-49-20190408	Total/NA	Water	8260B	
440-238310-10 - DL	MC-49-20190408	Total/NA	Water	8260B	
MB 440-541250/5	Method Blank	Total/NA	Water	8260B	
LCS 440-541250/6	Lab Control Sample	Total/NA	Water	8260B	
440-238127-A-13 MS	Matrix Spike	Total/NA	Water	8260B	
440-238127-A-13 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 539449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238310-2	PL-502-20190408	Total/NA	Water	3510C	
440-238310-3	PL-503-20190408	Total/NA	Water	3510C	
440-238310-5	MC-113-20190408	Total/NA	Water	3510C	
440-238310-5 - DL	MC-113-20190408	Total/NA	Water	3510C	
440-238310-6	MC-114-20190408	Total/NA	Water	3510C	
440-238310-6 - DL	MC-114-20190408	Total/NA	Water	3510C	
440-238310-7	MC-53-20190408	Total/NA	Water	3510C	
440-238310-8	MC-47-20190408	Total/NA	Water	3510C	
440-238310-9	MC-48-20190408	Total/NA	Water	3510C	
440-238310-9 - DL	MC-48-20190408	Total/NA	Water	3510C	
440-238310-10	MC-49-20190408	Total/NA	Water	3510C	
440-238310-10 - DL	MC-49-20190408	Total/NA	Water	3510C	
MB 440-539449/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-539449/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-539449/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 539476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238310-2	PL-502-20190408	Total/NA	Water	8081A	539449
440-238310-3	PL-503-20190408	Total/NA	Water	8081A	539449
440-238310-5	MC-113-20190408	Total/NA	Water	8081A	539449
440-238310-6	MC-114-20190408	Total/NA	Water	8081A	539449

GC Semi VOA (Continued)

Analysis Batch: 539476 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238310-7	MC-53-20190408	Total/NA	Water	8081A	539449
440-238310-8	MC-47-20190408	Total/NA	Water	8081A	539449
440-238310-9	MC-48-20190408	Total/NA	Water	8081A	539449
440-238310-10	MC-49-20190408	Total/NA	Water	8081A	539449
MB 440-539449/1-A	Method Blank	Total/NA	Water	8081A	539449
LCS 440-539449/2-A	Lab Control Sample	Total/NA	Water	8081A	539449
LCSD 440-539449/3-A	Lab Control Sample Dup	Total/NA	Water	8081A	539449

Analysis Batch: 539700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238310-5 - DL	MC-113-20190408	Total/NA	Water	8081A	539449
440-238310-6 - DL	MC-114-20190408	Total/NA	Water	8081A	539449
440-238310-9 - DL	MC-48-20190408	Total/NA	Water	8081A	539449
440-238310-10 - DL	MC-49-20190408	Total/NA	Water	8081A	539449

HPLC/IC

Analysis Batch: 540570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238310-2	PL-502-20190408	Total/NA	Water	314.0	
440-238310-3	PL-503-20190408	Total/NA	Water	314.0	
440-238310-5	MC-113-20190408	Total/NA	Water	314.0	
440-238310-7	MC-53-20190408	Total/NA	Water	314.0	
440-238310-10	MC-49-20190408	Total/NA	Water	314.0	
MB 440-540570/6	Method Blank	Total/NA	Water	314.0	
LCS 440-540570/5	Lab Control Sample	Total/NA	Water	314.0	
MRL 440-540570/4	Lab Control Sample	Total/NA	Water	314.0	
MRL 440-540570/8	Lab Control Sample	Total/NA	Water	314.0	
440-238249-D-6 MS	Matrix Spike	Total/NA	Water	314.0	
440-238249-D-6 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0	

Analysis Batch: 540639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238310-8	MC-47-20190408	Total/NA	Water	314.0	
MB 440-540639/38	Method Blank	Total/NA	Water	314.0	
LCS 440-540639/39	Lab Control Sample	Total/NA	Water	314.0	
MRL 440-540639/4	Lab Control Sample	Total/NA	Water	314.0	
440-238324-A-1 MS	Matrix Spike	Total/NA	Water	314.0	
440-238324-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0	

Analysis Batch: 541105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238310-6	MC-114-20190408	Total/NA	Water	314.0	
440-238310-9	MC-48-20190408	Total/NA	Water	314.0	
MB 440-541105/6	Method Blank	Total/NA	Water	314.0	
LCS 440-541105/5	Lab Control Sample	Total/NA	Water	314.0	
MRL 440-541105/4	Lab Control Sample	Total/NA	Water	314.0	
MRL 440-541105/8	Lab Control Sample	Total/NA	Water	314.0	
440-238326-F-1 MS	Matrix Spike	Total/NA	Water	314.0	
440-238326-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0	

QC Association Summary

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Metals

Prep Batch: 539673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238310-2	PL-502-20190408	Total Recoverable	Water	3005A	
440-238310-3	PL-503-20190408	Total Recoverable	Water	3005A	
440-238310-5	MC-113-20190408	Total Recoverable	Water	3005A	
440-238310-6	MC-114-20190408	Total Recoverable	Water	3005A	
440-238310-7	MC-53-20190408	Total Recoverable	Water	3005A	
440-238310-8	MC-47-20190408	Total Recoverable	Water	3005A	
440-238310-9	MC-48-20190408	Total Recoverable	Water	3005A	
440-238310-10	MC-49-20190408	Total Recoverable	Water	3005A	
MB 440-539673/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-539673/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-238310-2 MS	PL-502-20190408	Total Recoverable	Water	3005A	
440-238310-2 MSD	PL-502-20190408	Total Recoverable	Water	3005A	

Analysis Batch: 539799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238310-2	PL-502-20190408	Total Recoverable	Water	6020	539673
440-238310-3	PL-503-20190408	Total Recoverable	Water	6020	539673
440-238310-5	MC-113-20190408	Total Recoverable	Water	6020	539673
440-238310-6	MC-114-20190408	Total Recoverable	Water	6020	539673
440-238310-7	MC-53-20190408	Total Recoverable	Water	6020	539673
440-238310-8	MC-47-20190408	Total Recoverable	Water	6020	539673
440-238310-9	MC-48-20190408	Total Recoverable	Water	6020	539673
440-238310-10	MC-49-20190408	Total Recoverable	Water	6020	539673
MB 440-539673/1-A	Method Blank	Total Recoverable	Water	6020	539673
LCS 440-539673/2-A	Lab Control Sample	Total Recoverable	Water	6020	539673
440-238310-2 MS	PL-502-20190408	Total Recoverable	Water	6020	539673
440-238310-2 MSD	PL-502-20190408	Total Recoverable	Water	6020	539673

Prep Batch: 540529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238310-2	PL-502-20190408	Total/NA	Water	7470A	
440-238310-3	PL-503-20190408	Total/NA	Water	7470A	
440-238310-5	MC-113-20190408	Total/NA	Water	7470A	
440-238310-6	MC-114-20190408	Total/NA	Water	7470A	
440-238310-7	MC-53-20190408	Total/NA	Water	7470A	
440-238310-8	MC-47-20190408	Total/NA	Water	7470A	
440-238310-9	MC-48-20190408	Total/NA	Water	7470A	
440-238310-10	MC-49-20190408	Total/NA	Water	7470A	
MB 440-540529/1-A	Method Blank	Total/NA	Water	7470A	
LCS 440-540529/2-A	Lab Control Sample	Total/NA	Water	7470A	
440-238447-F-1-G MS	Matrix Spike	Total/NA	Water	7470A	
440-238447-F-1-H MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 540896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238310-2	PL-502-20190408	Total/NA	Water	7470A	540529
440-238310-3	PL-503-20190408	Total/NA	Water	7470A	540529
440-238310-5	MC-113-20190408	Total/NA	Water	7470A	540529
440-238310-6	MC-114-20190408	Total/NA	Water	7470A	540529
440-238310-7	MC-53-20190408	Total/NA	Water	7470A	540529
440-238310-8	MC-47-20190408	Total/NA	Water	7470A	540529

Metals (Continued)

Analysis Batch: 540896 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238310-9	MC-48-20190408	Total/NA	Water	7470A	540529
440-238310-10	MC-49-20190408	Total/NA	Water	7470A	540529
MB 440-540529/1-A	Method Blank	Total/NA	Water	7470A	540529
LCS 440-540529/2-A	Lab Control Sample	Total/NA	Water	7470A	540529
440-238447-F-1-G MS	Matrix Spike	Total/NA	Water	7470A	540529
440-238447-F-1-H MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	540529

General Chemistry

Analysis Batch: 539974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238310-2	PL-502-20190408	Total/NA	Water	SM 2540C	
440-238310-3	PL-503-20190408	Total/NA	Water	SM 2540C	
440-238310-5	MC-113-20190408	Total/NA	Water	SM 2540C	
440-238310-6	MC-114-20190408	Total/NA	Water	SM 2540C	
440-238310-7	MC-53-20190408	Total/NA	Water	SM 2540C	
440-238310-8	MC-47-20190408	Total/NA	Water	SM 2540C	
440-238310-9	MC-48-20190408	Total/NA	Water	SM 2540C	
440-238310-10	MC-49-20190408	Total/NA	Water	SM 2540C	
MB 440-539974/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-539974/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-238310-5 DU	MC-113-20190408	Total/NA	Water	SM 2540C	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238310-1
SDG: Henderson, NV

Laboratory: Eurofins TestAmerica, Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Nevada	State Program	9	CA015312018-1	07-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8081A	3510C	Water	2,4'-DDD
8081A	3510C	Water	2,4'-DDE
8081A	3510C	Water	2,4'-DDT
8081A	3510C	Water	4,4'-DDD
8081A	3510C	Water	4,4'-DDE
8081A	3510C	Water	4,4'-DDT
8081A	3510C	Water	Aldrin
8081A	3510C	Water	alpha-BHC
8081A	3510C	Water	beta-BHC
8081A	3510C	Water	Chlordane
8081A	3510C	Water	delta-BHC
8081A	3510C	Water	Dieldrin
8081A	3510C	Water	Endosulfan I
8081A	3510C	Water	Endosulfan II
8081A	3510C	Water	Endosulfan sulfate
8081A	3510C	Water	Endrin
8081A	3510C	Water	Endrin aldehyde
8081A	3510C	Water	Endrin ketone
8081A	3510C	Water	gamma-BHC (Lindane)
8081A	3510C	Water	Heptachlor
8081A	3510C	Water	Heptachlor epoxide
8081A	3510C	Water	Methoxychlor
8081A	3510C	Water	Toxaphene
8260B		Water	Dimethyl disulfide

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone 949.261.1022 fax 949.260.3299

TestAmerica
Las Vegas
219

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Nicole Bradley, Dean Charles	Site Contact: Kevin Paprocki	Date: 4/8/2019	COC No:
de maximis, Inc	Tel/Fax: 619-546-8377	Lab Contact: Danielle Roberts	Carrier:	____ of ____ COCs
1322 Scott St., Suite 101	Analysis Turnaround Time			Job No. **3200B**
San Diego, CA 92106	Calendar (C) or Work Days (W)___ W___			SDG No.
(619) 546-8377 Phone	TAT if different from Below_____			
(619) 546-9980 Fax	☒ 2 weeks			
Project Name: **3200B Henderson Transect**	☐ 1 week			
Site: Henderson, NV	☐ 2 days			
PO#	☐ 1 day			

Sample Identification	Container Type	Sample Date	Sample Time	Preservation Type	Matrix	# of Containers	8260B-HEND-Qtrly	8081A – Pesticides	RCRA 8 Metals + Uranium - 7470A & 6020	TDS – SM2540C	Perchlorate 314.0				VOC concentration > 500 ppb	MS/MSD REQUIRED	LEVEL 2A REQUIRED	Sample Specific Notes:
TB-20190408	VOA	4/8/2019	0700	4°C	AQ	2	X										X	
PL-502-20190408	Various	4/8/2019	0900	4°C	AQ	8	X	X	X	X	X						X	
PL-503-20190408	Various	4/8/2019	0915	4°C	AQ	8	X	X	X	X	X						X	
PL-504-20190408	VOA	4/8/2019	1335	4°C	AQ	3	X										X	
MC-113-20190408	Various	4/8/2019	1034	4°C	AQ	8	X	X	X	X	X						X	
MC-114-20190408	Various	4/8/2019	1145	4°C	AQ	8	X	X	X	X	X						X	
MC-53-20190408	Various	4/8/2019	1400	4°C	AQ	8	X	X	X	X	X						X	
MC-47-20190408	Various	4/8/2019	1045	4°C	AQ	8	X	X	X	X	X						X	
MC-48-20190408	Various	4/8/2019	1202	4°C	AQ	8	X	X	X	X	X						X	
MC-49-20190408	Various	4/8/2019	1335	4°C	AQ	8	X	X	X	X	X						X	

440-238310 Chain of Custody

DB 4/9/19

[1] I attest to the validity and authenticity of this (these) sample(s) I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445 0636)
Signature_____ Date

Preservation Used: 1= Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other_____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return to Client* ☐ Disposal by Lab Archive For _____ Months 20/20

Special Instructions/QC Requirements & Comments:

Sample Int (circle one)
Intact: Y / N on ice: Y / N 21/21 IR-88
temperature: 24/24

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Converse	4/8/19 1500	[signature]	TALVS	4-8-19 1500
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
			[signature]	TALVS	4/9/19 0815

c/s 4766 5637 0098

TALVS IR-96
12 96

18.1 / 18.4

Login Sample Receipt Checklist

Client: de maximis, inc.

Job Number: 440-238310-2
SDG Number: Henderson, NV

Login Number: 238310
List Number: 1
Creator: Bonta, Lucia F

List Source: Eurofins TestAmerica, Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	Refer to Job Narrative for details.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

Laboratory Job ID: 440-238444-1
Laboratory Sample Delivery Group: Henderson NV
Client Project/Site: 3200C Henderson Sitewide

For:
de maximis, inc.
1322 Scott Street, Suite 104
San Diego, California 92106

Attn: Nicole Bradley

Authorized for release by:
5/2/2019 2:34:41 PM

Danielle Roberts, Senior Project Manager
(949)260-3249
danielle.roberts@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 6
Client Sample Results 10
Surrogate Summary 29
Method Summary 30
Lab Chronicle 31
QC Sample Results 34
QC Association Summary 53
Definitions/Glossary 56
Certification Summary 57
Chain of Custody 58
Receipt Checklists 59

Sample Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-238444-1	TB-20190409	Water	04/09/19 07:00	04/10/19 10:15
440-238444-2	PL-505-20190409	Water	04/09/19 10:25	04/10/19 10:15
440-238444-3	PL-506-20190409	Water	04/09/19 09:05	04/10/19 10:15
440-238444-4	MW-R-20190409	Water	04/09/19 13:00	04/10/19 10:15
440-238444-5	PC-028-20190409	Water	04/09/19 10:30	04/10/19 10:15
440-238444-6	PC-031-20190409	Water	04/09/19 08:35	04/10/19 10:15
440-238444-7	MW-A-J-20190409	Water	04/09/19 13:05	04/10/19 10:15
440-238444-8	PC-064-20190409	Water	04/09/19 10:48	04/10/19 10:15

Job ID: 440-238444-1

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative
440-238444-1

Comments
No additional comments.

Receipt
The samples were received on 4/10/2019 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.7º C, 2.3º C and 4.6º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-539643 and analytical batch 440-540074 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of 4: MW-A-J-20190409 (440-238444-7). The sample(s) was preserved to the appropriate pH in the laboratory.

1.0mL HNO3 added 4/12/19 @7:05
HNO3 lot#0000216908

Method(s) 6020: The following samples were diluted due to the nature of the sample matrix: MW-R-20190409 (440-238444-4), PC-028-20190409 (440-238444-5), PC-031-20190409 (440-238444-6) and PC-064-20190409 (440-238444-8). Elevated reporting limits (RLs) are provided.

Method(s) 6020: The post digestion spike % recovery for Barium associated with batch 440-540518 was outside of control limits. The following sample is impacted: (440-238444-H-7-D PDS ^10).

Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-540321 and analytical batch 440-540518 were outside control limits for Barium. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6020: The following sample was diluted due to the nature of the sample matrix: MW-A-J-20190409 (440-238444-7). Elevated reporting limits (RLs) are provided.

Method(s) 6020: The method blank for preparation batch 440-540321 and analytical batch 440-540518 contained Barium and Chromium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 440-238444-1 (Continued)

Laboratory: Eurofins TestAmerica, Irvine (Continued)

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 440-238444-2

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative
440-238444-2

Comments
No additional comments.

Receipt
The samples were received on 4/10/2019 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.7º C, 2.3º C and 4.6º C.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Client Sample ID: TB-20190409 — Lab Sample ID: 440-238444-1

No Detections.

Client Sample ID: PL-505-20190409 — Lab Sample ID: 440-238444-2

No Detections.

Client Sample ID: PL-506-20190409 — Lab Sample ID: 440-238444-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.3	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,2,3-Trichlorobenzene	0.86	J	5.0	0.40	ug/L	1		8260B	Total/NA
1,2,4-Trichlorobenzene	7.1		5.0	0.40	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	5.9		2.0	0.25	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	0.37	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,3-Dichlorobenzene	0.44	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	8.7		2.0	0.25	ug/L	1		8260B	Total/NA
Chlorobenzene	0.44	J	2.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	0.66	J	2.0	0.25	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.26	J	2.0	0.25	ug/L	1		8260B	Total/NA
alpha-BHC	0.16		0.0048	0.0024	ug/L	1		8081A	Total/NA
delta-BHC	0.38		0.19	0.0033	ug/L	1		8081A	Total/NA
beta-BHC - DL	3.4		0.048	0.019	ug/L	5		8081A	Total/NA
Perchlorate	37000		4000	950	ug/L	1000		314.0	Total/NA
Arsenic	86		0.20	0.10	ug/L	1		6020	Total Recoverable
Barium	160		0.20	0.10	ug/L	1		6020	Total Recoverable
Cadmium	0.27		0.10	0.050	ug/L	1		6020	Total Recoverable
Chromium	16		0.50	0.25	ug/L	1		6020	Total Recoverable
Lead	3.6		0.10	0.050	ug/L	1		6020	Total Recoverable
Selenium	3.4		0.60	0.30	ug/L	1		6020	Total Recoverable
Uranium	19		0.10	0.050	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	4100		100	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-R-20190409 — Lab Sample ID: 440-238444-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	0.79	J	5.0	0.40	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	0.28	J	2.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	0.31	J	2.0	0.25	ug/L	1		8260B	Total/NA
alpha-BHC	0.085		0.0051	0.0025	ug/L	1		8081A	Total/NA
beta-BHC	1.0		0.010	0.0040	ug/L	1		8081A	Total/NA
delta-BHC	0.40		0.20	0.0035	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.0046	J p	0.10	0.0030	ug/L	1		8081A	Total/NA
Perchlorate	56000		4000	950	ug/L	1000		314.0	Total/NA
Arsenic	89		1.0	0.50	ug/L	5		6020	Total Recoverable
Barium	38		1.0	0.50	ug/L	5		6020	Total Recoverable
Chromium	1.4	J	2.5	1.3	ug/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Client Sample ID: MW-R-20190409 (Continued) — Lab Sample ID: 440-238444-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.57		0.50	0.25	ug/L	5		6020	Total Recoverable
Selenium	6.7		3.0	1.5	ug/L	5		6020	Total Recoverable
Uranium	21		0.50	0.25	ug/L	5		6020	Total Recoverable
Total Dissolved Solids	3800		50	25	mg/L	1		SM 2540C	Total/NA

Client Sample ID: PC-028-20190409 — Lab Sample ID: 440-238444-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	1.2		1.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	51		2.0	0.25	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.52	J	2.0	0.25	ug/L	1		8260B	Total/NA
Perchlorate	140000		40000	9500	ug/L	10000		314.0	Total/NA
Arsenic	190		1.0	0.50	ug/L	5		6020	Total Recoverable
Barium	15		1.0	0.50	ug/L	5		6020	Total Recoverable
Chromium	280		2.5	1.3	ug/L	5		6020	Total Recoverable
Lead	0.36	J	0.50	0.25	ug/L	5		6020	Total Recoverable
Selenium	6.1		3.0	1.5	ug/L	5		6020	Total Recoverable
Uranium	75		0.50	0.25	ug/L	5		6020	Total Recoverable
Total Dissolved Solids	4700		50	25	mg/L	1		SM 2540C	Total/NA

Client Sample ID: PC-031-20190409 — Lab Sample ID: 440-238444-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.2	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,2,3-Trichlorobenzene	0.86	J	5.0	0.40	ug/L	1		8260B	Total/NA
1,2,4-Trichlorobenzene	6.9		5.0	0.40	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	5.8		2.0	0.25	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	0.41	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,3-Dichlorobenzene	0.49	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	9.2		2.0	0.25	ug/L	1		8260B	Total/NA
Chlorobenzene	0.39	J	2.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	0.68	J	2.0	0.25	ug/L	1		8260B	Total/NA
alpha-BHC	0.16		0.0048	0.0024	ug/L	1		8081A	Total/NA
delta-BHC	0.38		0.19	0.0033	ug/L	1		8081A	Total/NA
beta-BHC - DL	3.8		0.095	0.038	ug/L	10		8081A	Total/NA
Perchlorate	37000		4000	950	ug/L	1000		314.0	Total/NA
Arsenic	91		2.0	1.0	ug/L	10		6020	Total Recoverable
Barium	190		2.0	1.0	ug/L	10		6020	Total Recoverable
Chromium	22		5.0	2.5	ug/L	10		6020	Total Recoverable
Lead	4.3		1.0	0.50	ug/L	10		6020	Total Recoverable
Selenium	3.1	J	6.0	3.0	ug/L	10		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Client Sample ID: PC-031-20190409 (Continued) — Lab Sample ID: 440-238444-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Uranium	20		1.0	0.50	ug/L	10		6020	Total Recoverable
Total Dissolved Solids	4100		100	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-A-J-20190409 — Lab Sample ID: 440-238444-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.74	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,2,3-Trichlorobenzene	0.83	J	5.0	0.40	ug/L	1		8260B	Total/NA
1,2,4-Trichlorobenzene	2.1	J	5.0	0.40	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	0.99	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	1.3	J	2.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	0.58	J	2.0	0.25	ug/L	1		8260B	Total/NA
alpha-BHC	0.21		0.0048	0.0024	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.0063	J p	0.096	0.0029	ug/L	1		8081A	Total/NA
beta-BHC - DL	1.0		0.019	0.0077	ug/L	2		8081A	Total/NA
delta-BHC - DL	0.96		0.38	0.0067	ug/L	2		8081A	Total/NA
Perchlorate	56000		4000	950	ug/L	1000		314.0	Total/NA
Arsenic	87		2.0	1.0	ug/L	10		6020	Total Recoverable
Barium	91	F1 B	2.0	1.0	ug/L	10		6020	Total Recoverable
Cadmium	1.2		1.0	0.50	ug/L	10		6020	Total Recoverable
Chromium	19	B	5.0	2.5	ug/L	10		6020	Total Recoverable
Lead	9.5		1.0	0.50	ug/L	10		6020	Total Recoverable
Selenium	10		6.0	3.0	ug/L	10		6020	Total Recoverable
Uranium	33		1.0	0.50	ug/L	10		6020	Total Recoverable
Total Dissolved Solids	4100		100	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: PC-064-20190409 — Lab Sample ID: 440-238444-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	1.1	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,3-Dichlorobenzene	2.2		2.0	0.25	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	0.85	J	2.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	1.4	J	2.0	0.25	ug/L	1		8260B	Total/NA
Tetrachloroethene	1.2	J	2.0	0.25	ug/L	1		8260B	Total/NA
Trichloroethene	0.50	J	2.0	0.25	ug/L	1		8260B	Total/NA
alpha-BHC	0.013		0.0050	0.0025	ug/L	1		8081A	Total/NA
delta-BHC	0.0068	J p	0.20	0.0035	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.0046	J	0.099	0.0030	ug/L	1		8081A	Total/NA
Perchlorate	320000		40000	9500	ug/L	10000		314.0	Total/NA
Arsenic	240		2.0	1.0	ug/L	10		6020	Total Recoverable
Barium	22		2.0	1.0	ug/L	10		6020	Total Recoverable
Chromium	700		5.0	2.5	ug/L	10		6020	Total Recoverable
Selenium	12		6.0	3.0	ug/L	10		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Client Sample ID: PC-064-20190409 (Continued) — Lab Sample ID: 440-238444-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Uranium	64		1.0	0.50	ug/L	10		6020	Total Recoverable
Total Dissolved Solids	6900		100	50	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Client Sample ID: TB-20190409

Date Collected: 04/09/19 07:00
Date Received: 04/10/19 10:15

Lab Sample ID: 440-238444-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/19/19 04:06	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/19/19 04:06	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/19/19 04:06	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/19/19 04:06	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/19/19 04:06	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/19/19 04:06	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 04:06	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/19/19 04:06	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/19/19 04:06	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/19/19 04:06	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/19/19 04:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/19/19 04:06	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/19/19 04:06	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/19/19 04:06	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/19/19 04:06	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/19/19 04:06	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/19/19 04:06	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/19/19 04:06	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/19/19 04:06	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/19/19 04:06	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/19/19 04:06	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/19/19 04:06	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/19/19 04:06	1
Benzene	ND		2.0	0.25	ug/L			04/19/19 04:06	1
Bromobenzene	ND		5.0	0.25	ug/L			04/19/19 04:06	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/19/19 04:06	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/19/19 04:06	1
Bromoform	ND		5.0	0.40	ug/L			04/19/19 04:06	1
Bromomethane	ND		5.0	0.25	ug/L			04/19/19 04:06	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/19/19 04:06	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/19/19 04:06	1
Chloroethane	ND		5.0	0.40	ug/L			04/19/19 04:06	1
Chloroform	ND		2.0	0.25	ug/L			04/19/19 04:06	1
Chloromethane	ND		5.0	0.25	ug/L			04/19/19 04:06	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/19/19 04:06	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 04:06	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/19/19 04:06	1
Dibromomethane	ND		2.0	0.25	ug/L			04/19/19 04:06	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/19/19 04:06	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/19/19 04:06	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/19/19 04:06	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/19/19 04:06	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/19/19 04:06	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/19/19 04:06	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/19/19 04:06	1
Naphthalene	ND		5.0	0.40	ug/L			04/19/19 04:06	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/19/19 04:06	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/19/19 04:06	1
o-Xylene	ND		2.0	0.25	ug/L			04/19/19 04:06	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Client Sample ID: TB-20190409

Lab Sample ID: 440-238444-1

Date Collected: 04/09/19 07:00
Matrix: Water
Date Received: 04/10/19 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/19/19 04:06	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/19/19 04:06	1
Styrene	ND		2.0	0.25	ug/L			04/19/19 04:06	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/19/19 04:06	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/19/19 04:06	1
Toluene	ND		2.0	0.25	ug/L			04/19/19 04:06	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/19/19 04:06	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 04:06	1
Trichloroethene	ND		2.0	0.25	ug/L			04/19/19 04:06	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/19/19 04:06	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/19/19 04:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*04/19/19 04:06*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*04/19/19 04:06*	*1*
Dibromofluoromethane (Surr)	*97*		*76 - 132*		*04/19/19 04:06*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*04/19/19 04:06*	*1*

Client Sample ID: PL-505-20190409

Lab Sample ID: 440-238444-2

Date Collected: 04/09/19 10:25
Matrix: Water
Date Received: 04/10/19 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/19/19 04:31	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/19/19 04:31	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/19/19 04:31	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/19/19 04:31	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/19/19 04:31	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/19/19 04:31	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 04:31	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/19/19 04:31	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/19/19 04:31	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/19/19 04:31	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/19/19 04:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/19/19 04:31	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/19/19 04:31	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/19/19 04:31	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/19/19 04:31	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/19/19 04:31	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/19/19 04:31	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/19/19 04:31	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/19/19 04:31	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/19/19 04:31	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/19/19 04:31	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/19/19 04:31	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/19/19 04:31	1
Benzene	ND		2.0	0.25	ug/L			04/19/19 04:31	1
Bromobenzene	ND		5.0	0.25	ug/L			04/19/19 04:31	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/19/19 04:31	1

Client Sample ID: PL-505-20190409

Lab Sample ID: 440-238444-2

Date Collected: 04/09/19 10:25
Matrix: Water
Date Received: 04/10/19 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		2.0	0.25	ug/L			04/19/19 04:31	1
Bromoform	ND		5.0	0.40	ug/L			04/19/19 04:31	1
Bromomethane	ND		5.0	0.25	ug/L			04/19/19 04:31	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/19/19 04:31	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/19/19 04:31	1
Chloroethane	ND		5.0	0.40	ug/L			04/19/19 04:31	1
Chloroform	ND		2.0	0.25	ug/L			04/19/19 04:31	1
Chloromethane	ND		5.0	0.25	ug/L			04/19/19 04:31	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/19/19 04:31	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 04:31	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/19/19 04:31	1
Dibromomethane	ND		2.0	0.25	ug/L			04/19/19 04:31	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/19/19 04:31	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/19/19 04:31	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/19/19 04:31	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/19/19 04:31	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/19/19 04:31	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/19/19 04:31	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/19/19 04:31	1
Naphthalene	ND		5.0	0.40	ug/L			04/19/19 04:31	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/19/19 04:31	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/19/19 04:31	1
o-Xylene	ND		2.0	0.25	ug/L			04/19/19 04:31	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/19/19 04:31	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/19/19 04:31	1
Styrene	ND		2.0	0.25	ug/L			04/19/19 04:31	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/19/19 04:31	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/19/19 04:31	1
Toluene	ND		2.0	0.25	ug/L			04/19/19 04:31	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/19/19 04:31	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 04:31	1
Trichloroethene	ND		2.0	0.25	ug/L			04/19/19 04:31	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/19/19 04:31	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/19/19 04:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*04/19/19 04:31*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*04/19/19 04:31*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*04/19/19 04:31*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*04/19/19 04:31*	*1*

Client Sample ID: PL-506-20190409

Lab Sample ID: 440-238444-3

Date Collected: 04/09/19 09:05
Matrix: Water
Date Received: 04/10/19 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/19/19 04:55	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/19/19 04:55	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/19/19 04:55	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Client Sample ID: PL-506-20190409

Date Collected: 04/09/19 09:05
Date Received: 04/10/19 10:15

Lab Sample ID: 440-238444-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/19/19 04:55	1
1,1-Dichloroethane	**1.3**	**J**	2.0	0.25	ug/L			04/19/19 04:55	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/19/19 04:55	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 04:55	1
1,2,3-Trichlorobenzene	**0.86**	**J**	5.0	0.40	ug/L			04/19/19 04:55	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/19/19 04:55	1
1,2,4-Trichlorobenzene	**7.1**		5.0	0.40	ug/L			04/19/19 04:55	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/19/19 04:55	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/19/19 04:55	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/19/19 04:55	1
1,2-Dichlorobenzene	**5.9**		2.0	0.25	ug/L			04/19/19 04:55	1
1,2-Dichloroethane	**0.37**	**J**	2.0	0.25	ug/L			04/19/19 04:55	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/19/19 04:55	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/19/19 04:55	1
1,3-Dichlorobenzene	**0.44**	**J**	2.0	0.25	ug/L			04/19/19 04:55	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/19/19 04:55	1
1,4-Dichlorobenzene	**8.7**		2.0	0.25	ug/L			04/19/19 04:55	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/19/19 04:55	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/19/19 04:55	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/19/19 04:55	1
Benzene	ND		2.0	0.25	ug/L			04/19/19 04:55	1
Bromobenzene	ND		5.0	0.25	ug/L			04/19/19 04:55	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/19/19 04:55	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/19/19 04:55	1
Bromoform	ND		5.0	0.40	ug/L			04/19/19 04:55	1
Bromomethane	ND		5.0	0.25	ug/L			04/19/19 04:55	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/19/19 04:55	1
Chlorobenzene	**0.44**	**J**	2.0	0.25	ug/L			04/19/19 04:55	1
Chloroethane	ND		5.0	0.40	ug/L			04/19/19 04:55	1
Chloroform	**0.66**	**J**	2.0	0.25	ug/L			04/19/19 04:55	1
Chloromethane	ND		5.0	0.25	ug/L			04/19/19 04:55	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/19/19 04:55	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 04:55	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/19/19 04:55	1
Dibromomethane	ND		2.0	0.25	ug/L			04/19/19 04:55	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/19/19 04:55	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/19/19 04:55	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/19/19 04:55	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/19/19 04:55	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/19/19 04:55	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/19/19 04:55	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/19/19 04:55	1
Naphthalene	ND		5.0	0.40	ug/L			04/19/19 04:55	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/19/19 04:55	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/19/19 04:55	1
o-Xylene	ND		2.0	0.25	ug/L			04/19/19 04:55	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/19/19 04:55	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/19/19 04:55	1
Styrene	ND		2.0	0.25	ug/L			04/19/19 04:55	1

Client Sample ID: PL-506-20190409

Lab Sample ID: 440-238444-3

Date Collected: 04/09/19 09:05
Matrix: Water
Date Received: 04/10/19 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/19/19 04:55	1
Tetrachloroethene	**0.26**	**J**	2.0	0.25	ug/L			04/19/19 04:55	1
Toluene	ND		2.0	0.25	ug/L			04/19/19 04:55	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/19/19 04:55	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 04:55	1
Trichloroethene	ND		2.0	0.25	ug/L			04/19/19 04:55	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/19/19 04:55	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/19/19 04:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*04/19/19 04:55*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*04/19/19 04:55*	*1*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*04/19/19 04:55*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*04/19/19 04:55*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.095	0.019	ug/L		04/11/19 05:47	04/12/19 19:15	1
2,4'-DDE	ND		0.095	0.019	ug/L		04/11/19 05:47	04/12/19 19:15	1
2,4'-DDT	ND		0.095	0.019	ug/L		04/11/19 05:47	04/12/19 19:15	1
4,4'-DDD	ND		0.095	0.0038	ug/L		04/11/19 05:47	04/12/19 19:15	1
4,4'-DDE	ND		0.095	0.0029	ug/L		04/11/19 05:47	04/12/19 19:15	1
4,4'-DDT	ND		0.095	0.0038	ug/L		04/11/19 05:47	04/12/19 19:15	1
Aldrin	ND		0.0048	0.0014	ug/L		04/11/19 05:47	04/12/19 19:15	1
alpha-BHC	**0.16**		0.0048	0.0024	ug/L		04/11/19 05:47	04/12/19 19:15	1
Chlordane	ND		0.095	0.076	ug/L		04/11/19 05:47	04/12/19 19:15	1
delta-BHC	**0.38**		0.19	0.0033	ug/L		04/11/19 05:47	04/12/19 19:15	1
Dieldrin	ND		0.0048	0.0019	ug/L		04/11/19 05:47	04/12/19 19:15	1
Endosulfan I	ND		0.095	0.0029	ug/L		04/11/19 05:47	04/12/19 19:15	1
Endosulfan II	ND		0.095	0.0019	ug/L		04/11/19 05:47	04/12/19 19:15	1
Endosulfan sulfate	ND		0.19	0.0029	ug/L		04/11/19 05:47	04/12/19 19:15	1
Endrin	ND		0.095	0.0019	ug/L		04/11/19 05:47	04/12/19 19:15	1
Endrin aldehyde	ND		0.095	0.0019	ug/L		04/11/19 05:47	04/12/19 19:15	1
Endrin ketone	ND		0.095	0.0067	ug/L		04/11/19 05:47	04/12/19 19:15	1
gamma-BHC (Lindane)	ND		0.095	0.0029	ug/L		04/11/19 05:47	04/12/19 19:15	1
Heptachlor	ND		0.0095	0.0029	ug/L		04/11/19 05:47	04/12/19 19:15	1
Heptachlor epoxide	ND		0.0048	0.0024	ug/L		04/11/19 05:47	04/12/19 19:15	1
Methoxychlor	ND		0.095	0.0033	ug/L		04/11/19 05:47	04/12/19 19:15	1
Toxaphene	ND		4.8	0.24	ug/L		04/11/19 05:47	04/12/19 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*66*		*28 - 108*	*04/11/19 05:47*	*04/12/19 19:15*	*1*
Tetrachloro-m-xylene	*45*		*10 - 123*	*04/11/19 05:47*	*04/12/19 19:15*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	**3.4**		0.048	0.019	ug/L		04/11/19 05:47	04/12/19 19:41	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*56*		*28 - 108*	*04/11/19 05:47*	*04/12/19 19:41*	*5*
Tetrachloro-m-xylene	*41*		*10 - 123*	*04/11/19 05:47*	*04/12/19 19:41*	*5*

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Client Sample ID: PL-506-20190409

Lab Sample ID: 440-238444-3
Matrix: Water
Date Collected: 04/09/19 09:05
Date Received: 04/10/19 10:15

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**37000**		4000	950	ug/L			04/23/19 15:56	1000

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**86**		0.20	0.10	ug/L		04/12/19 08:13	04/12/19 14:36	1
Barium	**160**		0.20	0.10	ug/L		04/12/19 08:13	04/12/19 14:36	1
Cadmium	**0.27**		0.10	0.050	ug/L		04/12/19 08:13	04/12/19 14:36	1
Chromium	**16**		0.50	0.25	ug/L		04/12/19 08:13	04/12/19 14:36	1
Lead	**3.6**		0.10	0.050	ug/L		04/12/19 08:13	04/12/19 14:36	1
Selenium	**3.4**		0.60	0.30	ug/L		04/12/19 08:13	04/12/19 14:36	1
Silver	ND		0.20	0.10	ug/L		04/12/19 08:13	04/12/19 14:36	1
Uranium	**19**		0.10	0.050	ug/L		04/12/19 08:13	04/12/19 14:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/26/19 09:00	04/26/19 14:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**4100**		100	50	mg/L			04/15/19 08:40	1

Client Sample ID: MW-R-20190409

Lab Sample ID: 440-238444-4
Matrix: Water
Date Collected: 04/09/19 13:00
Date Received: 04/10/19 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/19/19 05:19	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/19/19 05:19	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/19/19 05:19	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/19/19 05:19	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/19/19 05:19	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/19/19 05:19	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 05:19	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/19/19 05:19	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/19/19 05:19	1
1,2,4-Trichlorobenzene	**0.79**	**J**	5.0	0.40	ug/L			04/19/19 05:19	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/19/19 05:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/19/19 05:19	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/19/19 05:19	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/19/19 05:19	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/19/19 05:19	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/19/19 05:19	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/19/19 05:19	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/19/19 05:19	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/19/19 05:19	1
1,4-Dichlorobenzene	**0.28**	**J**	2.0	0.25	ug/L			04/19/19 05:19	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/19/19 05:19	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/19/19 05:19	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/19/19 05:19	1
Benzene	ND		2.0	0.25	ug/L			04/19/19 05:19	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Client Sample ID: MW-R-20190409

Lab Sample ID: 440-238444-4

Date Collected: 04/09/19 13:00
Matrix: Water
Date Received: 04/10/19 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		5.0	0.25	ug/L			04/19/19 05:19	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/19/19 05:19	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/19/19 05:19	1
Bromoform	ND		5.0	0.40	ug/L			04/19/19 05:19	1
Bromomethane	ND		5.0	0.25	ug/L			04/19/19 05:19	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/19/19 05:19	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/19/19 05:19	1
Chloroethane	ND		5.0	0.40	ug/L			04/19/19 05:19	1
Chloroform	**0.31**	**J**	2.0	0.25	ug/L			04/19/19 05:19	1
Chloromethane	ND		5.0	0.25	ug/L			04/19/19 05:19	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/19/19 05:19	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 05:19	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/19/19 05:19	1
Dibromomethane	ND		2.0	0.25	ug/L			04/19/19 05:19	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/19/19 05:19	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/19/19 05:19	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/19/19 05:19	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/19/19 05:19	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/19/19 05:19	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/19/19 05:19	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/19/19 05:19	1
Naphthalene	ND		5.0	0.40	ug/L			04/19/19 05:19	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/19/19 05:19	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/19/19 05:19	1
o-Xylene	ND		2.0	0.25	ug/L			04/19/19 05:19	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/19/19 05:19	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/19/19 05:19	1
Styrene	ND		2.0	0.25	ug/L			04/19/19 05:19	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/19/19 05:19	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/19/19 05:19	1
Toluene	ND		2.0	0.25	ug/L			04/19/19 05:19	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/19/19 05:19	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 05:19	1
Trichloroethene	ND		2.0	0.25	ug/L			04/19/19 05:19	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/19/19 05:19	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/19/19 05:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*04/19/19 05:19*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*04/19/19 05:19*	*1*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*04/19/19 05:19*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*04/19/19 05:19*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/11/19 05:47	04/12/19 20:07	1
2,4'-DDE	ND		0.10	0.020	ug/L		04/11/19 05:47	04/12/19 20:07	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/11/19 05:47	04/12/19 20:07	1
4,4'-DDD	ND		0.10	0.0040	ug/L		04/11/19 05:47	04/12/19 20:07	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/11/19 05:47	04/12/19 20:07	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Client Sample ID: MW-R-20190409

Date Collected: 04/09/19 13:00
Date Received: 04/10/19 10:15

Lab Sample ID: 440-238444-4

Matrix: Water

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	ND		0.10	0.0040	ug/L		04/11/19 05:47	04/12/19 20:07	1
Aldrin	ND		0.0051	0.0015	ug/L		04/11/19 05:47	04/12/19 20:07	1
alpha-BHC	**0.085**		0.0051	0.0025	ug/L		04/11/19 05:47	04/12/19 20:07	1
beta-BHC	**1.0**		0.010	0.0040	ug/L		04/11/19 05:47	04/12/19 20:07	1
Chlordane	ND		0.10	0.081	ug/L		04/11/19 05:47	04/12/19 20:07	1
delta-BHC	**0.40**		0.20	0.0035	ug/L		04/11/19 05:47	04/12/19 20:07	1
Dieldrin	ND		0.0051	0.0020	ug/L		04/11/19 05:47	04/12/19 20:07	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/11/19 05:47	04/12/19 20:07	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/11/19 05:47	04/12/19 20:07	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/11/19 05:47	04/12/19 20:07	1
Endrin	ND		0.10	0.0020	ug/L		04/11/19 05:47	04/12/19 20:07	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/11/19 05:47	04/12/19 20:07	1
Endrin ketone	ND		0.10	0.0071	ug/L		04/11/19 05:47	04/12/19 20:07	1
gamma-BHC (Lindane)	**0.0046**	**J p**	0.10	0.0030	ug/L		04/11/19 05:47	04/12/19 20:07	1
Heptachlor	ND		0.010	0.0030	ug/L		04/11/19 05:47	04/12/19 20:07	1
Heptachlor epoxide	ND		0.0051	0.0025	ug/L		04/11/19 05:47	04/12/19 20:07	1
Methoxychlor	ND		0.10	0.0035	ug/L		04/11/19 05:47	04/12/19 20:07	1
Toxaphene	ND		5.1	0.25	ug/L		04/11/19 05:47	04/12/19 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*28 - 108*	*04/11/19 05:47*	*04/12/19 20:07*	*1*
Tetrachloro-m-xylene	*49*		*10 - 123*	*04/11/19 05:47*	*04/12/19 20:07*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**56000**		4000	950	ug/L			04/23/19 16:16	1000

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**89**		1.0	0.50	ug/L		04/12/19 08:13	04/12/19 14:39	5
Barium	**38**		1.0	0.50	ug/L		04/12/19 08:13	04/12/19 14:39	5
Cadmium	ND		0.50	0.25	ug/L		04/12/19 08:13	04/12/19 14:39	5
Chromium	**1.4**	**J**	2.5	1.3	ug/L		04/12/19 08:13	04/12/19 14:39	5
Lead	**0.57**		0.50	0.25	ug/L		04/12/19 08:13	04/12/19 14:39	5
Selenium	**6.7**		3.0	1.5	ug/L		04/12/19 08:13	04/12/19 14:39	5
Silver	ND		1.0	0.50	ug/L		04/12/19 08:13	04/12/19 14:39	5
Uranium	**21**		0.50	0.25	ug/L		04/12/19 08:13	04/12/19 14:39	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/26/19 09:00	04/26/19 14:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**3800**		50	25	mg/L			04/15/19 08:40	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Client Sample ID: PC-028-20190409

Date Collected: 04/09/19 10:30
Date Received: 04/10/19 10:15

Lab Sample ID: 440-238444-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/19/19 05:44	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/19/19 05:44	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/19/19 05:44	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/19/19 05:44	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/19/19 05:44	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/19/19 05:44	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 05:44	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/19/19 05:44	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/19/19 05:44	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/19/19 05:44	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/19/19 05:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/19/19 05:44	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/19/19 05:44	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/19/19 05:44	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/19/19 05:44	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/19/19 05:44	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/19/19 05:44	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/19/19 05:44	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/19/19 05:44	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/19/19 05:44	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/19/19 05:44	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/19/19 05:44	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/19/19 05:44	1
Benzene	ND		2.0	0.25	ug/L			04/19/19 05:44	1
Bromobenzene	ND		5.0	0.25	ug/L			04/19/19 05:44	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/19/19 05:44	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/19/19 05:44	1
Bromoform	ND		5.0	0.40	ug/L			04/19/19 05:44	1
Bromomethane	ND		5.0	0.25	ug/L			04/19/19 05:44	1
Carbon tetrachloride	**1.2**		1.0	0.25	ug/L			04/19/19 05:44	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/19/19 05:44	1
Chloroethane	ND		5.0	0.40	ug/L			04/19/19 05:44	1
Chloroform	**51**		2.0	0.25	ug/L			04/19/19 05:44	1
Chloromethane	ND		5.0	0.25	ug/L			04/19/19 05:44	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/19/19 05:44	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 05:44	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/19/19 05:44	1
Dibromomethane	ND		2.0	0.25	ug/L			04/19/19 05:44	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/19/19 05:44	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/19/19 05:44	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/19/19 05:44	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/19/19 05:44	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/19/19 05:44	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/19/19 05:44	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/19/19 05:44	1
Naphthalene	ND		5.0	0.40	ug/L			04/19/19 05:44	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/19/19 05:44	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/19/19 05:44	1
o-Xylene	ND		2.0	0.25	ug/L			04/19/19 05:44	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Client Sample ID: PC-028-20190409

Date Collected: 04/09/19 10:30
Date Received: 04/10/19 10:15

Lab Sample ID: 440-238444-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/19/19 05:44	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/19/19 05:44	1
Styrene	ND		2.0	0.25	ug/L			04/19/19 05:44	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/19/19 05:44	1
Tetrachloroethene	**0.52**	**J**	2.0	0.25	ug/L			04/19/19 05:44	1
Toluene	ND		2.0	0.25	ug/L			04/19/19 05:44	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/19/19 05:44	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 05:44	1
Trichloroethene	ND		2.0	0.25	ug/L			04/19/19 05:44	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/19/19 05:44	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/19/19 05:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*04/19/19 05:44*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*04/19/19 05:44*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*04/19/19 05:44*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*04/19/19 05:44*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.095	0.019	ug/L		04/11/19 05:47	04/12/19 20:32	1
2,4'-DDE	ND		0.095	0.019	ug/L		04/11/19 05:47	04/12/19 20:32	1
2,4'-DDT	ND		0.095	0.019	ug/L		04/11/19 05:47	04/12/19 20:32	1
4,4'-DDD	ND		0.095	0.0038	ug/L		04/11/19 05:47	04/12/19 20:32	1
4,4'-DDE	ND		0.095	0.0028	ug/L		04/11/19 05:47	04/12/19 20:32	1
4,4'-DDT	ND		0.095	0.0038	ug/L		04/11/19 05:47	04/12/19 20:32	1
Aldrin	ND		0.0047	0.0014	ug/L		04/11/19 05:47	04/12/19 20:32	1
alpha-BHC	ND		0.0047	0.0024	ug/L		04/11/19 05:47	04/12/19 20:32	1
beta-BHC	ND		0.0095	0.0038	ug/L		04/11/19 05:47	04/12/19 20:32	1
Chlordane	ND		0.095	0.076	ug/L		04/11/19 05:47	04/12/19 20:32	1
delta-BHC	ND		0.19	0.0033	ug/L		04/11/19 05:47	04/12/19 20:32	1
Dieldrin	ND		0.0047	0.0019	ug/L		04/11/19 05:47	04/12/19 20:32	1
Endosulfan I	ND		0.095	0.0028	ug/L		04/11/19 05:47	04/12/19 20:32	1
Endosulfan II	ND		0.095	0.0019	ug/L		04/11/19 05:47	04/12/19 20:32	1
Endosulfan sulfate	ND		0.19	0.0028	ug/L		04/11/19 05:47	04/12/19 20:32	1
Endrin	ND		0.095	0.0019	ug/L		04/11/19 05:47	04/12/19 20:32	1
Endrin aldehyde	ND		0.095	0.0019	ug/L		04/11/19 05:47	04/12/19 20:32	1
Endrin ketone	ND		0.095	0.0066	ug/L		04/11/19 05:47	04/12/19 20:32	1
gamma-BHC (Lindane)	ND		0.095	0.0028	ug/L		04/11/19 05:47	04/12/19 20:32	1
Heptachlor	ND		0.0095	0.0028	ug/L		04/11/19 05:47	04/12/19 20:32	1
Heptachlor epoxide	ND		0.0047	0.0024	ug/L		04/11/19 05:47	04/12/19 20:32	1
Methoxychlor	ND		0.095	0.0033	ug/L		04/11/19 05:47	04/12/19 20:32	1
Toxaphene	ND		4.7	0.24	ug/L		04/11/19 05:47	04/12/19 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*28 - 108*	*04/11/19 05:47*	*04/12/19 20:32*	*1*
Tetrachloro-m-xylene	*47*		*10 - 123*	*04/11/19 05:47*	*04/12/19 20:32*	*1*

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Client Sample ID: PC-028-20190409

Lab Sample ID: 440-238444-5
Date Collected: 04/09/19 10:30
Matrix: Water
Date Received: 04/10/19 10:15

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	140000		40000	9500	ug/L			04/23/19 17:38	10000

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	190		1.0	0.50	ug/L		04/12/19 08:13	04/12/19 14:54	5
Barium	15		1.0	0.50	ug/L		04/12/19 08:13	04/12/19 14:54	5
Cadmium	ND		0.50	0.25	ug/L		04/12/19 08:13	04/12/19 14:54	5
Chromium	280		2.5	1.3	ug/L		04/12/19 08:13	04/12/19 14:54	5
Lead	0.36	J	0.50	0.25	ug/L		04/12/19 08:13	04/12/19 14:54	5
Selenium	6.1		3.0	1.5	ug/L		04/12/19 08:13	04/12/19 14:54	5
Silver	ND		1.0	0.50	ug/L		04/12/19 08:13	04/12/19 14:54	5
Uranium	75		0.50	0.25	ug/L		04/12/19 08:13	04/12/19 14:54	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/26/19 09:00	04/26/19 14:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4700		50	25	mg/L			04/15/19 08:40	1

Client Sample ID: PC-031-20190409

Lab Sample ID: 440-238444-6
Date Collected: 04/09/19 08:35
Matrix: Water
Date Received: 04/10/19 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/19/19 06:08	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/19/19 06:08	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/19/19 06:08	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/19/19 06:08	1
1,1-Dichloroethane	1.2	J	2.0	0.25	ug/L			04/19/19 06:08	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/19/19 06:08	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 06:08	1
1,2,3-Trichlorobenzene	0.86	J	5.0	0.40	ug/L			04/19/19 06:08	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/19/19 06:08	1
1,2,4-Trichlorobenzene	6.9		5.0	0.40	ug/L			04/19/19 06:08	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/19/19 06:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/19/19 06:08	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/19/19 06:08	1
1,2-Dichlorobenzene	5.8		2.0	0.25	ug/L			04/19/19 06:08	1
1,2-Dichloroethane	0.41	J	2.0	0.25	ug/L			04/19/19 06:08	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/19/19 06:08	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/19/19 06:08	1
1,3-Dichlorobenzene	0.49	J	2.0	0.25	ug/L			04/19/19 06:08	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/19/19 06:08	1
1,4-Dichlorobenzene	9.2		2.0	0.25	ug/L			04/19/19 06:08	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/19/19 06:08	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/19/19 06:08	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/19/19 06:08	1
Benzene	ND		2.0	0.25	ug/L			04/19/19 06:08	1

Client Sample ID: PC-031-20190409

Lab Sample ID: 440-238444-6

Date Collected: 04/09/19 08:35
Matrix: Water
Date Received: 04/10/19 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		5.0	0.25	ug/L			04/19/19 06:08	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/19/19 06:08	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/19/19 06:08	1
Bromoform	ND		5.0	0.40	ug/L			04/19/19 06:08	1
Bromomethane	ND		5.0	0.25	ug/L			04/19/19 06:08	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/19/19 06:08	1
Chlorobenzene	**0.39**	**J**	2.0	0.25	ug/L			04/19/19 06:08	1
Chloroethane	ND		5.0	0.40	ug/L			04/19/19 06:08	1
Chloroform	**0.68**	**J**	2.0	0.25	ug/L			04/19/19 06:08	1
Chloromethane	ND		5.0	0.25	ug/L			04/19/19 06:08	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/19/19 06:08	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 06:08	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/19/19 06:08	1
Dibromomethane	ND		2.0	0.25	ug/L			04/19/19 06:08	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/19/19 06:08	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/19/19 06:08	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/19/19 06:08	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/19/19 06:08	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/19/19 06:08	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/19/19 06:08	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/19/19 06:08	1
Naphthalene	ND		5.0	0.40	ug/L			04/19/19 06:08	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/19/19 06:08	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/19/19 06:08	1
o-Xylene	ND		2.0	0.25	ug/L			04/19/19 06:08	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/19/19 06:08	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/19/19 06:08	1
Styrene	ND		2.0	0.25	ug/L			04/19/19 06:08	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/19/19 06:08	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/19/19 06:08	1
Toluene	ND		2.0	0.25	ug/L			04/19/19 06:08	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/19/19 06:08	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/19/19 06:08	1
Trichloroethene	ND		2.0	0.25	ug/L			04/19/19 06:08	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/19/19 06:08	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/19/19 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*04/19/19 06:08*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*04/19/19 06:08*	*1*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*04/19/19 06:08*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*04/19/19 06:08*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.095	0.019	ug/L		04/11/19 05:47	04/12/19 20:58	1
2,4'-DDE	ND		0.095	0.019	ug/L		04/11/19 05:47	04/12/19 20:58	1
2,4'-DDT	ND		0.095	0.019	ug/L		04/11/19 05:47	04/12/19 20:58	1
4,4'-DDD	ND		0.095	0.0038	ug/L		04/11/19 05:47	04/12/19 20:58	1
4,4'-DDE	ND		0.095	0.0029	ug/L		04/11/19 05:47	04/12/19 20:58	1

Client Sample ID: PC-031-20190409

Lab Sample ID: 440-238444-6

Date Collected: 04/09/19 08:35
Matrix: Water
Date Received: 04/10/19 10:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	ND		0.095	0.0038	ug/L		04/11/19 05:47	04/12/19 20:58	1
Aldrin	ND		0.0048	0.0014	ug/L		04/11/19 05:47	04/12/19 20:58	1
alpha-BHC	**0.16**		0.0048	0.0024	ug/L		04/11/19 05:47	04/12/19 20:58	1
Chlordane	ND		0.095	0.076	ug/L		04/11/19 05:47	04/12/19 20:58	1
delta-BHC	**0.38**		0.19	0.0033	ug/L		04/11/19 05:47	04/12/19 20:58	1
Dieldrin	ND		0.0048	0.0019	ug/L		04/11/19 05:47	04/12/19 20:58	1
Endosulfan I	ND		0.095	0.0029	ug/L		04/11/19 05:47	04/12/19 20:58	1
Endosulfan II	ND		0.095	0.0019	ug/L		04/11/19 05:47	04/12/19 20:58	1
Endosulfan sulfate	ND		0.19	0.0029	ug/L		04/11/19 05:47	04/12/19 20:58	1
Endrin	ND		0.095	0.0019	ug/L		04/11/19 05:47	04/12/19 20:58	1
Endrin aldehyde	ND		0.095	0.0019	ug/L		04/11/19 05:47	04/12/19 20:58	1
Endrin ketone	ND		0.095	0.0067	ug/L		04/11/19 05:47	04/12/19 20:58	1
gamma-BHC (Lindane)	ND		0.095	0.0029	ug/L		04/11/19 05:47	04/12/19 20:58	1
Heptachlor	ND		0.0095	0.0029	ug/L		04/11/19 05:47	04/12/19 20:58	1
Heptachlor epoxide	ND		0.0048	0.0024	ug/L		04/11/19 05:47	04/12/19 20:58	1
Methoxychlor	ND		0.095	0.0033	ug/L		04/11/19 05:47	04/12/19 20:58	1
Toxaphene	ND		4.8	0.24	ug/L		04/11/19 05:47	04/12/19 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*28 - 108*	*04/11/19 05:47*	*04/12/19 20:58*	*1*
Tetrachloro-m-xylene	*45*		*10 - 123*	*04/11/19 05:47*	*04/12/19 20:58*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	**3.8**		0.095	0.038	ug/L		04/11/19 05:47	04/12/19 21:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*28 - 108*	*04/11/19 05:47*	*04/12/19 21:24*	*10*
Tetrachloro-m-xylene	*48*		*10 - 123*	*04/11/19 05:47*	*04/12/19 21:24*	*10*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**37000**		4000	950	ug/L			04/23/19 16:37	1000

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**91**		2.0	1.0	ug/L		04/12/19 08:13	04/12/19 14:43	10
Barium	**190**		2.0	1.0	ug/L		04/12/19 08:13	04/12/19 14:43	10
Cadmium	ND		1.0	0.50	ug/L		04/12/19 08:13	04/12/19 14:43	10
Chromium	**22**		5.0	2.5	ug/L		04/12/19 08:13	04/12/19 14:43	10
Lead	**4.3**		1.0	0.50	ug/L		04/12/19 08:13	04/12/19 14:43	10
Selenium	**3.1**	**J**	6.0	3.0	ug/L		04/12/19 08:13	04/12/19 14:43	10
Silver	ND		2.0	1.0	ug/L		04/12/19 08:13	04/12/19 14:43	10
Uranium	**20**		1.0	0.50	ug/L		04/12/19 08:13	04/12/19 14:43	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/26/19 09:00	04/26/19 14:18	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Client Sample ID: PC-031-20190409

Lab Sample ID: 440-238444-6
Date Collected: 04/09/19 08:35
Matrix: Water
Date Received: 04/10/19 10:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4100		100	50	mg/L			04/15/19 08:40	1

Client Sample ID: MW-A-J-20190409

Lab Sample ID: 440-238444-7
Date Collected: 04/09/19 13:05
Matrix: Water
Date Received: 04/10/19 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/21/19 18:14	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/21/19 18:14	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/21/19 18:14	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/21/19 18:14	1
1,1-Dichloroethane	0.74	J	2.0	0.25	ug/L			04/21/19 18:14	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/21/19 18:14	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/21/19 18:14	1
1,2,3-Trichlorobenzene	0.83	J	5.0	0.40	ug/L			04/21/19 18:14	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/21/19 18:14	1
1,2,4-Trichlorobenzene	2.1	J	5.0	0.40	ug/L			04/21/19 18:14	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/21/19 18:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/21/19 18:14	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/21/19 18:14	1
1,2-Dichlorobenzene	0.99	J	2.0	0.25	ug/L			04/21/19 18:14	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/21/19 18:14	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/21/19 18:14	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/21/19 18:14	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/21/19 18:14	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/21/19 18:14	1
1,4-Dichlorobenzene	1.3	J	2.0	0.25	ug/L			04/21/19 18:14	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/21/19 18:14	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/21/19 18:14	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/21/19 18:14	1
Benzene	ND		2.0	0.25	ug/L			04/21/19 18:14	1
Bromobenzene	ND		5.0	0.25	ug/L			04/21/19 18:14	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/21/19 18:14	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/21/19 18:14	1
Bromoform	ND		5.0	0.40	ug/L			04/21/19 18:14	1
Bromomethane	ND		5.0	0.25	ug/L			04/21/19 18:14	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/21/19 18:14	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/21/19 18:14	1
Chloroethane	ND		5.0	0.40	ug/L			04/21/19 18:14	1
Chloroform	0.58	J	2.0	0.25	ug/L			04/21/19 18:14	1
Chloromethane	ND		5.0	0.25	ug/L			04/21/19 18:14	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/21/19 18:14	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/21/19 18:14	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/21/19 18:14	1
Dibromomethane	ND		2.0	0.25	ug/L			04/21/19 18:14	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/21/19 18:14	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/21/19 18:14	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/21/19 18:14	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/21/19 18:14	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Client Sample ID: MW-A-J-20190409

Lab Sample ID: 440-238444-7

Date Collected: 04/09/19 13:05
Matrix: Water
Date Received: 04/10/19 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		2.0	0.25	ug/L			04/21/19 18:14	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/21/19 18:14	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/21/19 18:14	1
Naphthalene	ND		5.0	0.40	ug/L			04/21/19 18:14	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/21/19 18:14	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/21/19 18:14	1
o-Xylene	ND		2.0	0.25	ug/L			04/21/19 18:14	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/21/19 18:14	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/21/19 18:14	1
Styrene	ND		2.0	0.25	ug/L			04/21/19 18:14	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/21/19 18:14	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/21/19 18:14	1
Toluene	ND		2.0	0.25	ug/L			04/21/19 18:14	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/21/19 18:14	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/21/19 18:14	1
Trichloroethene	ND		2.0	0.25	ug/L			04/21/19 18:14	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/21/19 18:14	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/21/19 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*04/21/19 18:14*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*04/21/19 18:14*	*1*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*04/21/19 18:14*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*04/21/19 18:14*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.096	0.019	ug/L		04/11/19 05:47	04/12/19 22:15	1
2,4'-DDE	ND		0.096	0.019	ug/L		04/11/19 05:47	04/12/19 22:15	1
2,4'-DDT	ND		0.096	0.019	ug/L		04/11/19 05:47	04/12/19 22:15	1
4,4'-DDD	ND		0.096	0.0038	ug/L		04/11/19 05:47	04/12/19 22:15	1
4,4'-DDE	ND		0.096	0.0029	ug/L		04/11/19 05:47	04/12/19 22:15	1
4,4'-DDT	ND		0.096	0.0038	ug/L		04/11/19 05:47	04/12/19 22:15	1
Aldrin	ND		0.0048	0.0014	ug/L		04/11/19 05:47	04/12/19 22:15	1
alpha-BHC	**0.21**		0.0048	0.0024	ug/L		04/11/19 05:47	04/12/19 22:15	1
Chlordane	ND		0.096	0.077	ug/L		04/11/19 05:47	04/12/19 22:15	1
Dieldrin	ND		0.0048	0.0019	ug/L		04/11/19 05:47	04/12/19 22:15	1
Endosulfan I	ND		0.096	0.0029	ug/L		04/11/19 05:47	04/12/19 22:15	1
Endosulfan II	ND		0.096	0.0019	ug/L		04/11/19 05:47	04/12/19 22:15	1
Endosulfan sulfate	ND		0.19	0.0029	ug/L		04/11/19 05:47	04/12/19 22:15	1
Endrin	ND		0.096	0.0019	ug/L		04/11/19 05:47	04/12/19 22:15	1
Endrin aldehyde	ND		0.096	0.0019	ug/L		04/11/19 05:47	04/12/19 22:15	1
Endrin ketone	ND		0.096	0.0067	ug/L		04/11/19 05:47	04/12/19 22:15	1
gamma-BHC (Lindane)	**0.0063**	**J p**	0.096	0.0029	ug/L		04/11/19 05:47	04/12/19 22:15	1
Heptachlor	ND		0.0096	0.0029	ug/L		04/11/19 05:47	04/12/19 22:15	1
Heptachlor epoxide	ND		0.0048	0.0024	ug/L		04/11/19 05:47	04/12/19 22:15	1
Methoxychlor	ND		0.096	0.0033	ug/L		04/11/19 05:47	04/12/19 22:15	1
Toxaphene	ND		4.8	0.24	ug/L		04/11/19 05:47	04/12/19 22:15	1

Client Sample ID: MW-A-J-20190409

Lab Sample ID: 440-238444-7

Date Collected: 04/09/19 13:05
Matrix: Water
Date Received: 04/10/19 10:15

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*28 - 108*	*04/11/19 05:47*	*04/12/19 22:15*	*1*
Tetrachloro-m-xylene	*52*		*10 - 123*	*04/11/19 05:47*	*04/12/19 22:15*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	**1.0**		0.019	0.0077	ug/L		04/11/19 05:47	04/12/19 22:41	2
delta-BHC	**0.96**		0.38	0.0067	ug/L		04/11/19 05:47	04/12/19 22:41	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*28 - 108*	*04/11/19 05:47*	*04/12/19 22:41*	*2*
Tetrachloro-m-xylene	*47*		*10 - 123*	*04/11/19 05:47*	*04/12/19 22:41*	*2*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**56000**		4000	950	ug/L			04/23/19 16:57	1000

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**87**		2.0	1.0	ug/L		04/15/19 08:08	04/15/19 21:13	10
Barium	**91**	**F1 B**	2.0	1.0	ug/L		04/15/19 08:08	04/15/19 21:13	10
Cadmium	**1.2**		1.0	0.50	ug/L		04/15/19 08:08	04/15/19 21:13	10
Chromium	**19**	**B**	5.0	2.5	ug/L		04/15/19 08:08	04/15/19 21:13	10
Lead	**9.5**		1.0	0.50	ug/L		04/15/19 08:08	04/15/19 21:13	10
Selenium	**10**		6.0	3.0	ug/L		04/15/19 08:08	04/15/19 21:13	10
Silver	ND		2.0	1.0	ug/L		04/15/19 08:08	04/15/19 21:13	10
Uranium	**33**		1.0	0.50	ug/L		04/15/19 08:08	04/15/19 21:13	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/26/19 09:00	04/26/19 14:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**4100**		100	50	mg/L			04/15/19 08:40	1

Client Sample ID: PC-064-20190409

Lab Sample ID: 440-238444-8

Date Collected: 04/09/19 10:48
Matrix: Water
Date Received: 04/10/19 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/21/19 18:44	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/21/19 18:44	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/21/19 18:44	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/21/19 18:44	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/21/19 18:44	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/21/19 18:44	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/21/19 18:44	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/21/19 18:44	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/21/19 18:44	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/21/19 18:44	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/21/19 18:44	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Client Sample ID: PC-064-20190409

Date Collected: 04/09/19 10:48
Date Received: 04/10/19 10:15

Lab Sample ID: 440-238444-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/21/19 18:44	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/21/19 18:44	1
1,2-Dichlorobenzene	**1.1**	**J**	2.0	0.25	ug/L			04/21/19 18:44	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/21/19 18:44	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/21/19 18:44	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/21/19 18:44	1
1,3-Dichlorobenzene	**2.2**		2.0	0.25	ug/L			04/21/19 18:44	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/21/19 18:44	1
1,4-Dichlorobenzene	**0.85**	**J**	2.0	0.25	ug/L			04/21/19 18:44	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/21/19 18:44	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/21/19 18:44	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/21/19 18:44	1
Benzene	ND		2.0	0.25	ug/L			04/21/19 18:44	1
Bromobenzene	ND		5.0	0.25	ug/L			04/21/19 18:44	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/21/19 18:44	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/21/19 18:44	1
Bromoform	ND		5.0	0.40	ug/L			04/21/19 18:44	1
Bromomethane	ND		5.0	0.25	ug/L			04/21/19 18:44	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/21/19 18:44	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/21/19 18:44	1
Chloroethane	ND		5.0	0.40	ug/L			04/21/19 18:44	1
Chloroform	**1.4**	**J**	2.0	0.25	ug/L			04/21/19 18:44	1
Chloromethane	ND		5.0	0.25	ug/L			04/21/19 18:44	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/21/19 18:44	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/21/19 18:44	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/21/19 18:44	1
Dibromomethane	ND		2.0	0.25	ug/L			04/21/19 18:44	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/21/19 18:44	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/21/19 18:44	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/21/19 18:44	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/21/19 18:44	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/21/19 18:44	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/21/19 18:44	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/21/19 18:44	1
Naphthalene	ND		5.0	0.40	ug/L			04/21/19 18:44	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/21/19 18:44	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/21/19 18:44	1
o-Xylene	ND		2.0	0.25	ug/L			04/21/19 18:44	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/21/19 18:44	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/21/19 18:44	1
Styrene	ND		2.0	0.25	ug/L			04/21/19 18:44	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/21/19 18:44	1
Tetrachloroethene	**1.2**	**J**	2.0	0.25	ug/L			04/21/19 18:44	1
Toluene	ND		2.0	0.25	ug/L			04/21/19 18:44	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/21/19 18:44	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/21/19 18:44	1
Trichloroethene	**0.50**	**J**	2.0	0.25	ug/L			04/21/19 18:44	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/21/19 18:44	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/21/19 18:44	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Client Sample ID: PC-064-20190409

Date Collected: 04/09/19 10:48
Date Received: 04/10/19 10:15

Lab Sample ID: 440-238444-8

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*04/21/19 18:44*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*04/21/19 18:44*	*1*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*04/21/19 18:44*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*04/21/19 18:44*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.099	0.020	ug/L		04/11/19 05:47	04/12/19 21:50	1
2,4'-DDE	ND		0.099	0.020	ug/L		04/11/19 05:47	04/12/19 21:50	1
2,4'-DDT	ND		0.099	0.020	ug/L		04/11/19 05:47	04/12/19 21:50	1
4,4'-DDD	ND		0.099	0.0040	ug/L		04/11/19 05:47	04/12/19 21:50	1
4,4'-DDE	ND		0.099	0.0030	ug/L		04/11/19 05:47	04/12/19 21:50	1
4,4'-DDT	ND		0.099	0.0040	ug/L		04/11/19 05:47	04/12/19 21:50	1
Aldrin	ND		0.0050	0.0015	ug/L		04/11/19 05:47	04/12/19 21:50	1
alpha-BHC	**0.013**		0.0050	0.0025	ug/L		04/11/19 05:47	04/12/19 21:50	1
beta-BHC	ND		0.0099	0.0040	ug/L		04/11/19 05:47	04/12/19 21:50	1
Chlordane	ND		0.099	0.079	ug/L		04/11/19 05:47	04/12/19 21:50	1
delta-BHC	**0.0068**	**J p**	0.20	0.0035	ug/L		04/11/19 05:47	04/12/19 21:50	1
Dieldrin	ND		0.0050	0.0020	ug/L		04/11/19 05:47	04/12/19 21:50	1
Endosulfan I	ND		0.099	0.0030	ug/L		04/11/19 05:47	04/12/19 21:50	1
Endosulfan II	ND		0.099	0.0020	ug/L		04/11/19 05:47	04/12/19 21:50	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/11/19 05:47	04/12/19 21:50	1
Endrin	ND		0.099	0.0020	ug/L		04/11/19 05:47	04/12/19 21:50	1
Endrin aldehyde	ND		0.099	0.0020	ug/L		04/11/19 05:47	04/12/19 21:50	1
Endrin ketone	ND		0.099	0.0069	ug/L		04/11/19 05:47	04/12/19 21:50	1
gamma-BHC (Lindane)	**0.0046**	**J**	0.099	0.0030	ug/L		04/11/19 05:47	04/12/19 21:50	1
Heptachlor	ND		0.0099	0.0030	ug/L		04/11/19 05:47	04/12/19 21:50	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/11/19 05:47	04/12/19 21:50	1
Methoxychlor	ND		0.099	0.0035	ug/L		04/11/19 05:47	04/12/19 21:50	1
Toxaphene	ND		5.0	0.25	ug/L		04/11/19 05:47	04/12/19 21:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*73*		*28 - 108*	*04/11/19 05:47*	*04/12/19 21:50*	*1*
Tetrachloro-m-xylene	*52*		*10 - 123*	*04/11/19 05:47*	*04/12/19 21:50*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**320000**		40000	9500	ug/L			04/23/19 17:58	10000

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**240**		2.0	1.0	ug/L		04/12/19 08:13	04/12/19 14:46	10
Barium	**22**		2.0	1.0	ug/L		04/12/19 08:13	04/12/19 14:46	10
Cadmium	ND		1.0	0.50	ug/L		04/12/19 08:13	04/12/19 14:46	10
Chromium	**700**		5.0	2.5	ug/L		04/12/19 08:13	04/12/19 14:46	10
Lead	ND		1.0	0.50	ug/L		04/12/19 08:13	04/12/19 14:46	10
Selenium	**12**		6.0	3.0	ug/L		04/12/19 08:13	04/12/19 14:46	10
Silver	ND		2.0	1.0	ug/L		04/12/19 08:13	04/12/19 14:46	10
Uranium	**64**		1.0	0.50	ug/L		04/12/19 08:13	04/12/19 14:46	10

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Client Sample ID: PC-064-20190409

Lab Sample ID: 440-238444-8

Date Collected: 04/09/19 10:48
Matrix: Water
Date Received: 04/10/19 10:15

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/26/19 09:00	04/26/19 14:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6900		100	50	mg/L			04/15/19 08:40	1

Surrogate Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (70-130)	BFB (80-120)	DBFM (76-132)	TOL (80-128)
440-238127-A-13 MS	Matrix Spike	96	104	96	99
440-238127-A-13 MSD	Matrix Spike Duplicate	96	102	96	100
440-238444-1	TB-20190409	101	106	97	102
440-238444-2	PL-505-20190409	101	105	98	102
440-238444-3	PL-506-20190409	105	102	100	100
440-238444-4	MW-R-20190409	106	105	101	101
440-238444-5	PC-028-20190409	100	105	98	102
440-238444-6	PC-031-20190409	106	105	100	99
440-238444-7	MW-A-J-20190409	101	98	106	100
440-238444-8	PC-064-20190409	103	104	108	103
440-238447-A-1 MS	Matrix Spike	104	98	105	101
440-238447-A-1 MSD	Matrix Spike Duplicate	104	101	106	102
LCS 440-541250/6	Lab Control Sample	97	105	96	100
LCS 440-541643/5	Lab Control Sample	100	101	103	99
MB 440-541250/5	Method Blank	99	105	96	102
MB 440-541643/8	Method Blank	101	99	104	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCB2 (28-108)	TCX2 (10-123)
440-238444-3	PL-506-20190409	66	45
440-238444-3 - DL	PL-506-20190409	56	41
440-238444-4	MW-R-20190409	76	49
440-238444-5	PC-028-20190409	70	47
440-238444-6	PC-031-20190409	70	45
440-238444-6 - DL	PC-031-20190409	64	48
440-238444-7	MW-A-J-20190409	68	52
440-238444-7 - DL	MW-A-J-20190409	64	47
440-238444-8	PC-064-20190409	73	52
440-238447-G-1-A MS	Matrix Spike	72	54
440-238447-G-1-B MSD	Matrix Spike Duplicate	71	54
LCS 440-539643/2-A	Lab Control Sample	68	50
MB 440-539643/1-A	Method Blank	56	41

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
314.0	Perchlorate (IC)	EPA	TAL IRV
6020	Metals (ICP/MS)	SW846	TAL IRV
7470A	Mercury (CVAA)	SW846	TAL IRV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL IRV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Client Sample ID: TB-20190409 — Lab Sample ID: 440-238444-1

Date Collected: 04/09/19 07:00 — **Matrix: Water**
Date Received: 04/10/19 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	541250	04/19/19 04:06	JB	TAL IRV

Client Sample ID: PL-505-20190409 — Lab Sample ID: 440-238444-2

Date Collected: 04/09/19 10:25 — **Matrix: Water**
Date Received: 04/10/19 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	541250	04/19/19 04:31	JB	TAL IRV

Client Sample ID: PL-506-20190409 — Lab Sample ID: 440-238444-3

Date Collected: 04/09/19 09:05 — **Matrix: Water**
Date Received: 04/10/19 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	541250	04/19/19 04:55	JB	TAL IRV
Total/NA	Prep	3510C			1050 mL	2 mL	539643	04/11/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8081A		1			540074	04/12/19 19:15	D1D	TAL IRV
Total/NA	Prep	3510C	DL		1050 mL	2 mL	539643	04/11/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8081A	DL	5			540074	04/12/19 19:41	D1D	TAL IRV
Total/NA	Analysis	314.0		1000			541940	04/23/19 15:56	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	539961	04/12/19 08:13	BV	TAL IRV
Total Recoverable	Analysis	6020		1			540085	04/12/19 14:36	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542329	04/26/19 09:00	KE	TAL IRV
Total/NA	Analysis	7470A		1			542977	04/26/19 14:08	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	540322	04/15/19 08:40	XL	TAL IRV

Client Sample ID: MW-R-20190409 — Lab Sample ID: 440-238444-4

Date Collected: 04/09/19 13:00 — **Matrix: Water**
Date Received: 04/10/19 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	541250	04/19/19 05:19	JB	TAL IRV
Total/NA	Prep	3510C			990 mL	2 mL	539643	04/11/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8081A		1			540074	04/12/19 20:07	D1D	TAL IRV
Total/NA	Analysis	314.0		1000			541940	04/23/19 16:16	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	539961	04/12/19 08:13	BV	TAL IRV
Total Recoverable	Analysis	6020		5			540085	04/12/19 14:39	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542329	04/26/19 09:00	KE	TAL IRV
Total/NA	Analysis	7470A		1			542977	04/26/19 14:10	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	540322	04/15/19 08:40	XL	TAL IRV

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Client Sample ID: PC-028-20190409

Lab Sample ID: 440-238444-5

Date Collected: 04/09/19 10:30
Matrix: Water
Date Received: 04/10/19 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	541250	04/19/19 05:44	JB	TAL IRV
Total/NA	Prep	3510C			1055 mL	2 mL	539643	04/11/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8081A		1			540074	04/12/19 20:32	D1D	TAL IRV
Total/NA	Analysis	314.0		10000			541940	04/23/19 17:38	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	539961	04/12/19 08:13	BV	TAL IRV
Total Recoverable	Analysis	6020		5			540085	04/12/19 14:54	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542329	04/26/19 09:00	KE	TAL IRV
Total/NA	Analysis	7470A		1			542977	04/26/19 14:16	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	540322	04/15/19 08:40	XL	TAL IRV

Client Sample ID: PC-031-20190409

Lab Sample ID: 440-238444-6

Date Collected: 04/09/19 08:35
Matrix: Water
Date Received: 04/10/19 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	541250	04/19/19 06:08	JB	TAL IRV
Total/NA	Prep	3510C			1050 mL	2 mL	539643	04/11/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8081A		1			540074	04/12/19 20:58	D1D	TAL IRV
Total/NA	Prep	3510C	DL		1050 mL	2 mL	539643	04/11/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8081A	DL	10			540074	04/12/19 21:24	D1D	TAL IRV
Total/NA	Analysis	314.0		1000			541940	04/23/19 16:37	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	539961	04/12/19 08:13	BV	TAL IRV
Total Recoverable	Analysis	6020		10			540085	04/12/19 14:43	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542329	04/26/19 09:00	KE	TAL IRV
Total/NA	Analysis	7470A		1			542977	04/26/19 14:18	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	540322	04/15/19 08:40	XL	TAL IRV

Client Sample ID: MW-A-J-20190409

Lab Sample ID: 440-238444-7

Date Collected: 04/09/19 13:05
Matrix: Water
Date Received: 04/10/19 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	541643	04/21/19 18:14	WC	TAL IRV
Total/NA	Prep	3510C			1045 mL	2 mL	539643	04/11/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8081A		1			540074	04/12/19 22:15	D1D	TAL IRV
Total/NA	Prep	3510C	DL		1045 mL	2 mL	539643	04/11/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8081A	DL	2			540074	04/12/19 22:41	D1D	TAL IRV
Total/NA	Analysis	314.0		1000			541940	04/23/19 16:57	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	540321	04/15/19 08:08	BV	TAL IRV
Total Recoverable	Analysis	6020		10			540518	04/15/19 21:13	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542329	04/26/19 09:00	KE	TAL IRV
Total/NA	Analysis	7470A		1			542977	04/26/19 14:20	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	540322	04/15/19 08:40	XL	TAL IRV

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Client Sample ID: PC-064-20190409

Date Collected: 04/09/19 10:48
Date Received: 04/10/19 10:15

Lab Sample ID: 440-238444-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	541643	04/21/19 18:44	WC	TAL IRV
Total/NA	Prep	3510C			1010 mL	2 mL	539643	04/11/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8081A		1			540074	04/12/19 21:50	D1D	TAL IRV
Total/NA	Analysis	314.0		10000			541940	04/23/19 17:58	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	539961	04/12/19 08:13	BV	TAL IRV
Total Recoverable	Analysis	6020		10			540085	04/12/19 14:46	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542329	04/26/19 09:00	KE	TAL IRV
Total/NA	Analysis	7470A		1			542977	04/26/19 14:22	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	540322	04/15/19 08:40	XL	TAL IRV

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-541250/5
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/18/19 20:46	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/18/19 20:46	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 20:46	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/18/19 20:46	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/18/19 20:46	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/18/19 20:46	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/18/19 20:46	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 20:46	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Benzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Bromobenzene	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Bromoform	ND		5.0	0.40	ug/L			04/18/19 20:46	1
Bromomethane	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/18/19 20:46	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Chloroethane	ND		5.0	0.40	ug/L			04/18/19 20:46	1
Chloroform	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Chloromethane	ND		5.0	0.25	ug/L			04/18/19 20:46	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Dibromomethane	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/18/19 20:46	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/18/19 20:46	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/18/19 20:46	1
Naphthalene	ND		5.0	0.40	ug/L			04/18/19 20:46	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/18/19 20:46	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/18/19 20:46	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-541250/5
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Styrene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Toluene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Trichloroethene	ND		2.0	0.25	ug/L			04/18/19 20:46	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/18/19 20:46	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/18/19 20:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/18/19 20:46*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*04/18/19 20:46*	*1*
Dibromofluoromethane (Surr)	*96*		*76 - 132*		*04/18/19 20:46*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*04/18/19 20:46*	*1*

Lab Sample ID: LCS 440-541250/6
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	9.93		ug/L		99	60 - 141
1,1,1-Trichloroethane	10.0	9.48		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	10.0	10.3		ug/L		103	63 - 130
1,1,2-Trichloroethane	10.0	10.1		ug/L		101	70 - 130
1,1-Dichloroethane	10.0	8.81		ug/L		88	64 - 130
1,1-Dichloroethene	10.0	9.16		ug/L		92	70 - 130
1,1-Dichloropropene	10.0	9.15		ug/L		92	70 - 130
1,2,3-Trichlorobenzene	10.0	8.48		ug/L		85	60 - 140
1,2,3-Trichloropropane	10.0	9.31	J	ug/L		93	63 - 130
1,2,4-Trichlorobenzene	10.0	8.44		ug/L		84	60 - 140
1,2,4-Trimethylbenzene	10.0	10.1		ug/L		101	70 - 135
1,2-Dibromo-3-Chloropropane	10.0	8.87		ug/L		89	52 - 140
1,2-Dibromoethane (EDB)	10.0	9.79		ug/L		98	70 - 130
1,2-Dichlorobenzene	10.0	9.79		ug/L		98	70 - 130
1,2-Dichloroethane	10.0	9.15		ug/L		92	57 - 138
1,2-Dichloropropane	10.0	10.0		ug/L		100	67 - 130
1,3,5-Trimethylbenzene	10.0	10.3		ug/L		103	70 - 136
1,3-Dichlorobenzene	10.0	10.1		ug/L		101	70 - 130
1,3-Dichloropropane	10.0	9.87		ug/L		99	70 - 130
1,4-Dichlorobenzene	10.0	9.93		ug/L		99	70 - 130
2,2-Dichloropropane	10.0	9.05		ug/L		91	68 - 141
2-Chlorotoluene	10.0	10.2		ug/L		102	70 - 130
4-Chlorotoluene	10.0	10.5		ug/L		105	70 - 130
Benzene	10.0	9.27		ug/L		93	68 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-541250/6
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	10.0	10.8		ug/L		108	70 - 130
Bromochloromethane	10.0	9.53		ug/L		95	70 - 130
Bromodichloromethane	10.0	9.95		ug/L		99	70 - 132
Bromoform	10.0	10.9		ug/L		109	60 - 148
Bromomethane	10.0	8.76		ug/L		88	64 - 139
Carbon tetrachloride	10.0	10.1		ug/L		101	60 - 150
Chlorobenzene	10.0	10.1		ug/L		101	70 - 130
Chloroethane	10.0	8.61		ug/L		86	64 - 135
Chloroform	10.0	9.36		ug/L		94	70 - 130
Chloromethane	10.0	8.17		ug/L		82	47 - 140
cis-1,2-Dichloroethene	10.0	9.48		ug/L		95	70 - 133
cis-1,3-Dichloropropene	10.0	10.2		ug/L		102	70 - 133
Dibromochloromethane	10.0	9.83		ug/L		98	69 - 145
Dibromomethane	10.0	9.52		ug/L		95	70 - 130
Dichlorodifluoromethane	10.0	7.20		ug/L		72	29 - 150
Ethylbenzene	10.0	10.3		ug/L		103	70 - 130
Hexachlorobutadiene	10.0	8.83		ug/L		88	10 - 150
Isopropylbenzene	10.0	9.85		ug/L		98	70 - 136
m,p-Xylene	10.0	10.1		ug/L		101	70 - 130
Methylene Chloride	10.0	9.01		ug/L		90	52 - 130
Naphthalene	10.0	8.14		ug/L		81	60 - 140
n-Butylbenzene	10.0	9.50		ug/L		95	65 - 150
N-Propylbenzene	10.0	10.6		ug/L		106	67 - 139
o-Xylene	10.0	9.41		ug/L		94	70 - 130
p-Isopropyltoluene	10.0	10.3		ug/L		103	70 - 132
sec-Butylbenzene	10.0	10.4		ug/L		104	70 - 138
Styrene	10.0	9.88		ug/L		99	70 - 134
tert-Butylbenzene	10.0	10.2		ug/L		102	70 - 130
Tetrachloroethene	10.0	9.94		ug/L		99	70 - 130
Toluene	10.0	9.85		ug/L		99	70 - 130
trans-1,2-Dichloroethene	10.0	9.09		ug/L		91	70 - 130
trans-1,3-Dichloropropene	10.0	10.1		ug/L		101	70 - 132
Trichloroethene	10.0	9.29		ug/L		93	70 - 130
Trichlorofluoromethane	10.0	8.59		ug/L		86	60 - 150
Vinyl chloride	10.0	8.44		ug/L		84	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: 440-238127-A-13 MS
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		250	248		ug/L		99	60 - 149

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238127-A-13 MS
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		250	232		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	ND		250	248		ug/L		99	63 - 130
1,1,2-Trichloroethane	ND		250	255		ug/L		102	70 - 130
1,1-Dichloroethane	ND		250	227		ug/L		91	65 - 130
1,1-Dichloroethene	ND		250	218		ug/L		87	70 - 130
1,1-Dichloropropene	ND		250	221		ug/L		89	64 - 130
1,2,3-Trichlorobenzene	31	J	250	233		ug/L		81	60 - 140
1,2,3-Trichloropropane	ND		250	245	J	ug/L		98	60 - 130
1,2,4-Trichlorobenzene	46	J	250	256		ug/L		84	60 - 140
1,2,4-Trimethylbenzene	ND		250	247		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	ND		250	214		ug/L		86	48 - 140
1,2-Dibromoethane (EDB)	ND		250	247		ug/L		99	70 - 131
1,2-Dichlorobenzene	67		250	303		ug/L		94	70 - 130
1,2-Dichloroethane	ND		250	223		ug/L		89	56 - 146
1,2-Dichloropropane	ND		250	263		ug/L		105	69 - 130
1,3,5-Trimethylbenzene	ND		250	255		ug/L		102	70 - 130
1,3-Dichlorobenzene	7.3	J	250	255		ug/L		99	70 - 130
1,3-Dichloropropane	ND		250	249		ug/L		99	70 - 130
1,4-Dichlorobenzene	96		250	336		ug/L		96	70 - 130
2,2-Dichloropropane	ND		250	234		ug/L		93	69 - 138
2-Chlorotoluene	ND		250	256		ug/L		102	70 - 130
4-Chlorotoluene	ND		250	274		ug/L		109	70 - 130
Benzene	19	J	250	246		ug/L		91	66 - 130
Bromobenzene	ND		250	270		ug/L		108	70 - 130
Bromochloromethane	ND		250	223		ug/L		89	70 - 130
Bromodichloromethane	ND		250	248		ug/L		99	70 - 138
Bromoform	ND		250	270		ug/L		108	59 - 150
Bromomethane	ND		250	212		ug/L		85	62 - 131
Carbon tetrachloride	ND		250	241		ug/L		97	60 - 150
Chlorobenzene	1300		250	1460	4	ug/L		78	70 - 130
Chloroethane	ND		250	214		ug/L		85	68 - 130
Chloroform	ND		250	236		ug/L		94	70 - 130
Chloromethane	ND		250	194		ug/L		78	39 - 144
cis-1,2-Dichloroethene	ND		250	231		ug/L		93	70 - 130
cis-1,3-Dichloropropene	ND		250	255		ug/L		102	70 - 133
Dibromochloromethane	ND		250	253		ug/L		101	70 - 148
Dibromomethane	ND		250	225		ug/L		90	70 - 130
Dichlorodifluoromethane	ND		250	181		ug/L		72	25 - 142
Ethylbenzene	ND		250	258		ug/L		103	70 - 130
Hexachlorobutadiene	15	J	250	229		ug/L		86	10 - 150
Isopropylbenzene	ND		250	249		ug/L		100	70 - 132
m,p-Xylene	ND		250	253		ug/L		101	70 - 133
Methylene Chloride	ND		250	227		ug/L		91	52 - 130
Naphthalene	19	J	250	216		ug/L		79	60 - 140
n-Butylbenzene	ND		250	242		ug/L		97	61 - 149
N-Propylbenzene	ND		250	259		ug/L		103	66 - 135
o-Xylene	ND		250	238		ug/L		95	70 - 133
p-Isopropyltoluene	ND		250	260		ug/L		104	70 - 130
sec-Butylbenzene	ND		250	254		ug/L		102	67 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238127-A-13 MS
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	ND		250	238		ug/L		95	29 - 150
tert-Butylbenzene	ND		250	257		ug/L		103	70 - 130
Tetrachloroethene	ND		250	244		ug/L		98	70 - 137
Toluene	ND		250	248		ug/L		99	70 - 130
trans-1,2-Dichloroethene	ND		250	226		ug/L		90	70 - 130
trans-1,3-Dichloropropene	ND		250	251		ug/L		101	70 - 138
Trichloroethene	9.5	J	250	234		ug/L		90	70 - 130
Trichlorofluoromethane	ND		250	215		ug/L		86	60 - 150
Vinyl chloride	ND		250	218		ug/L		87	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*76 - 132*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 440-238127-A-13 MSD
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		250	256		ug/L		102	60 - 149	3	20
1,1,1-Trichloroethane	ND		250	232		ug/L		93	70 - 130	0	20
1,1,2,2-Tetrachloroethane	ND		250	252		ug/L		101	63 - 130	2	30
1,1,2-Trichloroethane	ND		250	260		ug/L		104	70 - 130	2	25
1,1-Dichloroethane	ND		250	222		ug/L		89	65 - 130	2	20
1,1-Dichloroethene	ND		250	220		ug/L		88	70 - 130	1	20
1,1-Dichloropropene	ND		250	226		ug/L		91	64 - 130	2	20
1,2,3-Trichlorobenzene	31	J	250	246		ug/L		86	60 - 140	5	20
1,2,3-Trichloropropane	ND		250	240	J	ug/L		96	60 - 130	2	30
1,2,4-Trichlorobenzene	46	J	250	252		ug/L		82	60 - 140	2	20
1,2,4-Trimethylbenzene	ND		250	250		ug/L		100	70 - 130	1	25
1,2-Dibromo-3-Chloropropane	ND		250	211		ug/L		84	48 - 140	2	30
1,2-Dibromoethane (EDB)	ND		250	256		ug/L		103	70 - 131	4	25
1,2-Dichlorobenzene	67		250	304		ug/L		95	70 - 130	0	20
1,2-Dichloroethane	ND		250	233		ug/L		93	56 - 146	4	20
1,2-Dichloropropane	ND		250	256		ug/L		102	69 - 130	3	20
1,3,5-Trimethylbenzene	ND		250	255		ug/L		102	70 - 130	0	20
1,3-Dichlorobenzene	7.3	J	250	259		ug/L		101	70 - 130	2	20
1,3-Dichloropropane	ND		250	260		ug/L		104	70 - 130	4	25
1,4-Dichlorobenzene	96		250	348		ug/L		101	70 - 130	4	20
2,2-Dichloropropane	ND		250	230		ug/L		92	69 - 138	1	25
2-Chlorotoluene	ND		250	255		ug/L		102	70 - 130	1	20
4-Chlorotoluene	ND		250	264		ug/L		106	70 - 130	3	20
Benzene	19	J	250	255		ug/L		95	66 - 130	4	20
Bromobenzene	ND		250	266		ug/L		106	70 - 130	2	20
Bromochloromethane	ND		250	225		ug/L		90	70 - 130	1	25
Bromodichloromethane	ND		250	254		ug/L		102	70 - 138	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238127-A-13 MSD
Matrix: Water
Analysis Batch: 541250

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		250	278		ug/L		111	59 - 150	3	25
Bromomethane	ND		250	207		ug/L		83	62 - 131	2	25
Carbon tetrachloride	ND		250	246		ug/L		98	60 - 150	2	25
Chlorobenzene	1300		250	1480	4	ug/L		85	70 - 130	1	20
Chloroethane	ND		250	210		ug/L		84	68 - 130	2	25
Chloroform	ND		250	237		ug/L		95	70 - 130	0	20
Chloromethane	ND		250	193		ug/L		77	39 - 144	1	25
cis-1,2-Dichloroethene	ND		250	235		ug/L		94	70 - 130	2	20
cis-1,3-Dichloropropene	ND		250	266		ug/L		106	70 - 133	4	20
Dibromochloromethane	ND		250	264		ug/L		106	70 - 148	4	25
Dibromomethane	ND		250	237		ug/L		95	70 - 130	5	25
Dichlorodifluoromethane	ND		250	179		ug/L		72	25 - 142	1	30
Ethylbenzene	ND		250	260		ug/L		104	70 - 130	1	20
Hexachlorobutadiene	15	J	250	226		ug/L		85	10 - 150	1	20
Isopropylbenzene	ND		250	252		ug/L		101	70 - 132	1	20
m,p-Xylene	ND		250	252		ug/L		101	70 - 133	0	25
Methylene Chloride	ND		250	242		ug/L		97	52 - 130	6	20
Naphthalene	19	J	250	216		ug/L		79	60 - 140	0	30
n-Butylbenzene	ND		250	237		ug/L		95	61 - 149	2	20
N-Propylbenzene	ND		250	259		ug/L		104	66 - 135	0	20
o-Xylene	ND		250	246		ug/L		98	70 - 133	3	20
p-Isopropyltoluene	ND		250	255		ug/L		102	70 - 130	2	20
sec-Butylbenzene	ND		250	258		ug/L		103	67 - 134	2	20
Styrene	ND		250	244		ug/L		98	29 - 150	2	35
tert-Butylbenzene	ND		250	254		ug/L		101	70 - 130	1	20
Tetrachloroethene	ND		250	253		ug/L		101	70 - 137	4	20
Toluene	ND		250	250		ug/L		100	70 - 130	1	20
trans-1,2-Dichloroethene	ND		250	225		ug/L		90	70 - 130	1	20
trans-1,3-Dichloropropene	ND		250	254		ug/L		102	70 - 138	1	25
Trichloroethene	9.5	J	250	242		ug/L		93	70 - 130	3	20
Trichlorofluoromethane	ND		250	212		ug/L		85	60 - 150	1	25
Vinyl chloride	ND		250	212		ug/L		85	50 - 137	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: MB 440-541643/8
Matrix: Water
Analysis Batch: 541643

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/21/19 14:33	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/21/19 14:33	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-541643/8
Matrix: Water
Analysis Batch: 541643

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/21/19 14:33	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/21/19 14:33	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/21/19 14:33	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/21/19 14:33	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/21/19 14:33	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/21/19 14:33	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/21/19 14:33	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/21/19 14:33	1
Benzene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
Bromobenzene	ND		5.0	0.25	ug/L			04/21/19 14:33	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/21/19 14:33	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/21/19 14:33	1
Bromoform	ND		5.0	0.40	ug/L			04/21/19 14:33	1
Bromomethane	ND		5.0	0.25	ug/L			04/21/19 14:33	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/21/19 14:33	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
Chloroethane	ND		5.0	0.40	ug/L			04/21/19 14:33	1
Chloroform	ND		2.0	0.25	ug/L			04/21/19 14:33	1
Chloromethane	ND		5.0	0.25	ug/L			04/21/19 14:33	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/21/19 14:33	1
Dibromomethane	ND		2.0	0.25	ug/L			04/21/19 14:33	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/21/19 14:33	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/21/19 14:33	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/21/19 14:33	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/21/19 14:33	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/21/19 14:33	1
Naphthalene	ND		5.0	0.40	ug/L			04/21/19 14:33	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/21/19 14:33	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
o-Xylene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/21/19 14:33	1
Styrene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/21/19 14:33	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-541643/8
Matrix: Water
Analysis Batch: 541643

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
Toluene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
Trichloroethene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/21/19 14:33	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/21/19 14:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*04/21/19 14:33*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*04/21/19 14:33*	*1*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*04/21/19 14:33*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*04/21/19 14:33*	*1*

Lab Sample ID: LCS 440-541643/5
Matrix: Water
Analysis Batch: 541643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	9.80		ug/L		98	60 - 141
1,1,1-Trichloroethane	10.0	8.50		ug/L		85	70 - 130
1,1,2,2-Tetrachloroethane	10.0	10.5		ug/L		105	63 - 130
1,1,2-Trichloroethane	10.0	9.57		ug/L		96	70 - 130
1,1-Dichloroethane	10.0	10.2		ug/L		102	64 - 130
1,1-Dichloroethene	10.0	9.01		ug/L		90	70 - 130
1,1-Dichloropropene	10.0	9.13		ug/L		91	70 - 130
1,2,3-Trichlorobenzene	10.0	10.0		ug/L		100	60 - 140
1,2,3-Trichloropropane	10.0	9.78	J	ug/L		98	63 - 130
1,2,4-Trichlorobenzene	10.0	10.7		ug/L		107	60 - 140
1,2,4-Trimethylbenzene	10.0	9.55		ug/L		96	70 - 135
1,2-Dibromo-3-Chloropropane	10.0	9.29		ug/L		93	52 - 140
1,2-Dibromoethane (EDB)	10.0	9.88		ug/L		99	70 - 130
1,2-Dichlorobenzene	10.0	9.73		ug/L		97	70 - 130
1,2-Dichloroethane	10.0	9.75		ug/L		97	57 - 138
1,2-Dichloropropane	10.0	10.0		ug/L		100	67 - 130
1,3,5-Trimethylbenzene	10.0	9.62		ug/L		96	70 - 136
1,3-Dichlorobenzene	10.0	9.52		ug/L		95	70 - 130
1,3-Dichloropropane	10.0	9.78		ug/L		98	70 - 130
1,4-Dichlorobenzene	10.0	9.59		ug/L		96	70 - 130
2,2-Dichloropropane	10.0	8.69		ug/L		87	68 - 141
2-Chlorotoluene	10.0	9.52		ug/L		95	70 - 130
4-Chlorotoluene	10.0	10.2		ug/L		102	70 - 130
Benzene	10.0	9.53		ug/L		95	68 - 130
Bromobenzene	10.0	10.0		ug/L		100	70 - 130
Bromochloromethane	10.0	10.0		ug/L		100	70 - 130
Bromodichloromethane	10.0	9.43		ug/L		94	70 - 132
Bromoform	10.0	10.0		ug/L		100	60 - 148
Bromomethane	10.0	9.45		ug/L		94	64 - 139

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-541643/5
Matrix: Water
Analysis Batch: 541643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	10.0	8.47		ug/L		85	60 - 150
Chlorobenzene	10.0	9.65		ug/L		97	70 - 130
Chloroethane	10.0	8.64		ug/L		86	64 - 135
Chloroform	10.0	9.51		ug/L		95	70 - 130
Chloromethane	10.0	9.11		ug/L		91	47 - 140
cis-1,2-Dichloroethene	10.0	9.83		ug/L		98	70 - 133
cis-1,3-Dichloropropene	10.0	10.1		ug/L		101	70 - 133
Dibromochloromethane	10.0	10.3		ug/L		103	69 - 145
Dibromomethane	10.0	9.62		ug/L		96	70 - 130
Dichlorodifluoromethane	10.0	7.69		ug/L		77	29 - 150
Ethylbenzene	10.0	9.97		ug/L		100	70 - 130
Hexachlorobutadiene	10.0	9.70		ug/L		97	10 - 150
Isopropylbenzene	10.0	9.62		ug/L		96	70 - 136
m,p-Xylene	10.0	9.96		ug/L		100	70 - 130
Methylene Chloride	10.0	9.26		ug/L		93	52 - 130
Naphthalene	10.0	9.27		ug/L		93	60 - 140
n-Butylbenzene	10.0	9.75		ug/L		97	65 - 150
N-Propylbenzene	10.0	9.38		ug/L		94	67 - 139
o-Xylene	10.0	10.3		ug/L		103	70 - 130
p-Isopropyltoluene	10.0	9.64		ug/L		96	70 - 132
sec-Butylbenzene	10.0	9.62		ug/L		96	70 - 138
Styrene	10.0	10.5		ug/L		105	70 - 134
tert-Butylbenzene	10.0	9.71		ug/L		97	70 - 130
Tetrachloroethene	10.0	9.07		ug/L		91	70 - 130
Toluene	10.0	9.44		ug/L		94	70 - 130
trans-1,2-Dichloroethene	10.0	9.43		ug/L		94	70 - 130
trans-1,3-Dichloropropene	10.0	10.3		ug/L		103	70 - 132
Trichloroethene	10.0	9.15		ug/L		91	70 - 130
Trichlorofluoromethane	10.0	9.88		ug/L		99	60 - 150
Vinyl chloride	10.0	9.13		ug/L		91	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*76 - 132*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 440-238447-A-1 MS
Matrix: Water
Analysis Batch: 541643

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		10.0	10.5		ug/L		105	60 - 149
1,1,1-Trichloroethane	ND		10.0	10.1		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	ND		10.0	10.7		ug/L		107	63 - 130
1,1,2-Trichloroethane	ND		10.0	10.7		ug/L		107	70 - 130
1,1-Dichloroethane	0.35	J	10.0	10.6		ug/L		103	65 - 130
1,1-Dichloroethene	ND		10.0	10.4		ug/L		104	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238447-A-1 MS
Matrix: Water
Analysis Batch: 541643

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloropropene	ND		10.0	10.5		ug/L		105	64 - 130
1,2,3-Trichlorobenzene	1.5	J	10.0	11.9		ug/L		103	60 - 140
1,2,3-Trichloropropane	ND		10.0	10.4		ug/L		104	60 - 130
1,2,4-Trichlorobenzene	7.3		10.0	19.4		ug/L		121	60 - 140
1,2,4-Trimethylbenzene	ND		10.0	10.0		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	ND		10.0	10.3		ug/L		103	48 - 140
1,2-Dibromoethane (EDB)	ND		10.0	10.5		ug/L		105	70 - 131
1,2-Dichlorobenzene	1.3	J	10.0	11.3		ug/L		100	70 - 130
1,2-Dichloroethane	ND		10.0	9.55		ug/L		95	56 - 146
1,2-Dichloropropane	ND		10.0	10.4		ug/L		104	69 - 130
1,3,5-Trimethylbenzene	ND		10.0	10.0		ug/L		100	70 - 130
1,3-Dichlorobenzene	ND		10.0	10.2		ug/L		102	70 - 130
1,3-Dichloropropane	ND		10.0	10.5		ug/L		105	70 - 130
1,4-Dichlorobenzene	2.4		10.0	12.6		ug/L		103	70 - 130
2,2-Dichloropropane	ND		10.0	10.0		ug/L		100	69 - 138
2-Chlorotoluene	ND		10.0	10.1		ug/L		101	70 - 130
4-Chlorotoluene	ND		10.0	10.4		ug/L		104	70 - 130
Benzene	0.61	J	10.0	10.8		ug/L		102	66 - 130
Bromobenzene	ND		10.0	10.2		ug/L		102	70 - 130
Bromochloromethane	ND		10.0	10.8		ug/L		108	70 - 130
Bromodichloromethane	ND		10.0	10.3		ug/L		103	70 - 138
Bromoform	ND		10.0	10.5		ug/L		105	59 - 150
Bromomethane	ND		10.0	10.5		ug/L		105	62 - 131
Carbon tetrachloride	ND		10.0	9.80		ug/L		98	60 - 150
Chlorobenzene	21		10.0	30.9		ug/L		101	70 - 130
Chloroethane	ND		10.0	9.98		ug/L		100	68 - 130
Chloroform	0.72	J	10.0	10.3		ug/L		95	70 - 130
Chloromethane	ND		10.0	9.95		ug/L		100	39 - 144
cis-1,2-Dichloroethene	ND		10.0	10.5		ug/L		105	70 - 130
cis-1,3-Dichloropropene	ND		10.0	10.9		ug/L		109	70 - 133
Dibromochloromethane	ND		10.0	11.0		ug/L		110	70 - 148
Dibromomethane	ND		10.0	9.97		ug/L		100	70 - 130
Dichlorodifluoromethane	ND		10.0	8.89		ug/L		89	25 - 142
Ethylbenzene	ND		10.0	10.1		ug/L		101	70 - 130
Hexachlorobutadiene	ND		10.0	10.1		ug/L		101	10 - 150
Isopropylbenzene	ND		10.0	10.5		ug/L		105	70 - 132
m,p-Xylene	ND		10.0	10.7		ug/L		107	70 - 133
Methylene Chloride	ND		10.0	9.67		ug/L		97	52 - 130
Naphthalene	ND		10.0	9.95		ug/L		100	60 - 140
n-Butylbenzene	ND		10.0	10.4		ug/L		104	61 - 149
N-Propylbenzene	ND		10.0	9.90		ug/L		99	66 - 135
o-Xylene	ND		10.0	10.9		ug/L		109	70 - 133
p-Isopropyltoluene	ND		10.0	10.2		ug/L		102	70 - 130
sec-Butylbenzene	ND		10.0	10.1		ug/L		101	67 - 134
Styrene	ND		10.0	10.5		ug/L		105	29 - 150
tert-Butylbenzene	ND		10.0	10.4		ug/L		104	70 - 130
Tetrachloroethene	ND		10.0	10.0		ug/L		100	70 - 137
Toluene	ND		10.0	10.0		ug/L		100	70 - 130
trans-1,2-Dichloroethene	ND		10.0	10.4		ug/L		104	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238447-A-1 MS
Matrix: Water
Analysis Batch: 541643

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	ND		10.0	11.2		ug/L		112	70 - 138
Trichloroethene	ND		10.0	10.2		ug/L		102	70 - 130
Trichlorofluoromethane	ND		10.0	10.0		ug/L		100	60 - 150
Vinyl chloride	ND		10.0	10.1		ug/L		101	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
Toluene-d8 (Surr)	*101*		*80 - 128*

Lab Sample ID: 440-238447-A-1 MSD
Matrix: Water
Analysis Batch: 541643

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		10.0	10.0		ug/L		100	60 - 149	4	20
1,1,1-Trichloroethane	ND		10.0	9.50		ug/L		95	70 - 130	6	20
1,1,2,2-Tetrachloroethane	ND		10.0	10.2		ug/L		102	63 - 130	5	30
1,1,2-Trichloroethane	ND		10.0	10.5		ug/L		105	70 - 130	2	25
1,1-Dichloroethane	0.35	J	10.0	11.0		ug/L		106	65 - 130	3	20
1,1-Dichloroethene	ND		10.0	9.79		ug/L		98	70 - 130	6	20
1,1-Dichloropropene	ND		10.0	10.6		ug/L		106	64 - 130	1	20
1,2,3-Trichlorobenzene	1.5	J	10.0	11.7		ug/L		102	60 - 140	2	20
1,2,3-Trichloropropane	ND		10.0	10.1		ug/L		101	60 - 130	2	30
1,2,4-Trichlorobenzene	7.3		10.0	18.9		ug/L		116	60 - 140	3	20
1,2,4-Trimethylbenzene	ND		10.0	9.96		ug/L		100	70 - 130	1	25
1,2-Dibromo-3-Chloropropane	ND		10.0	9.80		ug/L		98	48 - 140	5	30
1,2-Dibromoethane (EDB)	ND		10.0	10.1		ug/L		101	70 - 131	4	25
1,2-Dichlorobenzene	1.3	J	10.0	11.3		ug/L		100	70 - 130	0	20
1,2-Dichloroethane	ND		10.0	9.19		ug/L		92	56 - 146	4	20
1,2-Dichloropropane	ND		10.0	10.9		ug/L		109	69 - 130	5	20
1,3,5-Trimethylbenzene	ND		10.0	10.1		ug/L		101	70 - 130	1	20
1,3-Dichlorobenzene	ND		10.0	10.3		ug/L		103	70 - 130	1	20
1,3-Dichloropropane	ND		10.0	9.88		ug/L		99	70 - 130	6	25
1,4-Dichlorobenzene	2.4		10.0	11.8		ug/L		95	70 - 130	7	20
2,2-Dichloropropane	ND		10.0	9.45		ug/L		95	69 - 138	6	25
2-Chlorotoluene	ND		10.0	9.90		ug/L		99	70 - 130	2	20
4-Chlorotoluene	ND		10.0	10.4		ug/L		104	70 - 130	0	20
Benzene	0.61	J	10.0	10.1		ug/L		95	66 - 130	6	20
Bromobenzene	ND		10.0	9.89		ug/L		99	70 - 130	3	20
Bromochloromethane	ND		10.0	10.3		ug/L		103	70 - 130	4	25
Bromodichloromethane	ND		10.0	10.1		ug/L		101	70 - 138	3	20
Bromoform	ND		10.0	10.2		ug/L		102	59 - 150	3	25
Bromomethane	ND		10.0	9.47		ug/L		95	62 - 131	10	25
Carbon tetrachloride	ND		10.0	9.41		ug/L		94	60 - 150	4	25
Chlorobenzene	21		10.0	29.6		ug/L		88	70 - 130	4	20
Chloroethane	ND		10.0	9.53		ug/L		95	68 - 130	5	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238447-A-1 MSD
Matrix: Water
Analysis Batch: 541643

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform	0.72	J	10.0	10.5		ug/L		98	70 - 130	3	20
Chloromethane	ND		10.0	9.03		ug/L		90	39 - 144	10	25
cis-1,2-Dichloroethene	ND		10.0	10.8		ug/L		108	70 - 130	3	20
cis-1,3-Dichloropropene	ND		10.0	10.4		ug/L		104	70 - 133	4	20
Dibromochloromethane	ND		10.0	10.8		ug/L		108	70 - 148	2	25
Dibromomethane	ND		10.0	9.34		ug/L		93	70 - 130	7	25
Dichlorodifluoromethane	ND		10.0	8.43		ug/L		84	25 - 142	5	30
Ethylbenzene	ND		10.0	10.3		ug/L		103	70 - 130	2	20
Hexachlorobutadiene	ND		10.0	9.71		ug/L		97	10 - 150	4	20
Isopropylbenzene	ND		10.0	10.3		ug/L		103	70 - 132	2	20
m,p-Xylene	ND		10.0	10.2		ug/L		102	70 - 133	5	25
Methylene Chloride	ND		10.0	9.35		ug/L		94	52 - 130	3	20
Naphthalene	ND		10.0	9.58		ug/L		96	60 - 140	4	30
n-Butylbenzene	ND		10.0	10.1		ug/L		101	61 - 149	2	20
N-Propylbenzene	ND		10.0	9.82		ug/L		98	66 - 135	1	20
o-Xylene	ND		10.0	10.7		ug/L		107	70 - 133	1	20
p-Isopropyltoluene	ND		10.0	10.1		ug/L		101	70 - 130	2	20
sec-Butylbenzene	ND		10.0	10.2		ug/L		102	67 - 134	0	20
Styrene	ND		10.0	10.2		ug/L		102	29 - 150	3	35
tert-Butylbenzene	ND		10.0	10.4		ug/L		104	70 - 130	0	20
Tetrachloroethene	ND		10.0	10.3		ug/L		103	70 - 137	3	20
Toluene	ND		10.0	10.1		ug/L		101	70 - 130	0	20
trans-1,2-Dichloroethene	ND		10.0	9.91		ug/L		99	70 - 130	5	20
trans-1,3-Dichloropropene	ND		10.0	10.0		ug/L		100	70 - 138	11	25
Trichloroethene	ND		10.0	9.84		ug/L		98	70 - 130	3	20
Trichlorofluoromethane	ND		10.0	9.58		ug/L		96	60 - 150	4	25
Vinyl chloride	ND		10.0	9.36		ug/L		94	50 - 137	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*76 - 132*
Toluene-d8 (Surr)	*102*		*80 - 128*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-539643/1-A
Matrix: Water
Analysis Batch: 540074

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/11/19 05:47	04/12/19 16:41	1
2,4'-DDE	ND		0.10	0.020	ug/L		04/11/19 05:47	04/12/19 16:41	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/11/19 05:47	04/12/19 16:41	1
4,4'-DDD	ND		0.10	0.0040	ug/L		04/11/19 05:47	04/12/19 16:41	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/11/19 05:47	04/12/19 16:41	1
4,4'-DDT	ND		0.10	0.0040	ug/L		04/11/19 05:47	04/12/19 16:41	1
Aldrin	ND		0.0050	0.0015	ug/L		04/11/19 05:47	04/12/19 16:41	1
alpha-BHC	ND		0.0050	0.0025	ug/L		04/11/19 05:47	04/12/19 16:41	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 440-539643/1-A
Matrix: Water
Analysis Batch: 540074

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	ND		0.010	0.0040	ug/L		04/11/19 05:47	04/12/19 16:41	1
Chlordane	ND		0.10	0.080	ug/L		04/11/19 05:47	04/12/19 16:41	1
delta-BHC	ND		0.20	0.0035	ug/L		04/11/19 05:47	04/12/19 16:41	1
Dieldrin	ND		0.0050	0.0020	ug/L		04/11/19 05:47	04/12/19 16:41	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/11/19 05:47	04/12/19 16:41	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/11/19 05:47	04/12/19 16:41	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/11/19 05:47	04/12/19 16:41	1
Endrin	ND		0.10	0.0020	ug/L		04/11/19 05:47	04/12/19 16:41	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/11/19 05:47	04/12/19 16:41	1
Endrin ketone	ND		0.10	0.0070	ug/L		04/11/19 05:47	04/12/19 16:41	1
gamma-BHC (Lindane)	ND		0.10	0.0030	ug/L		04/11/19 05:47	04/12/19 16:41	1
Heptachlor	ND		0.010	0.0030	ug/L		04/11/19 05:47	04/12/19 16:41	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/11/19 05:47	04/12/19 16:41	1
Methoxychlor	ND		0.10	0.0035	ug/L		04/11/19 05:47	04/12/19 16:41	1
Toxaphene	ND		5.0	0.25	ug/L		04/11/19 05:47	04/12/19 16:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*56*		*28 - 108*	*04/11/19 05:47*	*04/12/19 16:41*	*1*
Tetrachloro-m-xylene	*41*		*10 - 123*	*04/11/19 05:47*	*04/12/19 16:41*	*1*

Lab Sample ID: LCS 440-539643/2-A
Matrix: Water
Analysis Batch: 540074

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539643

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4'-DDD	0.250	0.155		ug/L		62	10 - 150
2,4'-DDE	0.250	0.155		ug/L		62	10 - 150
2,4'-DDT	0.250	0.157		ug/L		63	10 - 150
4,4'-DDD	0.250	0.166		ug/L		66	50 - 128
4,4'-DDE	0.250	0.167		ug/L		67	49 - 121
4,4'-DDT	0.250	0.169		ug/L		68	41 - 140
Aldrin	0.250	0.128		ug/L		51	37 - 115
alpha-BHC	0.250	0.161		ug/L		64	44 - 115
beta-BHC	0.250	0.160		ug/L		64	46 - 121
delta-BHC	0.250	0.168	J	ug/L		67	32 - 129
Dieldrin	0.250	0.160		ug/L		64	39 - 126
Endosulfan I	0.250	0.160		ug/L		64	47 - 115
Endosulfan II	0.250	0.165		ug/L		66	47 - 120
Endosulfan sulfate	0.250	0.160	J	ug/L		64	48 - 126
Endrin	0.250	0.165		ug/L		66	43 - 127
Endrin aldehyde	0.250	0.156		ug/L		62	43 - 120
Endrin ketone	0.250	0.162		ug/L		65	47 - 123
gamma-BHC (Lindane)	0.250	0.160		ug/L		64	45 - 116
Heptachlor	0.250	0.140		ug/L		56	37 - 115
Heptachlor epoxide	0.250	0.158		ug/L		63	41 - 129
Methoxychlor	0.250	0.172		ug/L		69	44 - 141

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-539643/2-A
Matrix: Water
Analysis Batch: 540074

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539643

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*68*		*28 - 108*
Tetrachloro-m-xylene	*50*		*10 - 123*

Lab Sample ID: 440-238447-G-1-A MS
Matrix: Water
Analysis Batch: 540074

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 539643

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4'-DDD	ND		0.243	0.174		ug/L		72	50 - 125
2,4'-DDE	ND	F1	0.243	0.513	F1	ug/L		211	45 - 125
2,4'-DDT	ND		0.243	0.190		ug/L		78	50 - 125
4,4'-DDD	ND		0.243	0.179		ug/L		74	50 - 125
4,4'-DDE	ND		0.243	0.173		ug/L		71	45 - 125
4,4'-DDT	ND		0.243	0.184		ug/L		76	50 - 125
Aldrin	ND		0.243	0.168		ug/L		69	35 - 120
alpha-BHC	0.78		0.243	0.965		ug/L		76	40 - 120
beta-BHC	6.3	E	0.243	6.56	E 4	ug/L		119	50 - 120
delta-BHC	0.18	J	0.243	0.362		ug/L		75	50 - 120
Dieldrin	0.0020	J p	0.243	0.167		ug/L		69	50 - 120
Endosulfan I	ND		0.243	0.227		ug/L		94	50 - 120
Endosulfan II	ND		0.243	0.176		ug/L		72	50 - 125
Endosulfan sulfate	ND		0.243	0.169	J	ug/L		70	55 - 125
Endrin	ND		0.243	0.195		ug/L		81	50 - 120
Endrin aldehyde	ND		0.243	0.168		ug/L		69	45 - 125
Endrin ketone	ND		0.243	0.167		ug/L		69	50 - 125
gamma-BHC (Lindane)	0.046	J	0.243	0.212		ug/L		68	40 - 120
Heptachlor	ND		0.243	0.201		ug/L		83	40 - 120
Heptachlor epoxide	ND		0.243	0.200		ug/L		83	50 - 120
Methoxychlor	ND		0.243	0.185		ug/L		76	55 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*72*		*28 - 108*
Tetrachloro-m-xylene	*54*		*10 - 123*

Lab Sample ID: 440-238447-G-1-B MSD
Matrix: Water
Analysis Batch: 540074

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 539643

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4'-DDD	ND		0.254	0.181		ug/L		71	50 - 125	4	30
2,4'-DDE	ND	F1	0.254	0.536	F1	ug/L		211	45 - 125	4	30
2,4'-DDT	ND		0.254	0.197		ug/L		78	50 - 125	4	30
4,4'-DDD	ND		0.254	0.188		ug/L		74	50 - 125	4	30
4,4'-DDE	ND		0.254	0.180		ug/L		71	45 - 125	4	30
4,4'-DDT	ND		0.254	0.192		ug/L		76	50 - 125	4	30
Aldrin	ND		0.254	0.176		ug/L		69	35 - 120	4	30
alpha-BHC	0.78		0.254	1.01		ug/L		90	40 - 120	4	30
beta-BHC	6.3	E	0.254	6.82	E 4	ug/L		215	50 - 120	4	30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-238447-G-1-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540074 — **Prep Batch: 539643**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
delta-BHC	0.18	J	0.254	0.380		ug/L		79	50 - 120	5	30
Dieldrin	0.0020	J p	0.254	0.174		ug/L		68	50 - 120	4	30
Endosulfan I	ND		0.254	0.235		ug/L		93	50 - 120	4	30
Endosulfan II	ND		0.254	0.183		ug/L		72	50 - 125	4	30
Endosulfan sulfate	ND		0.254	0.175	J	ug/L		69	55 - 125	4	30
Endrin	ND		0.254	0.203		ug/L		80	50 - 120	4	30
Endrin aldehyde	ND		0.254	0.175		ug/L		69	45 - 125	4	30
Endrin ketone	ND		0.254	0.174		ug/L		68	50 - 125	4	30
gamma-BHC (Lindane)	0.046	J	0.254	0.225		ug/L		70	40 - 120	6	30
Heptachlor	ND		0.254	0.214		ug/L		84	40 - 120	6	30
Heptachlor epoxide	ND		0.254	0.209		ug/L		82	50 - 120	4	30
Methoxychlor	ND		0.254	0.195		ug/L		77	55 - 125	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*71*		*28 - 108*
Tetrachloro-m-xylene	*54*		*10 - 123*

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 440-541940/7 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541940

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/23/19 10:22	1

Lab Sample ID: LCS 440-541940/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541940

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	25.0	24.6		ug/L		98	85 - 115

Lab Sample ID: MRL 440-541940/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541940

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	1.00	ND		ug/L		92	75 - 125

Lab Sample ID: 440-239111-E-2 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541940

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	1.6	J	25.0	27.3		ug/L		103	80 - 120

Method: 314.0 - Perchlorate (IC) (Continued)

Lab Sample ID: 440-239111-E-2 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541940

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	1.6	J	25.0	27.1		ug/L		102	80 - 120	1	15

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 440-539961/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 540085 — **Prep Batch: 539961**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.10	ug/L		04/12/19 08:13	04/12/19 14:08	1
Barium	ND		0.20	0.10	ug/L		04/12/19 08:13	04/12/19 14:08	1
Cadmium	ND		0.10	0.050	ug/L		04/12/19 08:13	04/12/19 14:08	1
Chromium	ND		0.50	0.25	ug/L		04/12/19 08:13	04/12/19 14:08	1
Lead	ND		0.10	0.050	ug/L		04/12/19 08:13	04/12/19 14:08	1
Selenium	ND		0.60	0.30	ug/L		04/12/19 08:13	04/12/19 14:08	1
Silver	ND		0.20	0.10	ug/L		04/12/19 08:13	04/12/19 14:08	1
Uranium	ND		0.10	0.050	ug/L		04/12/19 08:13	04/12/19 14:08	1

Lab Sample ID: LCS 440-539961/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 540085 — **Prep Batch: 539961**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	80.0	79.1		ug/L		99	80 - 120
Barium	80.0	81.2		ug/L		101	80 - 120
Cadmium	80.0	80.2		ug/L		100	80 - 120
Chromium	80.0	81.8		ug/L		102	80 - 120
Lead	80.0	81.1		ug/L		101	80 - 120
Selenium	80.0	78.4		ug/L		98	80 - 120
Silver	80.0	79.6		ug/L		99	80 - 120
Uranium	80.0	83.1		ug/L		104	80 - 120

Lab Sample ID: 440-238447-F-1-B MS ^10 — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 540085 — **Prep Batch: 539961**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100		80.0	179		ug/L		96	75 - 125
Barium	28		80.0	112		ug/L		104	75 - 125
Cadmium	1.1		80.0	74.0		ug/L		91	75 - 125
Chromium	ND		80.0	78.0		ug/L		98	75 - 125
Lead	0.94	J	80.0	74.2		ug/L		92	75 - 125
Selenium	ND		80.0	67.1		ug/L		84	75 - 125
Silver	1.6	J	80.0	73.5		ug/L		90	75 - 125
Uranium	22		80.0	99.2		ug/L		97	75 - 125

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 440-238447-F-1-D MSD ^10 — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 540085 — **Prep Batch: 539961**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	100		80.0	191		ug/L		111	75 - 125	6	20
Barium	28		80.0	116		ug/L		109	75 - 125	4	20
Cadmium	1.1		80.0	77.7		ug/L		96	75 - 125	5	20
Chromium	ND		80.0	82.6		ug/L		103	75 - 125	6	20
Lead	0.94	J	80.0	77.6		ug/L		96	75 - 125	5	20
Selenium	ND		80.0	72.5		ug/L		91	75 - 125	8	20
Silver	1.6	J	80.0	76.4		ug/L		94	75 - 125	4	20
Uranium	22		80.0	104		ug/L		103	75 - 125	5	20

Lab Sample ID: MB 440-540321/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 540518 — **Prep Batch: 540321**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.10	ug/L		04/15/19 08:08	04/15/19 21:08	1
Barium	0.443		0.20	0.10	ug/L		04/15/19 08:08	04/15/19 21:08	1
Cadmium	ND		0.10	0.050	ug/L		04/15/19 08:08	04/15/19 21:08	1
Chromium	0.651		0.50	0.25	ug/L		04/15/19 08:08	04/15/19 21:08	1
Lead	ND		0.10	0.050	ug/L		04/15/19 08:08	04/15/19 21:08	1
Selenium	ND		0.60	0.30	ug/L		04/15/19 08:08	04/15/19 21:08	1
Silver	ND		0.20	0.10	ug/L		04/15/19 08:08	04/15/19 21:08	1
Uranium	ND		0.10	0.050	ug/L		04/15/19 08:08	04/15/19 21:08	1

Lab Sample ID: LCS 440-540321/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 540518 — **Prep Batch: 540321**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	80.0	77.8		ug/L		97	80 - 120
Barium	80.0	77.6		ug/L		97	80 - 120
Cadmium	80.0	78.6		ug/L		98	80 - 120
Chromium	80.0	78.5		ug/L		98	80 - 120
Lead	80.0	78.0		ug/L		97	80 - 120
Selenium	80.0	77.4		ug/L		97	80 - 120
Silver	80.0	77.2		ug/L		97	80 - 120
Uranium	80.0	78.3		ug/L		98	80 - 120

Lab Sample ID: 440-238444-7 MS — **Client Sample ID: MW-A-J-20190409**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 540518 — **Prep Batch: 540321**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	87		80.0	164		ug/L		97	75 - 125
Barium	91	F1 B	80.0	230	F1	ug/L		173	75 - 125
Cadmium	1.2		80.0	75.4		ug/L		93	75 - 125
Chromium	19	B	80.0	97.2		ug/L		97	75 - 125
Lead	9.5		80.0	82.7		ug/L		91	75 - 125
Selenium	10		80.0	79.8		ug/L		87	75 - 125
Silver	ND		80.0	72.4		ug/L		91	75 - 125

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 440-238444-7 MS — **Client Sample ID: MW-A-J-20190409**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 540518 — **Prep Batch: 540321**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Uranium	33		80.0	104		ug/L		90	75 - 125		

Lab Sample ID: 440-238444-7 MSD — **Client Sample ID: MW-A-J-20190409**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 540518 — **Prep Batch: 540321**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	87		80.0	172		ug/L		106	75 - 125	5	20
Barium	91	F1 B	80.0	254	F1	ug/L		203	75 - 125	10	20
Cadmium	1.2		80.0	78.6		ug/L		97	75 - 125	4	20
Chromium	19	B	80.0	105		ug/L		107	75 - 125	8	20
Lead	9.5		80.0	87.8		ug/L		98	75 - 125	6	20
Selenium	10		80.0	83.3		ug/L		91	75 - 125	4	20
Silver	ND		80.0	76.4		ug/L		96	75 - 125	5	20
Uranium	33		80.0	111		ug/L		98	75 - 125	6	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 440-542329/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542977 — **Prep Batch: 542329**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/26/19 09:00	04/26/19 13:41	1

Lab Sample ID: LCS 440-542329/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542977 — **Prep Batch: 542329**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00400	0.00434		mg/L		109	80 - 120		

Lab Sample ID: 440-238631-A-1-G MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542977 — **Prep Batch: 542329**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		0.00400	0.00437		mg/L		109	75 - 125		

Lab Sample ID: 440-238631-A-1-H MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542977 — **Prep Batch: 542329**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00400	0.00433		mg/L		108	75 - 125	1	20

QC Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 440-540322/1
Matrix: Water
Analysis Batch: 540322

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			04/15/19 08:40	1

Lab Sample ID: LCS 440-540322/2
Matrix: Water
Analysis Batch: 540322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	1010		mg/L		101	90 - 110		

Lab Sample ID: 440-238370-B-2 DU
Matrix: Water
Analysis Batch: 540322

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	680			663		mg/L				2	5

QC Association Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

GC/MS VOA

Analysis Batch: 541250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238444-1	TB-20190409	Total/NA	Water	8260B	
440-238444-2	PL-505-20190409	Total/NA	Water	8260B	
440-238444-3	PL-506-20190409	Total/NA	Water	8260B	
440-238444-4	MW-R-20190409	Total/NA	Water	8260B	
440-238444-5	PC-028-20190409	Total/NA	Water	8260B	
440-238444-6	PC-031-20190409	Total/NA	Water	8260B	
MB 440-541250/5	Method Blank	Total/NA	Water	8260B	
LCS 440-541250/6	Lab Control Sample	Total/NA	Water	8260B	
440-238127-A-13 MS	Matrix Spike	Total/NA	Water	8260B	
440-238127-A-13 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 541643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238444-7	MW-A-J-20190409	Total/NA	Water	8260B	
440-238444-8	PC-064-20190409	Total/NA	Water	8260B	
MB 440-541643/8	Method Blank	Total/NA	Water	8260B	
LCS 440-541643/5	Lab Control Sample	Total/NA	Water	8260B	
440-238447-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-238447-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 539643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238444-3 - DL	PL-506-20190409	Total/NA	Water	3510C	
440-238444-3	PL-506-20190409	Total/NA	Water	3510C	
440-238444-4	MW-R-20190409	Total/NA	Water	3510C	
440-238444-5	PC-028-20190409	Total/NA	Water	3510C	
440-238444-6 - DL	PC-031-20190409	Total/NA	Water	3510C	
440-238444-6	PC-031-20190409	Total/NA	Water	3510C	
440-238444-7 - DL	MW-A-J-20190409	Total/NA	Water	3510C	
440-238444-7	MW-A-J-20190409	Total/NA	Water	3510C	
440-238444-8	PC-064-20190409	Total/NA	Water	3510C	
MB 440-539643/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-539643/2-A	Lab Control Sample	Total/NA	Water	3510C	
440-238447-G-1-A MS	Matrix Spike	Total/NA	Water	3510C	
440-238447-G-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 540074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238444-3	PL-506-20190409	Total/NA	Water	8081A	539643
440-238444-3 - DL	PL-506-20190409	Total/NA	Water	8081A	539643
440-238444-4	MW-R-20190409	Total/NA	Water	8081A	539643
440-238444-5	PC-028-20190409	Total/NA	Water	8081A	539643
440-238444-6	PC-031-20190409	Total/NA	Water	8081A	539643
440-238444-6 - DL	PC-031-20190409	Total/NA	Water	8081A	539643
440-238444-7	MW-A-J-20190409	Total/NA	Water	8081A	539643
440-238444-7 - DL	MW-A-J-20190409	Total/NA	Water	8081A	539643
440-238444-8	PC-064-20190409	Total/NA	Water	8081A	539643
MB 440-539643/1-A	Method Blank	Total/NA	Water	8081A	539643
LCS 440-539643/2-A	Lab Control Sample	Total/NA	Water	8081A	539643

GC Semi VOA (Continued)

Analysis Batch: 540074 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238447-G-1-A MS	Matrix Spike	Total/NA	Water	8081A	539643
440-238447-G-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8081A	539643

HPLC/IC

Analysis Batch: 541940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238444-3	PL-506-20190409	Total/NA	Water	314.0	
440-238444-4	MW-R-20190409	Total/NA	Water	314.0	
440-238444-5	PC-028-20190409	Total/NA	Water	314.0	
440-238444-6	PC-031-20190409	Total/NA	Water	314.0	
440-238444-7	MW-A-J-20190409	Total/NA	Water	314.0	
440-238444-8	PC-064-20190409	Total/NA	Water	314.0	
MB 440-541940/7	Method Blank	Total/NA	Water	314.0	
LCS 440-541940/6	Lab Control Sample	Total/NA	Water	314.0	
MRL 440-541940/5	Lab Control Sample	Total/NA	Water	314.0	
440-239111-E-2 MS	Matrix Spike	Total/NA	Water	314.0	
440-239111-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0	

Metals

Prep Batch: 539961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238444-3	PL-506-20190409	Total Recoverable	Water	3005A	
440-238444-4	MW-R-20190409	Total Recoverable	Water	3005A	
440-238444-5	PC-028-20190409	Total Recoverable	Water	3005A	
440-238444-6	PC-031-20190409	Total Recoverable	Water	3005A	
440-238444-8	PC-064-20190409	Total Recoverable	Water	3005A	
MB 440-539961/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-539961/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-238447-F-1-B MS ^10	Matrix Spike	Total Recoverable	Water	3005A	
440-238447-F-1-D MSD ^10	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 540085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238444-3	PL-506-20190409	Total Recoverable	Water	6020	539961
440-238444-4	MW-R-20190409	Total Recoverable	Water	6020	539961
440-238444-5	PC-028-20190409	Total Recoverable	Water	6020	539961
440-238444-6	PC-031-20190409	Total Recoverable	Water	6020	539961
440-238444-8	PC-064-20190409	Total Recoverable	Water	6020	539961
MB 440-539961/1-A	Method Blank	Total Recoverable	Water	6020	539961
LCS 440-539961/2-A	Lab Control Sample	Total Recoverable	Water	6020	539961
440-238447-F-1-B MS ^10	Matrix Spike	Total Recoverable	Water	6020	539961
440-238447-F-1-D MSD ^10	Matrix Spike Duplicate	Total Recoverable	Water	6020	539961

Prep Batch: 540321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238444-7	MW-A-J-20190409	Total Recoverable	Water	3005A	
MB 440-540321/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-540321/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-238444-7 MS	MW-A-J-20190409	Total Recoverable	Water	3005A	
440-238444-7 MSD	MW-A-J-20190409	Total Recoverable	Water	3005A	

QC Association Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Metals

Analysis Batch: 540518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238444-7	MW-A-J-20190409	Total Recoverable	Water	6020	540321
MB 440-540321/1-A	Method Blank	Total Recoverable	Water	6020	540321
LCS 440-540321/2-A	Lab Control Sample	Total Recoverable	Water	6020	540321
440-238444-7 MS	MW-A-J-20190409	Total Recoverable	Water	6020	540321
440-238444-7 MSD	MW-A-J-20190409	Total Recoverable	Water	6020	540321

Prep Batch: 542329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238444-3	PL-506-20190409	Total/NA	Water	7470A	
440-238444-4	MW-R-20190409	Total/NA	Water	7470A	
440-238444-5	PC-028-20190409	Total/NA	Water	7470A	
440-238444-6	PC-031-20190409	Total/NA	Water	7470A	
440-238444-7	MW-A-J-20190409	Total/NA	Water	7470A	
440-238444-8	PC-064-20190409	Total/NA	Water	7470A	
MB 440-542329/1-A	Method Blank	Total/NA	Water	7470A	
LCS 440-542329/2-A	Lab Control Sample	Total/NA	Water	7470A	
440-238631-A-1-G MS	Matrix Spike	Total/NA	Water	7470A	
440-238631-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 542977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238444-3	PL-506-20190409	Total/NA	Water	7470A	542329
440-238444-4	MW-R-20190409	Total/NA	Water	7470A	542329
440-238444-5	PC-028-20190409	Total/NA	Water	7470A	542329
440-238444-6	PC-031-20190409	Total/NA	Water	7470A	542329
440-238444-7	MW-A-J-20190409	Total/NA	Water	7470A	542329
440-238444-8	PC-064-20190409	Total/NA	Water	7470A	542329
MB 440-542329/1-A	Method Blank	Total/NA	Water	7470A	542329
LCS 440-542329/2-A	Lab Control Sample	Total/NA	Water	7470A	542329
440-238631-A-1-G MS	Matrix Spike	Total/NA	Water	7470A	542329
440-238631-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	542329

General Chemistry

Analysis Batch: 540322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238444-3	PL-506-20190409	Total/NA	Water	SM 2540C	
440-238444-4	MW-R-20190409	Total/NA	Water	SM 2540C	
440-238444-5	PC-028-20190409	Total/NA	Water	SM 2540C	
440-238444-6	PC-031-20190409	Total/NA	Water	SM 2540C	
440-238444-7	MW-A-J-20190409	Total/NA	Water	SM 2540C	
440-238444-8	PC-064-20190409	Total/NA	Water	SM 2540C	
MB 440-540322/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-540322/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-238370-B-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238444-1
SDG: Henderson NV

Laboratory: Eurofins TestAmerica, Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Nevada	State Program	9	CA015312018-1	07-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8081A	3510C	Water	2,4'-DDD
8081A	3510C	Water	2,4'-DDE
8081A	3510C	Water	2,4'-DDT
8081A	3510C	Water	4,4'-DDD
8081A	3510C	Water	4,4'-DDE
8081A	3510C	Water	4,4'-DDT
8081A	3510C	Water	Aldrin
8081A	3510C	Water	alpha-BHC
8081A	3510C	Water	beta-BHC
8081A	3510C	Water	Chlordane
8081A	3510C	Water	delta-BHC
8081A	3510C	Water	Dieldrin
8081A	3510C	Water	Endosulfan I
8081A	3510C	Water	Endosulfan II
8081A	3510C	Water	Endosulfan sulfate
8081A	3510C	Water	Endrin
8081A	3510C	Water	Endrin aldehyde
8081A	3510C	Water	Endrin ketone
8081A	3510C	Water	gamma-BHC (Lindane)
8081A	3510C	Water	Heptachlor
8081A	3510C	Water	Heptachlor epoxide
8081A	3510C	Water	Methoxychlor
8081A	3510C	Water	Toxaphene
8260B		Water	Dimethyl disulfide

2316

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Nicole Bradley, Dean Charles	Site Contact: Kevin Paprocki	Date: 4/09/19	COC No:
de maximis, Inc.	Tel/Fax: 619-546-8377	Lab Contact: Danielle Roberts	Carrier:	____ of ____ COCs
1322 Scott St., Suite 101	*Analysis Turnaround Time*			Job No. **3200C**
San Diego, CA 92106	Calendar (C) or Work Days (W)___ W___			SDG No.
(619) 546-8377 Phone	TAT if different from Below_____			
(619) 546-9980 Fax	☒ 2 weeks			
Project Name: **3200C Henderson Sitewide**	☐ 1 week			
Site: Henderson, NV	☐ 2 days			
PO#	☐ 1 day			

Sample Identification	Container Type	Sample Date	Sample Time	Preservation Type	Matrix	# of Containers	8260B-HEND-Qtrly	8081A – Pesticides	RCRA 8 Metals + Uranium - 7470A & 6020	TDS – SM2540C	Perchlorate 314							VOC concentration > 500 ppb	MS/MSD REQUIRED	LEVEL 2A REQUIRED	Sample Specific Notes
TB-20190409	VOA	4/09/19	0700	4°C	AQ	2	X													X	
PL-505-20190409	VOA	4/09/19	1025	4°C	AQ	3	X													X	
PL-506-20190409	Various	4/09/19	0905	4°C	AQ	8	X	X	X	X	X									X	
MW-R-20190409	Various	4/09/19	1300	4°C	AQ	8	X	X	X	X	X									X	
PC-028-20190409	Various	4/09/19	1030	4°C	AQ	8	X	X	X	X	X									X	
PC-031-20190409	Various	4/09/19	0835	4°C	AQ	8	X	X	X	X	X									X	
MW-A-J-20190409	Various	4/09/19	1305	4°C	AQ	8	X	X	X	X	X									X	
PC-064-20190409	Various	4/09/19	1048	4°C	AQ	8	X	X	X	X	X										

440-238444 Chain of Custody

[1] I attest to the validity and authenticity of this (these) sample(s) I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature:_____ Date_____

Preservation Used: 1= Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other_____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return to Client* ☐ Disposal by Lab Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Sample Int (circle one)
Intact: Y / N on ice: Y / N
temperature:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Converse	4/9/19 1415	[signature]	TALVS	4-9-19 1415
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	TALVS	4/9/19 1600		TALVS	4/10/19 0815
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

TALVS IR 96 4.6 / 4.9
IR 94 28/23 22/17 5 9/46

CS: IRK-4766 SC37 C256

Login Sample Receipt Checklist

Client: de maximis, inc.

Job Number: 440-238444-2
SDG Number: Henderson NV

Login Number: 238444
List Number: 1
Creator: Escalante, Maria I

List Source: Eurofins TestAmerica, Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

Laboratory Job ID: 440-238447-1
Laboratory Sample Delivery Group: Henderson NV
Client Project/Site: 3200B Henderson Transect

For:
de maximis, inc.
1322 Scott Street, Suite 104
San Diego, California 92106

Attn: Nicole Bradley

Authorized for release by:
5/2/2019 3:04:06 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 6
Client Sample Results 7
Surrogate Summary 10
Method Summary 11
Lab Chronicle 12
QC Sample Results 13
QC Association Summary 25
Definitions/Glossary 27
Certification Summary 28
Chain of Custody 29
Receipt Checklists 30

Sample Summary

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238447-1
SDG: Henderson NV

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-238447-1	MC-50-20190409	Water	04/09/19 08:47	04/10/19 10:15

Job ID: 440-238447-1

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative
440-238447-1

Comments
No additional comments.

Receipt
The samples were received on 4/10/2019 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.7º C, 2.3º C and 4.6º C.

GC/MS VOA
Method(s) 8260B: The sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, when verified by the laboratory, the pH was 5 and the following samples were analyzed after 7 days from sampling: MC-50-20190409 (440-238447-1), MC-50-20190409 (440-238447-1[MS]) and MC-50-20190409 (440-238447-1[MSD]).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Revised RL for aldrin on 4/30/2019.

Method(s) 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-539643 and analytical batch 440-540074 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6020: The following sample was diluted due to the nature of the sample matrix: MC-50-20190409 (440-238447-1). Elevated reporting limits (RLs) are provided.

Method(s) 7470A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-540982 and analytical batch 440-541241 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 440-238447-2

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative
440-238447-2

Job ID: 440-238447-2 (Continued)

Laboratory: Eurofins TestAmerica, Irvine (Continued)

Comments
No additional comments.

Receipt
The samples were received on 4/10/2019 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.7º C, 2.3º C and 4.6º C.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238447-1
SDG: Henderson NV

Client Sample ID: MC-50-20190409 — Lab Sample ID: 440-238447-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.35	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,2,3-Trichlorobenzene	1.5	J	5.0	0.40	ug/L	1		8260B	Total/NA
1,2,4-Trichlorobenzene	7.3		5.0	0.40	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	1.3	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	2.4		2.0	0.25	ug/L	1		8260B	Total/NA
Benzene	0.61	J	2.0	0.25	ug/L	1		8260B	Total/NA
Chlorobenzene	21		2.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	0.72	J	2.0	0.25	ug/L	1		8260B	Total/NA
alpha-BHC	0.78		0.0051	0.0025	ug/L	1		8081A	Total/NA
delta-BHC	0.18	J	0.20	0.0036	ug/L	1		8081A	Total/NA
Dieldrin	0.0020	J p	0.0041	0.0020	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.046	J	0.10	0.0030	ug/L	1		8081A	Total/NA
beta-BHC - DL	6.9		0.10	0.041	ug/L	10		8081A	Total/NA
Perchlorate	1200		400	95	ug/L	100		314.0	Total/NA
Arsenic	100		2.0	1.0	ug/L	10		6020	Total Recoverable
Barium	28		2.0	1.0	ug/L	10		6020	Total Recoverable
Cadmium	1.1		1.0	0.50	ug/L	10		6020	Total Recoverable
Lead	0.94	J	1.0	0.50	ug/L	10		6020	Total Recoverable
Silver	1.6	J	2.0	1.0	ug/L	10		6020	Total Recoverable
Uranium	22		1.0	0.50	ug/L	10		6020	Total Recoverable
Total Dissolved Solids	17000		200	100	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238447-1
SDG: Henderson NV

Client Sample ID: MC-50-20190409

Date Collected: 04/09/19 08:47
Date Received: 04/10/19 10:15

Lab Sample ID: 440-238447-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			04/21/19 16:46	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/21/19 16:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/21/19 16:46	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/21/19 16:46	1
1,1-Dichloroethane	**0.35**	**J**	2.0	0.25	ug/L			04/21/19 16:46	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/21/19 16:46	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/21/19 16:46	1
1,2,3-Trichlorobenzene	**1.5**	**J**	5.0	0.40	ug/L			04/21/19 16:46	1
1,2,3-Trichloropropane	ND		1.0	0.25	ug/L			04/21/19 16:46	1
1,2,4-Trichlorobenzene	**7.3**		5.0	0.40	ug/L			04/21/19 16:46	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/21/19 16:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/21/19 16:46	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/21/19 16:46	1
1,2-Dichlorobenzene	**1.3**	**J**	2.0	0.25	ug/L			04/21/19 16:46	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/21/19 16:46	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/21/19 16:46	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/21/19 16:46	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/21/19 16:46	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/21/19 16:46	1
1,4-Dichlorobenzene	**2.4**		2.0	0.25	ug/L			04/21/19 16:46	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/21/19 16:46	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/21/19 16:46	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/21/19 16:46	1
Benzene	**0.61**	**J**	2.0	0.25	ug/L			04/21/19 16:46	1
Bromobenzene	ND		5.0	0.25	ug/L			04/21/19 16:46	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/21/19 16:46	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/21/19 16:46	1
Bromoform	ND		5.0	0.40	ug/L			04/21/19 16:46	1
Bromomethane	ND		5.0	0.25	ug/L			04/21/19 16:46	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/21/19 16:46	1
Chlorobenzene	**21**		2.0	0.25	ug/L			04/21/19 16:46	1
Chloroethane	ND		5.0	0.40	ug/L			04/21/19 16:46	1
Chloroform	**0.72**	**J**	2.0	0.25	ug/L			04/21/19 16:46	1
Chloromethane	ND		2.5	0.25	ug/L			04/21/19 16:46	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/21/19 16:46	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/21/19 16:46	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/21/19 16:46	1
Dibromomethane	ND		1.0	0.25	ug/L			04/21/19 16:46	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/21/19 16:46	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/21/19 16:46	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/21/19 16:46	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/21/19 16:46	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/21/19 16:46	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/21/19 16:46	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/21/19 16:46	1
Naphthalene	ND		1.0	0.40	ug/L			04/21/19 16:46	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/21/19 16:46	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/21/19 16:46	1
o-Xylene	ND		2.0	0.25	ug/L			04/21/19 16:46	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238447-1
SDG: Henderson NV

Client Sample ID: MC-50-20190409

Date Collected: 04/09/19 08:47
Date Received: 04/10/19 10:15

Lab Sample ID: 440-238447-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/21/19 16:46	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/21/19 16:46	1
Styrene	ND		2.0	0.25	ug/L			04/21/19 16:46	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/21/19 16:46	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/21/19 16:46	1
Toluene	ND		2.0	0.25	ug/L			04/21/19 16:46	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/21/19 16:46	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/21/19 16:46	1
Trichloroethene	ND		2.0	0.25	ug/L			04/21/19 16:46	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/21/19 16:46	1
Vinyl chloride	ND		2.0	0.25	ug/L			04/21/19 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*04/21/19 16:46*	*1*
Dibromofluoromethane (Surr)	*127*		*76 - 132*		*04/21/19 16:46*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*04/21/19 16:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*04/21/19 16:46*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/11/19 05:47	04/12/19 18:24	1
2,4'-DDE	ND	F1	0.10	0.020	ug/L		04/11/19 05:47	04/12/19 18:24	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/11/19 05:47	04/12/19 18:24	1
4,4'-DDD	ND		0.10	0.0041	ug/L		04/11/19 05:47	04/12/19 18:24	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/11/19 05:47	04/12/19 18:24	1
4,4'-DDT	ND		0.10	0.0041	ug/L		04/11/19 05:47	04/12/19 18:24	1
Aldrin	ND		0.0030	0.0015	ug/L		04/11/19 05:47	04/12/19 18:24	1
alpha-BHC	**0.78**		0.0051	0.0025	ug/L		04/11/19 05:47	04/12/19 18:24	1
Chlordane	ND		0.10	0.081	ug/L		04/11/19 05:47	04/12/19 18:24	1
delta-BHC	**0.18**	**J**	0.20	0.0036	ug/L		04/11/19 05:47	04/12/19 18:24	1
Dieldrin	**0.0020**	**J p**	0.0041	0.0020	ug/L		04/11/19 05:47	04/12/19 18:24	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/11/19 05:47	04/12/19 18:24	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/11/19 05:47	04/12/19 18:24	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/11/19 05:47	04/12/19 18:24	1
Endrin	ND		0.10	0.0020	ug/L		04/11/19 05:47	04/12/19 18:24	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/11/19 05:47	04/12/19 18:24	1
Endrin ketone	ND		0.10	0.0071	ug/L		04/11/19 05:47	04/12/19 18:24	1
gamma-BHC (Lindane)	**0.046**	**J**	0.10	0.0030	ug/L		04/11/19 05:47	04/12/19 18:24	1
Heptachlor	ND		0.010	0.0030	ug/L		04/11/19 05:47	04/12/19 18:24	1
Heptachlor epoxide	ND		0.0051	0.0025	ug/L		04/11/19 05:47	04/12/19 18:24	1
Methoxychlor	ND		0.10	0.0036	ug/L		04/11/19 05:47	04/12/19 18:24	1
Toxaphene	ND		3.0	0.25	ug/L		04/11/19 05:47	04/12/19 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*28 - 108*	*04/11/19 05:47*	*04/12/19 18:24*	*1*
Tetrachloro-m-xylene	*46*		*10 - 123*	*04/11/19 05:47*	*04/12/19 18:24*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	**6.9**		0.10	0.041	ug/L		04/11/19 05:47	04/12/19 18:49	10

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238447-1
SDG: Henderson NV

Client Sample ID: MC-50-20190409

Lab Sample ID: 440-238447-1

Date Collected: 04/09/19 08:47
Date Received: 04/10/19 10:15

Matrix: Water

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	1200		400	95	ug/L			04/18/19 10:16	100

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	100		2.0	1.0	ug/L		04/12/19 08:13	04/12/19 14:15	10
Barium	28		2.0	1.0	ug/L		04/12/19 08:13	04/12/19 14:15	10
Cadmium	1.1		1.0	0.50	ug/L		04/12/19 08:13	04/12/19 14:15	10
Chromium	ND		5.0	2.5	ug/L		04/12/19 08:13	04/12/19 14:15	10
Lead	0.94	J	1.0	0.50	ug/L		04/12/19 08:13	04/12/19 14:15	10
Selenium	ND		6.0	3.0	ug/L		04/12/19 08:13	04/12/19 14:15	10
Silver	1.6	J	2.0	1.0	ug/L		04/12/19 08:13	04/12/19 14:15	10
Uranium	22		1.0	0.50	ug/L		04/12/19 08:13	04/12/19 14:15	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	F1 F2	0.00020	0.00010	mg/L		04/17/19 16:34	04/18/19 14:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	17000		200	100	mg/L			04/15/19 08:40	1

Surrogate Summary

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238447-1
SDG: Henderson NV

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	TOL	DCA
Lab Sample ID	Client Sample ID	(80-120)	(76-132)	(80-128)	(70-130)
440-238447-1	MC-50-20190409	97	127	101	109
440-238447-1 MS	MC-50-20190409	98	105	101	104
440-238447-1 MSD	MC-50-20190409	101	106	102	104
LCS 440-541643/5	Lab Control Sample	101	103	99	100
MB 440-541643/8	Method Blank	99	104	100	101

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB2	TCX2
Lab Sample ID	Client Sample ID	(28-108)	(10-123)
440-238447-1	MC-50-20190409	64	46
440-238447-1 MS	MC-50-20190409	72	54
440-238447-1 MSD	MC-50-20190409	71	54
LCS 440-539643/2-A	Lab Control Sample	68	50
MB 440-539643/1-A	Method Blank	56	41

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method Summary

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238447-1
SDG: Henderson NV

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
314.0	Perchlorate (IC)	EPA	TAL IRV
6020	Metals (ICP/MS)	SW846	TAL IRV
7470A	Mercury (CVAA)	SW846	TAL IRV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL IRV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238447-1
SDG: Henderson NV

Client Sample ID: MC-50-20190409

Date Collected: 04/09/19 08:47
Date Received: 04/10/19 10:15

Lab Sample ID: 440-238447-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	541643	04/21/19 16:46	WC	TAL IRV
Total/NA	Prep	3510C			985 mL	2 mL	539643	04/11/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8081A		1			540074	04/12/19 18:24	D1D	TAL IRV
Total/NA	Prep	3510C	DL		985 mL	2 mL	539643	04/11/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8081A	DL	10			540074	04/12/19 18:49	D1D	TAL IRV
Total/NA	Analysis	314.0		100			541096	04/18/19 10:16	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	539961	04/12/19 08:13	BV	TAL IRV
Total Recoverable	Analysis	6020		10			540085	04/12/19 14:15	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	540982	04/17/19 16:34	DB	TAL IRV
Total/NA	Analysis	7470A		1			541241	04/18/19 14:11	DB	TAL IRV
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	540322	04/15/19 08:40	XL	TAL IRV

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-541643/8
Matrix: Water
Analysis Batch: 541643

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			04/21/19 14:33	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L			04/21/19 14:33	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/21/19 14:33	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/21/19 14:33	1
1,2,3-Trichloropropane	ND		1.0	0.25	ug/L			04/21/19 14:33	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/21/19 14:33	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/21/19 14:33	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/21/19 14:33	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/21/19 14:33	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/21/19 14:33	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/21/19 14:33	1
Benzene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
Bromobenzene	ND		5.0	0.25	ug/L			04/21/19 14:33	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/21/19 14:33	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/21/19 14:33	1
Bromoform	ND		5.0	0.40	ug/L			04/21/19 14:33	1
Bromomethane	ND		5.0	0.25	ug/L			04/21/19 14:33	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/21/19 14:33	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
Chloroethane	ND		5.0	0.40	ug/L			04/21/19 14:33	1
Chloroform	ND		2.0	0.25	ug/L			04/21/19 14:33	1
Chloromethane	ND		2.5	0.25	ug/L			04/21/19 14:33	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/21/19 14:33	1
Dibromomethane	ND		1.0	0.25	ug/L			04/21/19 14:33	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/21/19 14:33	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/21/19 14:33	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/21/19 14:33	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/21/19 14:33	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/21/19 14:33	1
Naphthalene	ND		1.0	0.40	ug/L			04/21/19 14:33	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/21/19 14:33	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/21/19 14:33	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-541643/8
Matrix: Water
Analysis Batch: 541643

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/21/19 14:33	1
Styrene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/21/19 14:33	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
Toluene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
Trichloroethene	ND		2.0	0.25	ug/L			04/21/19 14:33	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/21/19 14:33	1
Vinyl chloride	ND		2.0	0.25	ug/L			04/21/19 14:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*04/21/19 14:33*	*1*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*04/21/19 14:33*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*04/21/19 14:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*04/21/19 14:33*	*1*

Lab Sample ID: LCS 440-541643/5
Matrix: Water
Analysis Batch: 541643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	9.80		ug/L		98	60 - 141
1,1,1-Trichloroethane	10.0	8.50		ug/L		85	70 - 130
1,1,2,2-Tetrachloroethane	10.0	10.5		ug/L		105	63 - 130
1,1,2-Trichloroethane	10.0	9.57		ug/L		96	70 - 130
1,1-Dichloroethane	10.0	10.2		ug/L		102	64 - 130
1,1-Dichloroethene	10.0	9.01		ug/L		90	70 - 130
1,1-Dichloropropene	10.0	9.13		ug/L		91	70 - 130
1,2,3-Trichlorobenzene	10.0	10.0		ug/L		100	60 - 140
1,2,3-Trichloropropane	10.0	9.78		ug/L		98	63 - 130
1,2,4-Trichlorobenzene	10.0	10.7		ug/L		107	60 - 140
1,2,4-Trimethylbenzene	10.0	9.55		ug/L		96	70 - 135
1,2-Dibromo-3-Chloropropane	10.0	9.29		ug/L		93	52 - 140
1,2-Dibromoethane (EDB)	10.0	9.88		ug/L		99	70 - 130
1,2-Dichlorobenzene	10.0	9.73		ug/L		97	70 - 130
1,2-Dichloroethane	10.0	9.75		ug/L		97	57 - 138
1,2-Dichloropropane	10.0	10.0		ug/L		100	67 - 130
1,3,5-Trimethylbenzene	10.0	9.62		ug/L		96	70 - 136
1,3-Dichlorobenzene	10.0	9.52		ug/L		95	70 - 130
1,3-Dichloropropane	10.0	9.78		ug/L		98	70 - 130
1,4-Dichlorobenzene	10.0	9.59		ug/L		96	70 - 130
2,2-Dichloropropane	10.0	8.69		ug/L		87	68 - 141
2-Chlorotoluene	10.0	9.52		ug/L		95	70 - 130
4-Chlorotoluene	10.0	10.2		ug/L		102	70 - 130
Benzene	10.0	9.53		ug/L		95	68 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-541643/5
Matrix: Water
Analysis Batch: 541643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	10.0	10.0		ug/L		100	70 - 130
Bromochloromethane	10.0	10.0		ug/L		100	70 - 130
Bromodichloromethane	10.0	9.43		ug/L		94	70 - 132
Bromoform	10.0	10.0		ug/L		100	60 - 148
Bromomethane	10.0	9.45		ug/L		94	64 - 139
Carbon tetrachloride	10.0	8.47		ug/L		85	60 - 150
Chlorobenzene	10.0	9.65		ug/L		97	70 - 130
Chloroethane	10.0	8.64		ug/L		86	64 - 135
Chloroform	10.0	9.51		ug/L		95	70 - 130
Chloromethane	10.0	9.11		ug/L		91	47 - 140
cis-1,2-Dichloroethene	10.0	9.83		ug/L		98	70 - 133
cis-1,3-Dichloropropene	10.0	10.1		ug/L		101	70 - 133
Dibromochloromethane	10.0	10.3		ug/L		103	69 - 145
Dibromomethane	10.0	9.62		ug/L		96	70 - 130
Dichlorodifluoromethane	10.0	7.69		ug/L		77	29 - 150
Ethylbenzene	10.0	9.97		ug/L		100	70 - 130
Hexachlorobutadiene	10.0	9.70		ug/L		97	10 - 150
Isopropylbenzene	10.0	9.62		ug/L		96	70 - 136
m,p-Xylene	10.0	9.96		ug/L		100	70 - 130
Methylene Chloride	10.0	9.26		ug/L		93	52 - 130
Naphthalene	10.0	9.27		ug/L		93	60 - 140
n-Butylbenzene	10.0	9.75		ug/L		97	65 - 150
N-Propylbenzene	10.0	9.38		ug/L		94	67 - 139
o-Xylene	10.0	10.3		ug/L		103	70 - 130
p-Isopropyltoluene	10.0	9.64		ug/L		96	70 - 132
sec-Butylbenzene	10.0	9.62		ug/L		96	70 - 138
Styrene	10.0	10.5		ug/L		105	70 - 134
tert-Butylbenzene	10.0	9.71		ug/L		97	70 - 130
Tetrachloroethene	10.0	9.07		ug/L		91	70 - 130
Toluene	10.0	9.44		ug/L		94	70 - 130
trans-1,2-Dichloroethene	10.0	9.43		ug/L		94	70 - 130
trans-1,3-Dichloropropene	10.0	10.3		ug/L		103	70 - 132
Trichloroethene	10.0	9.15		ug/L		91	70 - 130
Trichlorofluoromethane	10.0	9.88		ug/L		99	60 - 150
Vinyl chloride	10.0	9.13		ug/L		91	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*76 - 132*
Toluene-d8 (Surr)	*99*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*

Lab Sample ID: 440-238447-1 MS
Matrix: Water
Analysis Batch: 541643

Client Sample ID: MC-50-20190409
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		10.0	10.5		ug/L		105	60 - 149

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238447-1 MS
Matrix: Water
Analysis Batch: 541643

Client Sample ID: MC-50-20190409
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		10.0	10.1		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	ND		10.0	10.7		ug/L		107	63 - 130
1,1,2-Trichloroethane	ND		10.0	10.7		ug/L		107	70 - 130
1,1-Dichloroethane	0.35	J	10.0	10.6		ug/L		103	65 - 130
1,1-Dichloroethene	ND		10.0	10.4		ug/L		104	70 - 130
1,1-Dichloropropene	ND		10.0	10.5		ug/L		105	64 - 130
1,2,3-Trichlorobenzene	1.5	J	10.0	11.9		ug/L		103	60 - 140
1,2,3-Trichloropropane	ND		10.0	10.4		ug/L		104	60 - 130
1,2,4-Trichlorobenzene	7.3		10.0	19.4		ug/L		121	60 - 140
1,2,4-Trimethylbenzene	ND		10.0	10.0		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	ND		10.0	10.3		ug/L		103	48 - 140
1,2-Dibromoethane (EDB)	ND		10.0	10.5		ug/L		105	70 - 131
1,2-Dichlorobenzene	1.3	J	10.0	11.3		ug/L		100	70 - 130
1,2-Dichloroethane	ND		10.0	9.55		ug/L		95	56 - 146
1,2-Dichloropropane	ND		10.0	10.4		ug/L		104	69 - 130
1,3,5-Trimethylbenzene	ND		10.0	10.0		ug/L		100	70 - 130
1,3-Dichlorobenzene	ND		10.0	10.2		ug/L		102	70 - 130
1,3-Dichloropropane	ND		10.0	10.5		ug/L		105	70 - 130
1,4-Dichlorobenzene	2.4		10.0	12.6		ug/L		103	70 - 130
2,2-Dichloropropane	ND		10.0	10.0		ug/L		100	69 - 138
2-Chlorotoluene	ND		10.0	10.1		ug/L		101	70 - 130
4-Chlorotoluene	ND		10.0	10.4		ug/L		104	70 - 130
Benzene	0.61	J	10.0	10.8		ug/L		102	66 - 130
Bromobenzene	ND		10.0	10.2		ug/L		102	70 - 130
Bromochloromethane	ND		10.0	10.8		ug/L		108	70 - 130
Bromodichloromethane	ND		10.0	10.3		ug/L		103	70 - 138
Bromoform	ND		10.0	10.5		ug/L		105	59 - 150
Bromomethane	ND		10.0	10.5		ug/L		105	62 - 131
Carbon tetrachloride	ND		10.0	9.80		ug/L		98	60 - 150
Chlorobenzene	21		10.0	30.9		ug/L		101	70 - 130
Chloroethane	ND		10.0	9.98		ug/L		100	68 - 130
Chloroform	0.72	J	10.0	10.3		ug/L		95	70 - 130
Chloromethane	ND		10.0	9.95		ug/L		100	39 - 144
cis-1,2-Dichloroethene	ND		10.0	10.5		ug/L		105	70 - 130
cis-1,3-Dichloropropene	ND		10.0	10.9		ug/L		109	70 - 133
Dibromochloromethane	ND		10.0	11.0		ug/L		110	70 - 148
Dibromomethane	ND		10.0	9.97		ug/L		100	70 - 130
Dichlorodifluoromethane	ND		10.0	8.89		ug/L		89	25 - 142
Ethylbenzene	ND		10.0	10.1		ug/L		101	70 - 130
Hexachlorobutadiene	ND		10.0	10.1		ug/L		101	10 - 150
Isopropylbenzene	ND		10.0	10.5		ug/L		105	70 - 132
m,p-Xylene	ND		10.0	10.7		ug/L		107	70 - 133
Methylene Chloride	ND		10.0	9.67		ug/L		97	52 - 130
Naphthalene	ND		10.0	9.95		ug/L		100	60 - 140
n-Butylbenzene	ND		10.0	10.4		ug/L		104	61 - 149
N-Propylbenzene	ND		10.0	9.90		ug/L		99	66 - 135
o-Xylene	ND		10.0	10.9		ug/L		109	70 - 133
p-Isopropyltoluene	ND		10.0	10.2		ug/L		102	70 - 130
sec-Butylbenzene	ND		10.0	10.1		ug/L		101	67 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238447-1 MS
Matrix: Water
Analysis Batch: 541643

Client Sample ID: MC-50-20190409
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	ND		10.0	10.5		ug/L		105	29 - 150
tert-Butylbenzene	ND		10.0	10.4		ug/L		104	70 - 130
Tetrachloroethene	ND		10.0	10.0		ug/L		100	70 - 137
Toluene	ND		10.0	10.0		ug/L		100	70 - 130
trans-1,2-Dichloroethene	ND		10.0	10.4		ug/L		104	70 - 130
trans-1,3-Dichloropropene	ND		10.0	11.2		ug/L		112	70 - 138
Trichloroethene	ND		10.0	10.2		ug/L		102	70 - 130
Trichlorofluoromethane	ND		10.0	10.0		ug/L		100	60 - 150
Vinyl chloride	ND		10.0	10.1		ug/L		101	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
Toluene-d8 (Surr)	*101*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*

Lab Sample ID: 440-238447-1 MSD
Matrix: Water
Analysis Batch: 541643

Client Sample ID: MC-50-20190409
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		10.0	10.0		ug/L		100	60 - 149	4	20
1,1,1-Trichloroethane	ND		10.0	9.50		ug/L		95	70 - 130	6	20
1,1,2,2-Tetrachloroethane	ND		10.0	10.2		ug/L		102	63 - 130	5	30
1,1,2-Trichloroethane	ND		10.0	10.5		ug/L		105	70 - 130	2	25
1,1-Dichloroethane	0.35	J	10.0	11.0		ug/L		106	65 - 130	3	20
1,1-Dichloroethene	ND		10.0	9.79		ug/L		98	70 - 130	6	20
1,1-Dichloropropene	ND		10.0	10.6		ug/L		106	64 - 130	1	20
1,2,3-Trichlorobenzene	1.5	J	10.0	11.7		ug/L		102	60 - 140	2	20
1,2,3-Trichloropropane	ND		10.0	10.1		ug/L		101	60 - 130	2	30
1,2,4-Trichlorobenzene	7.3		10.0	18.9		ug/L		116	60 - 140	3	20
1,2,4-Trimethylbenzene	ND		10.0	9.96		ug/L		100	70 - 130	1	25
1,2-Dibromo-3-Chloropropane	ND		10.0	9.80		ug/L		98	48 - 140	5	30
1,2-Dibromoethane (EDB)	ND		10.0	10.1		ug/L		101	70 - 131	4	25
1,2-Dichlorobenzene	1.3	J	10.0	11.3		ug/L		100	70 - 130	0	20
1,2-Dichloroethane	ND		10.0	9.19		ug/L		92	56 - 146	4	20
1,2-Dichloropropane	ND		10.0	10.9		ug/L		109	69 - 130	5	20
1,3,5-Trimethylbenzene	ND		10.0	10.1		ug/L		101	70 - 130	1	20
1,3-Dichlorobenzene	ND		10.0	10.3		ug/L		103	70 - 130	1	20
1,3-Dichloropropane	ND		10.0	9.88		ug/L		99	70 - 130	6	25
1,4-Dichlorobenzene	2.4		10.0	11.8		ug/L		95	70 - 130	7	20
2,2-Dichloropropane	ND		10.0	9.45		ug/L		95	69 - 138	6	25
2-Chlorotoluene	ND		10.0	9.90		ug/L		99	70 - 130	2	20
4-Chlorotoluene	ND		10.0	10.4		ug/L		104	70 - 130	0	20
Benzene	0.61	J	10.0	10.1		ug/L		95	66 - 130	6	20
Bromobenzene	ND		10.0	9.89		ug/L		99	70 - 130	3	20
Bromochloromethane	ND		10.0	10.3		ug/L		103	70 - 130	4	25
Bromodichloromethane	ND		10.0	10.1		ug/L		101	70 - 138	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238447-1 MSD
Matrix: Water
Analysis Batch: 541643

Client Sample ID: MC-50-20190409
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		10.0	10.2		ug/L		102	59 - 150	3	25
Bromomethane	ND		10.0	9.47		ug/L		95	62 - 131	10	25
Carbon tetrachloride	ND		10.0	9.41		ug/L		94	60 - 150	4	25
Chlorobenzene	21		10.0	29.6		ug/L		88	70 - 130	4	20
Chloroethane	ND		10.0	9.53		ug/L		95	68 - 130	5	25
Chloroform	0.72	J	10.0	10.5		ug/L		98	70 - 130	3	20
Chloromethane	ND		10.0	9.03		ug/L		90	39 - 144	10	25
cis-1,2-Dichloroethene	ND		10.0	10.8		ug/L		108	70 - 130	3	20
cis-1,3-Dichloropropene	ND		10.0	10.4		ug/L		104	70 - 133	4	20
Dibromochloromethane	ND		10.0	10.8		ug/L		108	70 - 148	2	25
Dibromomethane	ND		10.0	9.34		ug/L		93	70 - 130	7	25
Dichlorodifluoromethane	ND		10.0	8.43		ug/L		84	25 - 142	5	30
Ethylbenzene	ND		10.0	10.3		ug/L		103	70 - 130	2	20
Hexachlorobutadiene	ND		10.0	9.71		ug/L		97	10 - 150	4	20
Isopropylbenzene	ND		10.0	10.3		ug/L		103	70 - 132	2	20
m,p-Xylene	ND		10.0	10.2		ug/L		102	70 - 133	5	25
Methylene Chloride	ND		10.0	9.35		ug/L		94	52 - 130	3	20
Naphthalene	ND		10.0	9.58		ug/L		96	60 - 140	4	30
n-Butylbenzene	ND		10.0	10.1		ug/L		101	61 - 149	2	20
N-Propylbenzene	ND		10.0	9.82		ug/L		98	66 - 135	1	20
o-Xylene	ND		10.0	10.7		ug/L		107	70 - 133	1	20
p-Isopropyltoluene	ND		10.0	10.1		ug/L		101	70 - 130	2	20
sec-Butylbenzene	ND		10.0	10.2		ug/L		102	67 - 134	0	20
Styrene	ND		10.0	10.2		ug/L		102	29 - 150	3	35
tert-Butylbenzene	ND		10.0	10.4		ug/L		104	70 - 130	0	20
Tetrachloroethene	ND		10.0	10.3		ug/L		103	70 - 137	3	20
Toluene	ND		10.0	10.1		ug/L		101	70 - 130	0	20
trans-1,2-Dichloroethene	ND		10.0	9.91		ug/L		99	70 - 130	5	20
trans-1,3-Dichloropropene	ND		10.0	10.0		ug/L		100	70 - 138	11	25
Trichloroethene	ND		10.0	9.84		ug/L		98	70 - 130	3	20
Trichlorofluoromethane	ND		10.0	9.58		ug/L		96	60 - 150	4	25
Vinyl chloride	ND		10.0	9.36		ug/L		94	50 - 137	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*76 - 132*
Toluene-d8 (Surr)	*102*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-539643/1-A
Matrix: Water
Analysis Batch: 540074

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/11/19 05:47	04/12/19 16:41	1
2,4'-DDE	ND		0.10	0.020	ug/L		04/11/19 05:47	04/12/19 16:41	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/11/19 05:47	04/12/19 16:41	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 440-539643/1-A
Matrix: Water
Analysis Batch: 540074

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.10	0.0040	ug/L		04/11/19 05:47	04/12/19 16:41	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/11/19 05:47	04/12/19 16:41	1
4,4'-DDT	ND		0.10	0.0040	ug/L		04/11/19 05:47	04/12/19 16:41	1
Aldrin	ND		0.0030	0.0015	ug/L		04/11/19 05:47	04/12/19 16:41	1
alpha-BHC	ND		0.0050	0.0025	ug/L		04/11/19 05:47	04/12/19 16:41	1
beta-BHC	ND		0.010	0.0040	ug/L		04/11/19 05:47	04/12/19 16:41	1
Chlordane	ND		0.10	0.080	ug/L		04/11/19 05:47	04/12/19 16:41	1
delta-BHC	ND		0.20	0.0035	ug/L		04/11/19 05:47	04/12/19 16:41	1
Dieldrin	ND		0.0040	0.0020	ug/L		04/11/19 05:47	04/12/19 16:41	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/11/19 05:47	04/12/19 16:41	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/11/19 05:47	04/12/19 16:41	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/11/19 05:47	04/12/19 16:41	1
Endrin	ND		0.10	0.0020	ug/L		04/11/19 05:47	04/12/19 16:41	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/11/19 05:47	04/12/19 16:41	1
Endrin ketone	ND		0.10	0.0070	ug/L		04/11/19 05:47	04/12/19 16:41	1
gamma-BHC (Lindane)	ND		0.10	0.0030	ug/L		04/11/19 05:47	04/12/19 16:41	1
Heptachlor	ND		0.010	0.0030	ug/L		04/11/19 05:47	04/12/19 16:41	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/11/19 05:47	04/12/19 16:41	1
Methoxychlor	ND		0.10	0.0035	ug/L		04/11/19 05:47	04/12/19 16:41	1
Toxaphene	ND		3.0	0.25	ug/L		04/11/19 05:47	04/12/19 16:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*56*		*28 - 108*	*04/11/19 05:47*	*04/12/19 16:41*	*1*
Tetrachloro-m-xylene	*41*		*10 - 123*	*04/11/19 05:47*	*04/12/19 16:41*	*1*

Lab Sample ID: LCS 440-539643/2-A
Matrix: Water
Analysis Batch: 540074

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539643

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4'-DDD	0.250	0.155		ug/L		62	10 - 150
2,4'-DDE	0.250	0.155		ug/L		62	10 - 150
2,4'-DDT	0.250	0.157		ug/L		63	10 - 150
4,4'-DDD	0.250	0.166		ug/L		66	50 - 128
4,4'-DDE	0.250	0.167		ug/L		67	49 - 121
4,4'-DDT	0.250	0.169		ug/L		68	41 - 140
Aldrin	0.250	0.128		ug/L		51	37 - 115
alpha-BHC	0.250	0.161		ug/L		64	44 - 115
beta-BHC	0.250	0.160		ug/L		64	46 - 121
delta-BHC	0.250	0.168	J	ug/L		67	32 - 129
Dieldrin	0.250	0.160		ug/L		64	39 - 126
Endosulfan I	0.250	0.160		ug/L		64	47 - 115
Endosulfan II	0.250	0.165		ug/L		66	47 - 120
Endosulfan sulfate	0.250	0.160	J	ug/L		64	48 - 126
Endrin	0.250	0.165		ug/L		66	43 - 127
Endrin aldehyde	0.250	0.156		ug/L		62	43 - 120
Endrin ketone	0.250	0.162		ug/L		65	47 - 123
gamma-BHC (Lindane)	0.250	0.160		ug/L		64	45 - 116

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-539643/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540074 — **Prep Batch: 539643**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor	0.250	0.140		ug/L		56	37 - 115
Heptachlor epoxide	0.250	0.158		ug/L		63	41 - 129
Methoxychlor	0.250	0.172		ug/L		69	44 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*68*		*28 - 108*
Tetrachloro-m-xylene	*50*		*10 - 123*

Lab Sample ID: 440-238447-1 MS — **Client Sample ID: MC-50-20190409**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540074 — **Prep Batch: 539643**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4'-DDD	ND		0.243	0.174		ug/L		72	50 - 125
2,4'-DDE	ND	F1	0.243	0.513	F1	ug/L		211	45 - 125
2,4'-DDT	ND		0.243	0.190		ug/L		78	50 - 125
4,4'-DDD	ND		0.243	0.179		ug/L		74	50 - 125
4,4'-DDE	ND		0.243	0.173		ug/L		71	45 - 125
4,4'-DDT	ND		0.243	0.184		ug/L		76	50 - 125
Aldrin	ND		0.243	0.168		ug/L		69	35 - 120
alpha-BHC	0.78		0.243	0.965		ug/L		76	40 - 120
beta-BHC	6.3	E	0.243	6.56	E 4	ug/L		119	50 - 120
delta-BHC	0.18	J	0.243	0.362		ug/L		75	50 - 120
Dieldrin	0.0020	J p	0.243	0.167		ug/L		69	50 - 120
Endosulfan I	ND		0.243	0.227		ug/L		94	50 - 120
Endosulfan II	ND		0.243	0.176		ug/L		72	50 - 125
Endosulfan sulfate	ND		0.243	0.169	J	ug/L		70	55 - 125
Endrin	ND		0.243	0.195		ug/L		81	50 - 120
Endrin aldehyde	ND		0.243	0.168		ug/L		69	45 - 125
Endrin ketone	ND		0.243	0.167		ug/L		69	50 - 125
gamma-BHC (Lindane)	0.046	J	0.243	0.212		ug/L		68	40 - 120
Heptachlor	ND		0.243	0.201		ug/L		83	40 - 120
Heptachlor epoxide	ND		0.243	0.200		ug/L		83	50 - 120
Methoxychlor	ND		0.243	0.185		ug/L		76	55 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*72*		*28 - 108*
Tetrachloro-m-xylene	*54*		*10 - 123*

Lab Sample ID: 440-238447-1 MSD — **Client Sample ID: MC-50-20190409**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540074 — **Prep Batch: 539643**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4'-DDD	ND		0.254	0.181		ug/L		71	50 - 125	4	30
2,4'-DDE	ND	F1	0.254	0.536	F1	ug/L		211	45 - 125	4	30
2,4'-DDT	ND		0.254	0.197		ug/L		78	50 - 125	4	30
4,4'-DDD	ND		0.254	0.188		ug/L		74	50 - 125	4	30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-238447-1 MSD — **Client Sample ID: MC-50-20190409**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540074 — **Prep Batch: 539643**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDE	ND		0.254	0.180		ug/L		71	45 - 125	4	30
4,4'-DDT	ND		0.254	0.192		ug/L		76	50 - 125	4	30
Aldrin	ND		0.254	0.176		ug/L		69	35 - 120	4	30
alpha-BHC	0.78		0.254	1.01		ug/L		90	40 - 120	4	30
beta-BHC	6.3	E	0.254	6.82	E 4	ug/L		215	50 - 120	4	30
delta-BHC	0.18	J	0.254	0.380		ug/L		79	50 - 120	5	30
Dieldrin	0.0020	J p	0.254	0.174		ug/L		68	50 - 120	4	30
Endosulfan I	ND		0.254	0.235		ug/L		93	50 - 120	4	30
Endosulfan II	ND		0.254	0.183		ug/L		72	50 - 125	4	30
Endosulfan sulfate	ND		0.254	0.175	J	ug/L		69	55 - 125	4	30
Endrin	ND		0.254	0.203		ug/L		80	50 - 120	4	30
Endrin aldehyde	ND		0.254	0.175		ug/L		69	45 - 125	4	30
Endrin ketone	ND		0.254	0.174		ug/L		68	50 - 125	4	30
gamma-BHC (Lindane)	0.046	J	0.254	0.225		ug/L		70	40 - 120	6	30
Heptachlor	ND		0.254	0.214		ug/L		84	40 - 120	6	30
Heptachlor epoxide	ND		0.254	0.209		ug/L		82	50 - 120	4	30
Methoxychlor	ND		0.254	0.195		ug/L		77	55 - 125	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*71*		*28 - 108*
Tetrachloro-m-xylene	*54*		*10 - 123*

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 440-541096/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541096

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/18/19 08:29	1

Lab Sample ID: LCS 440-541096/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541096

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	25.0	24.6		ug/L		98	85 - 115

Lab Sample ID: MRL 440-541096/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541096

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	1.00	ND		ug/L		93	75 - 125

Method: 314.0 - Perchlorate (IC) (Continued)

Lab Sample ID: 440-238447-1 MS
Matrix: Water
Analysis Batch: 541096

Client Sample ID: MC-50-20190409
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	1200		2500	3780		ug/L		105	80 - 120

Lab Sample ID: 440-238447-1 MSD
Matrix: Water
Analysis Batch: 541096

Client Sample ID: MC-50-20190409
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	1200		2500	3770		ug/L		105	80 - 120	0	15

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 440-539961/1-A
Matrix: Water
Analysis Batch: 540085

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 539961

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.10	ug/L		04/12/19 08:13	04/12/19 14:08	1
Barium	ND		0.20	0.10	ug/L		04/12/19 08:13	04/12/19 14:08	1
Cadmium	ND		0.10	0.050	ug/L		04/12/19 08:13	04/12/19 14:08	1
Chromium	ND		0.50	0.25	ug/L		04/12/19 08:13	04/12/19 14:08	1
Lead	ND		0.10	0.050	ug/L		04/12/19 08:13	04/12/19 14:08	1
Selenium	ND		0.60	0.30	ug/L		04/12/19 08:13	04/12/19 14:08	1
Silver	ND		0.20	0.10	ug/L		04/12/19 08:13	04/12/19 14:08	1
Uranium	ND		0.10	0.050	ug/L		04/12/19 08:13	04/12/19 14:08	1

Lab Sample ID: LCS 440-539961/2-A
Matrix: Water
Analysis Batch: 540085

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 539961

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	80.0	79.1		ug/L		99	80 - 120
Barium	80.0	81.2		ug/L		101	80 - 120
Cadmium	80.0	80.2		ug/L		100	80 - 120
Chromium	80.0	81.8		ug/L		102	80 - 120
Lead	80.0	81.1		ug/L		101	80 - 120
Selenium	80.0	78.4		ug/L		98	80 - 120
Silver	80.0	79.6		ug/L		99	80 - 120
Uranium	80.0	83.1		ug/L		104	80 - 120

Lab Sample ID: 440-238447-1 MS
Matrix: Water
Analysis Batch: 540085

Client Sample ID: MC-50-20190409
Prep Type: Total Recoverable
Prep Batch: 539961

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100		80.0	179		ug/L		96	75 - 125
Barium	28		80.0	112		ug/L		104	75 - 125
Cadmium	1.1		80.0	74.0		ug/L		91	75 - 125
Chromium	ND		80.0	78.0		ug/L		98	75 - 125
Lead	0.94	J	80.0	74.2		ug/L		92	75 - 125
Selenium	ND		80.0	67.1		ug/L		84	75 - 125

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 440-238447-1 MS — **Client Sample ID: MC-50-20190409**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 540085 — **Prep Batch: 539961**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	1.6	J	80.0	73.5		ug/L		90	75 - 125
Uranium	22		80.0	99.2		ug/L		97	75 - 125

Lab Sample ID: 440-238447-1 MSD — **Client Sample ID: MC-50-20190409**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 540085 — **Prep Batch: 539961**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	100		80.0	191		ug/L		111	75 - 125	6	20
Barium	28		80.0	116		ug/L		109	75 - 125	4	20
Cadmium	1.1		80.0	77.7		ug/L		96	75 - 125	5	20
Chromium	ND		80.0	82.6		ug/L		103	75 - 125	6	20
Lead	0.94	J	80.0	77.6		ug/L		96	75 - 125	5	20
Selenium	ND		80.0	72.5		ug/L		91	75 - 125	8	20
Silver	1.6	J	80.0	76.4		ug/L		94	75 - 125	4	20
Uranium	22		80.0	104		ug/L		103	75 - 125	5	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 440-540982/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541241 — **Prep Batch: 540982**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/17/19 16:34	04/18/19 14:07	1

Lab Sample ID: LCS 440-540982/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541241 — **Prep Batch: 540982**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00400	0.00420		mg/L		105	80 - 120

Lab Sample ID: 440-238447-1 MS — **Client Sample ID: MC-50-20190409**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541241 — **Prep Batch: 540982**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND	F1 F2	0.00400	0.000640	F1	mg/L		16	75 - 125

Lab Sample ID: 440-238447-1 MSD — **Client Sample ID: MC-50-20190409**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541241 — **Prep Batch: 540982**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND	F1 F2	0.00400	0.000494	F1 F2	mg/L		12	75 - 125	26	20

QC Sample Results

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238447-1
SDG: Henderson NV

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 440-540322/1
Matrix: Water
Analysis Batch: 540322

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			04/15/19 08:40	1

Lab Sample ID: LCS 440-540322/2
Matrix: Water
Analysis Batch: 540322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	1010		mg/L		101	90 - 110		

Lab Sample ID: 440-238447-1 DU
Matrix: Water
Analysis Batch: 540322

Client Sample ID: MC-50-20190409
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	17000			17500		mg/L				0.9	5

QC Association Summary

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238447-1
SDG: Henderson NV

GC/MS VOA

Analysis Batch: 541643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238447-1	MC-50-20190409	Total/NA	Water	8260B	
MB 440-541643/8	Method Blank	Total/NA	Water	8260B	
LCS 440-541643/5	Lab Control Sample	Total/NA	Water	8260B	
440-238447-1 MS	MC-50-20190409	Total/NA	Water	8260B	
440-238447-1 MSD	MC-50-20190409	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 539643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238447-1	MC-50-20190409	Total/NA	Water	3510C	
440-238447-1 - DL	MC-50-20190409	Total/NA	Water	3510C	
MB 440-539643/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-539643/2-A	Lab Control Sample	Total/NA	Water	3510C	
440-238447-1 MS	MC-50-20190409	Total/NA	Water	3510C	
440-238447-1 MSD	MC-50-20190409	Total/NA	Water	3510C	

Analysis Batch: 540074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238447-1	MC-50-20190409	Total/NA	Water	8081A	539643
440-238447-1 - DL	MC-50-20190409	Total/NA	Water	8081A	539643
MB 440-539643/1-A	Method Blank	Total/NA	Water	8081A	539643
LCS 440-539643/2-A	Lab Control Sample	Total/NA	Water	8081A	539643
440-238447-1 MS	MC-50-20190409	Total/NA	Water	8081A	539643
440-238447-1 MSD	MC-50-20190409	Total/NA	Water	8081A	539643

HPLC/IC

Analysis Batch: 541096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238447-1	MC-50-20190409	Total/NA	Water	314.0	
MB 440-541096/6	Method Blank	Total/NA	Water	314.0	
LCS 440-541096/5	Lab Control Sample	Total/NA	Water	314.0	
MRL 440-541096/4	Lab Control Sample	Total/NA	Water	314.0	
440-238447-1 MS	MC-50-20190409	Total/NA	Water	314.0	
440-238447-1 MSD	MC-50-20190409	Total/NA	Water	314.0	

Metals

Prep Batch: 539961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238447-1	MC-50-20190409	Total Recoverable	Water	3005A	
MB 440-539961/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-539961/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-238447-1 MS	MC-50-20190409	Total Recoverable	Water	3005A	
440-238447-1 MSD	MC-50-20190409	Total Recoverable	Water	3005A	

Analysis Batch: 540085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238447-1	MC-50-20190409	Total Recoverable	Water	6020	539961
MB 440-539961/1-A	Method Blank	Total Recoverable	Water	6020	539961
LCS 440-539961/2-A	Lab Control Sample	Total Recoverable	Water	6020	539961

QC Association Summary

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238447-1
SDG: Henderson NV

Metals (Continued)

Analysis Batch: 540085 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238447-1 MS	MC-50-20190409	Total Recoverable	Water	6020	539961
440-238447-1 MSD	MC-50-20190409	Total Recoverable	Water	6020	539961

Prep Batch: 540982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238447-1	MC-50-20190409	Total/NA	Water	7470A	
MB 440-540982/1-A	Method Blank	Total/NA	Water	7470A	
LCS 440-540982/2-A	Lab Control Sample	Total/NA	Water	7470A	
440-238447-1 MS	MC-50-20190409	Total/NA	Water	7470A	
440-238447-1 MSD	MC-50-20190409	Total/NA	Water	7470A	

Analysis Batch: 541241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238447-1	MC-50-20190409	Total/NA	Water	7470A	540982
MB 440-540982/1-A	Method Blank	Total/NA	Water	7470A	540982
LCS 440-540982/2-A	Lab Control Sample	Total/NA	Water	7470A	540982
440-238447-1 MS	MC-50-20190409	Total/NA	Water	7470A	540982
440-238447-1 MSD	MC-50-20190409	Total/NA	Water	7470A	540982

General Chemistry

Analysis Batch: 540322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238447-1	MC-50-20190409	Total/NA	Water	SM 2540C	
MB 440-540322/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-540322/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-238447-1 DU	MC-50-20190409	Total/NA	Water	SM 2540C	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: de maximis, inc.
Project/Site: 3200B Henderson Transect

Job ID: 440-238447-1
SDG: Henderson NV

Laboratory: Eurofins TestAmerica, Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Nevada	State Program	9	CA015312018-1	07-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8081A	3510C	Water	2,4'-DDD
8081A	3510C	Water	2,4'-DDE
8081A	3510C	Water	2,4'-DDT
8081A	3510C	Water	4,4'-DDD
8081A	3510C	Water	4,4'-DDE
8081A	3510C	Water	4,4'-DDT
8081A	3510C	Water	Aldrin
8081A	3510C	Water	alpha-BHC
8081A	3510C	Water	beta-BHC
8081A	3510C	Water	Chlordane
8081A	3510C	Water	delta-BHC
8081A	3510C	Water	Dieldrin
8081A	3510C	Water	Endosulfan I
8081A	3510C	Water	Endosulfan II
8081A	3510C	Water	Endosulfan sulfate
8081A	3510C	Water	Endrin
8081A	3510C	Water	Endrin aldehyde
8081A	3510C	Water	Endrin ketone
8081A	3510C	Water	gamma-BHC (Lindane)
8081A	3510C	Water	Heptachlor
8081A	3510C	Water	Heptachlor epoxide
8081A	3510C	Water	Methoxychlor
8081A	3510C	Water	Toxaphene
8260B		Water	Dimethyl disulfide

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Nicole Bradley, Dean Charles	Site Contact: Kevin Paprocki	Date: 4/9/2019	COC No:
de maximis, Inc.	Tel/Fax: 619-546-8377	Lab Contact: Danielle Roberts	Carrier:	_____ of _____ COCs
1322 Scott St., Suite 101	Analysis Turnaround Time			Job No. **3200B**
San Diego, CA 92106	Calendar (C) or Work Days (W)___ W___			
(619) 546-8377 Phone	TAT if different from Below_____			SDG No.
(619) 546-9980 Fax	☒ 2 weeks			
Project Name: **3200B Henderson Transect**	☐ 1 week			
Site: Henderson, NV	☐ 2 days			
PO#	☐ 1 day			

Sample Identification	Container Type	Sample Date	Sample Time	Preservation Type	Matrix	# of Containers	8260B-HEND-Qtrly	8081A – Pesticides	RCRA 8 Metals + Uranium - 7470A & 6020	TDS – SM2540C	Perchlorate 314.0							VOC concentration > 500 ppb	MS/MSD REQUIRED	LEVEL 2A REQUIRED	Sample Specific Notes:
MC-50-20190409	Various	4/9/2019	0847	4°C	AQ	16	X	X	X	X	X							X	X	X	

440-238447 Chain of Custody

[1] I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445 0636)
Signature: _____ Date _____

Preservation Used: 1= Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other_____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return to Client* ☐ Disposal by Lab Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Sample Int (circle one)
Intact: Y / N on ice: Y / N
temperature:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Converse	4/9/19 1415	[signature]	TALVS	4-9-19 1415
Relinquished by: [signature]	Company: DWW	Date/Time: 4/9/19 16:00 PA	Received by:	Company: TALVS	Date/Time: 4/10/19 10:15

TALVS IR 96 4.6 / 4.9
2.8/2.3 2.2/1.7 5.1/4.6 16.94

(C) 1K8-4766 5637 0256

Login Sample Receipt Checklist

Client: de maximis, inc.

Job Number: 440-238447-2
SDG Number: Henderson NV

Login Number: 238447
List Number: 1
Creator: Escalante, Maria I

List Source: Eurofins TestAmerica, Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

Laboratory Job ID: 440-238680-1
Laboratory Sample Delivery Group: Henderson, NV
Client Project/Site: 3200C Henderson Sitewide

For:
de maximis, inc.
1322 Scott Street, Suite 104
San Diego, California 92106

Attn: Nicole Bradley

Authorized for release by:
5/2/2019 4:57:40 PM

Danielle Roberts, Senior Project Manager
(949)260-3249
danielle.roberts@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 6
Client Sample Results 8
Surrogate Summary 21
Method Summary 22
Lab Chronicle 23
QC Sample Results 25
QC Association Summary 44
Definitions/Glossary 47
Certification Summary 48
Chain of Custody 49
Receipt Checklists 50

Sample Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238680-1
SDG: Henderson, NV

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-238680-1	TB-20190410	Water	04/10/19 09:45	04/11/19 10:10
440-238680-2	PL-507-20190410	Water	04/10/19 10:25	04/11/19 10:10
440-238680-3	AA-MW-05-20190410	Water	04/10/19 08:43	04/11/19 10:10
440-238680-4	H-55-20190410	Water	04/10/19 10:20	04/11/19 10:10
440-238680-5	MC-111-20190410	Water	04/10/19 10:26	04/11/19 10:10
440-238680-6	AGX-90-20190410	Water	04/10/19 08:49	04/11/19 10:10

Job ID: 440-238680-1

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative
440-238680-1

Comments
No additional comments.

Receipt
The samples were received on 4/11/2019 10:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3º C.

GC/MS VOA
Method(s) 8260B: Internal standard (ISTD) response for TBA-d9 for the following sample was outside acceptance criteria: PL-507-20190410 (440-238680-2). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-542118 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 6020: The following sample was diluted due to the nature of the sample matrix: H-55-20190410 (440-238680-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 440-238680-2

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative
440-238680-2

Comments
No additional comments.

Receipt
The samples were received on 4/11/2019 10:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3º C.

HPLC/IC

Job ID: 440-238680-2 (Continued)

Laboratory: Eurofins TestAmerica, Irvine (Continued)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238680-1
SDG: Henderson, NV

Client Sample ID: TB-20190410 — Lab Sample ID: 440-238680-1

No Detections.

Client Sample ID: PL-507-20190410 — Lab Sample ID: 440-238680-2

No Detections.

Client Sample ID: AA-MW-05-20190410 — Lab Sample ID: 440-238680-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perchlorate	53		20	4.8	ug/L	5		314.0	Total/NA
Arsenic	48		0.20	0.10	ug/L	1		6020	Total Recoverable
Barium	14		0.20	0.10	ug/L	1		6020	Total Recoverable
Chromium	7.9		0.50	0.25	ug/L	1		6020	Total Recoverable
Selenium	5.3		0.60	0.30	ug/L	1		6020	Total Recoverable
Uranium	4.5		0.10	0.050	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	2100		20	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: H-55-20190410 — Lab Sample ID: 440-238680-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-BHC	0.015		0.0052	0.0026	ug/L	1		8081A	Total/NA
beta-BHC	0.070		0.010	0.0042	ug/L	1		8081A	Total/NA
delta-BHC	0.055	J	0.21	0.0037	ug/L	1		8081A	Total/NA
Perchlorate	31		20	4.8	ug/L	5		314.0	Total/NA
Barium	14		1.0	0.50	ug/L	5		6020	Total Recoverable
Lead	0.25	J	0.50	0.25	ug/L	5		6020	Total Recoverable
Total Dissolved Solids	1500		20	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MC-111-20190410 — Lab Sample ID: 440-238680-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.60	J	2.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	0.55	J	2.0	0.25	ug/L	1		8260B	Total/NA
alpha-BHC	0.0074		0.0051	0.0025	ug/L	1		8081A	Total/NA
beta-BHC	0.0099	J	0.010	0.0041	ug/L	1		8081A	Total/NA
delta-BHC	0.0041	J p	0.20	0.0036	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.018	J	0.10	0.0030	ug/L	1		8081A	Total/NA
Perchlorate	11000		2000	480	ug/L	500		314.0	Total/NA
Arsenic	38		0.20	0.10	ug/L	1		6020	Total Recoverable
Barium	41		0.20	0.10	ug/L	1		6020	Total Recoverable
Cadmium	0.36		0.10	0.050	ug/L	1		6020	Total Recoverable
Chromium	2.9		0.50	0.25	ug/L	1		6020	Total Recoverable
Lead	0.23		0.10	0.050	ug/L	1		6020	Total Recoverable
Selenium	4.7		0.60	0.30	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238680-1
SDG: Henderson, NV

Client Sample ID: MC-111-20190410 (Continued) — Lab Sample ID: 440-238680-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.14	J	0.20	0.10	ug/L	1		6020	Total Recoverable
Uranium	37		0.10	0.050	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	7800		100	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AGX-90-20190410 — Lab Sample ID: 440-238680-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	21		0.20	0.10	ug/L	1		6020	Total Recoverable
Barium	25		0.20	0.10	ug/L	1		6020	Total Recoverable
Chromium	11		0.50	0.25	ug/L	1		6020	Total Recoverable
Lead	0.41		0.10	0.050	ug/L	1		6020	Total Recoverable
Selenium	2.6		0.60	0.30	ug/L	1		6020	Total Recoverable
Uranium	2.3		0.10	0.050	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	730		10	5.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238680-1
SDG: Henderson, NV

Client Sample ID: TB-20190410

Date Collected: 04/10/19 09:45
Date Received: 04/11/19 10:10

Lab Sample ID: 440-238680-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/24/19 17:50	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/24/19 17:50	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/24/19 17:50	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/24/19 17:50	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/24/19 17:50	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/24/19 17:50	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/24/19 17:50	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/24/19 17:50	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/24/19 17:50	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/24/19 17:50	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/24/19 17:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/24/19 17:50	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/24/19 17:50	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/24/19 17:50	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/24/19 17:50	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/24/19 17:50	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/24/19 17:50	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/24/19 17:50	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/24/19 17:50	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/24/19 17:50	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/24/19 17:50	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/24/19 17:50	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/24/19 17:50	1
Benzene	ND		2.0	0.25	ug/L			04/24/19 17:50	1
Bromobenzene	ND		5.0	0.25	ug/L			04/24/19 17:50	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/24/19 17:50	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/24/19 17:50	1
Bromoform	ND		5.0	0.40	ug/L			04/24/19 17:50	1
Bromomethane	ND		5.0	0.25	ug/L			04/24/19 17:50	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/24/19 17:50	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/24/19 17:50	1
Chloroethane	ND		5.0	0.40	ug/L			04/24/19 17:50	1
Chloroform	ND		2.0	0.25	ug/L			04/24/19 17:50	1
Chloromethane	ND		5.0	0.25	ug/L			04/24/19 17:50	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/24/19 17:50	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/24/19 17:50	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/24/19 17:50	1
Dibromomethane	ND		2.0	0.25	ug/L			04/24/19 17:50	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/24/19 17:50	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/24/19 17:50	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/24/19 17:50	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/24/19 17:50	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/24/19 17:50	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/24/19 17:50	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/24/19 17:50	1
Naphthalene	ND		5.0	0.40	ug/L			04/24/19 17:50	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/24/19 17:50	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/24/19 17:50	1
o-Xylene	ND		2.0	0.25	ug/L			04/24/19 17:50	1

Client Sample ID: TB-20190410

Lab Sample ID: 440-238680-1

Date Collected: 04/10/19 09:45
Matrix: Water
Date Received: 04/11/19 10:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/24/19 17:50	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/24/19 17:50	1
Styrene	ND		2.0	0.25	ug/L			04/24/19 17:50	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/24/19 17:50	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/24/19 17:50	1
Toluene	ND		2.0	0.25	ug/L			04/24/19 17:50	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/24/19 17:50	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/24/19 17:50	1
Trichloroethene	ND		2.0	0.25	ug/L			04/24/19 17:50	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/24/19 17:50	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/24/19 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*04/24/19 17:50*	*1*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*04/24/19 17:50*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*04/24/19 17:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*04/24/19 17:50*	*1*

Client Sample ID: PL-507-20190410

Lab Sample ID: 440-238680-2

Date Collected: 04/10/19 10:25
Matrix: Water
Date Received: 04/11/19 10:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/24/19 00:50	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/24/19 00:50	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/24/19 00:50	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/24/19 00:50	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/24/19 00:50	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/24/19 00:50	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/24/19 00:50	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/24/19 00:50	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/24/19 00:50	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/24/19 00:50	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/24/19 00:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/24/19 00:50	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/24/19 00:50	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/24/19 00:50	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/24/19 00:50	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/24/19 00:50	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/24/19 00:50	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/24/19 00:50	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/24/19 00:50	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/24/19 00:50	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/24/19 00:50	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/24/19 00:50	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/24/19 00:50	1
Benzene	ND		2.0	0.25	ug/L			04/24/19 00:50	1
Bromobenzene	ND		5.0	0.25	ug/L			04/24/19 00:50	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/24/19 00:50	1

Client Sample ID: PL-507-20190410

Lab Sample ID: 440-238680-2

Date Collected: 04/10/19 10:25
Matrix: Water
Date Received: 04/11/19 10:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		2.0	0.25	ug/L			04/24/19 00:50	1
Bromoform	ND		5.0	0.40	ug/L			04/24/19 00:50	1
Bromomethane	ND		5.0	0.25	ug/L			04/24/19 00:50	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/24/19 00:50	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/24/19 00:50	1
Chloroethane	ND		5.0	0.40	ug/L			04/24/19 00:50	1
Chloroform	ND		2.0	0.25	ug/L			04/24/19 00:50	1
Chloromethane	ND		5.0	0.25	ug/L			04/24/19 00:50	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/24/19 00:50	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/24/19 00:50	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/24/19 00:50	1
Dibromomethane	ND		2.0	0.25	ug/L			04/24/19 00:50	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/24/19 00:50	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/24/19 00:50	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/24/19 00:50	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/24/19 00:50	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/24/19 00:50	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/24/19 00:50	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/24/19 00:50	1
Naphthalene	ND		5.0	0.40	ug/L			04/24/19 00:50	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/24/19 00:50	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/24/19 00:50	1
o-Xylene	ND		2.0	0.25	ug/L			04/24/19 00:50	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/24/19 00:50	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/24/19 00:50	1
Styrene	ND		2.0	0.25	ug/L			04/24/19 00:50	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/24/19 00:50	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/24/19 00:50	1
Toluene	ND		2.0	0.25	ug/L			04/24/19 00:50	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/24/19 00:50	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/24/19 00:50	1
Trichloroethene	ND		2.0	0.25	ug/L			04/24/19 00:50	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/24/19 00:50	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/24/19 00:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*04/24/19 00:50*	*1*
Dibromofluoromethane (Surr)	*83*		*76 - 132*		*04/24/19 00:50*	*1*
Toluene-d8 (Surr)	*111*		*80 - 128*		*04/24/19 00:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*71*		*70 - 130*		*04/24/19 00:50*	*1*

Client Sample ID: AA-MW-05-20190410

Lab Sample ID: 440-238680-3

Date Collected: 04/10/19 08:43
Matrix: Water
Date Received: 04/11/19 10:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/24/19 01:17	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/24/19 01:17	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/24/19 01:17	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238680-1
SDG: Henderson, NV

Client Sample ID: AA-MW-05-20190410

Lab Sample ID: 440-238680-3

Date Collected: 04/10/19 08:43
Date Received: 04/11/19 10:10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/24/19 01:17	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/24/19 01:17	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/24/19 01:17	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/24/19 01:17	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/24/19 01:17	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/24/19 01:17	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/24/19 01:17	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/24/19 01:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/24/19 01:17	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/24/19 01:17	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/24/19 01:17	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/24/19 01:17	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/24/19 01:17	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/24/19 01:17	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/24/19 01:17	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/24/19 01:17	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/24/19 01:17	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/24/19 01:17	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/24/19 01:17	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/24/19 01:17	1
Benzene	ND		2.0	0.25	ug/L			04/24/19 01:17	1
Bromobenzene	ND		5.0	0.25	ug/L			04/24/19 01:17	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/24/19 01:17	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/24/19 01:17	1
Bromoform	ND		5.0	0.40	ug/L			04/24/19 01:17	1
Bromomethane	ND		5.0	0.25	ug/L			04/24/19 01:17	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/24/19 01:17	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/24/19 01:17	1
Chloroethane	ND		5.0	0.40	ug/L			04/24/19 01:17	1
Chloroform	ND		2.0	0.25	ug/L			04/24/19 01:17	1
Chloromethane	ND		5.0	0.25	ug/L			04/24/19 01:17	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/24/19 01:17	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/24/19 01:17	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/24/19 01:17	1
Dibromomethane	ND		2.0	0.25	ug/L			04/24/19 01:17	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/24/19 01:17	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/24/19 01:17	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/24/19 01:17	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/24/19 01:17	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/24/19 01:17	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/24/19 01:17	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/24/19 01:17	1
Naphthalene	ND		5.0	0.40	ug/L			04/24/19 01:17	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/24/19 01:17	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/24/19 01:17	1
o-Xylene	ND		2.0	0.25	ug/L			04/24/19 01:17	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/24/19 01:17	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/24/19 01:17	1
Styrene	ND		2.0	0.25	ug/L			04/24/19 01:17	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238680-1
SDG: Henderson, NV

Client Sample ID: AA-MW-05-20190410

Lab Sample ID: 440-238680-3

Date Collected: 04/10/19 08:43
Date Received: 04/11/19 10:10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/24/19 01:17	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/24/19 01:17	1
Toluene	ND		2.0	0.25	ug/L			04/24/19 01:17	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/24/19 01:17	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/24/19 01:17	1
Trichloroethene	ND		2.0	0.25	ug/L			04/24/19 01:17	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/24/19 01:17	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/24/19 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*04/24/19 01:17*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*04/24/19 01:17*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*04/24/19 01:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*04/24/19 01:17*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.096	0.019	ug/L		04/15/19 10:40	04/16/19 16:40	1
2,4'-DDE	ND		0.096	0.019	ug/L		04/15/19 10:40	04/16/19 16:40	1
2,4'-DDT	ND		0.096	0.019	ug/L		04/15/19 10:40	04/16/19 16:40	1
4,4'-DDD	ND		0.096	0.0038	ug/L		04/15/19 10:40	04/16/19 16:40	1
4,4'-DDE	ND		0.096	0.0029	ug/L		04/15/19 10:40	04/16/19 16:40	1
4,4'-DDT	ND		0.096	0.0038	ug/L		04/15/19 10:40	04/16/19 16:40	1
Aldrin	ND		0.0048	0.0014	ug/L		04/15/19 10:40	04/16/19 16:40	1
alpha-BHC	ND		0.0048	0.0024	ug/L		04/15/19 10:40	04/16/19 16:40	1
beta-BHC	ND		0.0096	0.0038	ug/L		04/15/19 10:40	04/16/19 16:40	1
Chlordane	ND		0.096	0.077	ug/L		04/15/19 10:40	04/16/19 16:40	1
delta-BHC	ND		0.19	0.0034	ug/L		04/15/19 10:40	04/16/19 16:40	1
Dieldrin	ND		0.0048	0.0019	ug/L		04/15/19 10:40	04/16/19 16:40	1
Endosulfan I	ND		0.096	0.0029	ug/L		04/15/19 10:40	04/16/19 16:40	1
Endosulfan II	ND		0.096	0.0019	ug/L		04/15/19 10:40	04/16/19 16:40	1
Endosulfan sulfate	ND		0.19	0.0029	ug/L		04/15/19 10:40	04/16/19 16:40	1
Endrin	ND		0.096	0.0019	ug/L		04/15/19 10:40	04/16/19 16:40	1
Endrin aldehyde	ND		0.096	0.0019	ug/L		04/15/19 10:40	04/16/19 16:40	1
Endrin ketone	ND		0.096	0.0067	ug/L		04/15/19 10:40	04/16/19 16:40	1
gamma-BHC (Lindane)	ND		0.096	0.0029	ug/L		04/15/19 10:40	04/16/19 16:40	1
Heptachlor	ND		0.0096	0.0029	ug/L		04/15/19 10:40	04/16/19 16:40	1
Heptachlor epoxide	ND		0.0048	0.0024	ug/L		04/15/19 10:40	04/16/19 16:40	1
Methoxychlor	ND		0.096	0.0034	ug/L		04/15/19 10:40	04/16/19 16:40	1
Toxaphene	ND		4.8	0.24	ug/L		04/15/19 10:40	04/16/19 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*28 - 108*	*04/15/19 10:40*	*04/16/19 16:40*	*1*
Tetrachloro-m-xylene	*59*		*10 - 123*	*04/15/19 10:40*	*04/16/19 16:40*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**53**		20	4.8	ug/L			04/23/19 19:04	5

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238680-1
SDG: Henderson, NV

Client Sample ID: AA-MW-05-20190410

Lab Sample ID: 440-238680-3
Matrix: Water

Date Collected: 04/10/19 08:43
Date Received: 04/11/19 10:10

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**48**		0.20	0.10	ug/L		04/16/19 08:21	04/16/19 14:37	1
Barium	**14**		0.20	0.10	ug/L		04/16/19 08:21	04/16/19 14:37	1
Cadmium	ND		0.10	0.050	ug/L		04/16/19 08:21	04/16/19 14:37	1
Chromium	**7.9**		0.50	0.25	ug/L		04/16/19 08:21	04/16/19 14:37	1
Lead	ND		0.10	0.050	ug/L		04/16/19 08:21	04/16/19 14:37	1
Selenium	**5.3**		0.60	0.30	ug/L		04/16/19 08:21	04/16/19 14:37	1
Silver	ND		0.20	0.10	ug/L		04/16/19 08:21	04/16/19 14:37	1
Uranium	**4.5**		0.10	0.050	ug/L		04/16/19 08:21	04/16/19 14:37	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/26/19 09:30	04/26/19 14:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**2100**		20	10	mg/L			04/17/19 08:48	1

Client Sample ID: H-55-20190410

Lab Sample ID: 440-238680-4
Matrix: Water

Date Collected: 04/10/19 10:20
Date Received: 04/11/19 10:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/24/19 01:44	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/24/19 01:44	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/24/19 01:44	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/24/19 01:44	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/24/19 01:44	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/24/19 01:44	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/24/19 01:44	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/24/19 01:44	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/24/19 01:44	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/24/19 01:44	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/24/19 01:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/24/19 01:44	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/24/19 01:44	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/24/19 01:44	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/24/19 01:44	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/24/19 01:44	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/24/19 01:44	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/24/19 01:44	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/24/19 01:44	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/24/19 01:44	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/24/19 01:44	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/24/19 01:44	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/24/19 01:44	1
Benzene	ND		2.0	0.25	ug/L			04/24/19 01:44	1
Bromobenzene	ND		5.0	0.25	ug/L			04/24/19 01:44	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/24/19 01:44	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/24/19 01:44	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238680-1
SDG: Henderson, NV

Client Sample ID: H-55-20190410

Date Collected: 04/10/19 10:20
Date Received: 04/11/19 10:10

Lab Sample ID: 440-238680-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		5.0	0.40	ug/L			04/24/19 01:44	1
Bromomethane	ND		5.0	0.25	ug/L			04/24/19 01:44	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/24/19 01:44	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/24/19 01:44	1
Chloroethane	ND		5.0	0.40	ug/L			04/24/19 01:44	1
Chloroform	ND		2.0	0.25	ug/L			04/24/19 01:44	1
Chloromethane	ND		5.0	0.25	ug/L			04/24/19 01:44	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/24/19 01:44	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/24/19 01:44	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/24/19 01:44	1
Dibromomethane	ND		2.0	0.25	ug/L			04/24/19 01:44	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/24/19 01:44	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/24/19 01:44	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/24/19 01:44	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/24/19 01:44	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/24/19 01:44	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/24/19 01:44	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/24/19 01:44	1
Naphthalene	ND		5.0	0.40	ug/L			04/24/19 01:44	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/24/19 01:44	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/24/19 01:44	1
o-Xylene	ND		2.0	0.25	ug/L			04/24/19 01:44	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/24/19 01:44	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/24/19 01:44	1
Styrene	ND		2.0	0.25	ug/L			04/24/19 01:44	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/24/19 01:44	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/24/19 01:44	1
Toluene	ND		2.0	0.25	ug/L			04/24/19 01:44	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/24/19 01:44	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/24/19 01:44	1
Trichloroethene	ND		2.0	0.25	ug/L			04/24/19 01:44	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/24/19 01:44	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/24/19 01:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*04/24/19 01:44*	*1*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*04/24/19 01:44*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*04/24/19 01:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/24/19 01:44*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.021	ug/L		04/15/19 10:40	04/16/19 17:06	1
2,4'-DDE	ND		0.10	0.021	ug/L		04/15/19 10:40	04/16/19 17:06	1
2,4'-DDT	ND		0.10	0.021	ug/L		04/15/19 10:40	04/16/19 17:06	1
4,4'-DDD	ND		0.10	0.0042	ug/L		04/15/19 10:40	04/16/19 17:06	1
4,4'-DDE	ND		0.10	0.0031	ug/L		04/15/19 10:40	04/16/19 17:06	1
4,4'-DDT	ND		0.10	0.0042	ug/L		04/15/19 10:40	04/16/19 17:06	1
Aldrin	ND		0.0052	0.0016	ug/L		04/15/19 10:40	04/16/19 17:06	1
alpha-BHC	**0.015**		0.0052	0.0026	ug/L		04/15/19 10:40	04/16/19 17:06	1

Client Sample ID: H-55-20190410

Lab Sample ID: 440-238680-4

Date Collected: 04/10/19 10:20
Matrix: Water
Date Received: 04/11/19 10:10

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	**0.070**		0.010	0.0042	ug/L		04/15/19 10:40	04/16/19 17:06	1
Chlordane	ND		0.10	0.084	ug/L		04/15/19 10:40	04/16/19 17:06	1
delta-BHC	**0.055**	**J**	0.21	0.0037	ug/L		04/15/19 10:40	04/16/19 17:06	1
Dieldrin	ND		0.0052	0.0021	ug/L		04/15/19 10:40	04/16/19 17:06	1
Endosulfan I	ND		0.10	0.0031	ug/L		04/15/19 10:40	04/16/19 17:06	1
Endosulfan II	ND		0.10	0.0021	ug/L		04/15/19 10:40	04/16/19 17:06	1
Endosulfan sulfate	ND		0.21	0.0031	ug/L		04/15/19 10:40	04/16/19 17:06	1
Endrin	ND		0.10	0.0021	ug/L		04/15/19 10:40	04/16/19 17:06	1
Endrin aldehyde	ND		0.10	0.0021	ug/L		04/15/19 10:40	04/16/19 17:06	1
Endrin ketone	ND		0.10	0.0073	ug/L		04/15/19 10:40	04/16/19 17:06	1
gamma-BHC (Lindane)	ND		0.10	0.0031	ug/L		04/15/19 10:40	04/16/19 17:06	1
Heptachlor	ND		0.010	0.0031	ug/L		04/15/19 10:40	04/16/19 17:06	1
Heptachlor epoxide	ND		0.0052	0.0026	ug/L		04/15/19 10:40	04/16/19 17:06	1
Methoxychlor	ND		0.10	0.0037	ug/L		04/15/19 10:40	04/16/19 17:06	1
Toxaphene	ND		5.2	0.26	ug/L		04/15/19 10:40	04/16/19 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*28 - 108*	*04/15/19 10:40*	*04/16/19 17:06*	*1*
Tetrachloro-m-xylene	*53*		*10 - 123*	*04/15/19 10:40*	*04/16/19 17:06*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**31**		20	4.8	ug/L			04/23/19 19:22	5

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.50	ug/L		04/16/19 08:21	04/16/19 14:34	5
Barium	**14**		1.0	0.50	ug/L		04/16/19 08:21	04/16/19 14:34	5
Cadmium	ND		0.50	0.25	ug/L		04/16/19 08:21	04/16/19 14:34	5
Chromium	ND		2.5	1.3	ug/L		04/16/19 08:21	04/16/19 14:34	5
Lead	**0.25**	**J**	0.50	0.25	ug/L		04/16/19 08:21	04/16/19 14:34	5
Selenium	ND		3.0	1.5	ug/L		04/16/19 08:21	04/16/19 14:34	5
Silver	ND		1.0	0.50	ug/L		04/16/19 08:21	04/16/19 14:34	5
Uranium	ND		0.50	0.25	ug/L		04/16/19 08:21	04/16/19 14:34	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/26/19 09:30	04/26/19 15:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1500**		20	10	mg/L			04/17/19 08:48	1

Client Sample ID: MC-111-20190410

Lab Sample ID: 440-238680-5

Date Collected: 04/10/19 10:26
Matrix: Water
Date Received: 04/11/19 10:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/23/19 23:29	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/23/19 23:29	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238680-1
SDG: Henderson, NV

Client Sample ID: MC-111-20190410

Lab Sample ID: 440-238680-5

Date Collected: 04/10/19 10:26
Date Received: 04/11/19 10:10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/23/19 23:29	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/23/19 23:29	1
1,1-Dichloroethane	**0.60**	**J**	2.0	0.25	ug/L			04/23/19 23:29	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/23/19 23:29	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/23/19 23:29	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/23/19 23:29	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/23/19 23:29	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/23/19 23:29	1
1,2,4-Trimethylbenzene	ND	F1	2.0	0.25	ug/L			04/23/19 23:29	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/23/19 23:29	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/23/19 23:29	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/23/19 23:29	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/23/19 23:29	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/23/19 23:29	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/23/19 23:29	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/23/19 23:29	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/23/19 23:29	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/23/19 23:29	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/23/19 23:29	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/23/19 23:29	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/23/19 23:29	1
Benzene	ND		2.0	0.25	ug/L			04/23/19 23:29	1
Bromobenzene	ND		5.0	0.25	ug/L			04/23/19 23:29	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/23/19 23:29	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/23/19 23:29	1
Bromoform	ND		5.0	0.40	ug/L			04/23/19 23:29	1
Bromomethane	ND		5.0	0.25	ug/L			04/23/19 23:29	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/23/19 23:29	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/23/19 23:29	1
Chloroethane	ND		5.0	0.40	ug/L			04/23/19 23:29	1
Chloroform	**0.55**	**J**	2.0	0.25	ug/L			04/23/19 23:29	1
Chloromethane	ND		5.0	0.25	ug/L			04/23/19 23:29	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/23/19 23:29	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/23/19 23:29	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/23/19 23:29	1
Dibromomethane	ND		2.0	0.25	ug/L			04/23/19 23:29	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/23/19 23:29	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/23/19 23:29	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/23/19 23:29	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/23/19 23:29	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/23/19 23:29	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/23/19 23:29	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/23/19 23:29	1
Naphthalene	ND		5.0	0.40	ug/L			04/23/19 23:29	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/23/19 23:29	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/23/19 23:29	1
o-Xylene	ND		2.0	0.25	ug/L			04/23/19 23:29	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/23/19 23:29	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/23/19 23:29	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238680-1
SDG: Henderson, NV

Client Sample ID: MC-111-20190410

Lab Sample ID: 440-238680-5

Date Collected: 04/10/19 10:26
Date Received: 04/11/19 10:10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND	F1	2.0	0.25	ug/L			04/23/19 23:29	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/23/19 23:29	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/23/19 23:29	1
Toluene	ND		2.0	0.25	ug/L			04/23/19 23:29	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/23/19 23:29	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/23/19 23:29	1
Trichloroethene	ND		2.0	0.25	ug/L			04/23/19 23:29	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/23/19 23:29	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/23/19 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*04/23/19 23:29*	*1*
Dibromofluoromethane (Surr)	*96*		*76 - 132*		*04/23/19 23:29*	*1*
Toluene-d8 (Surr)	*98*		*80 - 128*		*04/23/19 23:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/23/19 23:29*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/15/19 10:40	04/16/19 16:14	1
2,4'-DDE	ND		0.10	0.020	ug/L		04/15/19 10:40	04/16/19 16:14	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/15/19 10:40	04/16/19 16:14	1
4,4'-DDD	ND		0.10	0.0041	ug/L		04/15/19 10:40	04/16/19 16:14	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/15/19 10:40	04/16/19 16:14	1
4,4'-DDT	ND		0.10	0.0041	ug/L		04/15/19 10:40	04/16/19 16:14	1
Aldrin	ND		0.0051	0.0015	ug/L		04/15/19 10:40	04/16/19 16:14	1
alpha-BHC	**0.0074**		0.0051	0.0025	ug/L		04/15/19 10:40	04/16/19 16:14	1
beta-BHC	**0.0099**	**J**	0.010	0.0041	ug/L		04/15/19 10:40	04/16/19 16:14	1
Chlordane	ND		0.10	0.081	ug/L		04/15/19 10:40	04/16/19 16:14	1
delta-BHC	**0.0041**	**J p**	0.20	0.0036	ug/L		04/15/19 10:40	04/16/19 16:14	1
Dieldrin	ND		0.0051	0.0020	ug/L		04/15/19 10:40	04/16/19 16:14	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/15/19 10:40	04/16/19 16:14	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/15/19 10:40	04/16/19 16:14	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/15/19 10:40	04/16/19 16:14	1
Endrin	ND		0.10	0.0020	ug/L		04/15/19 10:40	04/16/19 16:14	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/15/19 10:40	04/16/19 16:14	1
Endrin ketone	ND		0.10	0.0071	ug/L		04/15/19 10:40	04/16/19 16:14	1
gamma-BHC (Lindane)	**0.018**	**J**	0.10	0.0030	ug/L		04/15/19 10:40	04/16/19 16:14	1
Heptachlor	ND		0.010	0.0030	ug/L		04/15/19 10:40	04/16/19 16:14	1
Heptachlor epoxide	ND		0.0051	0.0025	ug/L		04/15/19 10:40	04/16/19 16:14	1
Methoxychlor	ND		0.10	0.0036	ug/L		04/15/19 10:40	04/16/19 16:14	1
Toxaphene	ND		5.1	0.25	ug/L		04/15/19 10:40	04/16/19 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*28 - 108*	*04/15/19 10:40*	*04/16/19 16:14*	*1*
Tetrachloro-m-xylene	*46*		*10 - 123*	*04/15/19 10:40*	*04/16/19 16:14*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**11000**		2000	480	ug/L			04/22/19 11:33	500

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238680-1
SDG: Henderson, NV

Client Sample ID: MC-111-20190410

Lab Sample ID: 440-238680-5
Matrix: Water

Date Collected: 04/10/19 10:26
Date Received: 04/11/19 10:10

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	38		0.20	0.10	ug/L		04/16/19 08:21	04/16/19 14:20	1
Barium	41		0.20	0.10	ug/L		04/16/19 08:21	04/16/19 14:20	1
Cadmium	0.36		0.10	0.050	ug/L		04/16/19 08:21	04/16/19 14:20	1
Chromium	2.9		0.50	0.25	ug/L		04/16/19 08:21	04/16/19 14:20	1
Lead	0.23		0.10	0.050	ug/L		04/16/19 08:21	04/16/19 14:20	1
Selenium	4.7		0.60	0.30	ug/L		04/16/19 08:21	04/16/19 14:20	1
Silver	0.14	J	0.20	0.10	ug/L		04/16/19 08:21	04/16/19 14:20	1
Uranium	37		0.10	0.050	ug/L		04/16/19 08:21	04/16/19 14:20	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/26/19 09:30	04/26/19 14:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	7800		100	50	mg/L			04/17/19 08:48	1

Client Sample ID: AGX-90-20190410

Lab Sample ID: 440-238680-6
Matrix: Water

Date Collected: 04/10/19 08:49
Date Received: 04/11/19 10:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/24/19 02:11	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/24/19 02:11	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/24/19 02:11	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/24/19 02:11	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/24/19 02:11	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/24/19 02:11	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/24/19 02:11	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/24/19 02:11	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/24/19 02:11	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/24/19 02:11	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/24/19 02:11	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/24/19 02:11	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/24/19 02:11	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/24/19 02:11	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/24/19 02:11	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/24/19 02:11	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/24/19 02:11	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/24/19 02:11	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/24/19 02:11	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/24/19 02:11	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/24/19 02:11	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/24/19 02:11	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/24/19 02:11	1
Benzene	ND		2.0	0.25	ug/L			04/24/19 02:11	1
Bromobenzene	ND		5.0	0.25	ug/L			04/24/19 02:11	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/24/19 02:11	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/24/19 02:11	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238680-1
SDG: Henderson, NV

Client Sample ID: AGX-90-20190410

Lab Sample ID: 440-238680-6

Date Collected: 04/10/19 08:49
Date Received: 04/11/19 10:10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		5.0	0.40	ug/L			04/24/19 02:11	1
Bromomethane	ND		5.0	0.25	ug/L			04/24/19 02:11	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/24/19 02:11	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/24/19 02:11	1
Chloroethane	ND		5.0	0.40	ug/L			04/24/19 02:11	1
Chloroform	ND		2.0	0.25	ug/L			04/24/19 02:11	1
Chloromethane	ND		5.0	0.25	ug/L			04/24/19 02:11	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/24/19 02:11	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/24/19 02:11	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/24/19 02:11	1
Dibromomethane	ND		2.0	0.25	ug/L			04/24/19 02:11	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/24/19 02:11	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/24/19 02:11	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/24/19 02:11	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/24/19 02:11	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/24/19 02:11	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/24/19 02:11	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/24/19 02:11	1
Naphthalene	ND		5.0	0.40	ug/L			04/24/19 02:11	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/24/19 02:11	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/24/19 02:11	1
o-Xylene	ND		2.0	0.25	ug/L			04/24/19 02:11	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/24/19 02:11	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/24/19 02:11	1
Styrene	ND		2.0	0.25	ug/L			04/24/19 02:11	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/24/19 02:11	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/24/19 02:11	1
Toluene	ND		2.0	0.25	ug/L			04/24/19 02:11	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/24/19 02:11	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/24/19 02:11	1
Trichloroethene	ND		2.0	0.25	ug/L			04/24/19 02:11	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/24/19 02:11	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/24/19 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*04/24/19 02:11*	*1*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*04/24/19 02:11*	*1*
Toluene-d8 (Surr)	*97*		*80 - 128*		*04/24/19 02:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*04/24/19 02:11*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.098	0.020	ug/L		04/15/19 10:40	04/16/19 17:31	1
2,4'-DDE	ND		0.098	0.020	ug/L		04/15/19 10:40	04/16/19 17:31	1
2,4'-DDT	ND		0.098	0.020	ug/L		04/15/19 10:40	04/16/19 17:31	1
4,4'-DDD	ND		0.098	0.0039	ug/L		04/15/19 10:40	04/16/19 17:31	1
4,4'-DDE	ND		0.098	0.0029	ug/L		04/15/19 10:40	04/16/19 17:31	1
4,4'-DDT	ND		0.098	0.0039	ug/L		04/15/19 10:40	04/16/19 17:31	1
Aldrin	ND		0.0049	0.0015	ug/L		04/15/19 10:40	04/16/19 17:31	1
alpha-BHC	ND		0.0049	0.0025	ug/L		04/15/19 10:40	04/16/19 17:31	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238680-1
SDG: Henderson, NV

Client Sample ID: AGX-90-20190410

Lab Sample ID: 440-238680-6

Date Collected: 04/10/19 08:49
Date Received: 04/11/19 10:10

Matrix: Water

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	ND		0.0098	0.0039	ug/L		04/15/19 10:40	04/16/19 17:31	1
Chlordane	ND		0.098	0.078	ug/L		04/15/19 10:40	04/16/19 17:31	1
delta-BHC	ND		0.20	0.0034	ug/L		04/15/19 10:40	04/16/19 17:31	1
Dieldrin	ND		0.0049	0.0020	ug/L		04/15/19 10:40	04/16/19 17:31	1
Endosulfan I	ND		0.098	0.0029	ug/L		04/15/19 10:40	04/16/19 17:31	1
Endosulfan II	ND		0.098	0.0020	ug/L		04/15/19 10:40	04/16/19 17:31	1
Endosulfan sulfate	ND		0.20	0.0029	ug/L		04/15/19 10:40	04/16/19 17:31	1
Endrin	ND		0.098	0.0020	ug/L		04/15/19 10:40	04/16/19 17:31	1
Endrin aldehyde	ND		0.098	0.0020	ug/L		04/15/19 10:40	04/16/19 17:31	1
Endrin ketone	ND		0.098	0.0069	ug/L		04/15/19 10:40	04/16/19 17:31	1
gamma-BHC (Lindane)	ND		0.098	0.0029	ug/L		04/15/19 10:40	04/16/19 17:31	1
Heptachlor	ND		0.0098	0.0029	ug/L		04/15/19 10:40	04/16/19 17:31	1
Heptachlor epoxide	ND		0.0049	0.0025	ug/L		04/15/19 10:40	04/16/19 17:31	1
Methoxychlor	ND		0.098	0.0034	ug/L		04/15/19 10:40	04/16/19 17:31	1
Toxaphene	ND		4.9	0.25	ug/L		04/15/19 10:40	04/16/19 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*28 - 108*	*04/15/19 10:40*	*04/16/19 17:31*	*1*
Tetrachloro-m-xylene	*49*		*10 - 123*	*04/15/19 10:40*	*04/16/19 17:31*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/23/19 18:46	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**21**		0.20	0.10	ug/L		04/16/19 08:21	04/16/19 14:31	1
Barium	**25**		0.20	0.10	ug/L		04/16/19 08:21	04/16/19 14:31	1
Cadmium	ND		0.10	0.050	ug/L		04/16/19 08:21	04/16/19 14:31	1
Chromium	**11**		0.50	0.25	ug/L		04/16/19 08:21	04/16/19 14:31	1
Lead	**0.41**		0.10	0.050	ug/L		04/16/19 08:21	04/16/19 14:31	1
Selenium	**2.6**		0.60	0.30	ug/L		04/16/19 08:21	04/16/19 14:31	1
Silver	ND		0.20	0.10	ug/L		04/16/19 08:21	04/16/19 14:31	1
Uranium	**2.3**		0.10	0.050	ug/L		04/16/19 08:21	04/16/19 14:31	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/26/19 09:30	04/26/19 15:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**730**		10	5.0	mg/L			04/17/19 08:48	1

Surrogate Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238680-1
SDG: Henderson, NV

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	TOL	DCA
Lab Sample ID	Client Sample ID	(80-120)	(76-132)	(80-128)	(70-130)
320-49141-B-12 MS	Matrix Spike	93	103	101	92
320-49141-C-12 MSD	Matrix Spike Duplicate	92	103	101	88
440-238680-1	TB-20190410	92	104	105	92
440-238680-2	PL-507-20190410	103	83	111	71
440-238680-3	AA-MW-05-20190410	103	98	100	100
440-238680-4	H-55-20190410	102	100	98	99
440-238680-5	MC-111-20190410	96	96	98	99
440-238680-5 MS	MC-111-20190410	104	94	97	90
440-238680-5 MSD	MC-111-20190410	108	88	104	87
440-238680-6	AGX-90-20190410	103	107	97	103
LCS 440-542118/5	Lab Control Sample	101	89	101	93
LCS 440-542174/5	Lab Control Sample	93	104	103	91
MB 440-542118/4	Method Blank	97	102	99	103
MB 440-542174/4	Method Blank	92	102	105	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(28-108)	(10-123)
440-238680-3	AA-MW-05-20190410	72	59
440-238680-4	H-55-20190410	65	53
440-238680-5	MC-111-20190410	69	46
440-238680-5 MS	MC-111-20190410	74	47
440-238680-5 MSD	MC-111-20190410	74	49
440-238680-6	AGX-90-20190410	71	49
LCS 440-540366/2-A	Lab Control Sample	64	52
MB 440-540366/1-A	Method Blank	71	52

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238680-1
SDG: Henderson, NV

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
314.0	Perchlorate (IC)	EPA	TAL IRV
6020	Metals (ICP/MS)	SW846	TAL IRV
7470A	Mercury (CVAA)	SW846	TAL IRV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL IRV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238680-1
SDG: Henderson, NV

Client Sample ID: TB-20190410 — Lab Sample ID: 440-238680-1

Date Collected: 04/10/19 09:45 — **Matrix: Water**
Date Received: 04/11/19 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542174	04/24/19 17:50	RM	TAL IRV

Client Sample ID: PL-507-20190410 — Lab Sample ID: 440-238680-2

Date Collected: 04/10/19 10:25 — **Matrix: Water**
Date Received: 04/11/19 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542118	04/24/19 00:50	OH1	TAL IRV

Client Sample ID: AA-MW-05-20190410 — Lab Sample ID: 440-238680-3

Date Collected: 04/10/19 08:43 — **Matrix: Water**
Date Received: 04/11/19 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542118	04/24/19 01:17	OH1	TAL IRV
Total/NA	Prep	3510C			1040 mL	2 mL	540366	04/15/19 10:40	HCK	TAL IRV
Total/NA	Analysis	8081A		1			540610	04/16/19 16:40	D1D	TAL IRV
Total/NA	Analysis	314.0		5			541942	04/23/19 19:04	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	540602	04/16/19 08:21	BV	TAL IRV
Total Recoverable	Analysis	6020		1			540709	04/16/19 14:37	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542335	04/26/19 09:30	KE	TAL IRV
Total/NA	Analysis	7470A		1			542977	04/26/19 14:58	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	540849	04/17/19 08:48	XL	TAL IRV

Client Sample ID: H-55-20190410 — Lab Sample ID: 440-238680-4

Date Collected: 04/10/19 10:20 — **Matrix: Water**
Date Received: 04/11/19 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542118	04/24/19 01:44	OH1	TAL IRV
Total/NA	Prep	3510C			955 mL	2 mL	540366	04/15/19 10:40	HCK	TAL IRV
Total/NA	Analysis	8081A		1			540610	04/16/19 17:06	D1D	TAL IRV
Total/NA	Analysis	314.0		5			541942	04/23/19 19:22	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	540602	04/16/19 08:21	BV	TAL IRV
Total Recoverable	Analysis	6020		5			540709	04/16/19 14:34	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542335	04/26/19 09:30	KE	TAL IRV
Total/NA	Analysis	7470A		1			542977	04/26/19 15:04	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	540849	04/17/19 08:48	XL	TAL IRV

Client Sample ID: MC-111-20190410 — Lab Sample ID: 440-238680-5

Date Collected: 04/10/19 10:26 — **Matrix: Water**
Date Received: 04/11/19 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542118	04/23/19 23:29	OH1	TAL IRV

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238680-1
SDG: Henderson, NV

Client Sample ID: MC-111-20190410

Lab Sample ID: 440-238680-5

Date Collected: 04/10/19 10:26
Matrix: Water
Date Received: 04/11/19 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			985 mL	2 mL	540366	04/15/19 10:40	HCK	TAL IRV
Total/NA	Analysis	8081A		1			540610	04/16/19 16:14	D1D	TAL IRV
Total/NA	Analysis	314.0		500			541698	04/22/19 11:33	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	540602	04/16/19 08:21	BV	TAL IRV
Total Recoverable	Analysis	6020		1			540709	04/16/19 14:20	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542335	04/26/19 09:30	KE	TAL IRV
Total/NA	Analysis	7470A		1			542977	04/26/19 14:52	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	540849	04/17/19 08:48	XL	TAL IRV

Client Sample ID: AGX-90-20190410

Lab Sample ID: 440-238680-6

Date Collected: 04/10/19 08:49
Matrix: Water
Date Received: 04/11/19 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542118	04/24/19 02:11	OH1	TAL IRV
Total/NA	Prep	3510C			1020 mL	2 mL	540366	04/15/19 10:40	HCK	TAL IRV
Total/NA	Analysis	8081A		1			540610	04/16/19 17:31	D1D	TAL IRV
Total/NA	Analysis	314.0		1			541942	04/23/19 18:46	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	540602	04/16/19 08:21	BV	TAL IRV
Total Recoverable	Analysis	6020		1			540709	04/16/19 14:31	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542335	04/26/19 09:30	KE	TAL IRV
Total/NA	Analysis	7470A		1			542977	04/26/19 15:06	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	540849	04/17/19 08:48	XL	TAL IRV

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-542118/4
Matrix: Water
Analysis Batch: 542118

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/23/19 19:53	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/23/19 19:53	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/23/19 19:53	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/23/19 19:53	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/23/19 19:53	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/23/19 19:53	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/23/19 19:53	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/23/19 19:53	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/23/19 19:53	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/23/19 19:53	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/23/19 19:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/23/19 19:53	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/23/19 19:53	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/23/19 19:53	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/23/19 19:53	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/23/19 19:53	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/23/19 19:53	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/23/19 19:53	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/23/19 19:53	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/23/19 19:53	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/23/19 19:53	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/23/19 19:53	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/23/19 19:53	1
Benzene	ND		2.0	0.25	ug/L			04/23/19 19:53	1
Bromobenzene	ND		5.0	0.25	ug/L			04/23/19 19:53	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/23/19 19:53	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/23/19 19:53	1
Bromoform	ND		5.0	0.40	ug/L			04/23/19 19:53	1
Bromomethane	ND		5.0	0.25	ug/L			04/23/19 19:53	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/23/19 19:53	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/23/19 19:53	1
Chloroethane	ND		5.0	0.40	ug/L			04/23/19 19:53	1
Chloroform	ND		2.0	0.25	ug/L			04/23/19 19:53	1
Chloromethane	ND		5.0	0.25	ug/L			04/23/19 19:53	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/23/19 19:53	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/23/19 19:53	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/23/19 19:53	1
Dibromomethane	ND		2.0	0.25	ug/L			04/23/19 19:53	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/23/19 19:53	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/23/19 19:53	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/23/19 19:53	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/23/19 19:53	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/23/19 19:53	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/23/19 19:53	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/23/19 19:53	1
Naphthalene	ND		5.0	0.40	ug/L			04/23/19 19:53	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/23/19 19:53	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/23/19 19:53	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-542118/4
Matrix: Water
Analysis Batch: 542118

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.25	ug/L			04/23/19 19:53	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/23/19 19:53	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/23/19 19:53	1
Styrene	ND		2.0	0.25	ug/L			04/23/19 19:53	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/23/19 19:53	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/23/19 19:53	1
Toluene	ND		2.0	0.25	ug/L			04/23/19 19:53	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/23/19 19:53	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/23/19 19:53	1
Trichloroethene	ND		2.0	0.25	ug/L			04/23/19 19:53	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/23/19 19:53	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/23/19 19:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*04/23/19 19:53*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*04/23/19 19:53*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*04/23/19 19:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*04/23/19 19:53*	*1*

Lab Sample ID: LCS 440-542118/5
Matrix: Water
Analysis Batch: 542118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	9.86		ug/L		99	60 - 141
1,1,1-Trichloroethane	10.0	8.98		ug/L		90	70 - 130
1,1,2,2-Tetrachloroethane	10.0	10.6		ug/L		106	63 - 130
1,1,2-Trichloroethane	10.0	10.8		ug/L		108	70 - 130
1,1-Dichloroethane	10.0	10.0		ug/L		100	64 - 130
1,1-Dichloroethene	10.0	8.91		ug/L		89	70 - 130
1,1-Dichloropropene	10.0	9.34		ug/L		93	70 - 130
1,2,3-Trichlorobenzene	10.0	10.4		ug/L		104	60 - 140
1,2,3-Trichloropropane	10.0	10.9		ug/L		109	63 - 130
1,2,4-Trichlorobenzene	10.0	10.1		ug/L		101	60 - 140
1,2,4-Trimethylbenzene	10.0	10.6		ug/L		106	70 - 135
1,2-Dibromo-3-Chloropropane	10.0	12.8		ug/L		128	52 - 140
1,2-Dibromoethane (EDB)	10.0	10.7		ug/L		107	70 - 130
1,2-Dichlorobenzene	10.0	9.83		ug/L		98	70 - 130
1,2-Dichloroethane	10.0	10.2		ug/L		102	57 - 138
1,2-Dichloropropane	10.0	9.84		ug/L		98	67 - 130
1,3,5-Trimethylbenzene	10.0	10.8		ug/L		108	70 - 136
1,3-Dichlorobenzene	10.0	11.4		ug/L		114	70 - 130
1,3-Dichloropropane	10.0	10.5		ug/L		105	70 - 130
1,4-Dichlorobenzene	10.0	9.30		ug/L		93	70 - 130
2,2-Dichloropropane	10.0	9.42		ug/L		94	68 - 141
2-Chlorotoluene	10.0	10.4		ug/L		104	70 - 130
4-Chlorotoluene	10.0	11.0		ug/L		110	70 - 130
Benzene	10.0	9.40		ug/L		94	68 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-542118/5
Matrix: Water
Analysis Batch: 542118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	10.0	10.5		ug/L		105	70 - 130
Bromochloromethane	10.0	9.77		ug/L		98	70 - 130
Bromodichloromethane	10.0	9.62		ug/L		96	70 - 132
Bromoform	10.0	10.1		ug/L		101	60 - 148
Bromomethane	10.0	8.41		ug/L		84	64 - 139
Carbon tetrachloride	10.0	10.3		ug/L		103	60 - 150
Chlorobenzene	10.0	10.4		ug/L		104	70 - 130
Chloroethane	10.0	7.68		ug/L		77	64 - 135
Chloroform	10.0	10.2		ug/L		102	70 - 130
Chloromethane	10.0	7.26		ug/L		73	47 - 140
cis-1,2-Dichloroethene	10.0	9.40		ug/L		94	70 - 133
cis-1,3-Dichloropropene	10.0	11.1		ug/L		111	70 - 133
Dibromochloromethane	10.0	11.3		ug/L		113	69 - 145
Dibromomethane	10.0	9.30		ug/L		93	70 - 130
Dichlorodifluoromethane	10.0	6.13		ug/L		61	29 - 150
Ethylbenzene	10.0	10.6		ug/L		106	70 - 130
Hexachlorobutadiene	10.0	10.6		ug/L		106	10 - 150
Isopropylbenzene	10.0	11.2		ug/L		112	70 - 136
m,p-Xylene	10.0	10.4		ug/L		104	70 - 130
Methylene Chloride	10.0	10.2		ug/L		102	52 - 130
Naphthalene	10.0	10.3		ug/L		103	60 - 140
n-Butylbenzene	10.0	9.94		ug/L		99	65 - 150
N-Propylbenzene	10.0	9.96		ug/L		100	67 - 139
o-Xylene	10.0	10.0		ug/L		100	70 - 130
p-Isopropyltoluene	10.0	10.6		ug/L		106	70 - 132
sec-Butylbenzene	10.0	10.5		ug/L		105	70 - 138
Styrene	10.0	10.1		ug/L		101	70 - 134
tert-Butylbenzene	10.0	10.1		ug/L		101	70 - 130
Tetrachloroethene	10.0	10.1		ug/L		101	70 - 130
Toluene	10.0	9.84		ug/L		98	70 - 130
trans-1,2-Dichloroethene	10.0	9.50		ug/L		95	70 - 130
trans-1,3-Dichloropropene	10.0	9.79		ug/L		98	70 - 132
Trichloroethene	10.0	9.54		ug/L		95	70 - 130
Trichlorofluoromethane	10.0	7.47		ug/L		75	60 - 150
Vinyl chloride	10.0	6.24		ug/L		62	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*89*		*76 - 132*
Toluene-d8 (Surr)	*101*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*

Lab Sample ID: 440-238680-5 MS
Matrix: Water
Analysis Batch: 542118

Client Sample ID: MC-111-20190410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		10.0	8.37		ug/L		84	60 - 149

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238680-5 MS
Matrix: Water
Analysis Batch: 542118

Client Sample ID: MC-111-20190410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		10.0	8.03		ug/L		80	70 - 130
1,1,2,2-Tetrachloroethane	ND		10.0	9.94		ug/L		99	63 - 130
1,1,2-Trichloroethane	ND		10.0	9.78		ug/L		98	70 - 130
1,1-Dichloroethane	0.60	J	10.0	10.0		ug/L		94	65 - 130
1,1-Dichloroethene	ND		10.0	8.09		ug/L		81	70 - 130
1,1-Dichloropropene	ND		10.0	8.93		ug/L		89	64 - 130
1,2,3-Trichlorobenzene	ND		10.0	8.88		ug/L		89	60 - 140
1,2,3-Trichloropropane	ND		10.0	10.4		ug/L		104	60 - 130
1,2,4-Trichlorobenzene	ND		10.0	8.93		ug/L		89	60 - 140
1,2,4-Trimethylbenzene	ND	F1	10.0	5.75	F1	ug/L		58	70 - 130
1,2-Dibromo-3-Chloropropane	ND		10.0	8.55		ug/L		85	48 - 140
1,2-Dibromoethane (EDB)	ND		10.0	8.98		ug/L		90	70 - 131
1,2-Dichlorobenzene	ND		10.0	9.92		ug/L		99	70 - 130
1,2-Dichloroethane	ND		10.0	9.58		ug/L		96	56 - 146
1,2-Dichloropropane	ND		10.0	8.34		ug/L		83	69 - 130
1,3,5-Trimethylbenzene	ND		10.0	8.95		ug/L		89	70 - 130
1,3-Dichlorobenzene	ND		10.0	10.6		ug/L		106	70 - 130
1,3-Dichloropropane	ND		10.0	8.81		ug/L		88	70 - 130
1,4-Dichlorobenzene	ND		10.0	9.00		ug/L		90	70 - 130
2,2-Dichloropropane	ND		10.0	8.69		ug/L		87	69 - 138
2-Chlorotoluene	ND		10.0	9.64		ug/L		96	70 - 130
4-Chlorotoluene	ND		10.0	9.99		ug/L		100	70 - 130
Benzene	ND		10.0	9.07		ug/L		91	66 - 130
Bromobenzene	ND		10.0	9.02		ug/L		90	70 - 130
Bromochloromethane	ND		10.0	8.22		ug/L		82	70 - 130
Bromodichloromethane	ND		10.0	8.98		ug/L		90	70 - 138
Bromoform	ND		10.0	8.55		ug/L		86	59 - 150
Bromomethane	ND		10.0	7.56		ug/L		76	62 - 131
Carbon tetrachloride	ND		10.0	9.00		ug/L		90	60 - 150
Chlorobenzene	ND		10.0	9.06		ug/L		91	70 - 130
Chloroethane	ND		10.0	7.14		ug/L		71	68 - 130
Chloroform	0.55	J	10.0	10.2		ug/L		97	70 - 130
Chloromethane	ND		10.0	6.56		ug/L		66	39 - 144
cis-1,2-Dichloroethene	ND		10.0	9.18		ug/L		92	70 - 130
cis-1,3-Dichloropropene	ND		10.0	9.66		ug/L		97	70 - 133
Dibromochloromethane	ND		10.0	8.72		ug/L		87	70 - 148
Dibromomethane	ND		10.0	8.78		ug/L		88	70 - 130
Dichlorodifluoromethane	ND		10.0	5.17		ug/L		52	25 - 142
Ethylbenzene	ND		10.0	9.55		ug/L		95	70 - 130
Hexachlorobutadiene	ND		10.0	8.60		ug/L		86	10 - 150
Isopropylbenzene	ND		10.0	9.37		ug/L		94	70 - 132
m,p-Xylene	ND		10.0	8.63		ug/L		86	70 - 133
Methylene Chloride	ND		10.0	8.55		ug/L		85	52 - 130
Naphthalene	ND		10.0	6.83		ug/L		68	60 - 140
n-Butylbenzene	ND		10.0	9.16		ug/L		92	61 - 149
N-Propylbenzene	ND		10.0	9.41		ug/L		94	66 - 135
o-Xylene	ND		10.0	7.84		ug/L		78	70 - 133
p-Isopropyltoluene	ND		10.0	9.32		ug/L		93	70 - 130
sec-Butylbenzene	ND		10.0	9.95		ug/L		99	67 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238680-5 MS
Matrix: Water
Analysis Batch: 542118

Client Sample ID: MC-111-20190410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	ND	F1	10.0	1.05	J F1	ug/L		10	29 - 150
tert-Butylbenzene	ND		10.0	9.45		ug/L		94	70 - 130
Tetrachloroethene	ND		10.0	8.73		ug/L		87	70 - 137
Toluene	ND		10.0	8.23		ug/L		82	70 - 130
trans-1,2-Dichloroethene	ND		10.0	8.76		ug/L		88	70 - 130
trans-1,3-Dichloropropene	ND		10.0	9.03		ug/L		90	70 - 138
Trichloroethene	ND		10.0	8.94		ug/L		89	70 - 130
Trichlorofluoromethane	ND		10.0	6.80		ug/L		68	60 - 150
Vinyl chloride	ND		10.0	5.92		ug/L		59	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*76 - 132*
Toluene-d8 (Surr)	*97*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*

Lab Sample ID: 440-238680-5 MSD
Matrix: Water
Analysis Batch: 542118

Client Sample ID: MC-111-20190410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		10.0	9.43		ug/L		94	60 - 149	12	20
1,1,1-Trichloroethane	ND		10.0	8.20		ug/L		82	70 - 130	2	20
1,1,2,2-Tetrachloroethane	ND		10.0	9.96		ug/L		100	63 - 130	0	30
1,1,2-Trichloroethane	ND		10.0	9.77		ug/L		98	70 - 130	0	25
1,1-Dichloroethane	0.60	J	10.0	10.2		ug/L		96	65 - 130	2	20
1,1-Dichloroethene	ND		10.0	8.08		ug/L		81	70 - 130	0	20
1,1-Dichloropropene	ND		10.0	8.25		ug/L		83	64 - 130	8	20
1,2,3-Trichlorobenzene	ND		10.0	9.62		ug/L		96	60 - 140	8	20
1,2,3-Trichloropropane	ND		10.0	9.37	J	ug/L		94	60 - 130	11	30
1,2,4-Trichlorobenzene	ND		10.0	10.3		ug/L		103	60 - 140	14	20
1,2,4-Trimethylbenzene	ND	F1	10.0	5.18	F1	ug/L		52	70 - 130	11	25
1,2-Dibromo-3-Chloropropane	ND		10.0	10.2		ug/L		102	48 - 140	18	30
1,2-Dibromoethane (EDB)	ND		10.0	9.10		ug/L		91	70 - 131	1	25
1,2-Dichlorobenzene	ND		10.0	9.87		ug/L		99	70 - 130	1	20
1,2-Dichloroethane	ND		10.0	9.52		ug/L		95	56 - 146	1	20
1,2-Dichloropropane	ND		10.0	8.55		ug/L		86	69 - 130	3	20
1,3,5-Trimethylbenzene	ND		10.0	8.86		ug/L		89	70 - 130	1	20
1,3-Dichlorobenzene	ND		10.0	11.1		ug/L		111	70 - 130	4	20
1,3-Dichloropropane	ND		10.0	9.99		ug/L		100	70 - 130	13	25
1,4-Dichlorobenzene	ND		10.0	9.39		ug/L		94	70 - 130	4	20
2,2-Dichloropropane	ND		10.0	8.31		ug/L		83	69 - 138	5	25
2-Chlorotoluene	ND		10.0	10.1		ug/L		101	70 - 130	4	20
4-Chlorotoluene	ND		10.0	10.4		ug/L		104	70 - 130	4	20
Benzene	ND		10.0	9.39		ug/L		94	66 - 130	3	20
Bromobenzene	ND		10.0	9.93		ug/L		99	70 - 130	10	20
Bromochloromethane	ND		10.0	8.71		ug/L		87	70 - 130	6	25
Bromodichloromethane	ND		10.0	9.59		ug/L		96	70 - 138	7	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238680-5 MSD
Matrix: Water
Analysis Batch: 542118

Client Sample ID: MC-111-20190410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		10.0	9.19		ug/L		92	59 - 150	7	25
Bromomethane	ND		10.0	7.52		ug/L		75	62 - 131	0	25
Carbon tetrachloride	ND		10.0	8.92		ug/L		89	60 - 150	1	25
Chlorobenzene	ND		10.0	9.81		ug/L		98	70 - 130	8	20
Chloroethane	ND		10.0	7.35		ug/L		73	68 - 130	3	25
Chloroform	0.55	J	10.0	10.5		ug/L		99	70 - 130	2	20
Chloromethane	ND		10.0	7.37		ug/L		74	39 - 144	12	25
cis-1,2-Dichloroethene	ND		10.0	9.40		ug/L		94	70 - 130	2	20
cis-1,3-Dichloropropene	ND		10.0	10.9		ug/L		109	70 - 133	12	20
Dibromochloromethane	ND		10.0	10.1		ug/L		101	70 - 148	15	25
Dibromomethane	ND		10.0	9.01		ug/L		90	70 - 130	3	25
Dichlorodifluoromethane	ND		10.0	5.33		ug/L		53	25 - 142	3	30
Ethylbenzene	ND		10.0	9.80		ug/L		98	70 - 130	3	20
Hexachlorobutadiene	ND		10.0	9.26		ug/L		93	10 - 150	7	20
Isopropylbenzene	ND		10.0	10.2		ug/L		102	70 - 132	9	20
m,p-Xylene	ND		10.0	9.38		ug/L		94	70 - 133	8	25
Methylene Chloride	ND		10.0	8.30		ug/L		83	52 - 130	3	20
Naphthalene	ND		10.0	7.21		ug/L		72	60 - 140	5	30
n-Butylbenzene	ND		10.0	9.47		ug/L		95	61 - 149	3	20
N-Propylbenzene	ND		10.0	9.62		ug/L		96	66 - 135	2	20
o-Xylene	ND		10.0	8.22		ug/L		82	70 - 133	5	20
p-Isopropyltoluene	ND		10.0	9.19		ug/L		92	70 - 130	1	20
sec-Butylbenzene	ND		10.0	10.1		ug/L		101	67 - 134	1	20
Styrene	ND	F1	10.0	0.756	J F1	ug/L		8	29 - 150	32	35
tert-Butylbenzene	ND		10.0	9.71		ug/L		97	70 - 130	3	20
Tetrachloroethene	ND		10.0	9.04		ug/L		90	70 - 137	3	20
Toluene	ND		10.0	9.48		ug/L		95	70 - 130	14	20
trans-1,2-Dichloroethene	ND		10.0	9.17		ug/L		92	70 - 130	5	20
trans-1,3-Dichloropropene	ND		10.0	9.30		ug/L		93	70 - 138	3	25
Trichloroethene	ND		10.0	8.88		ug/L		89	70 - 130	1	20
Trichlorofluoromethane	ND		10.0	6.91		ug/L		69	60 - 150	2	25
Vinyl chloride	ND		10.0	6.34		ug/L		63	50 - 137	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*88*		*76 - 132*
Toluene-d8 (Surr)	*104*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 130*

Lab Sample ID: MB 440-542174/4
Matrix: Water
Analysis Batch: 542174

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/24/19 08:04	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/24/19 08:04	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/24/19 08:04	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/24/19 08:04	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-542174/4
Matrix: Water
Analysis Batch: 542174

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/24/19 08:04	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/24/19 08:04	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/24/19 08:04	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/24/19 08:04	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/24/19 08:04	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/24/19 08:04	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/24/19 08:04	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/24/19 08:04	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/24/19 08:04	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/24/19 08:04	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/24/19 08:04	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/24/19 08:04	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/24/19 08:04	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/24/19 08:04	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/24/19 08:04	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/24/19 08:04	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/24/19 08:04	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/24/19 08:04	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/24/19 08:04	1
Benzene	ND		2.0	0.25	ug/L			04/24/19 08:04	1
Bromobenzene	ND		5.0	0.25	ug/L			04/24/19 08:04	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/24/19 08:04	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/24/19 08:04	1
Bromoform	ND		5.0	0.40	ug/L			04/24/19 08:04	1
Bromomethane	ND		5.0	0.25	ug/L			04/24/19 08:04	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/24/19 08:04	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/24/19 08:04	1
Chloroethane	ND		5.0	0.40	ug/L			04/24/19 08:04	1
Chloroform	ND		2.0	0.25	ug/L			04/24/19 08:04	1
Chloromethane	ND		5.0	0.25	ug/L			04/24/19 08:04	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/24/19 08:04	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/24/19 08:04	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/24/19 08:04	1
Dibromomethane	ND		2.0	0.25	ug/L			04/24/19 08:04	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/24/19 08:04	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/24/19 08:04	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/24/19 08:04	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/24/19 08:04	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/24/19 08:04	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/24/19 08:04	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/24/19 08:04	1
Naphthalene	ND		5.0	0.40	ug/L			04/24/19 08:04	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/24/19 08:04	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/24/19 08:04	1
o-Xylene	ND		2.0	0.25	ug/L			04/24/19 08:04	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/24/19 08:04	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/24/19 08:04	1
Styrene	ND		2.0	0.25	ug/L			04/24/19 08:04	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/24/19 08:04	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-542174/4
Matrix: Water
Analysis Batch: 542174

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		2.0	0.25	ug/L			04/24/19 08:04	1
Toluene	ND		2.0	0.25	ug/L			04/24/19 08:04	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/24/19 08:04	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/24/19 08:04	1
Trichloroethene	ND		2.0	0.25	ug/L			04/24/19 08:04	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/24/19 08:04	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/24/19 08:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*04/24/19 08:04*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*04/24/19 08:04*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*04/24/19 08:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*04/24/19 08:04*	*1*

Lab Sample ID: LCS 440-542174/5
Matrix: Water
Analysis Batch: 542174

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	10.9		ug/L		109	60 - 141
1,1,1-Trichloroethane	10.0	9.63		ug/L		96	70 - 130
1,1,2,2-Tetrachloroethane	10.0	8.83		ug/L		88	63 - 130
1,1,2-Trichloroethane	10.0	8.94		ug/L		89	70 - 130
1,1-Dichloroethane	10.0	9.63		ug/L		96	64 - 130
1,1-Dichloroethene	10.0	9.47		ug/L		95	70 - 130
1,1-Dichloropropene	10.0	8.83		ug/L		88	70 - 130
1,2,3-Trichlorobenzene	10.0	10.7		ug/L		107	60 - 140
1,2,3-Trichloropropane	10.0	8.40	J	ug/L		84	63 - 130
1,2,4-Trichlorobenzene	10.0	11.0		ug/L		110	60 - 140
1,2,4-Trimethylbenzene	10.0	10.3		ug/L		103	70 - 135
1,2-Dibromo-3-Chloropropane	10.0	8.70		ug/L		87	52 - 140
1,2-Dibromoethane (EDB)	10.0	8.82		ug/L		88	70 - 130
1,2-Dichlorobenzene	10.0	10.3		ug/L		103	70 - 130
1,2-Dichloroethane	10.0	8.30		ug/L		83	57 - 138
1,2-Dichloropropane	10.0	8.66		ug/L		87	67 - 130
1,3,5-Trimethylbenzene	10.0	10.3		ug/L		103	70 - 136
1,3-Dichlorobenzene	10.0	10.1		ug/L		101	70 - 130
1,3-Dichloropropane	10.0	8.50		ug/L		85	70 - 130
1,4-Dichlorobenzene	10.0	10.1		ug/L		101	70 - 130
2,2-Dichloropropane	10.0	11.2		ug/L		112	68 - 141
2-Chlorotoluene	10.0	9.87		ug/L		99	70 - 130
4-Chlorotoluene	10.0	9.63		ug/L		96	70 - 130
Benzene	10.0	9.37		ug/L		94	68 - 130
Bromobenzene	10.0	9.71		ug/L		97	70 - 130
Bromochloromethane	10.0	9.96		ug/L		100	70 - 130
Bromodichloromethane	10.0	9.09		ug/L		91	70 - 132
Bromoform	10.0	8.73		ug/L		87	60 - 148
Bromomethane	10.0	8.42		ug/L		84	64 - 139

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-542174/5
Matrix: Water
Analysis Batch: 542174

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	10.0	9.48		ug/L		95	60 - 150
Chlorobenzene	10.0	9.57		ug/L		96	70 - 130
Chloroethane	10.0	8.27		ug/L		83	64 - 135
Chloroform	10.0	9.90		ug/L		99	70 - 130
Chloromethane	10.0	6.52		ug/L		65	47 - 140
cis-1,2-Dichloroethene	10.0	10.0		ug/L		100	70 - 133
cis-1,3-Dichloropropene	10.0	9.51		ug/L		95	70 - 133
Dibromochloromethane	10.0	9.33		ug/L		93	69 - 145
Dibromomethane	10.0	8.55		ug/L		85	70 - 130
Dichlorodifluoromethane	10.0	5.61		ug/L		56	29 - 150
Ethylbenzene	10.0	9.56		ug/L		96	70 - 130
Hexachlorobutadiene	10.0	9.99		ug/L		100	10 - 150
Isopropylbenzene	10.0	10.3		ug/L		103	70 - 136
m,p-Xylene	10.0	9.98		ug/L		100	70 - 130
Methylene Chloride	10.0	9.78		ug/L		98	52 - 130
Naphthalene	10.0	9.65		ug/L		97	60 - 140
n-Butylbenzene	10.0	10.1		ug/L		101	65 - 150
N-Propylbenzene	10.0	9.78		ug/L		98	67 - 139
o-Xylene	10.0	10.5		ug/L		105	70 - 130
p-Isopropyltoluene	10.0	10.4		ug/L		104	70 - 132
sec-Butylbenzene	10.0	10.0		ug/L		100	70 - 138
Styrene	10.0	9.73		ug/L		97	70 - 134
tert-Butylbenzene	10.0	9.86		ug/L		99	70 - 130
Tetrachloroethene	10.0	10.3		ug/L		103	70 - 130
Toluene	10.0	9.44		ug/L		94	70 - 130
trans-1,2-Dichloroethene	10.0	10.1		ug/L		101	70 - 130
trans-1,3-Dichloropropene	10.0	8.36		ug/L		84	70 - 132
Trichloroethene	10.0	9.33		ug/L		93	70 - 130
Trichlorofluoromethane	10.0	8.04		ug/L		80	60 - 150
Vinyl chloride	10.0	7.25		ug/L		73	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*76 - 132*
Toluene-d8 (Surr)	*103*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*

Lab Sample ID: 320-49141-B-12 MS
Matrix: Water
Analysis Batch: 542174

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		10.0	11.3		ug/L		113	60 - 149
1,1,1-Trichloroethane	ND		10.0	9.88		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	ND		10.0	9.66		ug/L		97	63 - 130
1,1,2-Trichloroethane	ND		10.0	8.92		ug/L		89	70 - 130
1,1-Dichloroethane	ND		10.0	9.47		ug/L		95	65 - 130
1,1-Dichloroethene	ND		10.0	9.36		ug/L		94	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 320-49141-B-12 MS
Matrix: Water
Analysis Batch: 542174

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloropropene	ND		10.0	9.20		ug/L		92	64 - 130
1,2,3-Trichlorobenzene	ND		10.0	11.8		ug/L		118	60 - 140
1,2,3-Trichloropropane	ND		10.0	9.65	J	ug/L		97	60 - 130
1,2,4-Trichlorobenzene	ND		10.0	11.9		ug/L		119	60 - 140
1,2,4-Trimethylbenzene	ND		10.0	10.6		ug/L		106	70 - 130
1,2-Dibromo-3-Chloropropane	ND		10.0	9.91		ug/L		99	48 - 140
1,2-Dibromoethane (EDB)	ND		10.0	9.09		ug/L		91	70 - 131
1,2-Dichlorobenzene	ND		10.0	10.7		ug/L		107	70 - 130
1,2-Dichloroethane	ND		10.0	8.52		ug/L		85	56 - 146
1,2-Dichloropropane	ND		10.0	8.73		ug/L		87	69 - 130
1,3,5-Trimethylbenzene	ND		10.0	10.8		ug/L		108	70 - 130
1,3-Dichlorobenzene	ND		10.0	10.4		ug/L		104	70 - 130
1,3-Dichloropropane	ND		10.0	8.61		ug/L		86	70 - 130
1,4-Dichlorobenzene	ND		10.0	10.4		ug/L		104	70 - 130
2,2-Dichloropropane	ND		10.0	11.0		ug/L		110	69 - 138
2-Chlorotoluene	ND		10.0	10.4		ug/L		104	70 - 130
4-Chlorotoluene	ND		10.0	10.1		ug/L		101	70 - 130
Benzene	ND		10.0	9.32		ug/L		93	66 - 130
Bromobenzene	ND		10.0	10.1		ug/L		101	70 - 130
Bromochloromethane	ND		10.0	10.2		ug/L		102	70 - 130
Bromodichloromethane	ND		10.0	9.11		ug/L		91	70 - 138
Bromoform	ND		10.0	8.98		ug/L		90	59 - 150
Bromomethane	ND		10.0	7.65		ug/L		76	62 - 131
Carbon tetrachloride	ND		10.0	9.86		ug/L		99	60 - 150
Chlorobenzene	ND		10.0	9.74		ug/L		97	70 - 130
Chloroethane	ND		10.0	8.01		ug/L		80	68 - 130
Chloroform	ND		10.0	9.97		ug/L		100	70 - 130
Chloromethane	ND		10.0	5.66		ug/L		57	39 - 144
cis-1,2-Dichloroethene	ND		10.0	9.95		ug/L		99	70 - 130
cis-1,3-Dichloropropene	ND		10.0	9.68		ug/L		97	70 - 133
Dibromochloromethane	ND		10.0	9.79		ug/L		98	70 - 148
Dibromomethane	ND		10.0	8.77		ug/L		88	70 - 130
Dichlorodifluoromethane	ND		10.0	5.11		ug/L		51	25 - 142
Ethylbenzene	ND		10.0	9.73		ug/L		97	70 - 130
Hexachlorobutadiene	ND		10.0	11.1		ug/L		111	10 - 150
Isopropylbenzene	ND		10.0	10.5		ug/L		105	70 - 132
m,p-Xylene	ND		10.0	10.1		ug/L		101	70 - 133
Methylene Chloride	ND		10.0	9.78		ug/L		98	52 - 130
Naphthalene	ND		10.0	10.8		ug/L		108	60 - 140
n-Butylbenzene	ND		10.0	10.6		ug/L		106	61 - 149
N-Propylbenzene	ND		10.0	10.1		ug/L		101	66 - 135
o-Xylene	ND		10.0	10.7		ug/L		107	70 - 133
p-Isopropyltoluene	ND		10.0	10.9		ug/L		109	70 - 130
sec-Butylbenzene	ND		10.0	10.4		ug/L		104	67 - 134
Styrene	ND		10.0	10.0		ug/L		100	29 - 150
tert-Butylbenzene	ND		10.0	10.3		ug/L		103	70 - 130
Tetrachloroethene	ND		10.0	10.3		ug/L		103	70 - 137
Toluene	ND		10.0	9.58		ug/L		96	70 - 130
trans-1,2-Dichloroethene	ND		10.0	10.0		ug/L		100	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 320-49141-B-12 MS
Matrix: Water
Analysis Batch: 542174

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	ND		10.0	8.45		ug/L		85	70 - 138
Trichloroethene	0.33	J	10.0	9.71		ug/L		94	70 - 130
Trichlorofluoromethane	ND		10.0	8.06		ug/L		81	60 - 150
Vinyl chloride	ND		10.0	7.06		ug/L		71	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*76 - 132*
Toluene-d8 (Surr)	*101*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*

Lab Sample ID: 320-49141-C-12 MSD
Matrix: Water
Analysis Batch: 542174

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		10.0	11.2		ug/L		112	60 - 149	1	20
1,1,1-Trichloroethane	ND		10.0	10.2		ug/L		102	70 - 130	3	20
1,1,2,2-Tetrachloroethane	ND		10.0	9.23		ug/L		92	63 - 130	5	30
1,1,2-Trichloroethane	ND		10.0	9.04		ug/L		90	70 - 130	1	25
1,1-Dichloroethane	ND		10.0	9.81		ug/L		98	65 - 130	4	20
1,1-Dichloroethene	ND		10.0	9.75		ug/L		98	70 - 130	4	20
1,1-Dichloropropene	ND		10.0	9.41		ug/L		94	64 - 130	2	20
1,2,3-Trichlorobenzene	ND		10.0	11.2		ug/L		112	60 - 140	5	20
1,2,3-Trichloropropane	ND		10.0	8.53	J	ug/L		85	60 - 130	12	30
1,2,4-Trichlorobenzene	ND		10.0	11.4		ug/L		114	60 - 140	4	20
1,2,4-Trimethylbenzene	ND		10.0	10.6		ug/L		106	70 - 130	0	25
1,2-Dibromo-3-Chloropropane	ND		10.0	8.59		ug/L		86	48 - 140	14	30
1,2-Dibromoethane (EDB)	ND		10.0	8.82		ug/L		88	70 - 131	3	25
1,2-Dichlorobenzene	ND		10.0	10.7		ug/L		107	70 - 130	0	20
1,2-Dichloroethane	ND		10.0	8.43		ug/L		84	56 - 146	1	20
1,2-Dichloropropane	ND		10.0	8.69		ug/L		87	69 - 130	0	20
1,3,5-Trimethylbenzene	ND		10.0	10.8		ug/L		108	70 - 130	1	20
1,3-Dichlorobenzene	ND		10.0	10.4		ug/L		104	70 - 130	0	20
1,3-Dichloropropane	ND		10.0	8.86		ug/L		89	70 - 130	3	25
1,4-Dichlorobenzene	ND		10.0	10.5		ug/L		105	70 - 130	1	20
2,2-Dichloropropane	ND		10.0	11.1		ug/L		111	69 - 138	1	25
2-Chlorotoluene	ND		10.0	10.4		ug/L		104	70 - 130	0	20
4-Chlorotoluene	ND		10.0	10.2		ug/L		102	70 - 130	0	20
Benzene	ND		10.0	9.61		ug/L		96	66 - 130	3	20
Bromobenzene	ND		10.0	10.2		ug/L		102	70 - 130	0	20
Bromochloromethane	ND		10.0	9.91		ug/L		99	70 - 130	3	25
Bromodichloromethane	ND		10.0	9.13		ug/L		91	70 - 138	0	20
Bromoform	ND		10.0	9.01		ug/L		90	59 - 150	0	25
Bromomethane	ND		10.0	7.92		ug/L		79	62 - 131	3	25
Carbon tetrachloride	ND		10.0	10.0		ug/L		100	60 - 150	2	25
Chlorobenzene	ND		10.0	9.87		ug/L		99	70 - 130	1	20
Chloroethane	ND		10.0	8.08		ug/L		81	68 - 130	1	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 320-49141-C-12 MSD
Matrix: Water
Analysis Batch: 542174

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform	ND		10.0	10.1		ug/L		101	70 - 130	1	20
Chloromethane	ND		10.0	5.95		ug/L		60	39 - 144	5	25
cis-1,2-Dichloroethene	ND		10.0	10.3		ug/L		103	70 - 130	3	20
cis-1,3-Dichloropropene	ND		10.0	9.75		ug/L		98	70 - 133	1	20
Dibromochloromethane	ND		10.0	9.60		ug/L		96	70 - 148	2	25
Dibromomethane	ND		10.0	8.69		ug/L		87	70 - 130	1	25
Dichlorodifluoromethane	ND		10.0	5.23		ug/L		52	25 - 142	2	30
Ethylbenzene	ND		10.0	10.1		ug/L		101	70 - 130	3	20
Hexachlorobutadiene	ND		10.0	11.4		ug/L		114	10 - 150	2	20
Isopropylbenzene	ND		10.0	10.7		ug/L		107	70 - 132	2	20
m,p-Xylene	ND		10.0	10.2		ug/L		102	70 - 133	1	25
Methylene Chloride	ND		10.0	9.75		ug/L		97	52 - 130	0	20
Naphthalene	ND		10.0	9.98		ug/L		100	60 - 140	8	30
n-Butylbenzene	ND		10.0	10.6		ug/L		106	61 - 149	0	20
N-Propylbenzene	ND		10.0	10.3		ug/L		103	66 - 135	1	20
o-Xylene	ND		10.0	10.7		ug/L		107	70 - 133	0	20
p-Isopropyltoluene	ND		10.0	11.0		ug/L		110	70 - 130	1	20
sec-Butylbenzene	ND		10.0	10.6		ug/L		106	67 - 134	2	20
Styrene	ND		10.0	10.2		ug/L		102	29 - 150	2	35
tert-Butylbenzene	ND		10.0	10.3		ug/L		103	70 - 130	0	20
Tetrachloroethene	ND		10.0	10.7		ug/L		107	70 - 137	3	20
Toluene	ND		10.0	9.86		ug/L		99	70 - 130	3	20
trans-1,2-Dichloroethene	ND		10.0	10.3		ug/L		103	70 - 130	3	20
trans-1,3-Dichloropropene	ND		10.0	8.69		ug/L		87	70 - 138	3	25
Trichloroethene	0.33	J	10.0	9.96		ug/L		96	70 - 130	2	20
Trichlorofluoromethane	ND		10.0	8.44		ug/L		84	60 - 150	5	25
Vinyl chloride	ND		10.0	6.88		ug/L		69	50 - 137	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*76 - 132*
Toluene-d8 (Surr)	*101*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-540366/1-A
Matrix: Water
Analysis Batch: 540610

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540366

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/15/19 10:40	04/16/19 14:31	1
2,4'-DDE	ND		0.10	0.020	ug/L		04/15/19 10:40	04/16/19 14:31	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/15/19 10:40	04/16/19 14:31	1
4,4'-DDD	ND		0.10	0.0040	ug/L		04/15/19 10:40	04/16/19 14:31	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/15/19 10:40	04/16/19 14:31	1
4,4'-DDT	ND		0.10	0.0040	ug/L		04/15/19 10:40	04/16/19 14:31	1
Aldrin	ND		0.0050	0.0015	ug/L		04/15/19 10:40	04/16/19 14:31	1
alpha-BHC	ND		0.0050	0.0025	ug/L		04/15/19 10:40	04/16/19 14:31	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 440-540366/1-A
Matrix: Water
Analysis Batch: 540610

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540366

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	ND		0.010	0.0040	ug/L		04/15/19 10:40	04/16/19 14:31	1
Chlordane	ND		0.10	0.080	ug/L		04/15/19 10:40	04/16/19 14:31	1
delta-BHC	ND		0.20	0.0035	ug/L		04/15/19 10:40	04/16/19 14:31	1
Dieldrin	ND		0.0050	0.0020	ug/L		04/15/19 10:40	04/16/19 14:31	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/15/19 10:40	04/16/19 14:31	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/15/19 10:40	04/16/19 14:31	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/15/19 10:40	04/16/19 14:31	1
Endrin	ND		0.10	0.0020	ug/L		04/15/19 10:40	04/16/19 14:31	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/15/19 10:40	04/16/19 14:31	1
Endrin ketone	ND		0.10	0.0070	ug/L		04/15/19 10:40	04/16/19 14:31	1
gamma-BHC (Lindane)	ND		0.10	0.0030	ug/L		04/15/19 10:40	04/16/19 14:31	1
Heptachlor	ND		0.010	0.0030	ug/L		04/15/19 10:40	04/16/19 14:31	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/15/19 10:40	04/16/19 14:31	1
Methoxychlor	ND		0.10	0.0035	ug/L		04/15/19 10:40	04/16/19 14:31	1
Toxaphene	ND		5.0	0.25	ug/L		04/15/19 10:40	04/16/19 14:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*28 - 108*	*04/15/19 10:40*	*04/16/19 14:31*	*1*
Tetrachloro-m-xylene	*52*		*10 - 123*	*04/15/19 10:40*	*04/16/19 14:31*	*1*

Lab Sample ID: LCS 440-540366/2-A
Matrix: Water
Analysis Batch: 540610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540366

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4'-DDD	0.250	0.165		ug/L		66	10 - 150
2,4'-DDE	0.250	0.164		ug/L		66	10 - 150
2,4'-DDT	0.250	0.174		ug/L		69	10 - 150
4,4'-DDD	0.250	0.172		ug/L		69	50 - 128
4,4'-DDE	0.250	0.179		ug/L		72	49 - 121
4,4'-DDT	0.250	0.185		ug/L		74	41 - 140
Aldrin	0.250	0.137		ug/L		55	37 - 115
alpha-BHC	0.250	0.180		ug/L		72	44 - 115
beta-BHC	0.250	0.166		ug/L		66	46 - 121
delta-BHC	0.250	0.180	J	ug/L		72	32 - 129
Dieldrin	0.250	0.172		ug/L		69	39 - 126
Endosulfan I	0.250	0.174		ug/L		70	47 - 115
Endosulfan II	0.250	0.172		ug/L		69	47 - 120
Endosulfan sulfate	0.250	0.167	J	ug/L		67	48 - 126
Endrin	0.250	0.175		ug/L		70	43 - 127
Endrin aldehyde	0.250	0.159		ug/L		64	43 - 120
Endrin ketone	0.250	0.161		ug/L		64	47 - 123
gamma-BHC (Lindane)	0.250	0.176		ug/L		70	45 - 116
Heptachlor	0.250	0.169		ug/L		68	37 - 115
Heptachlor epoxide	0.250	0.171		ug/L		68	41 - 129
Methoxychlor	0.250	0.181		ug/L		72	44 - 141

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-540366/2-A
Matrix: Water
Analysis Batch: 540610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540366

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*64*		*28 - 108*
Tetrachloro-m-xylene	*52*		*10 - 123*

Lab Sample ID: 440-238680-5 MS
Matrix: Water
Analysis Batch: 540610

Client Sample ID: MC-111-20190410
Prep Type: Total/NA
Prep Batch: 540366

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4'-DDD	ND		0.243	0.186		ug/L		77	50 - 125
2,4'-DDE	ND		0.243	0.173		ug/L		71	45 - 125
2,4'-DDT	ND		0.243	0.193		ug/L		80	50 - 125
4,4'-DDD	ND		0.243	0.197		ug/L		81	50 - 125
4,4'-DDE	ND		0.243	0.195		ug/L		80	45 - 125
4,4'-DDT	ND		0.243	0.209		ug/L		86	50 - 125
Aldrin	ND		0.243	0.133		ug/L		55	35 - 120
alpha-BHC	0.0074		0.243	0.168		ug/L		66	40 - 120
beta-BHC	0.0099	J	0.243	0.182		ug/L		71	50 - 120
delta-BHC	0.0041	J p	0.243	0.196		ug/L		79	50 - 120
Dieldrin	ND		0.243	0.188		ug/L		78	50 - 120
Endosulfan I	ND		0.243	0.185		ug/L		76	50 - 120
Endosulfan II	ND		0.243	0.193		ug/L		80	50 - 125
Endosulfan sulfate	ND		0.243	0.190		ug/L		78	55 - 125
Endrin	ND		0.243	0.193		ug/L		80	50 - 120
Endrin aldehyde	ND		0.243	0.179		ug/L		74	45 - 125
Endrin ketone	ND		0.243	0.181		ug/L		74	50 - 125
gamma-BHC (Lindane)	0.018	J	0.243	0.189		ug/L		70	40 - 120
Heptachlor	ND		0.243	0.202		ug/L		83	40 - 120
Heptachlor epoxide	ND		0.243	0.180		ug/L		74	50 - 120
Methoxychlor	ND		0.243	0.207		ug/L		85	55 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*74*		*28 - 108*
Tetrachloro-m-xylene	*47*		*10 - 123*

Lab Sample ID: 440-238680-5 MSD
Matrix: Water
Analysis Batch: 540610

Client Sample ID: MC-111-20190410
Prep Type: Total/NA
Prep Batch: 540366

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4'-DDD	ND		0.242	0.187		ug/L		77	50 - 125	0	30
2,4'-DDE	ND		0.242	0.174		ug/L		72	45 - 125	0	30
2,4'-DDT	ND		0.242	0.193		ug/L		80	50 - 125	0	30
4,4'-DDD	ND		0.242	0.198		ug/L		82	50 - 125	1	30
4,4'-DDE	ND		0.242	0.196		ug/L		81	45 - 125	0	30
4,4'-DDT	ND		0.242	0.211		ug/L		87	50 - 125	1	30
Aldrin	ND		0.242	0.136		ug/L		56	35 - 120	2	30
alpha-BHC	0.0074		0.242	0.174		ug/L		69	40 - 120	3	30
beta-BHC	0.0099	J	0.242	0.185		ug/L		73	50 - 120	2	30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-238680-5 MSD — **Client Sample ID: MC-111-20190410**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540610 — **Prep Batch: 540366**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
delta-BHC	0.0041	J p	0.242	0.200		ug/L		81	50 - 120	2	30
Dieldrin	ND		0.242	0.189		ug/L		78	50 - 120	0	30
Endosulfan I	ND		0.242	0.186		ug/L		77	50 - 120	1	30
Endosulfan II	ND		0.242	0.194		ug/L		80	50 - 125	0	30
Endosulfan sulfate	ND		0.242	0.191		ug/L		79	55 - 125	0	30
Endrin	ND		0.242	0.194		ug/L		80	50 - 120	1	30
Endrin aldehyde	ND		0.242	0.179		ug/L		74	45 - 125	0	30
Endrin ketone	ND		0.242	0.182		ug/L		75	50 - 125	1	30
gamma-BHC (Lindane)	0.018	J	0.242	0.195		ug/L		73	40 - 120	3	30
Heptachlor	ND		0.242	0.210		ug/L		87	40 - 120	4	30
Heptachlor epoxide	ND		0.242	0.182		ug/L		75	50 - 120	1	30
Methoxychlor	ND		0.242	0.209		ug/L		87	55 - 125	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*74*		*28 - 108*
Tetrachloro-m-xylene	*49*		*10 - 123*

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 440-541698/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541698

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/22/19 10:22	1

Lab Sample ID: LCS 440-541698/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541698

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	25.0	23.6		ug/L		94	85 - 115

Lab Sample ID: MRL 440-541698/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541698

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	1.00	ND		ug/L		95	75 - 125

Lab Sample ID: 440-238680-5 MS — **Client Sample ID: MC-111-20190410**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541698

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	11000		12500	23500		ug/L		100	80 - 120

Method: 314.0 - Perchlorate (IC) (Continued)

Lab Sample ID: 440-238680-5 MSD — **Client Sample ID: MC-111-20190410**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541698

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	11000		12500	23400		ug/L		100	80 - 120	0	15

Lab Sample ID: MB 440-541942/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/23/19 09:03	1

Lab Sample ID: LCS 440-541942/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	10.0	10.5		ug/L		105	85 - 115

Lab Sample ID: MRL 440-541942/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541942

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	1.00	ND		ug/L		92	75 - 125

Lab Sample ID: MRL 440-541942/8 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541942

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	4.16		ug/L		104	75 - 125

Lab Sample ID: 680-167302-A-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541942

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	1.3	J	10.0	11.6		ug/L		103	80 - 120

Lab Sample ID: 680-167302-A-1 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541942

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	1.3	J	10.0	11.6		ug/L		103	80 - 120	0	15

QC Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238680-1
SDG: Henderson, NV

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 440-540602/1-A
Matrix: Water
Analysis Batch: 540709

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 540602

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.10	ug/L		04/16/19 08:21	04/16/19 14:15	1
Barium	ND		0.20	0.10	ug/L		04/16/19 08:21	04/16/19 14:15	1
Cadmium	ND		0.10	0.050	ug/L		04/16/19 08:21	04/16/19 14:15	1
Chromium	ND		0.50	0.25	ug/L		04/16/19 08:21	04/16/19 14:15	1
Lead	ND		0.10	0.050	ug/L		04/16/19 08:21	04/16/19 14:15	1
Selenium	ND		0.60	0.30	ug/L		04/16/19 08:21	04/16/19 14:15	1
Silver	ND		0.20	0.10	ug/L		04/16/19 08:21	04/16/19 14:15	1
Uranium	ND		0.10	0.050	ug/L		04/16/19 08:21	04/16/19 14:15	1

Lab Sample ID: LCS 440-540602/2-A
Matrix: Water
Analysis Batch: 540709

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 540602

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	80.0	76.1		ug/L		95	80 - 120
Barium	80.0	77.2		ug/L		96	80 - 120
Cadmium	80.0	76.0		ug/L		95	80 - 120
Chromium	80.0	75.5		ug/L		94	80 - 120
Lead	80.0	75.7		ug/L		95	80 - 120
Selenium	80.0	76.3		ug/L		95	80 - 120
Silver	80.0	73.1		ug/L		91	80 - 120
Uranium	80.0	75.7		ug/L		95	80 - 120

Lab Sample ID: 440-238680-5 MS
Matrix: Water
Analysis Batch: 540709

Client Sample ID: MC-111-20190410
Prep Type: Total Recoverable
Prep Batch: 540602

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	38		80.0	121		ug/L		104	75 - 125
Barium	41		80.0	115		ug/L		93	75 - 125
Cadmium	0.36		80.0	67.9		ug/L		84	75 - 125
Chromium	2.9		80.0	72.8		ug/L		87	75 - 125
Lead	0.23		80.0	68.3		ug/L		85	75 - 125
Selenium	4.7		80.0	74.7		ug/L		88	75 - 125
Silver	0.14	J	80.0	65.3		ug/L		81	75 - 125
Uranium	37		80.0	108		ug/L		89	75 - 125

Lab Sample ID: 440-238680-5 MSD
Matrix: Water
Analysis Batch: 540709

Client Sample ID: MC-111-20190410
Prep Type: Total Recoverable
Prep Batch: 540602

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	38		80.0	124		ug/L		107	75 - 125	2	20
Barium	41		80.0	118		ug/L		97	75 - 125	3	20
Cadmium	0.36		80.0	68.9		ug/L		86	75 - 125	1	20
Chromium	2.9		80.0	73.2		ug/L		88	75 - 125	1	20
Lead	0.23		80.0	69.4		ug/L		86	75 - 125	2	20
Selenium	4.7		80.0	75.1		ug/L		88	75 - 125	0	20
Silver	0.14	J	80.0	66.1		ug/L		82	75 - 125	1	20

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 440-238680-5 MSD — **Client Sample ID: MC-111-20190410**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 540709 — **Prep Batch: 540602**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Uranium	37		80.0	110		ug/L		91	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 440-542335/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542977 — **Prep Batch: 542335**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/26/19 09:30	04/26/19 14:48	1

Lab Sample ID: LCS 440-542335/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542977 — **Prep Batch: 542335**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00400	0.00457		mg/L		114	80 - 120

Lab Sample ID: 440-238680-5 MS — **Client Sample ID: MC-111-20190410**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542977 — **Prep Batch: 542335**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00400	0.00471		mg/L		118	75 - 125

Lab Sample ID: 440-238680-5 MSD — **Client Sample ID: MC-111-20190410**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542977 — **Prep Batch: 542335**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00400	0.00465		mg/L		116	75 - 125	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 440-540849/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540849

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			04/17/19 08:48	1

Lab Sample ID: LCS 440-540849/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	966		mg/L		97	90 - 110

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 440-238680-5 DU
Matrix: Water
Analysis Batch: 540849

Client Sample ID: MC-111-20190410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	7800			7870		mg/L				1	5

QC Association Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238680-1
SDG: Henderson, NV

GC/MS VOA

Analysis Batch: 542118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238680-2	PL-507-20190410	Total/NA	Water	8260B	
440-238680-3	AA-MW-05-20190410	Total/NA	Water	8260B	
440-238680-4	H-55-20190410	Total/NA	Water	8260B	
440-238680-5	MC-111-20190410	Total/NA	Water	8260B	
440-238680-6	AGX-90-20190410	Total/NA	Water	8260B	
MB 440-542118/4	Method Blank	Total/NA	Water	8260B	
LCS 440-542118/5	Lab Control Sample	Total/NA	Water	8260B	
440-238680-5 MS	MC-111-20190410	Total/NA	Water	8260B	
440-238680-5 MSD	MC-111-20190410	Total/NA	Water	8260B	

Analysis Batch: 542174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238680-1	TB-20190410	Total/NA	Water	8260B	
MB 440-542174/4	Method Blank	Total/NA	Water	8260B	
LCS 440-542174/5	Lab Control Sample	Total/NA	Water	8260B	
320-49141-B-12 MS	Matrix Spike	Total/NA	Water	8260B	
320-49141-C-12 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 540366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238680-3	AA-MW-05-20190410	Total/NA	Water	3510C	
440-238680-4	H-55-20190410	Total/NA	Water	3510C	
440-238680-5	MC-111-20190410	Total/NA	Water	3510C	
440-238680-6	AGX-90-20190410	Total/NA	Water	3510C	
MB 440-540366/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-540366/2-A	Lab Control Sample	Total/NA	Water	3510C	
440-238680-5 MS	MC-111-20190410	Total/NA	Water	3510C	
440-238680-5 MSD	MC-111-20190410	Total/NA	Water	3510C	

Analysis Batch: 540610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238680-3	AA-MW-05-20190410	Total/NA	Water	8081A	540366
440-238680-4	H-55-20190410	Total/NA	Water	8081A	540366
440-238680-5	MC-111-20190410	Total/NA	Water	8081A	540366
440-238680-6	AGX-90-20190410	Total/NA	Water	8081A	540366
MB 440-540366/1-A	Method Blank	Total/NA	Water	8081A	540366
LCS 440-540366/2-A	Lab Control Sample	Total/NA	Water	8081A	540366
440-238680-5 MS	MC-111-20190410	Total/NA	Water	8081A	540366
440-238680-5 MSD	MC-111-20190410	Total/NA	Water	8081A	540366

HPLC/IC

Analysis Batch: 541698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238680-5	MC-111-20190410	Total/NA	Water	314.0	
MB 440-541698/6	Method Blank	Total/NA	Water	314.0	
LCS 440-541698/5	Lab Control Sample	Total/NA	Water	314.0	
MRL 440-541698/4	Lab Control Sample	Total/NA	Water	314.0	
440-238680-5 MS	MC-111-20190410	Total/NA	Water	314.0	
440-238680-5 MSD	MC-111-20190410	Total/NA	Water	314.0	

QC Association Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238680-1
SDG: Henderson, NV

HPLC/IC

Analysis Batch: 541942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238680-3	AA-MW-05-20190410	Total/NA	Water	314.0	
440-238680-4	H-55-20190410	Total/NA	Water	314.0	
440-238680-6	AGX-90-20190410	Total/NA	Water	314.0	
MB 440-541942/6	Method Blank	Total/NA	Water	314.0	
LCS 440-541942/5	Lab Control Sample	Total/NA	Water	314.0	
MRL 440-541942/4	Lab Control Sample	Total/NA	Water	314.0	
MRL 440-541942/8	Lab Control Sample	Total/NA	Water	314.0	
680-167302-A-1 MS	Matrix Spike	Total/NA	Water	314.0	
680-167302-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0	

Metals

Prep Batch: 540602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238680-3	AA-MW-05-20190410	Total Recoverable	Water	3005A	
440-238680-4	H-55-20190410	Total Recoverable	Water	3005A	
440-238680-5	MC-111-20190410	Total Recoverable	Water	3005A	
440-238680-6	AGX-90-20190410	Total Recoverable	Water	3005A	
MB 440-540602/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-540602/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-238680-5 MS	MC-111-20190410	Total Recoverable	Water	3005A	
440-238680-5 MSD	MC-111-20190410	Total Recoverable	Water	3005A	

Analysis Batch: 540709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238680-3	AA-MW-05-20190410	Total Recoverable	Water	6020	540602
440-238680-4	H-55-20190410	Total Recoverable	Water	6020	540602
440-238680-5	MC-111-20190410	Total Recoverable	Water	6020	540602
440-238680-6	AGX-90-20190410	Total Recoverable	Water	6020	540602
MB 440-540602/1-A	Method Blank	Total Recoverable	Water	6020	540602
LCS 440-540602/2-A	Lab Control Sample	Total Recoverable	Water	6020	540602
440-238680-5 MS	MC-111-20190410	Total Recoverable	Water	6020	540602
440-238680-5 MSD	MC-111-20190410	Total Recoverable	Water	6020	540602

Prep Batch: 542335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238680-3	AA-MW-05-20190410	Total/NA	Water	7470A	
440-238680-4	H-55-20190410	Total/NA	Water	7470A	
440-238680-5	MC-111-20190410	Total/NA	Water	7470A	
440-238680-6	AGX-90-20190410	Total/NA	Water	7470A	
MB 440-542335/1-A	Method Blank	Total/NA	Water	7470A	
LCS 440-542335/2-A	Lab Control Sample	Total/NA	Water	7470A	
440-238680-5 MS	MC-111-20190410	Total/NA	Water	7470A	
440-238680-5 MSD	MC-111-20190410	Total/NA	Water	7470A	

Analysis Batch: 542977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238680-3	AA-MW-05-20190410	Total/NA	Water	7470A	542335
440-238680-4	H-55-20190410	Total/NA	Water	7470A	542335
440-238680-5	MC-111-20190410	Total/NA	Water	7470A	542335
440-238680-6	AGX-90-20190410	Total/NA	Water	7470A	542335

Metals (Continued)

Analysis Batch: 542977 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-542335/1-A	Method Blank	Total/NA	Water	7470A	542335
LCS 440-542335/2-A	Lab Control Sample	Total/NA	Water	7470A	542335
440-238680-5 MS	MC-111-20190410	Total/NA	Water	7470A	542335
440-238680-5 MSD	MC-111-20190410	Total/NA	Water	7470A	542335

General Chemistry

Analysis Batch: 540849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238680-3	AA-MW-05-20190410	Total/NA	Water	SM 2540C	
440-238680-4	H-55-20190410	Total/NA	Water	SM 2540C	
440-238680-5	MC-111-20190410	Total/NA	Water	SM 2540C	
440-238680-6	AGX-90-20190410	Total/NA	Water	SM 2540C	
MB 440-540849/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-540849/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-238680-5 DU	MC-111-20190410	Total/NA	Water	SM 2540C	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238680-1
SDG: Henderson, NV

Laboratory: Eurofins TestAmerica, Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Nevada	State Program	9	CA015312018-1	07-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8081A	3510C	Water	2,4'-DDD
8081A	3510C	Water	2,4'-DDE
8081A	3510C	Water	2,4'-DDT
8081A	3510C	Water	4,4'-DDD
8081A	3510C	Water	4,4'-DDE
8081A	3510C	Water	4,4'-DDT
8081A	3510C	Water	Aldrin
8081A	3510C	Water	alpha-BHC
8081A	3510C	Water	beta-BHC
8081A	3510C	Water	Chlordane
8081A	3510C	Water	delta-BHC
8081A	3510C	Water	Dieldrin
8081A	3510C	Water	Endosulfan I
8081A	3510C	Water	Endosulfan II
8081A	3510C	Water	Endosulfan sulfate
8081A	3510C	Water	Endrin
8081A	3510C	Water	Endrin aldehyde
8081A	3510C	Water	Endrin ketone
8081A	3510C	Water	gamma-BHC (Lindane)
8081A	3510C	Water	Heptachlor
8081A	3510C	Water	Heptachlor epoxide
8081A	3510C	Water	Methoxychlor
8081A	3510C	Water	Toxaphene
8260B		Water	Dimethyl disulfide

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone 949.261.1022 fax 949.260.3299

TestAmerica
Las Vegas
219

440-238680 Chain of Custody

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Nicole Bradley, Dean Charles	Site Contact: Kevin Paprocki	Date: 4/10/19	COC No:
de maximis, Inc.	Tel/Fax: 619-546-8377	Lab Contact: Danielle Roberts	Carrier:	____ of ____ COCs
1322 Scott St , Suite 101	Analysis Turnaround Time			Job No. **3200C**
San Diego, CA 92106	Calendar (C) or Work Days (W)___ W___			
(619) 546-8377 Phone	TAT if different from Below_____			SDG No.
(619) 546-9980 Fax	☒ 2 weeks			
Project Name: **3200C Henderson Sitewide**	☐ 1 week			
Site: Henderson, NV	☐ 2 days			
PO#	☐ 1 day			

Sample Identification	Container Type	Sample Date	Sample Time	Preservation Type	Matrix	# of Containers	8260B-HEND-Qtrly	8081A – Pesticides	RCRA 8 Metals + Uranium - 7470A & 6020	TDS – SM2540C	Perchlorate 314							VOC concentration > 500 ppb	MS/MSD REQUIRED	LEVEL 2A REQUIRED	Sample Specific Notes:
TB-20190410	VOA	4/10/19	0645	4°C	AQ	2	X													X	
PL-507-20190410	VOA	4/10/19	1025	4°C	AQ	3	X													X	
AA-MW-05-20190410	Various	4/10/19	0843	4°C	AQ	8	X	X	X	X	X									X	
H-55-20190410	Various	4/10/19	1020	4°C	AQ	8	X	X	X	X	X									X	
MC-111-20190410	Various	4/10/19	1026	4°C	AQ	8	X	X	X	X	X								X	X	
AGX-90-20190410	Various	4/10/19	0849	4°C	AQ	8	X	X	X	X	X									X	

[1] I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature:_____ Date_____

Preservation Used: 1= Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other_____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return to Client* ☐ Disposal by Lab Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Sample Int (circle one)
Intact: Y / N on ice: Y / N
temperature:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Converse	4/10/19 1225	[signature]	TALW	4/10/19 1225
[signature]	TALW	4/10/19 1600	[signature]	TALV	4/11/19 10:10
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

CSTRK-4766 56370320 1.95 1.1 29/33 1.89

Login Sample Receipt Checklist

Client: de maximis, inc.

Job Number: 440-238680-2
SDG Number: Henderson, NV

Login Number: 238680
List Number: 1
Creator: Skinner, Alma D

List Source: Eurofins TestAmerica, Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

Laboratory Job ID: 440-238734-1
Laboratory Sample Delivery Group: Henderson, NV
Client Project/Site: 3200C Henderson Sitewide

For:
de maximis, inc.
1322 Scott Street, Suite 104
San Diego, California 92106

Attn: Nicole Bradley

Authorized for release by:
5/3/2019 9:53:11 AM

Danielle Roberts, Senior Project Manager
(949)260-3249
danielle.roberts@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 7
Method Summary 9
Lab Chronicle 10
QC Sample Results 11
QC Association Summary 14
Definitions/Glossary 16
Certification Summary 17
Chain of Custody 18
Receipt Checklists 19

Sample Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238734-1
SDG: Henderson, NV

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-238734-1	MW-1-20190412	Water	04/12/19 10:26	04/13/19 10:30
440-238734-2	MW-2-20190412	Water	04/12/19 08:48	04/13/19 10:30
440-238734-3	MW-3-20190412	Water	04/12/19 08:53	04/13/19 10:30
440-238734-4	MW-4-20190412	Water	04/12/19 10:23	04/13/19 10:30

Case Narrative

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238734-1
SDG: Henderson, NV

Job ID: 440-238734-1

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative
440-238734-1

Comments
No additional comments.

Receipt
The samples were received on 4/13/2019 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 440-238734-2

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative
440-238734-2

Comments
No additional comments.

Receipt
The samples were received on 4/13/2019 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8º C.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238734-1
SDG: Henderson, NV

Client Sample ID: MW-1-20190412 — Lab Sample ID: 440-238734-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	57		0.20	0.10	ug/L	1		6020	Total Recoverable
Barium	22		0.20	0.10	ug/L	1		6020	Total Recoverable
Chromium	11		0.50	0.25	ug/L	1		6020	Total Recoverable
Lead	0.077	J	0.10	0.050	ug/L	1		6020	Total Recoverable
Selenium	1.7		0.60	0.30	ug/L	1		6020	Total Recoverable
Uranium	1.7		0.10	0.050	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	760		10	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-2-20190412 — Lab Sample ID: 440-238734-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perchlorate	1000		400	95	ug/L	100		314.0	Total/NA
Arsenic	61		0.20	0.10	ug/L	1		6020	Total Recoverable
Barium	45		0.20	0.10	ug/L	1		6020	Total Recoverable
Chromium	0.71		0.50	0.25	ug/L	1		6020	Total Recoverable
Lead	0.051	J	0.10	0.050	ug/L	1		6020	Total Recoverable
Selenium	0.59	J	0.60	0.30	ug/L	1		6020	Total Recoverable
Uranium	160		0.10	0.050	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	7600		100	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-3-20190412 — Lab Sample ID: 440-238734-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perchlorate	630		400	95	ug/L	100		314.0	Total/NA
Arsenic	34		0.20	0.10	ug/L	1		6020	Total Recoverable
Barium	33		0.20	0.10	ug/L	1		6020	Total Recoverable
Chromium	0.31	J	0.50	0.25	ug/L	1		6020	Total Recoverable
Lead	0.15		0.10	0.050	ug/L	1		6020	Total Recoverable
Selenium	8.4		0.60	0.30	ug/L	1		6020	Total Recoverable
Uranium	180		0.10	0.050	ug/L	1		6020	Total Recoverable
Mercury	0.00016	J	0.00020	0.00010	mg/L	1		7470A	Total/NA
Total Dissolved Solids	9200		100	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-4-20190412 — Lab Sample ID: 440-238734-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perchlorate	120		40	9.5	ug/L	10		314.0	Total/NA
Arsenic	66		0.20	0.10	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Irvine

Detection Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238734-1
SDG: Henderson, NV

Client Sample ID: MW-4-20190412 (Continued) — Lab Sample ID: 440-238734-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	24		0.20	0.10	ug/L	1		6020	Total Recoverable
Chromium	5.8		0.50	0.25	ug/L	1		6020	Total Recoverable
Lead	0.16		0.10	0.050	ug/L	1		6020	Total Recoverable
Selenium	11		0.60	0.30	ug/L	1		6020	Total Recoverable
Uranium	19		0.10	0.050	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	4000		100	50	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238734-1
SDG: Henderson, NV

Client Sample ID: MW-1-20190412

Lab Sample ID: 440-238734-1
Matrix: Water

Date Collected: 04/12/19 10:26
Date Received: 04/13/19 10:30

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/23/19 20:41	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**57**		0.20	0.10	ug/L		04/18/19 08:47	04/18/19 18:18	1
Barium	**22**		0.20	0.10	ug/L		04/18/19 08:47	04/18/19 18:18	1
Cadmium	ND		0.10	0.050	ug/L		04/18/19 08:47	04/18/19 18:18	1
Chromium	**11**		0.50	0.25	ug/L		04/18/19 08:47	04/18/19 18:18	1
Lead	**0.077**	**J**	0.10	0.050	ug/L		04/18/19 08:47	04/18/19 18:18	1
Selenium	**1.7**		0.60	0.30	ug/L		04/18/19 08:47	04/18/19 18:18	1
Silver	ND		0.20	0.10	ug/L		04/18/19 08:47	04/18/19 18:18	1
Uranium	**1.7**		0.10	0.050	ug/L		04/18/19 08:47	04/18/19 18:18	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/26/19 09:30	04/26/19 15:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**760**		10	5.0	mg/L			04/19/19 09:05	1

Client Sample ID: MW-2-20190412

Lab Sample ID: 440-238734-2
Matrix: Water

Date Collected: 04/12/19 08:48
Date Received: 04/13/19 10:30

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**1000**		400	95	ug/L			04/24/19 11:00	100

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**61**		0.20	0.10	ug/L		04/18/19 08:47	04/18/19 18:20	1
Barium	**45**		0.20	0.10	ug/L		04/18/19 08:47	04/18/19 18:20	1
Cadmium	ND		0.10	0.050	ug/L		04/18/19 08:47	04/18/19 18:20	1
Chromium	**0.71**		0.50	0.25	ug/L		04/18/19 08:47	04/18/19 18:20	1
Lead	**0.051**	**J**	0.10	0.050	ug/L		04/18/19 08:47	04/18/19 18:20	1
Selenium	**0.59**	**J**	0.60	0.30	ug/L		04/18/19 08:47	04/18/19 18:20	1
Silver	ND		0.20	0.10	ug/L		04/18/19 08:47	04/18/19 18:20	1
Uranium	**160**		0.10	0.050	ug/L		04/18/19 08:47	04/18/19 18:20	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/26/19 09:30	04/26/19 15:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**7600**		100	50	mg/L			04/19/19 09:05	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238734-1
SDG: Henderson, NV

Client Sample ID: MW-3-20190412

Lab Sample ID: 440-238734-3
Matrix: Water
Date Collected: 04/12/19 08:53
Date Received: 04/13/19 10:30

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	630		400	95	ug/L			04/23/19 21:42	100

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	34		0.20	0.10	ug/L		04/18/19 08:47	04/18/19 18:23	1
Barium	33		0.20	0.10	ug/L		04/18/19 08:47	04/18/19 18:23	1
Cadmium	ND		0.10	0.050	ug/L		04/18/19 08:47	04/18/19 18:23	1
Chromium	0.31	J	0.50	0.25	ug/L		04/18/19 08:47	04/18/19 18:23	1
Lead	0.15		0.10	0.050	ug/L		04/18/19 08:47	04/18/19 18:23	1
Selenium	8.4		0.60	0.30	ug/L		04/18/19 08:47	04/18/19 18:23	1
Silver	ND		0.20	0.10	ug/L		04/18/19 08:47	04/18/19 18:23	1
Uranium	180		0.10	0.050	ug/L		04/18/19 08:47	04/18/19 18:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J	0.00020	0.00010	mg/L		04/26/19 09:30	04/26/19 15:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	9200		100	50	mg/L			04/19/19 09:05	1

Client Sample ID: MW-4-20190412

Lab Sample ID: 440-238734-4
Matrix: Water
Date Collected: 04/12/19 10:23
Date Received: 04/13/19 10:30

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	120		40	9.5	ug/L			04/23/19 21:22	10

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	66		0.20	0.10	ug/L		04/18/19 08:47	04/18/19 18:25	1
Barium	24		0.20	0.10	ug/L		04/18/19 08:47	04/18/19 18:25	1
Cadmium	ND		0.10	0.050	ug/L		04/18/19 08:47	04/18/19 18:25	1
Chromium	5.8		0.50	0.25	ug/L		04/18/19 08:47	04/18/19 18:25	1
Lead	0.16		0.10	0.050	ug/L		04/18/19 08:47	04/18/19 18:25	1
Selenium	11		0.60	0.30	ug/L		04/18/19 08:47	04/18/19 18:25	1
Silver	ND		0.20	0.10	ug/L		04/18/19 08:47	04/18/19 18:25	1
Uranium	19		0.10	0.050	ug/L		04/18/19 08:47	04/18/19 18:25	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/26/19 09:30	04/26/19 15:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4000		100	50	mg/L			04/19/19 09:05	1

Method Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238734-1
SDG: Henderson, NV

Method	Method Description	Protocol	Laboratory
314.0	Perchlorate (IC)	EPA	TAL IRV
6020	Metals (ICP/MS)	SW846	TAL IRV
7470A	Mercury (CVAA)	SW846	TAL IRV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238734-1
SDG: Henderson, NV

Client Sample ID: MW-1-20190412
Lab Sample ID: 440-238734-1

Date Collected: 04/12/19 10:26
Date Received: 04/13/19 10:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	314.0		1			541940	04/23/19 20:41	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	541114	04/18/19 08:47	BV	TAL IRV
Total Recoverable	Analysis	6020		1			541304	04/18/19 18:18	P1R	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542335	04/26/19 09:30	KE	TAL IRV
Total/NA	Analysis	7470A		1			542977	04/26/19 15:45	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	541402	04/19/19 09:05	XL	TAL IRV

Client Sample ID: MW-2-20190412
Lab Sample ID: 440-238734-2

Date Collected: 04/12/19 08:48
Date Received: 04/13/19 10:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	314.0		100			541940	04/24/19 11:00	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	541114	04/18/19 08:47	BV	TAL IRV
Total Recoverable	Analysis	6020		1			541304	04/18/19 18:20	P1R	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542335	04/26/19 09:30	KE	TAL IRV
Total/NA	Analysis	7470A		1			542977	04/26/19 15:47	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	541402	04/19/19 09:05	XL	TAL IRV

Client Sample ID: MW-3-20190412
Lab Sample ID: 440-238734-3

Date Collected: 04/12/19 08:53
Date Received: 04/13/19 10:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	314.0		100			541940	04/23/19 21:42	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	541114	04/18/19 08:47	BV	TAL IRV
Total Recoverable	Analysis	6020		1			541304	04/18/19 18:23	P1R	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542335	04/26/19 09:30	KE	TAL IRV
Total/NA	Analysis	7470A		1			542977	04/26/19 15:49	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	541402	04/19/19 09:05	XL	TAL IRV

Client Sample ID: MW-4-20190412
Lab Sample ID: 440-238734-4

Date Collected: 04/12/19 10:23
Date Received: 04/13/19 10:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	314.0		10			541940	04/23/19 21:22	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	541114	04/18/19 08:47	BV	TAL IRV
Total Recoverable	Analysis	6020		1			541304	04/18/19 18:25	P1R	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542335	04/26/19 09:30	KE	TAL IRV
Total/NA	Analysis	7470A		1			542977	04/26/19 15:51	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	541402	04/19/19 09:05	XL	TAL IRV

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

QC Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238734-1
SDG: Henderson, NV

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 440-541940/7
Matrix: Water
Analysis Batch: 541940

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/23/19 10:22	1

Lab Sample ID: LCS 440-541940/6
Matrix: Water
Analysis Batch: 541940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	25.0	24.6		ug/L		98	85 - 115

Lab Sample ID: MRL 440-541940/5
Matrix: Water
Analysis Batch: 541940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	1.00	ND		ug/L		92	75 - 125

Lab Sample ID: 440-239111-E-2 MS
Matrix: Water
Analysis Batch: 541940

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	1.6	J	25.0	27.3		ug/L		103	80 - 120

Lab Sample ID: 440-239111-E-2 MSD
Matrix: Water
Analysis Batch: 541940

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	1.6	J	25.0	27.1		ug/L		102	80 - 120	1	15

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 440-541114/1-A
Matrix: Water
Analysis Batch: 541304

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 541114

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.10	ug/L		04/18/19 08:47	04/18/19 17:00	1
Barium	ND		0.20	0.10	ug/L		04/18/19 08:47	04/18/19 17:00	1
Cadmium	ND		0.10	0.050	ug/L		04/18/19 08:47	04/18/19 17:00	1
Chromium	ND		0.50	0.25	ug/L		04/18/19 08:47	04/18/19 17:00	1
Lead	ND		0.10	0.050	ug/L		04/18/19 08:47	04/18/19 17:00	1
Selenium	ND		0.60	0.30	ug/L		04/18/19 08:47	04/18/19 17:00	1
Silver	ND		0.20	0.10	ug/L		04/18/19 08:47	04/18/19 17:00	1
Uranium	ND		0.10	0.050	ug/L		04/18/19 08:47	04/18/19 17:00	1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 440-541114/2-A
Matrix: Water
Analysis Batch: 541304

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 541114

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	80.0	77.0		ug/L		96	80 - 120
Barium	80.0	78.3		ug/L		98	80 - 120
Cadmium	80.0	77.2		ug/L		96	80 - 120
Chromium	80.0	77.0		ug/L		96	80 - 120
Lead	80.0	76.8		ug/L		96	80 - 120
Selenium	80.0	79.4		ug/L		99	80 - 120
Silver	80.0	76.3		ug/L		95	80 - 120
Uranium	80.0	76.6		ug/L		96	80 - 120

Lab Sample ID: 440-238639-A-1-B MS
Matrix: Water
Analysis Batch: 541304

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 541114

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	68		80.0	142		ug/L		92	75 - 125
Barium	75		80.0	158		ug/L		104	75 - 125
Cadmium	0.13		80.0	76.7		ug/L		96	75 - 125
Chromium	0.84		80.0	77.8		ug/L		96	75 - 125
Lead	0.14		80.0	74.8		ug/L		93	75 - 125
Selenium	0.39	J	80.0	68.6		ug/L		85	75 - 125
Silver	0.13	J	80.0	75.8		ug/L		95	75 - 125
Uranium	0.18		80.0	77.4		ug/L		96	75 - 125

Lab Sample ID: 440-238639-A-1-C MSD
Matrix: Water
Analysis Batch: 541304

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 541114

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	68		80.0	140		ug/L		90	75 - 125	1	20
Barium	75		80.0	156		ug/L		101	75 - 125	1	20
Cadmium	0.13		80.0	75.6		ug/L		94	75 - 125	2	20
Chromium	0.84		80.0	76.5		ug/L		95	75 - 125	2	20
Lead	0.14		80.0	74.6		ug/L		93	75 - 125	0	20
Selenium	0.39	J	80.0	67.5		ug/L		84	75 - 125	2	20
Silver	0.13	J	80.0	74.4		ug/L		93	75 - 125	2	20
Uranium	0.18		80.0	77.8		ug/L		97	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 440-542335/1-A
Matrix: Water
Analysis Batch: 542977

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 542335

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/26/19 09:30	04/26/19 14:48	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 440-542335/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542977 — **Prep Batch: 542335**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00400	0.00457		mg/L		114	80 - 120		

Lab Sample ID: 440-238680-F-5-F MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542977 — **Prep Batch: 542335**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		0.00400	0.00471		mg/L		118	75 - 125		

Lab Sample ID: 440-238680-F-5-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542977 — **Prep Batch: 542335**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00400	0.00465		mg/L		116	75 - 125	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 440-541402/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541402

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			04/19/19 09:05	1

Lab Sample ID: LCS 440-541402/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541402

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	1010		mg/L		101	90 - 110		

Lab Sample ID: 440-238734-1 DU — **Client Sample ID: MW-1-20190412**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541402

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	760			741		mg/L				2	5

QC Association Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238734-1
SDG: Henderson, NV

HPLC/IC

Analysis Batch: 541940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238734-1	MW-1-20190412	Total/NA	Water	314.0	
440-238734-2	MW-2-20190412	Total/NA	Water	314.0	
440-238734-3	MW-3-20190412	Total/NA	Water	314.0	
440-238734-4	MW-4-20190412	Total/NA	Water	314.0	
MB 440-541940/7	Method Blank	Total/NA	Water	314.0	
LCS 440-541940/6	Lab Control Sample	Total/NA	Water	314.0	
MRL 440-541940/5	Lab Control Sample	Total/NA	Water	314.0	
440-239111-E-2 MS	Matrix Spike	Total/NA	Water	314.0	
440-239111-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0	

Metals

Prep Batch: 541114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238734-1	MW-1-20190412	Total Recoverable	Water	3005A	
440-238734-2	MW-2-20190412	Total Recoverable	Water	3005A	
440-238734-3	MW-3-20190412	Total Recoverable	Water	3005A	
440-238734-4	MW-4-20190412	Total Recoverable	Water	3005A	
MB 440-541114/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-541114/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-238639-A-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
440-238639-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 541304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238734-1	MW-1-20190412	Total Recoverable	Water	6020	541114
440-238734-2	MW-2-20190412	Total Recoverable	Water	6020	541114
440-238734-3	MW-3-20190412	Total Recoverable	Water	6020	541114
440-238734-4	MW-4-20190412	Total Recoverable	Water	6020	541114
MB 440-541114/1-A	Method Blank	Total Recoverable	Water	6020	541114
LCS 440-541114/2-A	Lab Control Sample	Total Recoverable	Water	6020	541114
440-238639-A-1-B MS	Matrix Spike	Total Recoverable	Water	6020	541114
440-238639-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020	541114

Prep Batch: 542335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238734-1	MW-1-20190412	Total/NA	Water	7470A	
440-238734-2	MW-2-20190412	Total/NA	Water	7470A	
440-238734-3	MW-3-20190412	Total/NA	Water	7470A	
440-238734-4	MW-4-20190412	Total/NA	Water	7470A	
MB 440-542335/1-A	Method Blank	Total/NA	Water	7470A	
LCS 440-542335/2-A	Lab Control Sample	Total/NA	Water	7470A	
440-238680-F-5-F MS	Matrix Spike	Total/NA	Water	7470A	
440-238680-F-5-G MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 542977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238734-1	MW-1-20190412	Total/NA	Water	7470A	542335
440-238734-2	MW-2-20190412	Total/NA	Water	7470A	542335
440-238734-3	MW-3-20190412	Total/NA	Water	7470A	542335
440-238734-4	MW-4-20190412	Total/NA	Water	7470A	542335

QC Association Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238734-1
SDG: Henderson, NV

Metals (Continued)

Analysis Batch: 542977 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-542335/1-A	Method Blank	Total/NA	Water	7470A	542335
LCS 440-542335/2-A	Lab Control Sample	Total/NA	Water	7470A	542335
440-238680-F-5-F MS	Matrix Spike	Total/NA	Water	7470A	542335
440-238680-F-5-G MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	542335

General Chemistry

Analysis Batch: 541402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238734-1	MW-1-20190412	Total/NA	Water	SM 2540C	
440-238734-2	MW-2-20190412	Total/NA	Water	SM 2540C	
440-238734-3	MW-3-20190412	Total/NA	Water	SM 2540C	
440-238734-4	MW-4-20190412	Total/NA	Water	SM 2540C	
MB 440-541402/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-541402/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-238734-1 DU	MW-1-20190412	Total/NA	Water	SM 2540C	

Definitions/Glossary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238734-1
SDG: Henderson, NV

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238734-1
SDG: Henderson, NV

Laboratory: Eurofins TestAmerica, Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Nevada	State Program	9	CA015312018-1	07-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone 949.261.1022 fax 949.260.3299

TestAmerica
Las Vegas
219

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Nicole Bradley, Dean Charles	Site Contact: Kevin Paprocki	Date: 4/12/19	COC No:
de maximis, Inc.	Tel/Fax: 619-546-8377	Lab Contact: Danielle Roberts	Carrier:	____ of ____ COCs
1322 Scott St., Suite 101	Analysis Turnaround Time			Job No. 3200C
San Diego, CA 92106	Calendar (C) or Work Days (W)___ W___			SDG No.
(619) 546-8377 Phone	TAT if different from Below_____			
(619) 546-9980 Fax	☒ 2 weeks			
Project Name: 3200C Henderson Sitewide	☐ 1 week			
Site: Henderson, NV	☐ 2 days			
PO#	☐ 1 day			

Sample Identification	Container Type	Sample Date	Sample Time	Preservation Type	Matrix	# of Containers	RCRA 8 Metals + Uranium - 7470A & 6020	TDS – SM2540C	Perchlorate 314	VOC concentration > 500 ppb	MS/MSD REQUIRED	LEVEL 2A REQUIRED	Sample Specific Notes:
MW-1-20190412	Various	4/12/19	1026	4°C	AQ	3	X	X	X	X		X	
MW-2-20190412	Various	4/12/19	0848	4°C	AQ	3	X	X	X	X		X	
MW-3-20190412	Various	4/12/19	0853	4°C	AQ	3	X	X	X	X		X	
MW-4-20190412	Various	4/12/19	1023	4°C	AQ	3	X	X	X	X		X	

440-238734 Chain of Custody

4/13/19

[1] I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature:_____ Date_____

Preservation Used: 1= Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other_____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return to Client* ☐ Disposal by Lab Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Sample Int (circle one)
Intact: Y / N on ice. Y / N
temperature:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Converse	4/12/19 1305	[signature]	TALVS	4-12-19 1310
[signature]	TALVS	4/12/19 1600	Fedex	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by: Olga Cinelas	Company: TAIRV	Date/Time: 4/13/19 1030

1.4/1.8 IR-93 CLS. TALVS IR 96 2.9 / 3.2

TH: 4766 5687 0591

Login Sample Receipt Checklist

Client: de maximis, inc.

Job Number: 440-238734-2
SDG Number: Henderson, NV

Login Number: 238734
List Number: 1
Creator: Bonta, Lucia F

List Source: Eurofins TestAmerica, Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

Laboratory Job ID: 440-238791-1
Laboratory Sample Delivery Group: Henderson, NV
Client Project/Site: Montrose Wells

For:
Montrose Chemical Company
731 Pilot Road, Suite H
Las Vegas, Nevada 89119

Attn: Ed Modiano

Authorized for release by:
5/15/2019 1:02:33 PM

Danielle Roberts, Senior Project Manager
(949)260-3249
danielle.roberts@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 19
Method Summary 21
Lab Chronicle 22
QC Sample Results 24
QC Association Summary 41
Definitions/Glossary 43
Certification Summary 44
Chain of Custody 45
Receipt Checklists 46

Sample Summary

Client: Montrose Chemical Company
Project/Site: Montrose Wells

Job ID: 440-238791-1
SDG: Henderson, NV

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-238791-1	MW-1-201090412	Water	04/12/19 10:26	04/13/19 10:30
440-238791-2	MW-2-20190412	Water	04/12/19 08:48	04/13/19 10:30
440-238791-3	MW-3-20190412	Water	04/12/19 08:53	04/13/19 10:30
440-238791-4	MW-4-20190412	Water	04/12/19 10:23	04/13/19 10:30
440-238791-5	TB-20190412	Water	04/12/19 06:40	04/13/19 10:30
440-238791-6	PL-509-20190412	Water	04/12/19 10:30	04/13/19 10:30

Job ID: 440-238791-1

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative
440-238791-1

Comments
No additional comments.

Receipt
The samples were received on 4/13/2019 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2º C.

Receipt Exceptions

The following sample(s) was received with headspace in the sample container. This sample container was received with headspace. TB-20190412 (440-238791-5). Received one out of three voa vials TB with headspace more than 6 mm. Two remain.

GC/MS VOA
Method(s) 8260: Dilution error corrected for MW-2-20190412 (440-238791-2), 5/15/2019.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270C: The following sample was diluted due to the abundance of non-target analytes: MW-3-20190412 (440-238791-3). Elevated reporting limits (RLs) are provided.

Method(s) 8270C: The following sample required a dilution due to the nature of the sample matrix: MW-3-20190412 (440-238791-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-541200. Method 8270-REG. LCS was performed in duplicate to provide precision of data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Montrose Chemical Company
Project/Site: Montrose Wells

Job ID: 440-238791-1
SDG: Henderson, NV

Client Sample ID: MW-1-201090412 — Lab Sample ID: 440-238791-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	3.3		2.0	0.25	ug/L	1		8260B	Total/NA

Client Sample ID: MW-2-20190412 — Lab Sample ID: 440-238791-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	46	J	200	25	ug/L	100		8260B	Total/NA
1,4-Dichlorobenzene	69	J	200	25	ug/L	100		8260B	Total/NA
Benzene	1300		200	25	ug/L	100		8260B	Total/NA
Carbon tetrachloride	97	J	100	25	ug/L	100		8260B	Total/NA
Chlorobenzene	1600		200	25	ug/L	100		8260B	Total/NA
Chloroform - DL	94000		20000	2500	ug/L	10000		8260B	Total/NA
alpha-BHC	0.029		0.0049	0.0025	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.0047	J	0.098	0.0029	ug/L	1		8081A	Total/NA

Client Sample ID: MW-3-20190412 — Lab Sample ID: 440-238791-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	58	J	500	40	ug/L	100		8260B	Total/NA
1,3-Dichlorobenzene	750		200	25	ug/L	100		8260B	Total/NA
Benzene	400		200	25	ug/L	100		8260B	Total/NA
Methylene Chloride	120	J	200	110	ug/L	100		8260B	Total/NA
1,2-Dichlorobenzene - DL	18000		4000	500	ug/L	2000		8260B	Total/NA
1,4-Dichlorobenzene - DL	16000		4000	500	ug/L	2000		8260B	Total/NA
Chlorobenzene - DL	12000		4000	500	ug/L	2000		8260B	Total/NA
Chloroform - DL	25000		4000	500	ug/L	2000		8260B	Total/NA
alpha-BHC	0.22		0.0049	0.0024	ug/L	1		8081A	Total/NA
beta-BHC	0.23		0.0097	0.0039	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.14	p	0.097	0.0029	ug/L	1		8081A	Total/NA

Client Sample ID: MW-4-20190412 — Lab Sample ID: 440-238791-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	4.4		4.0	0.50	ug/L	2		8260B	Total/NA
1,4-Dichlorobenzene	4.0		4.0	0.50	ug/L	2		8260B	Total/NA
Carbon tetrachloride	0.93	J	2.0	0.50	ug/L	2		8260B	Total/NA
Chlorobenzene	2.2	J	4.0	0.50	ug/L	2		8260B	Total/NA
Chloroform - DL	520		200	25	ug/L	100		8260B	Total/NA
alpha-BHC	0.0030	J	0.0051	0.0025	ug/L	1		8081A	Total/NA

Client Sample ID: TB-20190412 — Lab Sample ID: 440-238791-5

No Detections.

Client Sample ID: PL-509-20190412 — Lab Sample ID: 440-238791-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Montrose Chemical Company
Project/Site: Montrose Wells

Job ID: 440-238791-1
SDG: Henderson, NV

Client Sample ID: MW-1-201090412

Date Collected: 04/12/19 10:26
Date Received: 04/13/19 10:30

Lab Sample ID: 440-238791-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/26/19 11:24	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 11:24	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/26/19 11:24	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 11:24	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 11:24	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/26/19 11:24	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 11:24	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 11:24	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/26/19 11:24	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 11:24	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 11:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/26/19 11:24	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/26/19 11:24	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 11:24	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 11:24	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 11:24	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 11:24	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 11:24	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 11:24	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 11:24	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/26/19 11:24	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 11:24	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 11:24	1
Benzene	ND		2.0	0.25	ug/L			04/26/19 11:24	1
Bromobenzene	ND		5.0	0.25	ug/L			04/26/19 11:24	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/26/19 11:24	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/26/19 11:24	1
Bromoform	ND		5.0	0.40	ug/L			04/26/19 11:24	1
Bromomethane	ND		5.0	0.25	ug/L			04/26/19 11:24	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/26/19 11:24	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/26/19 11:24	1
Chloroethane	ND		5.0	0.40	ug/L			04/26/19 11:24	1
Chloroform	**3.3**		2.0	0.25	ug/L			04/25/19 20:58	1
Chloromethane	ND		5.0	0.25	ug/L			04/26/19 11:24	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 11:24	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 11:24	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/26/19 11:24	1
Dibromomethane	ND		2.0	0.25	ug/L			04/26/19 11:24	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/26/19 11:24	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/26/19 11:24	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/26/19 11:24	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/26/19 11:24	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/26/19 11:24	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/26/19 11:24	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/26/19 11:24	1
Naphthalene	ND		5.0	0.40	ug/L			04/26/19 11:24	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/26/19 11:24	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/26/19 11:24	1
o-Xylene	ND		2.0	0.25	ug/L			04/26/19 11:24	1

Client Sample ID: MW-1-201090412

Date Collected: 04/12/19 10:26
Date Received: 04/13/19 10:30

Lab Sample ID: 440-238791-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/26/19 11:24	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 11:24	1
Styrene	ND		2.0	0.25	ug/L			04/26/19 11:24	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 11:24	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/26/19 11:24	1
Toluene	ND		2.0	0.25	ug/L			04/26/19 11:24	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 11:24	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 11:24	1
Trichloroethene	ND		2.0	0.25	ug/L			04/26/19 11:24	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/26/19 11:24	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/26/19 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*04/25/19 20:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*04/26/19 11:24*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/25/19 20:58*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*04/26/19 11:24*	*1*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*04/25/19 20:58*	*1*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*04/26/19 11:24*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*04/25/19 20:58*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*04/26/19 11:24*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-Dichlorobenzil & 4,4'-Dichlorobenzil	ND		9.8	4.4	ug/L		04/18/19 12:42	04/20/19 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*97*		*40 - 120*	*04/18/19 12:42*	*04/20/19 17:31*	*1*
2-Fluorobiphenyl	*85*		*50 - 120*	*04/18/19 12:42*	*04/20/19 17:31*	*1*
2-Fluorophenol (Surr)	*83*		*30 - 120*	*04/18/19 12:42*	*04/20/19 17:31*	*1*
Nitrobenzene-d5 (Surr)	*83*		*45 - 120*	*04/18/19 12:42*	*04/20/19 17:31*	*1*
Phenol-d6 (Surr)	*83*		*35 - 120*	*04/18/19 12:42*	*04/20/19 17:31*	*1*
Terphenyl-d14 (Surr)	*101*		*10 - 150*	*04/18/19 12:42*	*04/20/19 17:31*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.0048	0.0014	ug/L		04/15/19 10:40	04/16/19 17:57	1
alpha-BHC	ND		0.0048	0.0024	ug/L		04/15/19 10:40	04/16/19 17:57	1
beta-BHC	ND		0.0096	0.0038	ug/L		04/15/19 10:40	04/16/19 17:57	1
Chlordane	ND		0.096	0.077	ug/L		04/15/19 10:40	04/16/19 17:57	1
2,4'-DDD	ND		0.096	0.019	ug/L		04/15/19 10:40	04/16/19 17:57	1
4,4'-DDD	ND		0.096	0.0038	ug/L		04/15/19 10:40	04/16/19 17:57	1
2,4'-DDE	ND		0.096	0.019	ug/L		04/15/19 10:40	04/16/19 17:57	1
4,4'-DDE	ND		0.096	0.0029	ug/L		04/15/19 10:40	04/16/19 17:57	1
2,4'-DDT	ND		0.096	0.019	ug/L		04/15/19 10:40	04/16/19 17:57	1
4,4'-DDT	ND		0.096	0.0038	ug/L		04/15/19 10:40	04/16/19 17:57	1
delta-BHC	ND		0.19	0.0034	ug/L		04/15/19 10:40	04/16/19 17:57	1
Dieldrin	ND		0.0048	0.0019	ug/L		04/15/19 10:40	04/16/19 17:57	1
Endosulfan I	ND		0.096	0.0029	ug/L		04/15/19 10:40	04/16/19 17:57	1
Endosulfan II	ND		0.096	0.0019	ug/L		04/15/19 10:40	04/16/19 17:57	1

Client Sample ID: MW-1-201090412

Lab Sample ID: 440-238791-1
Matrix: Water
Date Collected: 04/12/19 10:26
Date Received: 04/13/19 10:30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		0.19	0.0029	ug/L		04/15/19 10:40	04/16/19 17:57	1
Endrin	ND		0.096	0.0019	ug/L		04/15/19 10:40	04/16/19 17:57	1
Endrin aldehyde	ND		0.096	0.0019	ug/L		04/15/19 10:40	04/16/19 17:57	1
Endrin ketone	ND		0.096	0.0067	ug/L		04/15/19 10:40	04/16/19 17:57	1
gamma-BHC (Lindane)	ND		0.096	0.0029	ug/L		04/15/19 10:40	04/16/19 17:57	1
Heptachlor	ND		0.0096	0.0029	ug/L		04/15/19 10:40	04/16/19 17:57	1
Heptachlor epoxide	ND		0.0048	0.0024	ug/L		04/15/19 10:40	04/16/19 17:57	1
Methoxychlor	ND		0.096	0.0034	ug/L		04/15/19 10:40	04/16/19 17:57	1
Toxaphene	ND		4.8	0.24	ug/L		04/15/19 10:40	04/16/19 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*28 - 108*	*04/15/19 10:40*	*04/16/19 17:57*	*1*
Tetrachloro-m-xylene	*48*		*10 - 123*	*04/15/19 10:40*	*04/16/19 17:57*	*1*

Client Sample ID: MW-2-20190412

Lab Sample ID: 440-238791-2
Matrix: Water
Date Collected: 04/12/19 08:48
Date Received: 04/13/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		500	25	ug/L			04/26/19 04:58	100
1,1,1-Trichloroethane	ND		200	25	ug/L			04/26/19 04:58	100
1,1,2,2-Tetrachloroethane	ND		200	25	ug/L			04/26/19 04:58	100
1,1,2-Trichloroethane	ND		200	25	ug/L			04/26/19 04:58	100
1,1-Dichloroethane	ND		200	25	ug/L			04/26/19 04:58	100
1,1-Dichloroethene	ND		500	25	ug/L			04/26/19 04:58	100
1,1-Dichloropropene	ND		200	25	ug/L			04/26/19 04:58	100
1,2,3-Trichlorobenzene	ND		500	40	ug/L			04/26/19 04:58	100
1,2,3-Trichloropropane	ND		1000	25	ug/L			04/26/19 04:58	100
1,2,4-Trichlorobenzene	ND		500	40	ug/L			04/26/19 04:58	100
1,2,4-Trimethylbenzene	ND		200	25	ug/L			04/26/19 04:58	100
1,2-Dibromo-3-Chloropropane	ND		500	50	ug/L			04/26/19 04:58	100
1,2-Dibromoethane (EDB)	ND		200	25	ug/L			04/26/19 04:58	100
1,2-Dichlorobenzene	**46**	**J**	200	25	ug/L			04/26/19 04:58	100
1,2-Dichloroethane	ND		200	25	ug/L			04/26/19 04:58	100
1,2-Dichloropropane	ND		200	25	ug/L			04/26/19 04:58	100
1,3,5-Trimethylbenzene	ND		200	25	ug/L			04/26/19 04:58	100
1,3-Dichlorobenzene	ND		200	25	ug/L			04/26/19 04:58	100
1,3-Dichloropropane	ND		200	25	ug/L			04/26/19 04:58	100
1,4-Dichlorobenzene	**69**	**J**	200	25	ug/L			04/26/19 04:58	100
2,2-Dichloropropane	ND		200	40	ug/L			04/26/19 04:58	100
2-Chlorotoluene	ND		500	25	ug/L			04/26/19 04:58	100
4-Chlorotoluene	ND		500	25	ug/L			04/26/19 04:58	100
Benzene	**1300**		200	25	ug/L			04/26/19 04:58	100
Bromobenzene	ND		500	25	ug/L			04/26/19 04:58	100
Bromochloromethane	ND		500	25	ug/L			04/26/19 04:58	100
Bromodichloromethane	ND		200	25	ug/L			04/26/19 04:58	100
Bromoform	ND		500	40	ug/L			04/26/19 04:58	100
Bromomethane	ND		500	25	ug/L			04/26/19 04:58	100
Carbon tetrachloride	**97**	**J**	100	25	ug/L			04/26/19 04:58	100

Client Sample Results

Client: Montrose Chemical Company
Project/Site: Montrose Wells

Job ID: 440-238791-1
SDG: Henderson, NV

Client Sample ID: MW-2-20190412

Date Collected: 04/12/19 08:48
Date Received: 04/13/19 10:30

Lab Sample ID: 440-238791-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**1600**		200	25	ug/L			04/26/19 04:58	100
Chloroethane	ND		500	40	ug/L			04/26/19 04:58	100
Chloromethane	ND		500	25	ug/L			04/26/19 04:58	100
cis-1,2-Dichloroethene	ND		200	25	ug/L			04/26/19 04:58	100
cis-1,3-Dichloropropene	ND		200	25	ug/L			04/26/19 04:58	100
Dibromochloromethane	ND		200	25	ug/L			04/26/19 04:58	100
Dibromomethane	ND		200	25	ug/L			04/26/19 04:58	100
Dichlorodifluoromethane	ND		500	25	ug/L			04/26/19 04:58	100
Dimethyl disulfide	ND		200	100	ug/L			04/26/19 04:58	100
Ethylbenzene	ND		200	25	ug/L			04/26/19 04:58	100
Hexachlorobutadiene	ND		500	25	ug/L			04/26/19 04:58	100
Isopropylbenzene	ND		200	25	ug/L			04/26/19 04:58	100
m,p-Xylene	ND		200	50	ug/L			04/26/19 04:58	100
Methylene Chloride	ND		200	110	ug/L			04/26/19 04:58	100
Naphthalene	ND		500	40	ug/L			04/26/19 04:58	100
n-Butylbenzene	ND		500	40	ug/L			04/26/19 04:58	100
N-Propylbenzene	ND		200	25	ug/L			04/26/19 04:58	100
o-Xylene	ND		200	25	ug/L			04/26/19 04:58	100
p-Isopropyltoluene	ND		200	25	ug/L			04/26/19 04:58	100
sec-Butylbenzene	ND		500	25	ug/L			04/26/19 04:58	100
Styrene	ND		200	25	ug/L			04/26/19 04:58	100
tert-Butylbenzene	ND		500	25	ug/L			04/26/19 04:58	100
Tetrachloroethene	ND		200	25	ug/L			04/26/19 04:58	100
Toluene	ND		200	25	ug/L			04/26/19 04:58	100
trans-1,2-Dichloroethene	ND		200	25	ug/L			04/26/19 04:58	100
trans-1,3-Dichloropropene	ND		200	25	ug/L			04/26/19 04:58	100
Trichloroethene	ND		200	25	ug/L			04/26/19 04:58	100
Trichlorofluoromethane	ND		500	25	ug/L			04/26/19 04:58	100
Vinyl chloride	ND		500	25	ug/L			04/26/19 04:58	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*04/26/19 04:58*	*100*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*04/26/19 04:58*	*100*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*04/26/19 04:58*	*100*
Toluene-d8 (Surr)	*104*		*80 - 128*		*04/26/19 04:58*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	**94000**		20000	2500	ug/L			04/26/19 05:25	10000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*04/26/19 05:25*	*10000*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*04/26/19 05:25*	*10000*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*04/26/19 05:25*	*10000*
Toluene-d8 (Surr)	*103*		*80 - 128*		*04/26/19 05:25*	*10000*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-Dichlorobenzil & 4,4'-Dichlorobenzil	ND		9.9	4.4	ug/L		04/18/19 12:42	04/20/19 17:56	1

Client Sample ID: MW-2-20190412

Lab Sample ID: 440-238791-2

Date Collected: 04/12/19 08:48
Matrix: Water
Date Received: 04/13/19 10:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	107		40 - 120	04/18/19 12:42	04/20/19 17:56	1
2-Fluorobiphenyl	85		50 - 120	04/18/19 12:42	04/20/19 17:56	1
2-Fluorophenol (Surr)	82		30 - 120	04/18/19 12:42	04/20/19 17:56	1
Nitrobenzene-d5 (Surr)	83		45 - 120	04/18/19 12:42	04/20/19 17:56	1
Phenol-d6 (Surr)	80		35 - 120	04/18/19 12:42	04/20/19 17:56	1
Terphenyl-d14 (Surr)	89		10 - 150	04/18/19 12:42	04/20/19 17:56	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.0049	0.0015	ug/L		04/15/19 10:40	04/16/19 18:23	1
alpha-BHC	**0.029**		0.0049	0.0025	ug/L		04/15/19 10:40	04/16/19 18:23	1
beta-BHC	ND		0.0098	0.0039	ug/L		04/15/19 10:40	04/16/19 18:23	1
Chlordane	ND		0.098	0.078	ug/L		04/15/19 10:40	04/16/19 18:23	1
2,4'-DDD	ND		0.098	0.020	ug/L		04/15/19 10:40	04/16/19 18:23	1
4,4'-DDD	ND		0.098	0.0039	ug/L		04/15/19 10:40	04/16/19 18:23	1
2,4'-DDE	ND		0.098	0.020	ug/L		04/15/19 10:40	04/16/19 18:23	1
4,4'-DDE	ND		0.098	0.0029	ug/L		04/15/19 10:40	04/16/19 18:23	1
2,4'-DDT	ND		0.098	0.020	ug/L		04/15/19 10:40	04/16/19 18:23	1
4,4'-DDT	ND		0.098	0.0039	ug/L		04/15/19 10:40	04/16/19 18:23	1
delta-BHC	ND		0.20	0.0034	ug/L		04/15/19 10:40	04/16/19 18:23	1
Dieldrin	ND		0.0049	0.0020	ug/L		04/15/19 10:40	04/16/19 18:23	1
Endosulfan I	ND		0.098	0.0029	ug/L		04/15/19 10:40	04/16/19 18:23	1
Endosulfan II	ND		0.098	0.0020	ug/L		04/15/19 10:40	04/16/19 18:23	1
Endosulfan sulfate	ND		0.20	0.0029	ug/L		04/15/19 10:40	04/16/19 18:23	1
Endrin	ND		0.098	0.0020	ug/L		04/15/19 10:40	04/16/19 18:23	1
Endrin aldehyde	ND		0.098	0.0020	ug/L		04/15/19 10:40	04/16/19 18:23	1
Endrin ketone	ND		0.098	0.0069	ug/L		04/15/19 10:40	04/16/19 18:23	1
gamma-BHC (Lindane)	**0.0047**	**J**	0.098	0.0029	ug/L		04/15/19 10:40	04/16/19 18:23	1
Heptachlor	ND		0.0098	0.0029	ug/L		04/15/19 10:40	04/16/19 18:23	1
Heptachlor epoxide	ND		0.0049	0.0025	ug/L		04/15/19 10:40	04/16/19 18:23	1
Methoxychlor	ND		0.098	0.0034	ug/L		04/15/19 10:40	04/16/19 18:23	1
Toxaphene	ND		4.9	0.25	ug/L		04/15/19 10:40	04/16/19 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	65		28 - 108	04/15/19 10:40	04/16/19 18:23	1
Tetrachloro-m-xylene	50		10 - 123	04/15/19 10:40	04/16/19 18:23	1

Client Sample ID: MW-3-20190412

Lab Sample ID: 440-238791-3

Date Collected: 04/12/19 08:53
Matrix: Water
Date Received: 04/13/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		500	25	ug/L			04/26/19 05:51	100
1,1,1-Trichloroethane	ND		200	25	ug/L			04/26/19 05:51	100
1,1,2,2-Tetrachloroethane	ND		200	25	ug/L			04/26/19 05:51	100
1,1,2-Trichloroethane	ND		200	25	ug/L			04/26/19 05:51	100
1,1-Dichloroethane	ND		200	25	ug/L			04/26/19 05:51	100
1,1-Dichloroethene	ND		500	25	ug/L			04/26/19 05:51	100
1,1-Dichloropropene	ND		200	25	ug/L			04/26/19 05:51	100
1,2,3-Trichlorobenzene	ND		500	40	ug/L			04/26/19 05:51	100

Client Sample Results

Client: Montrose Chemical Company
Project/Site: Montrose Wells

Job ID: 440-238791-1
SDG: Henderson, NV

Client Sample ID: MW-3-20190412

Date Collected: 04/12/19 08:53
Date Received: 04/13/19 10:30

Lab Sample ID: 440-238791-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1000	25	ug/L			04/26/19 05:51	100
1,2,4-Trichlorobenzene	**58**	**J**	500	40	ug/L			04/26/19 05:51	100
1,2,4-Trimethylbenzene	ND		200	25	ug/L			04/26/19 05:51	100
1,2-Dibromo-3-Chloropropane	ND		500	50	ug/L			04/26/19 05:51	100
1,2-Dibromoethane (EDB)	ND		200	25	ug/L			04/26/19 05:51	100
1,2-Dichloroethane	ND		200	25	ug/L			04/26/19 05:51	100
1,2-Dichloropropane	ND		200	25	ug/L			04/26/19 05:51	100
1,3,5-Trimethylbenzene	ND		200	25	ug/L			04/26/19 05:51	100
1,3-Dichlorobenzene	**750**		200	25	ug/L			04/26/19 05:51	100
1,3-Dichloropropane	ND		200	25	ug/L			04/26/19 05:51	100
2,2-Dichloropropane	ND		200	40	ug/L			04/26/19 05:51	100
2-Chlorotoluene	ND		500	25	ug/L			04/26/19 05:51	100
4-Chlorotoluene	ND		500	25	ug/L			04/26/19 05:51	100
Benzene	**400**		200	25	ug/L			04/26/19 05:51	100
Bromobenzene	ND		500	25	ug/L			04/26/19 05:51	100
Bromochloromethane	ND		500	25	ug/L			04/26/19 05:51	100
Bromodichloromethane	ND		200	25	ug/L			04/26/19 05:51	100
Bromoform	ND		500	40	ug/L			04/26/19 05:51	100
Bromomethane	ND		500	25	ug/L			04/26/19 05:51	100
Carbon tetrachloride	ND		100	25	ug/L			04/26/19 05:51	100
Chloroethane	ND		500	40	ug/L			04/26/19 05:51	100
Chloromethane	ND		500	25	ug/L			04/26/19 05:51	100
cis-1,2-Dichloroethene	ND		200	25	ug/L			04/26/19 05:51	100
cis-1,3-Dichloropropene	ND		200	25	ug/L			04/26/19 05:51	100
Dibromochloromethane	ND		200	25	ug/L			04/26/19 05:51	100
Dibromomethane	ND		200	25	ug/L			04/26/19 05:51	100
Dichlorodifluoromethane	ND		500	25	ug/L			04/26/19 05:51	100
Dimethyl disulfide	ND		200	100	ug/L			04/26/19 05:51	100
Ethylbenzene	ND		200	25	ug/L			04/26/19 05:51	100
Hexachlorobutadiene	ND		500	25	ug/L			04/26/19 05:51	100
Isopropylbenzene	ND		200	25	ug/L			04/26/19 05:51	100
m,p-Xylene	ND		200	50	ug/L			04/26/19 05:51	100
Methylene Chloride	**120**	**J**	200	110	ug/L			04/26/19 05:51	100
Naphthalene	ND		500	40	ug/L			04/26/19 05:51	100
n-Butylbenzene	ND		500	40	ug/L			04/26/19 05:51	100
N-Propylbenzene	ND		200	25	ug/L			04/26/19 05:51	100
o-Xylene	ND		200	25	ug/L			04/26/19 05:51	100
p-Isopropyltoluene	ND		200	25	ug/L			04/26/19 05:51	100
sec-Butylbenzene	ND		500	25	ug/L			04/26/19 05:51	100
Styrene	ND		200	25	ug/L			04/26/19 05:51	100
tert-Butylbenzene	ND		500	25	ug/L			04/26/19 05:51	100
Tetrachloroethene	ND		200	25	ug/L			04/26/19 05:51	100
Toluene	ND		200	25	ug/L			04/26/19 05:51	100
trans-1,2-Dichloroethene	ND		200	25	ug/L			04/26/19 05:51	100
trans-1,3-Dichloropropene	ND		200	25	ug/L			04/26/19 05:51	100
Trichloroethene	ND		200	25	ug/L			04/26/19 05:51	100
Trichlorofluoromethane	ND		500	25	ug/L			04/26/19 05:51	100
Vinyl chloride	ND		500	25	ug/L			04/26/19 05:51	100

Client Sample ID: MW-3-20190412

Date Collected: 04/12/19 08:53
Date Received: 04/13/19 10:30

Lab Sample ID: 440-238791-3

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*04/26/19 05:51*	*100*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*04/26/19 05:51*	*100*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*04/26/19 05:51*	*100*
Toluene-d8 (Surr)	*102*		*80 - 128*		*04/26/19 05:51*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	**18000**		4000	500	ug/L			04/26/19 06:18	2000
1,4-Dichlorobenzene	**16000**		4000	500	ug/L			04/26/19 06:18	2000
Chlorobenzene	**12000**		4000	500	ug/L			04/26/19 06:18	2000
Chloroform	**25000**		4000	500	ug/L			04/26/19 06:18	2000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*04/26/19 06:18*	*2000*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*04/26/19 06:18*	*2000*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*04/26/19 06:18*	*2000*
Toluene-d8 (Surr)	*103*		*80 - 128*		*04/26/19 06:18*	*2000*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-Dichlorobenzil & 4,4'-Dichlorobenzil	ND		100	45	ug/L		04/18/19 12:42	04/20/19 18:22	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*85*		*40 - 120*	*04/18/19 12:42*	*04/20/19 18:22*	*10*
2-Fluorobiphenyl	*82*		*50 - 120*	*04/18/19 12:42*	*04/20/19 18:22*	*10*
2-Fluorophenol (Surr)	*64*		*30 - 120*	*04/18/19 12:42*	*04/20/19 18:22*	*10*
Nitrobenzene-d5 (Surr)	*77*		*45 - 120*	*04/18/19 12:42*	*04/20/19 18:22*	*10*
Phenol-d6 (Surr)	*65*		*35 - 120*	*04/18/19 12:42*	*04/20/19 18:22*	*10*
Terphenyl-d14 (Surr)	*84*		*10 - 150*	*04/18/19 12:42*	*04/20/19 18:22*	*10*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.0049	0.0015	ug/L		04/15/19 10:40	04/16/19 18:49	1
alpha-BHC	**0.22**		0.0049	0.0024	ug/L		04/15/19 10:40	04/16/19 18:49	1
beta-BHC	**0.23**		0.0097	0.0039	ug/L		04/15/19 10:40	04/16/19 18:49	1
Chlordane	ND		0.097	0.078	ug/L		04/15/19 10:40	04/16/19 18:49	1
2,4'-DDD	ND		0.097	0.019	ug/L		04/15/19 10:40	04/16/19 18:49	1
4,4'-DDD	ND		0.097	0.0039	ug/L		04/15/19 10:40	04/16/19 18:49	1
2,4'-DDE	ND		0.097	0.019	ug/L		04/15/19 10:40	04/16/19 18:49	1
4,4'-DDE	ND		0.097	0.0029	ug/L		04/15/19 10:40	04/16/19 18:49	1
2,4'-DDT	ND		0.097	0.019	ug/L		04/15/19 10:40	04/16/19 18:49	1
4,4'-DDT	ND		0.097	0.0039	ug/L		04/15/19 10:40	04/16/19 18:49	1
delta-BHC	ND		0.19	0.0034	ug/L		04/15/19 10:40	04/16/19 18:49	1
Dieldrin	ND		0.0049	0.0019	ug/L		04/15/19 10:40	04/16/19 18:49	1
Endosulfan I	ND		0.097	0.0029	ug/L		04/15/19 10:40	04/16/19 18:49	1
Endosulfan II	ND		0.097	0.0019	ug/L		04/15/19 10:40	04/16/19 18:49	1
Endosulfan sulfate	ND		0.19	0.0029	ug/L		04/15/19 10:40	04/16/19 18:49	1
Endrin	ND		0.097	0.0019	ug/L		04/15/19 10:40	04/16/19 18:49	1
Endrin aldehyde	ND		0.097	0.0019	ug/L		04/15/19 10:40	04/16/19 18:49	1
Endrin ketone	ND		0.097	0.0068	ug/L		04/15/19 10:40	04/16/19 18:49	1

Client Sample ID: MW-3-20190412

Lab Sample ID: 440-238791-3

Date Collected: 04/12/19 08:53
Matrix: Water
Date Received: 04/13/19 10:30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	**0.14**	**p**	0.097	0.0029	ug/L		04/15/19 10:40	04/16/19 18:49	1
Heptachlor	ND		0.0097	0.0029	ug/L		04/15/19 10:40	04/16/19 18:49	1
Heptachlor epoxide	ND		0.0049	0.0024	ug/L		04/15/19 10:40	04/16/19 18:49	1
Methoxychlor	ND		0.097	0.0034	ug/L		04/15/19 10:40	04/16/19 18:49	1
Toxaphene	ND		4.9	0.24	ug/L		04/15/19 10:40	04/16/19 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*28 - 108*	*04/15/19 10:40*	*04/16/19 18:49*	*1*
Tetrachloro-m-xylene	*48*		*10 - 123*	*04/15/19 10:40*	*04/16/19 18:49*	*1*

Client Sample ID: MW-4-20190412

Lab Sample ID: 440-238791-4

Date Collected: 04/12/19 10:23
Matrix: Water
Date Received: 04/13/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10	0.50	ug/L			04/26/19 06:44	2
1,1,1-Trichloroethane	ND		4.0	0.50	ug/L			04/26/19 06:44	2
1,1,2,2-Tetrachloroethane	ND		4.0	0.50	ug/L			04/26/19 06:44	2
1,1,2-Trichloroethane	ND		4.0	0.50	ug/L			04/26/19 06:44	2
1,1-Dichloroethane	ND		4.0	0.50	ug/L			04/26/19 06:44	2
1,1-Dichloroethene	ND		10	0.50	ug/L			04/26/19 06:44	2
1,1-Dichloropropene	ND		4.0	0.50	ug/L			04/26/19 06:44	2
1,2,3-Trichlorobenzene	ND		10	0.80	ug/L			04/26/19 06:44	2
1,2,3-Trichloropropane	ND		20	0.50	ug/L			04/26/19 06:44	2
1,2,4-Trichlorobenzene	ND		10	0.80	ug/L			04/26/19 06:44	2
1,2,4-Trimethylbenzene	ND		4.0	0.50	ug/L			04/26/19 06:44	2
1,2-Dibromo-3-Chloropropane	ND		10	1.0	ug/L			04/26/19 06:44	2
1,2-Dibromoethane (EDB)	ND		4.0	0.50	ug/L			04/26/19 06:44	2
1,2-Dichlorobenzene	**4.4**		4.0	0.50	ug/L			04/26/19 06:44	2
1,2-Dichloroethane	ND		4.0	0.50	ug/L			04/26/19 06:44	2
1,2-Dichloropropane	ND		4.0	0.50	ug/L			04/26/19 06:44	2
1,3,5-Trimethylbenzene	ND		4.0	0.50	ug/L			04/26/19 06:44	2
1,3-Dichlorobenzene	ND		4.0	0.50	ug/L			04/26/19 06:44	2
1,3-Dichloropropane	ND		4.0	0.50	ug/L			04/26/19 06:44	2
1,4-Dichlorobenzene	**4.0**		4.0	0.50	ug/L			04/26/19 06:44	2
2,2-Dichloropropane	ND		4.0	0.80	ug/L			04/26/19 06:44	2
2-Chlorotoluene	ND		10	0.50	ug/L			04/26/19 06:44	2
4-Chlorotoluene	ND		10	0.50	ug/L			04/26/19 06:44	2
Benzene	ND		4.0	0.50	ug/L			04/26/19 06:44	2
Bromobenzene	ND		10	0.50	ug/L			04/26/19 06:44	2
Bromochloromethane	ND		10	0.50	ug/L			04/26/19 06:44	2
Bromodichloromethane	ND		4.0	0.50	ug/L			04/26/19 06:44	2
Bromoform	ND		10	0.80	ug/L			04/26/19 06:44	2
Bromomethane	ND		10	0.50	ug/L			04/26/19 06:44	2
Carbon tetrachloride	**0.93**	**J**	2.0	0.50	ug/L			04/26/19 06:44	2
Chlorobenzene	**2.2**	**J**	4.0	0.50	ug/L			04/26/19 06:44	2
Chloroethane	ND		10	0.80	ug/L			04/26/19 06:44	2
Chloromethane	ND		10	0.50	ug/L			04/26/19 06:44	2
cis-1,2-Dichloroethene	ND		4.0	0.50	ug/L			04/26/19 06:44	2

Client Sample ID: MW-4-20190412

Lab Sample ID: 440-238791-4

Date Collected: 04/12/19 10:23
Matrix: Water
Date Received: 04/13/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		4.0	0.50	ug/L			04/26/19 06:44	2
Dibromochloromethane	ND		4.0	0.50	ug/L			04/26/19 06:44	2
Dibromomethane	ND		4.0	0.50	ug/L			04/26/19 06:44	2
Dichlorodifluoromethane	ND		10	0.50	ug/L			04/26/19 06:44	2
Dimethyl disulfide	ND		4.0	2.0	ug/L			04/26/19 06:44	2
Ethylbenzene	ND		4.0	0.50	ug/L			04/26/19 06:44	2
Hexachlorobutadiene	ND		10	0.50	ug/L			04/26/19 06:44	2
Isopropylbenzene	ND		4.0	0.50	ug/L			04/26/19 06:44	2
m,p-Xylene	ND		4.0	1.0	ug/L			04/26/19 06:44	2
Methylene Chloride	ND		4.0	2.2	ug/L			04/26/19 06:44	2
Naphthalene	ND		10	0.80	ug/L			04/26/19 06:44	2
n-Butylbenzene	ND		10	0.80	ug/L			04/26/19 06:44	2
N-Propylbenzene	ND		4.0	0.50	ug/L			04/26/19 06:44	2
o-Xylene	ND		4.0	0.50	ug/L			04/26/19 06:44	2
p-Isopropyltoluene	ND		4.0	0.50	ug/L			04/26/19 06:44	2
sec-Butylbenzene	ND		10	0.50	ug/L			04/26/19 06:44	2
Styrene	ND		4.0	0.50	ug/L			04/26/19 06:44	2
tert-Butylbenzene	ND		10	0.50	ug/L			04/26/19 06:44	2
Tetrachloroethene	ND		4.0	0.50	ug/L			04/26/19 06:44	2
Toluene	ND		4.0	0.50	ug/L			04/26/19 06:44	2
trans-1,2-Dichloroethene	ND		4.0	0.50	ug/L			04/26/19 06:44	2
trans-1,3-Dichloropropene	ND		4.0	0.50	ug/L			04/26/19 06:44	2
Trichloroethene	ND		4.0	0.50	ug/L			04/26/19 06:44	2
Trichlorofluoromethane	ND		10	0.50	ug/L			04/26/19 06:44	2
Vinyl chloride	ND		10	0.50	ug/L			04/26/19 06:44	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*04/26/19 06:44*	*2*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*04/26/19 06:44*	*2*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*04/26/19 06:44*	*2*
Toluene-d8 (Surr)	*103*		*80 - 128*		*04/26/19 06:44*	*2*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	**520**		200	25	ug/L			04/26/19 07:11	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*04/26/19 07:11*	*100*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*04/26/19 07:11*	*100*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*04/26/19 07:11*	*100*
Toluene-d8 (Surr)	*105*		*80 - 128*		*04/26/19 07:11*	*100*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-Dichlorobenzil & 4,4'-Dichlorobenzil	ND		9.8	4.4	ug/L		04/18/19 12:42	04/20/19 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*98*		*40 - 120*	*04/18/19 12:42*	*04/20/19 18:47*	*1*
2-Fluorobiphenyl	*86*		*50 - 120*	*04/18/19 12:42*	*04/20/19 18:47*	*1*
2-Fluorophenol (Surr)	*82*		*30 - 120*	*04/18/19 12:42*	*04/20/19 18:47*	*1*

Client Sample ID: MW-4-20190412

Lab Sample ID: 440-238791-4

Date Collected: 04/12/19 10:23
Matrix: Water
Date Received: 04/13/19 10:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*85*		*45 - 120*	*04/18/19 12:42*	*04/20/19 18:47*	*1*
Phenol-d6 (Surr)	*82*		*35 - 120*	*04/18/19 12:42*	*04/20/19 18:47*	*1*
Terphenyl-d14 (Surr)	*95*		*10 - 150*	*04/18/19 12:42*	*04/20/19 18:47*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.0051	0.0015	ug/L		04/15/19 10:40	04/16/19 19:14	1
alpha-BHC	**0.0030**	**J**	0.0051	0.0025	ug/L		04/15/19 10:40	04/16/19 19:14	1
beta-BHC	ND		0.010	0.0041	ug/L		04/15/19 10:40	04/16/19 19:14	1
Chlordane	ND		0.10	0.081	ug/L		04/15/19 10:40	04/16/19 19:14	1
2,4'-DDD	ND		0.10	0.020	ug/L		04/15/19 10:40	04/16/19 19:14	1
4,4'-DDD	ND		0.10	0.0041	ug/L		04/15/19 10:40	04/16/19 19:14	1
2,4'-DDE	ND		0.10	0.020	ug/L		04/15/19 10:40	04/16/19 19:14	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/15/19 10:40	04/16/19 19:14	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/15/19 10:40	04/16/19 19:14	1
4,4'-DDT	ND		0.10	0.0041	ug/L		04/15/19 10:40	04/16/19 19:14	1
delta-BHC	ND		0.20	0.0036	ug/L		04/15/19 10:40	04/16/19 19:14	1
Dieldrin	ND		0.0051	0.0020	ug/L		04/15/19 10:40	04/16/19 19:14	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/15/19 10:40	04/16/19 19:14	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/15/19 10:40	04/16/19 19:14	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/15/19 10:40	04/16/19 19:14	1
Endrin	ND		0.10	0.0020	ug/L		04/15/19 10:40	04/16/19 19:14	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/15/19 10:40	04/16/19 19:14	1
Endrin ketone	ND		0.10	0.0071	ug/L		04/15/19 10:40	04/16/19 19:14	1
gamma-BHC (Lindane)	ND		0.10	0.0030	ug/L		04/15/19 10:40	04/16/19 19:14	1
Heptachlor	ND		0.010	0.0030	ug/L		04/15/19 10:40	04/16/19 19:14	1
Heptachlor epoxide	ND		0.0051	0.0025	ug/L		04/15/19 10:40	04/16/19 19:14	1
Methoxychlor	ND		0.10	0.0036	ug/L		04/15/19 10:40	04/16/19 19:14	1
Toxaphene	ND		5.1	0.25	ug/L		04/15/19 10:40	04/16/19 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*28 - 108*	*04/15/19 10:40*	*04/16/19 19:14*	*1*
Tetrachloro-m-xylene	*37*		*10 - 123*	*04/15/19 10:40*	*04/16/19 19:14*	*1*

Client Sample ID: TB-20190412

Lab Sample ID: 440-238791-5

Date Collected: 04/12/19 06:40
Matrix: Water
Date Received: 04/13/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/26/19 15:50	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 15:50	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/26/19 15:50	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 15:50	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 15:50	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/26/19 15:50	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 15:50	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 15:50	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/26/19 15:50	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 15:50	1

Client: Montrose Chemical Company
Project/Site: Montrose Wells

Job ID: 440-238791-1
SDG: Henderson, NV

Client Sample ID: TB-20190412

Date Collected: 04/12/19 06:40
Date Received: 04/13/19 10:30

Lab Sample ID: 440-238791-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 15:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/26/19 15:50	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/26/19 15:50	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 15:50	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 15:50	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 15:50	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 15:50	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 15:50	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 15:50	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 15:50	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/26/19 15:50	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 15:50	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 15:50	1
Benzene	ND		2.0	0.25	ug/L			04/26/19 15:50	1
Bromobenzene	ND		5.0	0.25	ug/L			04/26/19 15:50	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/26/19 15:50	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/26/19 15:50	1
Bromoform	ND		5.0	0.40	ug/L			04/26/19 15:50	1
Bromomethane	ND		5.0	0.25	ug/L			04/26/19 15:50	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/26/19 15:50	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/26/19 15:50	1
Chloroethane	ND		5.0	0.40	ug/L			04/26/19 15:50	1
Chloroform	ND		2.0	0.25	ug/L			04/26/19 15:50	1
Chloromethane	ND		5.0	0.25	ug/L			04/26/19 15:50	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 15:50	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 15:50	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/26/19 15:50	1
Dibromomethane	ND		2.0	0.25	ug/L			04/26/19 15:50	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/26/19 15:50	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/26/19 15:50	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/26/19 15:50	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/26/19 15:50	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/26/19 15:50	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/26/19 15:50	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/26/19 15:50	1
Naphthalene	ND		5.0	0.40	ug/L			04/26/19 15:50	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/26/19 15:50	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/26/19 15:50	1
o-Xylene	ND		2.0	0.25	ug/L			04/26/19 15:50	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/26/19 15:50	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 15:50	1
Styrene	ND		2.0	0.25	ug/L			04/26/19 15:50	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 15:50	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/26/19 15:50	1
Toluene	ND		2.0	0.25	ug/L			04/26/19 15:50	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 15:50	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 15:50	1
Trichloroethene	ND		2.0	0.25	ug/L			04/26/19 15:50	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/26/19 15:50	1

Client Sample ID: TB-20190412

Lab Sample ID: 440-238791-5

Date Collected: 04/12/19 06:40
Matrix: Water
Date Received: 04/13/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		5.0	0.25	ug/L			04/26/19 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 130*		*04/26/19 15:50*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*04/26/19 15:50*	*1*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*04/26/19 15:50*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*04/26/19 15:50*	*1*

Client Sample ID: PL-509-20190412

Lab Sample ID: 440-238791-6

Date Collected: 04/12/19 10:30
Matrix: Water
Date Received: 04/13/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/26/19 16:17	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 16:17	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/26/19 16:17	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 16:17	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 16:17	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/26/19 16:17	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 16:17	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 16:17	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/26/19 16:17	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 16:17	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 16:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/26/19 16:17	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/26/19 16:17	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 16:17	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 16:17	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 16:17	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 16:17	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 16:17	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 16:17	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 16:17	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/26/19 16:17	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 16:17	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 16:17	1
Benzene	ND		2.0	0.25	ug/L			04/26/19 16:17	1
Bromobenzene	ND		5.0	0.25	ug/L			04/26/19 16:17	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/26/19 16:17	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/26/19 16:17	1
Bromoform	ND		5.0	0.40	ug/L			04/26/19 16:17	1
Bromomethane	ND		5.0	0.25	ug/L			04/26/19 16:17	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/26/19 16:17	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/26/19 16:17	1
Chloroethane	ND		5.0	0.40	ug/L			04/26/19 16:17	1
Chloroform	ND		2.0	0.25	ug/L			04/26/19 16:17	1
Chloromethane	ND		5.0	0.25	ug/L			04/26/19 16:17	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 16:17	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 16:17	1

Client Sample Results

Client: Montrose Chemical Company
Project/Site: Montrose Wells

Job ID: 440-238791-1
SDG: Henderson, NV

Client Sample ID: PL-509-20190412

Date Collected: 04/12/19 10:30
Date Received: 04/13/19 10:30

Lab Sample ID: 440-238791-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		2.0	0.25	ug/L			04/26/19 16:17	1
Dibromomethane	ND		2.0	0.25	ug/L			04/26/19 16:17	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/26/19 16:17	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/26/19 16:17	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/26/19 16:17	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/26/19 16:17	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/26/19 16:17	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/26/19 16:17	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/26/19 16:17	1
Naphthalene	ND		5.0	0.40	ug/L			04/26/19 16:17	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/26/19 16:17	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/26/19 16:17	1
o-Xylene	ND		2.0	0.25	ug/L			04/26/19 16:17	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/26/19 16:17	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 16:17	1
Styrene	ND		2.0	0.25	ug/L			04/26/19 16:17	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 16:17	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/26/19 16:17	1
Toluene	ND		2.0	0.25	ug/L			04/26/19 16:17	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 16:17	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 16:17	1
Trichloroethene	ND		2.0	0.25	ug/L			04/26/19 16:17	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/26/19 16:17	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/26/19 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*		*04/26/19 16:17*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*04/26/19 16:17*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*04/26/19 16:17*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*04/26/19 16:17*	*1*

Surrogate Summary

Client: Montrose Chemical Company
Project/Site: Montrose Wells

Job ID: 440-238791-1
SDG: Henderson, NV

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-130)	(80-120)	(76-132)	(80-128)
440-238715-L-2 MS	Matrix Spike	90	92	108	100
440-238715-L-2 MSD	Matrix Spike Duplicate	89	93	105	100
440-238791-1	MW-1-201090412	98	95	105	104
440-238791-1	MW-1-201090412	91	92	107	104
440-238791-1 MS	MW-1-201090412	100	101	102	99
440-238791-1 MSD	MW-1-201090412	103	100	102	100
440-238791-2	MW-2-20190412	94	91	111	104
440-238791-2 - DL	MW-2-20190412	94	91	108	103
440-238791-3	MW-3-20190412	93	91	109	102
440-238791-3 - DL	MW-3-20190412	93	90	108	103
440-238791-4	MW-4-20190412	94	91	109	103
440-238791-4 - DL	MW-4-20190412	91	90	105	105
440-238791-5	TB-20190412	87	92	105	105
440-238791-6	PL-509-20190412	85	93	102	103
440-239073-A-6 MS	Matrix Spike	93	91	110	101
440-239073-B-6 MSD	Matrix Spike Duplicate	92	93	108	100
LCS 440-542646/14	Lab Control Sample	94	95	102	96
LCS 440-542648/5	Lab Control Sample	88	92	105	100
LCS 440-542722/5	Lab Control Sample	90	90	106	100
MB 440-542646/4	Method Blank	101	95	104	105
MB 440-542648/7	Method Blank	88	90	105	104
MB 440-542722/7	Method Blank	93	91	107	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL6	TPHL
Lab Sample ID	Client Sample ID	(40-120)	(50-120)	(30-120)	(45-120)	(35-120)	(10-150)
440-238791-1	MW-1-201090412	97	85	83	83	83	101
440-238791-2	MW-2-20190412	107	85	82	83	80	89
440-238791-3	MW-3-20190412	85	82	64	77	65	84
440-238791-4	MW-4-20190412	98	86	82	85	82	95
LCS 440-541200/2-A	Lab Control Sample	98	79	65	76	67	87
LCSD 440-541200/3-A	Lab Control Sample Dup	98	84	72	78	75	91
MB 440-541200/1-A	Method Blank	87	79	75	78	77	93

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL6 = Phenol-d6 (Surr)
TPHL = Terphenyl-d14 (Surr)

Surrogate Summary

Client: Montrose Chemical Company
Project/Site: Montrose Wells

Job ID: 440-238791-1
SDG: Henderson, NV

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	**Client Sample ID**	**DCB1 (28-108)**	**TCX1 (10-123)**
440-238680-G-5-A MS	Matrix Spike	74	47
440-238680-G-5-B MSD	Matrix Spike Duplicate	74	49
440-238791-1	MW-1-201090412	68	48
440-238791-2	MW-2-20190412	65	50
440-238791-3	MW-3-20190412	72	48
440-238791-4	MW-4-20190412	69	37
LCS 440-540366/2-A	Lab Control Sample	64	52
MB 440-540366/1-A	Method Blank	71	52

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method Summary

Client: Montrose Chemical Company
Project/Site: Montrose Wells

Job ID: 440-238791-1
SDG: Henderson, NV

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL IRV
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Montrose Chemical Company
Project/Site: Montrose Wells

Job ID: 440-238791-1
SDG: Henderson, NV

Client Sample ID: MW-1-201090412
Lab Sample ID: 440-238791-1

Date Collected: 04/12/19 10:26
Matrix: Water
Date Received: 04/13/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542722	04/26/19 11:24	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	542646	04/25/19 20:58	P1P	TAL IRV
Total/NA	Prep	3520C			1020 mL	2.0 mL	541200	04/18/19 12:42	JAA	TAL IRV
Total/NA	Analysis	8270C		1			541577	04/20/19 17:31	HN	TAL IRV
Total/NA	Prep	3510C			1040 mL	2 mL	540366	04/15/19 10:40	HCK	TAL IRV
Total/NA	Analysis	8081A		1			540610	04/16/19 17:57	D1D	TAL IRV

Client Sample ID: MW-2-20190412
Lab Sample ID: 440-238791-2

Date Collected: 04/12/19 08:48
Matrix: Water
Date Received: 04/13/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	10 mL	10 mL	542648	04/26/19 04:58	OH1	TAL IRV
Total/NA	Analysis	8260B	DL	10000	10 mL	10 mL	542648	04/26/19 05:25	OH1	TAL IRV
Total/NA	Prep	3520C			1015 mL	2.0 mL	541200	04/18/19 12:42	JAA	TAL IRV
Total/NA	Analysis	8270C		1			541577	04/20/19 17:56	HN	TAL IRV
Total/NA	Prep	3510C			1020 mL	2 mL	540366	04/15/19 10:40	HCK	TAL IRV
Total/NA	Analysis	8081A		1			540610	04/16/19 18:23	D1D	TAL IRV

Client Sample ID: MW-3-20190412
Lab Sample ID: 440-238791-3

Date Collected: 04/12/19 08:53
Matrix: Water
Date Received: 04/13/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	10 mL	10 mL	542648	04/26/19 05:51	OH1	TAL IRV
Total/NA	Analysis	8260B	DL	2000	10 mL	10 mL	542648	04/26/19 06:18	OH1	TAL IRV
Total/NA	Prep	3520C			1005 mL	2.0 mL	541200	04/18/19 12:42	JAA	TAL IRV
Total/NA	Analysis	8270C		10			541577	04/20/19 18:22	HN	TAL IRV
Total/NA	Prep	3510C			1030 mL	2 mL	540366	04/15/19 10:40	HCK	TAL IRV
Total/NA	Analysis	8081A		1			540610	04/16/19 18:49	D1D	TAL IRV

Client Sample ID: MW-4-20190412
Lab Sample ID: 440-238791-4

Date Collected: 04/12/19 10:23
Matrix: Water
Date Received: 04/13/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	10 mL	10 mL	542648	04/26/19 06:44	OH1	TAL IRV
Total/NA	Analysis	8260B	DL	100	10 mL	10 mL	542648	04/26/19 07:11	OH1	TAL IRV
Total/NA	Prep	3520C			1025 mL	2.0 mL	541200	04/18/19 12:42	JAA	TAL IRV
Total/NA	Analysis	8270C		1			541577	04/20/19 18:47	HN	TAL IRV
Total/NA	Prep	3510C			985 mL	2 mL	540366	04/15/19 10:40	HCK	TAL IRV
Total/NA	Analysis	8081A		1			540610	04/16/19 19:14	D1D	TAL IRV

Lab Chronicle

Client: Montrose Chemical Company
Project/Site: Montrose Wells

Job ID: 440-238791-1
SDG: Henderson, NV

Client Sample ID: TB-20190412

Lab Sample ID: 440-238791-5

Date Collected: 04/12/19 06:40
Matrix: Water
Date Received: 04/13/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542722	04/26/19 15:50	RM	TAL IRV

Client Sample ID: PL-509-20190412

Lab Sample ID: 440-238791-6

Date Collected: 04/12/19 10:30
Matrix: Water
Date Received: 04/13/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542722	04/26/19 16:17	RM	TAL IRV

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

QC Sample Results

Client: Montrose Chemical Company
Project/Site: Montrose Wells

Job ID: 440-238791-1
SDG: Henderson, NV

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-542646/4
Matrix: Water
Analysis Batch: 542646

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		2.0	0.25	ug/L			04/25/19 20:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*04/25/19 20:33*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/25/19 20:33*	*1*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*04/25/19 20:33*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*04/25/19 20:33*	*1*

Lab Sample ID: LCS 440-542646/14
Matrix: Water
Analysis Batch: 542646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	10.0	10.6		ug/L		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*76 - 132*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-238791-1 MS
Matrix: Water
Analysis Batch: 542646

Client Sample ID: MW-1-201090412
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	3.3		10.0	13.0		ug/L		98	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*76 - 132*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 440-238791-1 MSD
Matrix: Water
Analysis Batch: 542646

Client Sample ID: MW-1-201090412
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform	3.3		10.0	12.3		ug/L		90	70 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-542648/7
Matrix: Water
Analysis Batch: 542648

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/25/19 21:27	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/25/19 21:27	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/25/19 21:27	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/25/19 21:27	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/25/19 21:27	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/25/19 21:27	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/25/19 21:27	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/25/19 21:27	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Benzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Bromobenzene	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Bromoform	ND		5.0	0.40	ug/L			04/25/19 21:27	1
Bromomethane	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/25/19 21:27	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Chloroethane	ND		5.0	0.40	ug/L			04/25/19 21:27	1
Chloroform	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Chloromethane	ND		5.0	0.25	ug/L			04/25/19 21:27	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Dibromomethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/25/19 21:27	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/25/19 21:27	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/25/19 21:27	1
Naphthalene	ND		5.0	0.40	ug/L			04/25/19 21:27	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/25/19 21:27	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-542648/7
Matrix: Water
Analysis Batch: 542648

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Styrene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Toluene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Trichloroethene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/25/19 21:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*04/25/19 21:27*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*04/25/19 21:27*	*1*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*04/25/19 21:27*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*04/25/19 21:27*	*1*

Lab Sample ID: LCS 440-542648/5
Matrix: Water
Analysis Batch: 542648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	11.6		ug/L		116	60 - 141
1,1,1-Trichloroethane	10.0	10.7		ug/L		107	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.04		ug/L		90	63 - 130
1,1,2-Trichloroethane	10.0	8.71		ug/L		87	70 - 130
1,1-Dichloroethane	10.0	10.4		ug/L		104	64 - 130
1,1-Dichloroethene	10.0	11.1		ug/L		111	70 - 130
1,1-Dichloropropene	10.0	10.0		ug/L		100	70 - 130
1,2,3-Trichlorobenzene	10.0	12.1		ug/L		121	60 - 140
1,2,3-Trichloropropane	10.0	8.42	J	ug/L		84	63 - 130
1,2,4-Trichlorobenzene	10.0	12.1		ug/L		121	60 - 140
1,2,4-Trimethylbenzene	10.0	11.1		ug/L		111	70 - 135
1,2-Dibromo-3-Chloropropane	10.0	8.54		ug/L		85	52 - 140
1,2-Dibromoethane (EDB)	10.0	8.49		ug/L		85	70 - 130
1,2-Dichlorobenzene	10.0	11.5		ug/L		115	70 - 130
1,2-Dichloroethane	10.0	8.38		ug/L		84	57 - 138
1,2-Dichloropropane	10.0	8.66		ug/L		87	67 - 130
1,3,5-Trimethylbenzene	10.0	11.2		ug/L		112	70 - 136
1,3-Dichlorobenzene	10.0	10.7		ug/L		107	70 - 130
1,3-Dichloropropane	10.0	8.49		ug/L		85	70 - 130
1,4-Dichlorobenzene	10.0	10.4		ug/L		104	70 - 130
2,2-Dichloropropane	10.0	12.0		ug/L		120	68 - 141
2-Chlorotoluene	10.0	10.7		ug/L		107	70 - 130
4-Chlorotoluene	10.0	10.2		ug/L		102	70 - 130
Benzene	10.0	9.80		ug/L		98	68 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-542648/5
Matrix: Water
Analysis Batch: 542648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	10.0	10.4		ug/L		104	70 - 130
Bromochloromethane	10.0	10.9		ug/L		109	70 - 130
Bromodichloromethane	10.0	9.24		ug/L		92	70 - 132
Bromoform	10.0	8.60		ug/L		86	60 - 148
Bromomethane	10.0	10.0		ug/L		100	64 - 139
Carbon tetrachloride	10.0	10.5		ug/L		105	60 - 150
Chlorobenzene	10.0	9.94		ug/L		99	70 - 130
Chloroethane	10.0	10.0		ug/L		100	64 - 135
Chloroform	10.0	10.6		ug/L		106	70 - 130
Chloromethane	10.0	7.94		ug/L		79	47 - 140
cis-1,2-Dichloroethene	10.0	10.5		ug/L		105	70 - 133
cis-1,3-Dichloropropene	10.0	9.47		ug/L		95	70 - 133
Dibromochloromethane	10.0	9.57		ug/L		96	69 - 145
Dibromomethane	10.0	8.49		ug/L		85	70 - 130
Dichlorodifluoromethane	10.0	9.43		ug/L		94	29 - 150
Ethylbenzene	10.0	9.92		ug/L		99	70 - 130
Hexachlorobutadiene	10.0	11.5		ug/L		115	10 - 150
Isopropylbenzene	10.0	10.7		ug/L		107	70 - 136
m,p-Xylene	10.0	10.1		ug/L		101	70 - 130
Methylene Chloride	10.0	10.9		ug/L		109	52 - 130
Naphthalene	10.0	10.2		ug/L		102	60 - 140
n-Butylbenzene	10.0	11.1		ug/L		111	65 - 150
N-Propylbenzene	10.0	10.5		ug/L		105	67 - 139
o-Xylene	10.0	10.9		ug/L		109	70 - 130
p-Isopropyltoluene	10.0	11.4		ug/L		114	70 - 132
sec-Butylbenzene	10.0	11.2		ug/L		112	70 - 138
Styrene	10.0	10.0		ug/L		100	70 - 134
tert-Butylbenzene	10.0	10.8		ug/L		108	70 - 130
Tetrachloroethene	10.0	10.6		ug/L		106	70 - 130
Toluene	10.0	9.78		ug/L		98	70 - 130
trans-1,2-Dichloroethene	10.0	10.7		ug/L		107	70 - 130
trans-1,3-Dichloropropene	10.0	8.88		ug/L		89	70 - 132
Trichloroethene	10.0	10.2		ug/L		102	70 - 130
Trichlorofluoromethane	10.0	10.5		ug/L		105	60 - 150
Vinyl chloride	10.0	9.47		ug/L		95	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: 440-239073-A-6 MS
Matrix: Water
Analysis Batch: 542648

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		12.5	14.9		ug/L		119	60 - 149

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-239073-A-6 MS
Matrix: Water
Analysis Batch: 542648

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		12.5	13.9		ug/L		111	70 - 130
1,1,2,2-Tetrachloroethane	ND		12.5	12.3		ug/L		99	63 - 130
1,1,2-Trichloroethane	ND		12.5	11.6		ug/L		93	70 - 130
1,1-Dichloroethane	ND		12.5	13.7		ug/L		110	65 - 130
1,1-Dichloroethene	0.51	J	12.5	15.0		ug/L		116	70 - 130
1,1-Dichloropropene	ND		12.5	13.3		ug/L		106	64 - 130
1,2,3-Trichlorobenzene	ND		12.5	14.8		ug/L		119	60 - 140
1,2,3-Trichloropropane	ND		12.5	12.4		ug/L		99	60 - 130
1,2,4-Trichlorobenzene	ND		12.5	15.1		ug/L		121	60 - 140
1,2,4-Trimethylbenzene	ND		12.5	13.8		ug/L		110	70 - 130
1,2-Dibromo-3-Chloropropane	ND		12.5	11.8		ug/L		94	48 - 140
1,2-Dibromoethane (EDB)	ND		12.5	11.8		ug/L		94	70 - 131
1,2-Dichlorobenzene	0.29	J	12.5	14.3		ug/L		112	70 - 130
1,2-Dichloroethane	ND		12.5	11.5		ug/L		92	56 - 146
1,2-Dichloropropane	ND		12.5	11.4		ug/L		91	69 - 130
1,3,5-Trimethylbenzene	ND		12.5	13.9		ug/L		111	70 - 130
1,3-Dichlorobenzene	ND		12.5	13.3		ug/L		107	70 - 130
1,3-Dichloropropane	ND		12.5	11.1		ug/L		89	70 - 130
1,4-Dichlorobenzene	0.29	J	12.5	13.3		ug/L		104	70 - 130
2,2-Dichloropropane	ND		12.5	15.5		ug/L		124	69 - 138
2-Chlorotoluene	ND		12.5	13.3		ug/L		106	70 - 130
4-Chlorotoluene	ND		12.5	12.9		ug/L		103	70 - 130
Benzene	ND		12.5	12.6		ug/L		101	66 - 130
Bromobenzene	ND		12.5	13.0		ug/L		104	70 - 130
Bromochloromethane	ND		12.5	14.6		ug/L		116	70 - 130
Bromodichloromethane	ND		12.5	11.5		ug/L		92	70 - 138
Bromoform	ND		12.5	12.1		ug/L		97	59 - 150
Bromomethane	ND		12.5	13.6		ug/L		109	62 - 131
Carbon tetrachloride	0.73	J	12.5	14.7		ug/L		112	60 - 150
Chlorobenzene	ND		12.5	12.8		ug/L		102	70 - 130
Chloroethane	ND		12.5	13.4		ug/L		107	68 - 130
Chloroform	66		12.5	79.8	4	ug/L		112	70 - 130
Chloromethane	ND		12.5	11.4		ug/L		91	39 - 144
cis-1,2-Dichloroethene	ND		12.5	13.6		ug/L		109	70 - 130
cis-1,3-Dichloropropene	ND		12.5	12.6		ug/L		100	70 - 133
Dibromochloromethane	ND		12.5	12.7		ug/L		101	70 - 148
Dibromomethane	ND		12.5	11.6		ug/L		93	70 - 130
Dichlorodifluoromethane	ND		12.5	14.5		ug/L		116	25 - 142
Ethylbenzene	ND		12.5	12.7		ug/L		102	70 - 130
Hexachlorobutadiene	ND		12.5	13.5		ug/L		108	10 - 150
Isopropylbenzene	ND		12.5	13.7		ug/L		110	70 - 132
m,p-Xylene	ND		12.5	13.2		ug/L		106	70 - 133
Methylene Chloride	ND		12.5	13.7		ug/L		110	52 - 130
Naphthalene	ND		12.5	14.0		ug/L		112	60 - 140
n-Butylbenzene	ND		12.5	14.0		ug/L		112	61 - 149
N-Propylbenzene	ND		12.5	13.3		ug/L		106	66 - 135
o-Xylene	ND		12.5	13.9		ug/L		111	70 - 133
p-Isopropyltoluene	ND		12.5	14.0		ug/L		112	70 - 130
sec-Butylbenzene	ND		12.5	13.6		ug/L		109	67 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-239073-A-6 MS
Matrix: Water
Analysis Batch: 542648

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	ND		12.5	12.6		ug/L		100	29 - 150
tert-Butylbenzene	ND		12.5	13.3		ug/L		106	70 - 130
Tetrachloroethene	ND		12.5	13.8		ug/L		110	70 - 137
Toluene	ND		12.5	12.5		ug/L		100	70 - 130
trans-1,2-Dichloroethene	ND		12.5	14.6		ug/L		117	70 - 130
trans-1,3-Dichloropropene	ND		12.5	11.6		ug/L		93	70 - 138
Trichloroethene	2.6		12.5	15.3		ug/L		101	70 - 130
Trichlorofluoromethane	ND		12.5	13.8		ug/L		111	60 - 150
Vinyl chloride	ND		12.5	13.1		ug/L		105	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*
Dibromofluoromethane (Surr)	*110*		*76 - 132*
Toluene-d8 (Surr)	*101*		*80 - 128*

Lab Sample ID: 440-239073-B-6 MSD
Matrix: Water
Analysis Batch: 542648

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		12.5	15.1		ug/L		121	60 - 149	1	20
1,1,1-Trichloroethane	ND		12.5	14.1		ug/L		113	70 - 130	2	20
1,1,2,2-Tetrachloroethane	ND		12.5	12.6		ug/L		101	63 - 130	2	30
1,1,2-Trichloroethane	ND		12.5	11.8		ug/L		95	70 - 130	2	25
1,1-Dichloroethane	ND		12.5	14.0		ug/L		112	65 - 130	2	20
1,1-Dichloroethene	0.51	J	12.5	15.2		ug/L		118	70 - 130	1	20
1,1-Dichloropropene	ND		12.5	13.4		ug/L		107	64 - 130	1	20
1,2,3-Trichlorobenzene	ND		12.5	15.2		ug/L		122	60 - 140	3	20
1,2,3-Trichloropropane	ND		12.5	12.4		ug/L		99	60 - 130	0	30
1,2,4-Trichlorobenzene	ND		12.5	15.5		ug/L		124	60 - 140	3	20
1,2,4-Trimethylbenzene	ND		12.5	14.0		ug/L		112	70 - 130	2	25
1,2-Dibromo-3-Chloropropane	ND		12.5	12.3		ug/L		98	48 - 140	4	30
1,2-Dibromoethane (EDB)	ND		12.5	11.7		ug/L		93	70 - 131	1	25
1,2-Dichlorobenzene	0.29	J	12.5	14.8		ug/L		116	70 - 130	3	20
1,2-Dichloroethane	ND		12.5	11.3		ug/L		90	56 - 146	2	20
1,2-Dichloropropane	ND		12.5	11.4		ug/L		91	69 - 130	0	20
1,3,5-Trimethylbenzene	ND		12.5	14.4		ug/L		115	70 - 130	4	20
1,3-Dichlorobenzene	ND		12.5	13.7		ug/L		109	70 - 130	3	20
1,3-Dichloropropane	ND		12.5	11.1		ug/L		89	70 - 130	0	25
1,4-Dichlorobenzene	0.29	J	12.5	13.5		ug/L		106	70 - 130	1	20
2,2-Dichloropropane	ND		12.5	15.7		ug/L		126	69 - 138	1	25
2-Chlorotoluene	ND		12.5	13.7		ug/L		109	70 - 130	3	20
4-Chlorotoluene	ND		12.5	13.1		ug/L		105	70 - 130	2	20
Benzene	ND		12.5	12.8		ug/L		102	66 - 130	1	20
Bromobenzene	ND		12.5	13.3		ug/L		106	70 - 130	2	20
Bromochloromethane	ND		12.5	14.7		ug/L		118	70 - 130	1	25
Bromodichloromethane	ND		12.5	12.1		ug/L		97	70 - 138	5	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-239073-B-6 MSD
Matrix: Water
Analysis Batch: 542648

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		12.5	11.9		ug/L		95	59 - 150	2	25
Bromomethane	ND		12.5	13.9		ug/L		111	62 - 131	2	25
Carbon tetrachloride	0.73	J	12.5	15.1		ug/L		115	60 - 150	2	25
Chlorobenzene	ND		12.5	12.8		ug/L		102	70 - 130	0	20
Chloroethane	ND		12.5	13.4		ug/L		107	68 - 130	0	25
Chloroform	66		12.5	83.0	4	ug/L		138	70 - 130	4	20
Chloromethane	ND		12.5	11.7		ug/L		93	39 - 144	2	25
cis-1,2-Dichloroethene	ND		12.5	13.7		ug/L		109	70 - 130	1	20
cis-1,3-Dichloropropene	ND		12.5	12.5		ug/L		100	70 - 133	0	20
Dibromochloromethane	ND		12.5	12.5		ug/L		100	70 - 148	1	25
Dibromomethane	ND		12.5	11.3		ug/L		91	70 - 130	3	25
Dichlorodifluoromethane	ND		12.5	14.9		ug/L		119	25 - 142	2	30
Ethylbenzene	ND		12.5	12.7		ug/L		102	70 - 130	0	20
Hexachlorobutadiene	ND		12.5	14.0		ug/L		112	10 - 150	4	20
Isopropylbenzene	ND		12.5	14.0		ug/L		112	70 - 132	2	20
m,p-Xylene	ND		12.5	13.2		ug/L		106	70 - 133	0	25
Methylene Chloride	ND		12.5	14.2		ug/L		114	52 - 130	4	20
Naphthalene	ND		12.5	13.9		ug/L		112	60 - 140	0	30
n-Butylbenzene	ND		12.5	14.2		ug/L		113	61 - 149	1	20
N-Propylbenzene	ND		12.5	13.6		ug/L		109	66 - 135	3	20
o-Xylene	ND		12.5	14.1		ug/L		113	70 - 133	1	20
p-Isopropyltoluene	ND		12.5	14.6		ug/L		117	70 - 130	4	20
sec-Butylbenzene	ND		12.5	14.0		ug/L		112	67 - 134	3	20
Styrene	ND		12.5	12.6		ug/L		101	29 - 150	1	35
tert-Butylbenzene	ND		12.5	13.7		ug/L		109	70 - 130	3	20
Tetrachloroethene	ND		12.5	14.3		ug/L		115	70 - 137	4	20
Toluene	ND		12.5	12.7		ug/L		101	70 - 130	1	20
trans-1,2-Dichloroethene	ND		12.5	14.9		ug/L		119	70 - 130	2	20
trans-1,3-Dichloropropene	ND		12.5	11.7		ug/L		94	70 - 138	1	25
Trichloroethene	2.6		12.5	15.6		ug/L		104	70 - 130	2	20
Trichlorofluoromethane	ND		12.5	14.0		ug/L		112	60 - 150	1	25
Vinyl chloride	ND		12.5	13.1		ug/L		105	50 - 137	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: MB 440-542722/7
Matrix: Water
Analysis Batch: 542722

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/26/19 10:31	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 10:31	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/26/19 10:31	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 10:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-542722/7
Matrix: Water
Analysis Batch: 542722

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 10:31	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/26/19 10:31	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 10:31	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 10:31	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/26/19 10:31	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 10:31	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 10:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/26/19 10:31	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/26/19 10:31	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 10:31	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 10:31	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 10:31	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 10:31	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 10:31	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 10:31	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 10:31	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/26/19 10:31	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 10:31	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 10:31	1
Benzene	ND		2.0	0.25	ug/L			04/26/19 10:31	1
Bromobenzene	ND		5.0	0.25	ug/L			04/26/19 10:31	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/26/19 10:31	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/26/19 10:31	1
Bromoform	ND		5.0	0.40	ug/L			04/26/19 10:31	1
Bromomethane	ND		5.0	0.25	ug/L			04/26/19 10:31	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/26/19 10:31	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/26/19 10:31	1
Chloroethane	ND		5.0	0.40	ug/L			04/26/19 10:31	1
Chloroform	ND		2.0	0.25	ug/L			04/26/19 10:31	1
Chloromethane	ND		5.0	0.25	ug/L			04/26/19 10:31	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 10:31	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 10:31	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/26/19 10:31	1
Dibromomethane	ND		2.0	0.25	ug/L			04/26/19 10:31	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/26/19 10:31	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/26/19 10:31	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/26/19 10:31	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/26/19 10:31	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/26/19 10:31	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/26/19 10:31	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/26/19 10:31	1
Naphthalene	ND		5.0	0.40	ug/L			04/26/19 10:31	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/26/19 10:31	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/26/19 10:31	1
o-Xylene	ND		2.0	0.25	ug/L			04/26/19 10:31	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/26/19 10:31	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 10:31	1
Styrene	ND		2.0	0.25	ug/L			04/26/19 10:31	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 10:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-542722/7
Matrix: Water
Analysis Batch: 542722

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		2.0	0.25	ug/L			04/26/19 10:31	1
Toluene	ND		2.0	0.25	ug/L			04/26/19 10:31	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 10:31	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 10:31	1
Trichloroethene	ND		2.0	0.25	ug/L			04/26/19 10:31	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/26/19 10:31	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/26/19 10:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*04/26/19 10:31*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*04/26/19 10:31*	*1*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*04/26/19 10:31*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*04/26/19 10:31*	*1*

Lab Sample ID: LCS 440-542722/5
Matrix: Water
Analysis Batch: 542722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	11.3		ug/L		113	60 - 141
1,1,1-Trichloroethane	10.0	9.95		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	10.0	8.97		ug/L		90	63 - 130
1,1,2-Trichloroethane	10.0	8.74		ug/L		87	70 - 130
1,1-Dichloroethane	10.0	9.64		ug/L		96	64 - 130
1,1-Dichloroethene	10.0	9.79		ug/L		98	70 - 130
1,1-Dichloropropene	10.0	9.15		ug/L		92	70 - 130
1,2,3-Trichlorobenzene	10.0	11.3		ug/L		113	60 - 140
1,2,3-Trichloropropane	10.0	8.46	J	ug/L		85	63 - 130
1,2,4-Trichlorobenzene	10.0	11.5		ug/L		115	60 - 140
1,2,4-Trimethylbenzene	10.0	10.2		ug/L		102	70 - 135
1,2-Dibromo-3-Chloropropane	10.0	8.43		ug/L		84	52 - 140
1,2-Dibromoethane (EDB)	10.0	8.64		ug/L		86	70 - 130
1,2-Dichlorobenzene	10.0	10.9		ug/L		109	70 - 130
1,2-Dichloroethane	10.0	8.18		ug/L		82	57 - 138
1,2-Dichloropropane	10.0	8.30		ug/L		83	67 - 130
1,3,5-Trimethylbenzene	10.0	10.4		ug/L		104	70 - 136
1,3-Dichlorobenzene	10.0	10.2		ug/L		102	70 - 130
1,3-Dichloropropane	10.0	8.34		ug/L		83	70 - 130
1,4-Dichlorobenzene	10.0	9.99		ug/L		100	70 - 130
2,2-Dichloropropane	10.0	11.3		ug/L		113	68 - 141
2-Chlorotoluene	10.0	9.86		ug/L		99	70 - 130
4-Chlorotoluene	10.0	9.65		ug/L		97	70 - 130
Benzene	10.0	9.16		ug/L		92	68 - 130
Bromobenzene	10.0	9.67		ug/L		97	70 - 130
Bromochloromethane	10.0	10.3		ug/L		103	70 - 130
Bromodichloromethane	10.0	8.55		ug/L		86	70 - 132
Bromoform	10.0	9.00		ug/L		90	60 - 148
Bromomethane	10.0	8.70		ug/L		87	64 - 139

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-542722/5
Matrix: Water
Analysis Batch: 542722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	10.0	9.87		ug/L		99	60 - 150
Chlorobenzene	10.0	9.62		ug/L		96	70 - 130
Chloroethane	10.0	8.67		ug/L		87	64 - 135
Chloroform	10.0	9.86		ug/L		99	70 - 130
Chloromethane	10.0	6.65		ug/L		66	47 - 140
cis-1,2-Dichloroethene	10.0	9.65		ug/L		97	70 - 133
cis-1,3-Dichloropropene	10.0	9.28		ug/L		93	70 - 133
Dibromochloromethane	10.0	9.46		ug/L		95	69 - 145
Dibromomethane	10.0	8.14		ug/L		81	70 - 130
Dichlorodifluoromethane	10.0	7.11		ug/L		71	29 - 150
Ethylbenzene	10.0	9.54		ug/L		95	70 - 130
Hexachlorobutadiene	10.0	10.7		ug/L		107	10 - 150
Isopropylbenzene	10.0	10.3		ug/L		103	70 - 136
m,p-Xylene	10.0	9.87		ug/L		99	70 - 130
Methylene Chloride	10.0	9.79		ug/L		98	52 - 130
Naphthalene	10.0	10.3		ug/L		103	60 - 140
n-Butylbenzene	10.0	10.3		ug/L		103	65 - 150
N-Propylbenzene	10.0	9.98		ug/L		100	67 - 139
o-Xylene	10.0	10.4		ug/L		104	70 - 130
p-Isopropyltoluene	10.0	10.7		ug/L		107	70 - 132
sec-Butylbenzene	10.0	10.2		ug/L		102	70 - 138
Styrene	10.0	9.68		ug/L		97	70 - 134
tert-Butylbenzene	10.0	9.94		ug/L		99	70 - 130
Tetrachloroethene	10.0	9.97		ug/L		100	70 - 130
Toluene	10.0	9.24		ug/L		92	70 - 130
trans-1,2-Dichloroethene	10.0	10.2		ug/L		102	70 - 130
trans-1,3-Dichloropropene	10.0	8.84		ug/L		88	70 - 132
Trichloroethene	10.0	9.55		ug/L		96	70 - 130
Trichlorofluoromethane	10.0	9.05		ug/L		91	60 - 150
Vinyl chloride	10.0	7.84		ug/L		78	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: 440-238715-L-2 MS
Matrix: Water
Analysis Batch: 542722

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		2500	2820		ug/L		113	60 - 149
1,1,1-Trichloroethane	ND		2500	2540		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	ND		2500	2260		ug/L		90	63 - 130
1,1,2-Trichloroethane	ND		2500	2180		ug/L		87	70 - 130
1,1-Dichloroethane	ND		2500	2610		ug/L		105	65 - 130
1,1-Dichloroethene	ND		2500	2790		ug/L		112	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238715-L-2 MS
Matrix: Water
Analysis Batch: 542722

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloropropene	ND		2500	2480		ug/L		99	64 - 130
1,2,3-Trichlorobenzene	ND		2500	2860		ug/L		115	60 - 140
1,2,3-Trichloropropane	ND		2500	2110	J	ug/L		84	60 - 130
1,2,4-Trichlorobenzene	ND		2500	2850		ug/L		114	60 - 140
1,2,4-Trimethylbenzene	ND		2500	2610		ug/L		104	70 - 130
1,2-Dibromo-3-Chloropropane	ND		2500	2170		ug/L		87	48 - 140
1,2-Dibromoethane (EDB)	ND		2500	2160		ug/L		87	70 - 131
1,2-Dichlorobenzene	ND		2500	2720		ug/L		109	70 - 130
1,2-Dichloroethane	ND		2500	2100		ug/L		84	56 - 146
1,2-Dichloropropane	ND		2500	2160		ug/L		86	69 - 130
1,3,5-Trimethylbenzene	ND		2500	2630		ug/L		105	70 - 130
1,3-Dichlorobenzene	ND		2500	2600		ug/L		104	70 - 130
1,3-Dichloropropane	ND		2500	2100		ug/L		84	70 - 130
1,4-Dichlorobenzene	ND		2500	2560		ug/L		103	70 - 130
2,2-Dichloropropane	ND		2500	2940		ug/L		117	69 - 138
2-Chlorotoluene	ND		2500	2540		ug/L		102	70 - 130
4-Chlorotoluene	ND		2500	2390		ug/L		95	70 - 130
Benzene	ND		2500	2420		ug/L		97	66 - 130
Bromobenzene	ND		2500	2440		ug/L		98	70 - 130
Bromochloromethane	ND		2500	2700		ug/L		108	70 - 130
Bromodichloromethane	ND		2500	2270		ug/L		91	70 - 138
Bromoform	ND		2500	2180		ug/L		87	59 - 150
Bromomethane	ND		2500	2560		ug/L		102	62 - 131
Carbon tetrachloride	ND		2500	2580		ug/L		103	60 - 150
Chlorobenzene	ND		2500	2410		ug/L		97	70 - 130
Chloroethane	ND		2500	2540		ug/L		102	68 - 130
Chloroform	440	J	2500	2960		ug/L		101	70 - 130
Chloromethane	ND		2500	2130		ug/L		85	39 - 144
cis-1,2-Dichloroethene	6600		2500	9300		ug/L		108	70 - 130
cis-1,3-Dichloropropene	ND		2500	2370		ug/L		95	70 - 133
Dibromochloromethane	ND		2500	2310		ug/L		92	70 - 148
Dibromomethane	ND		2500	2110		ug/L		84	70 - 130
Dichlorodifluoromethane	ND		2500	2620		ug/L		105	25 - 142
Ethylbenzene	ND		2500	2430		ug/L		97	70 - 130
Hexachlorobutadiene	ND		2500	2640		ug/L		106	10 - 150
Isopropylbenzene	ND		2500	2550		ug/L		102	70 - 132
m,p-Xylene	ND		2500	2540		ug/L		102	70 - 133
Methylene Chloride	ND		2500	2670		ug/L		107	52 - 130
Naphthalene	ND		2500	2500		ug/L		100	60 - 140
n-Butylbenzene	ND		2500	2650		ug/L		106	61 - 149
N-Propylbenzene	ND		2500	2480		ug/L		99	66 - 135
o-Xylene	ND		2500	2680		ug/L		107	70 - 133
p-Isopropyltoluene	ND		2500	2720		ug/L		109	70 - 130
sec-Butylbenzene	ND		2500	2580		ug/L		103	67 - 134
Styrene	ND		2500	2510		ug/L		100	29 - 150
tert-Butylbenzene	ND		2500	2520		ug/L		101	70 - 130
Tetrachloroethene	ND		2500	2650		ug/L		106	70 - 137
Toluene	ND		2500	2390		ug/L		96	70 - 130
trans-1,2-Dichloroethene	ND		2500	2820		ug/L		113	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238715-L-2 MS
Matrix: Water
Analysis Batch: 542722

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	ND		2500	2200		ug/L		88	70 - 138
Trichloroethene	8400		2500	11200		ug/L		110	70 - 130
Trichlorofluoromethane	ND		2500	2630		ug/L		105	60 - 150
Vinyl chloride	ND		2500	2320		ug/L		93	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: 440-238715-L-2 MSD
Matrix: Water
Analysis Batch: 542722

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		2500	2760		ug/L		110	60 - 149	2	20
1,1,1-Trichloroethane	ND		2500	2420		ug/L		97	70 - 130	5	20
1,1,2,2-Tetrachloroethane	ND		2500	2240		ug/L		90	63 - 130	1	30
1,1,2-Trichloroethane	ND		2500	2170		ug/L		87	70 - 130	0	25
1,1-Dichloroethane	ND		2500	2500		ug/L		100	65 - 130	5	20
1,1-Dichloroethene	ND		2500	2650		ug/L		106	70 - 130	5	20
1,1-Dichloropropene	ND		2500	2380		ug/L		95	64 - 130	4	20
1,2,3-Trichlorobenzene	ND		2500	2860		ug/L		114	60 - 140	0	20
1,2,3-Trichloropropane	ND		2500	2140	J	ug/L		86	60 - 130	2	30
1,2,4-Trichlorobenzene	ND		2500	2890		ug/L		115	60 - 140	1	20
1,2,4-Trimethylbenzene	ND		2500	2560		ug/L		102	70 - 130	2	25
1,2-Dibromo-3-Chloropropane	ND		2500	2130		ug/L		85	48 - 140	2	30
1,2-Dibromoethane (EDB)	ND		2500	2180		ug/L		87	70 - 131	1	25
1,2-Dichlorobenzene	ND		2500	2690		ug/L		107	70 - 130	1	20
1,2-Dichloroethane	ND		2500	2050		ug/L		82	56 - 146	2	20
1,2-Dichloropropane	ND		2500	2140		ug/L		86	69 - 130	1	20
1,3,5-Trimethylbenzene	ND		2500	2620		ug/L		105	70 - 130	1	20
1,3-Dichlorobenzene	ND		2500	2530		ug/L		101	70 - 130	3	20
1,3-Dichloropropane	ND		2500	2140		ug/L		86	70 - 130	2	25
1,4-Dichlorobenzene	ND		2500	2470		ug/L		99	70 - 130	4	20
2,2-Dichloropropane	ND		2500	2840		ug/L		114	69 - 138	3	25
2-Chlorotoluene	ND		2500	2520		ug/L		101	70 - 130	1	20
4-Chlorotoluene	ND		2500	2420		ug/L		97	70 - 130	2	20
Benzene	ND		2500	2350		ug/L		94	66 - 130	3	20
Bromobenzene	ND		2500	2480		ug/L		99	70 - 130	2	20
Bromochloromethane	ND		2500	2630		ug/L		105	70 - 130	3	25
Bromodichloromethane	ND		2500	2260		ug/L		90	70 - 138	1	20
Bromoform	ND		2500	2180		ug/L		87	59 - 150	0	25
Bromomethane	ND		2500	2520		ug/L		101	62 - 131	2	25
Carbon tetrachloride	ND		2500	2420		ug/L		97	60 - 150	7	25
Chlorobenzene	ND		2500	2370		ug/L		95	70 - 130	2	20
Chloroethane	ND		2500	2440		ug/L		97	68 - 130	4	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238715-L-2 MSD
Matrix: Water
Analysis Batch: 542722

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform	440	J	2500	2860		ug/L		97	70 - 130	3	20
Chloromethane	ND		2500	2040		ug/L		82	39 - 144	4	25
cis-1,2-Dichloroethene	6600		2500	8900		ug/L		92	70 - 130	4	20
cis-1,3-Dichloropropene	ND		2500	2380		ug/L		95	70 - 133	0	20
Dibromochloromethane	ND		2500	2370		ug/L		95	70 - 148	3	25
Dibromomethane	ND		2500	2120		ug/L		85	70 - 130	0	25
Dichlorodifluoromethane	ND		2500	2520		ug/L		101	25 - 142	4	30
Ethylbenzene	ND		2500	2400		ug/L		96	70 - 130	2	20
Hexachlorobutadiene	ND		2500	2600		ug/L		104	10 - 150	2	20
Isopropylbenzene	ND		2500	2480		ug/L		99	70 - 132	3	20
m,p-Xylene	ND		2500	2460		ug/L		99	70 - 133	3	25
Methylene Chloride	ND		2500	2560		ug/L		102	52 - 130	4	20
Naphthalene	ND		2500	2520		ug/L		101	60 - 140	1	30
n-Butylbenzene	ND		2500	2540		ug/L		101	61 - 149	4	20
N-Propylbenzene	ND		2500	2470		ug/L		99	66 - 135	1	20
o-Xylene	ND		2500	2590		ug/L		104	70 - 133	3	20
p-Isopropyltoluene	ND		2500	2660		ug/L		106	70 - 130	2	20
sec-Butylbenzene	ND		2500	2520		ug/L		101	67 - 134	2	20
Styrene	ND		2500	2440		ug/L		98	29 - 150	3	35
tert-Butylbenzene	ND		2500	2480		ug/L		99	70 - 130	1	20
Tetrachloroethene	ND		2500	2550		ug/L		102	70 - 137	4	20
Toluene	ND		2500	2370		ug/L		95	70 - 130	1	20
trans-1,2-Dichloroethene	ND		2500	2640		ug/L		106	70 - 130	7	20
trans-1,3-Dichloropropene	ND		2500	2240		ug/L		90	70 - 138	2	25
Trichloroethene	8400		2500	10700		ug/L		90	70 - 130	5	20
Trichlorofluoromethane	ND		2500	2500		ug/L		100	60 - 150	5	25
Vinyl chloride	ND		2500	2230		ug/L		89	50 - 137	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-541200/1-A
Matrix: Water
Analysis Batch: 541577

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 541200

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-Dichlorobenzil & 4,4'-Dichlorobenzil	ND		10	4.5	ug/L		04/18/19 12:42	04/20/19 12:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*40 - 120*	*04/18/19 12:42*	*04/20/19 12:25*	*1*
2-Fluorobiphenyl	*79*		*50 - 120*	*04/18/19 12:42*	*04/20/19 12:25*	*1*
2-Fluorophenol (Surr)	*75*		*30 - 120*	*04/18/19 12:42*	*04/20/19 12:25*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-541200/1-A
Matrix: Water
Analysis Batch: 541577

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 541200

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	78		45 - 120	04/18/19 12:42	04/20/19 12:25	1
Phenol-d6 (Surr)	77		35 - 120	04/18/19 12:42	04/20/19 12:25	1
Terphenyl-d14 (Surr)	93		10 - 150	04/18/19 12:42	04/20/19 12:25	1

Lab Sample ID: LCS 440-541200/2-A
Matrix: Water
Analysis Batch: 541577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 541200

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2'-Dichlorobenzil & 4,4'-Dichlorobenzil	100	75.8		ug/L		76	43 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	98		40 - 120
2-Fluorobiphenyl	79		50 - 120
2-Fluorophenol (Surr)	65		30 - 120
Nitrobenzene-d5 (Surr)	76		45 - 120
Phenol-d6 (Surr)	67		35 - 120
Terphenyl-d14 (Surr)	87		10 - 150

Lab Sample ID: LCSD 440-541200/3-A
Matrix: Water
Analysis Batch: 541577

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 541200

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,2'-Dichlorobenzil & 4,4'-Dichlorobenzil	100	79.1		ug/L		79	43 - 121	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	98		40 - 120
2-Fluorobiphenyl	84		50 - 120
2-Fluorophenol (Surr)	72		30 - 120
Nitrobenzene-d5 (Surr)	78		45 - 120
Phenol-d6 (Surr)	75		35 - 120
Terphenyl-d14 (Surr)	91		10 - 150

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-540366/1-A
Matrix: Water
Analysis Batch: 540610

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540366

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.0050	0.0015	ug/L		04/15/19 10:40	04/16/19 14:31	1
alpha-BHC	ND		0.0050	0.0025	ug/L		04/15/19 10:40	04/16/19 14:31	1
beta-BHC	ND		0.010	0.0040	ug/L		04/15/19 10:40	04/16/19 14:31	1
Chlordane	ND		0.10	0.080	ug/L		04/15/19 10:40	04/16/19 14:31	1
2,4'-DDD	ND		0.10	0.020	ug/L		04/15/19 10:40	04/16/19 14:31	1
4,4'-DDD	ND		0.10	0.0040	ug/L		04/15/19 10:40	04/16/19 14:31	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 440-540366/1-A
Matrix: Water
Analysis Batch: 540610

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540366

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDE	ND		0.10	0.020	ug/L		04/15/19 10:40	04/16/19 14:31	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/15/19 10:40	04/16/19 14:31	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/15/19 10:40	04/16/19 14:31	1
4,4'-DDT	ND		0.10	0.0040	ug/L		04/15/19 10:40	04/16/19 14:31	1
delta-BHC	ND		0.20	0.0035	ug/L		04/15/19 10:40	04/16/19 14:31	1
Dieldrin	ND		0.0050	0.0020	ug/L		04/15/19 10:40	04/16/19 14:31	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/15/19 10:40	04/16/19 14:31	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/15/19 10:40	04/16/19 14:31	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/15/19 10:40	04/16/19 14:31	1
Endrin	ND		0.10	0.0020	ug/L		04/15/19 10:40	04/16/19 14:31	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/15/19 10:40	04/16/19 14:31	1
Endrin ketone	ND		0.10	0.0070	ug/L		04/15/19 10:40	04/16/19 14:31	1
gamma-BHC (Lindane)	ND		0.10	0.0030	ug/L		04/15/19 10:40	04/16/19 14:31	1
Heptachlor	ND		0.010	0.0030	ug/L		04/15/19 10:40	04/16/19 14:31	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/15/19 10:40	04/16/19 14:31	1
Methoxychlor	ND		0.10	0.0035	ug/L		04/15/19 10:40	04/16/19 14:31	1
Toxaphene	ND		5.0	0.25	ug/L		04/15/19 10:40	04/16/19 14:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*28 - 108*	*04/15/19 10:40*	*04/16/19 14:31*	*1*
Tetrachloro-m-xylene	*52*		*10 - 123*	*04/15/19 10:40*	*04/16/19 14:31*	*1*

Lab Sample ID: LCS 440-540366/2-A
Matrix: Water
Analysis Batch: 540610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540366

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.250	0.137		ug/L		55	37 - 115
alpha-BHC	0.250	0.180		ug/L		72	44 - 115
beta-BHC	0.250	0.166		ug/L		66	46 - 121
2,4'-DDD	0.250	0.165		ug/L		66	10 - 150
4,4'-DDD	0.250	0.172		ug/L		69	50 - 128
2,4'-DDE	0.250	0.164		ug/L		66	10 - 150
4,4'-DDE	0.250	0.179		ug/L		72	49 - 121
2,4'-DDT	0.250	0.174		ug/L		69	10 - 150
4,4'-DDT	0.250	0.185		ug/L		74	41 - 140
delta-BHC	0.250	0.180	J	ug/L		72	32 - 129
Dieldrin	0.250	0.172		ug/L		69	39 - 126
Endosulfan I	0.250	0.174		ug/L		70	47 - 115
Endosulfan II	0.250	0.172		ug/L		69	47 - 120
Endosulfan sulfate	0.250	0.167	J	ug/L		67	48 - 126
Endrin	0.250	0.175		ug/L		70	43 - 127
Endrin aldehyde	0.250	0.159		ug/L		64	43 - 120
Endrin ketone	0.250	0.161		ug/L		64	47 - 123
gamma-BHC (Lindane)	0.250	0.176		ug/L		70	45 - 116
Heptachlor	0.250	0.169		ug/L		68	37 - 115
Heptachlor epoxide	0.250	0.171		ug/L		68	41 - 129
Methoxychlor	0.250	0.181		ug/L		72	44 - 141

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-540366/2-A
Matrix: Water
Analysis Batch: 540610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540366

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*64*		*28 - 108*
Tetrachloro-m-xylene	*52*		*10 - 123*

Lab Sample ID: 440-238680-G-5-A MS
Matrix: Water
Analysis Batch: 540610

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 540366

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	ND		0.243	0.133		ug/L		55	35 - 120
alpha-BHC	0.0074		0.243	0.168		ug/L		66	40 - 120
beta-BHC	0.0099	J	0.243	0.182		ug/L		71	50 - 120
2,4'-DDD	ND		0.243	0.186		ug/L		77	50 - 125
4,4'-DDD	ND		0.243	0.197		ug/L		81	50 - 125
2,4'-DDE	ND		0.243	0.173		ug/L		71	45 - 125
4,4'-DDE	ND		0.243	0.195		ug/L		80	45 - 125
2,4'-DDT	ND		0.243	0.193		ug/L		80	50 - 125
4,4'-DDT	ND		0.243	0.209		ug/L		86	50 - 125
delta-BHC	0.0041	J p	0.243	0.196		ug/L		79	50 - 120
Dieldrin	ND		0.243	0.188		ug/L		78	50 - 120
Endosulfan I	ND		0.243	0.185		ug/L		76	50 - 120
Endosulfan II	ND		0.243	0.193		ug/L		80	50 - 125
Endosulfan sulfate	ND		0.243	0.190		ug/L		78	55 - 125
Endrin	ND		0.243	0.193		ug/L		80	50 - 120
Endrin aldehyde	ND		0.243	0.179		ug/L		74	45 - 125
Endrin ketone	ND		0.243	0.181		ug/L		74	50 - 125
gamma-BHC (Lindane)	0.018	J	0.243	0.189		ug/L		70	40 - 120
Heptachlor	ND		0.243	0.202		ug/L		83	40 - 120
Heptachlor epoxide	ND		0.243	0.180		ug/L		74	50 - 120
Methoxychlor	ND		0.243	0.207		ug/L		85	55 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*74*		*28 - 108*
Tetrachloro-m-xylene	*47*		*10 - 123*

Lab Sample ID: 440-238680-G-5-B MSD
Matrix: Water
Analysis Batch: 540610

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 540366

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	ND		0.242	0.136		ug/L		56	35 - 120	2	30
alpha-BHC	0.0074		0.242	0.174		ug/L		69	40 - 120	3	30
beta-BHC	0.0099	J	0.242	0.185		ug/L		73	50 - 120	2	30
2,4'-DDD	ND		0.242	0.187		ug/L		77	50 - 125	0	30
4,4'-DDD	ND		0.242	0.198		ug/L		82	50 - 125	1	30
2,4'-DDE	ND		0.242	0.174		ug/L		72	45 - 125	0	30
4,4'-DDE	ND		0.242	0.196		ug/L		81	45 - 125	0	30
2,4'-DDT	ND		0.242	0.193		ug/L		80	50 - 125	0	30
4,4'-DDT	ND		0.242	0.211		ug/L		87	50 - 125	1	30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-238680-G-5-B MSD
Matrix: Water
Analysis Batch: 540610

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 540366

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
delta-BHC	0.0041	J p	0.242	0.200		ug/L		81	50 - 120	2	30
Dieldrin	ND		0.242	0.189		ug/L		78	50 - 120	0	30
Endosulfan I	ND		0.242	0.186		ug/L		77	50 - 120	1	30
Endosulfan II	ND		0.242	0.194		ug/L		80	50 - 125	0	30
Endosulfan sulfate	ND		0.242	0.191		ug/L		79	55 - 125	0	30
Endrin	ND		0.242	0.194		ug/L		80	50 - 120	1	30
Endrin aldehyde	ND		0.242	0.179		ug/L		74	45 - 125	0	30
Endrin ketone	ND		0.242	0.182		ug/L		75	50 - 125	1	30
gamma-BHC (Lindane)	0.018	J	0.242	0.195		ug/L		73	40 - 120	3	30
Heptachlor	ND		0.242	0.210		ug/L		87	40 - 120	4	30
Heptachlor epoxide	ND		0.242	0.182		ug/L		75	50 - 120	1	30
Methoxychlor	ND		0.242	0.209		ug/L		87	55 - 125	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*74*		*28 - 108*
Tetrachloro-m-xylene	*49*		*10 - 123*

QC Association Summary

Client: Montrose Chemical Company
Project/Site: Montrose Wells

Job ID: 440-238791-1
SDG: Henderson, NV

GC/MS VOA

Analysis Batch: 542646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238791-1	MW-1-201090412	Total/NA	Water	8260B	
MB 440-542646/4	Method Blank	Total/NA	Water	8260B	
LCS 440-542646/14	Lab Control Sample	Total/NA	Water	8260B	
440-238791-1 MS	MW-1-201090412	Total/NA	Water	8260B	
440-238791-1 MSD	MW-1-201090412	Total/NA	Water	8260B	

Analysis Batch: 542648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238791-2	MW-2-20190412	Total/NA	Water	8260B	
440-238791-2 - DL	MW-2-20190412	Total/NA	Water	8260B	
440-238791-3	MW-3-20190412	Total/NA	Water	8260B	
440-238791-3 - DL	MW-3-20190412	Total/NA	Water	8260B	
440-238791-4	MW-4-20190412	Total/NA	Water	8260B	
440-238791-4 - DL	MW-4-20190412	Total/NA	Water	8260B	
MB 440-542648/7	Method Blank	Total/NA	Water	8260B	
LCS 440-542648/5	Lab Control Sample	Total/NA	Water	8260B	
440-239073-A-6 MS	Matrix Spike	Total/NA	Water	8260B	
440-239073-B-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 542722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238791-1	MW-1-201090412	Total/NA	Water	8260B	
440-238791-5	TB-20190412	Total/NA	Water	8260B	
440-238791-6	PL-509-20190412	Total/NA	Water	8260B	
MB 440-542722/7	Method Blank	Total/NA	Water	8260B	
LCS 440-542722/5	Lab Control Sample	Total/NA	Water	8260B	
440-238715-L-2 MS	Matrix Spike	Total/NA	Water	8260B	
440-238715-L-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 541200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238791-1	MW-1-201090412	Total/NA	Water	3520C	
440-238791-2	MW-2-20190412	Total/NA	Water	3520C	
440-238791-3	MW-3-20190412	Total/NA	Water	3520C	
440-238791-4	MW-4-20190412	Total/NA	Water	3520C	
MB 440-541200/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-541200/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-541200/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 541577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238791-1	MW-1-201090412	Total/NA	Water	8270C	541200
440-238791-2	MW-2-20190412	Total/NA	Water	8270C	541200
440-238791-3	MW-3-20190412	Total/NA	Water	8270C	541200
440-238791-4	MW-4-20190412	Total/NA	Water	8270C	541200
MB 440-541200/1-A	Method Blank	Total/NA	Water	8270C	541200
LCS 440-541200/2-A	Lab Control Sample	Total/NA	Water	8270C	541200
LCSD 440-541200/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	541200

QC Association Summary

Client: Montrose Chemical Company
Project/Site: Montrose Wells

Job ID: 440-238791-1
SDG: Henderson, NV

GC Semi VOA

Prep Batch: 540366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238791-1	MW-1-201090412	Total/NA	Water	3510C	
440-238791-2	MW-2-20190412	Total/NA	Water	3510C	
440-238791-3	MW-3-20190412	Total/NA	Water	3510C	
440-238791-4	MW-4-20190412	Total/NA	Water	3510C	
MB 440-540366/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-540366/2-A	Lab Control Sample	Total/NA	Water	3510C	
440-238680-G-5-A MS	Matrix Spike	Total/NA	Water	3510C	
440-238680-G-5-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 540610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238791-1	MW-1-201090412	Total/NA	Water	8081A	540366
440-238791-2	MW-2-20190412	Total/NA	Water	8081A	540366
440-238791-3	MW-3-20190412	Total/NA	Water	8081A	540366
440-238791-4	MW-4-20190412	Total/NA	Water	8081A	540366
MB 440-540366/1-A	Method Blank	Total/NA	Water	8081A	540366
LCS 440-540366/2-A	Lab Control Sample	Total/NA	Water	8081A	540366
440-238680-G-5-A MS	Matrix Spike	Total/NA	Water	8081A	540366
440-238680-G-5-B MSD	Matrix Spike Duplicate	Total/NA	Water	8081A	540366

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Montrose Chemical Company
Project/Site: Montrose Wells

Job ID: 440-238791-1
SDG: Henderson, NV

Laboratory: Eurofins TestAmerica, Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Nevada	State Program	9	CA015312018-1	07-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8081A	3510C	Water	2,4'-DDD
8081A	3510C	Water	2,4'-DDE
8081A	3510C	Water	2,4'-DDT
8081A	3510C	Water	4,4'-DDD
8081A	3510C	Water	4,4'-DDE
8081A	3510C	Water	4,4'-DDT
8081A	3510C	Water	Aldrin
8081A	3510C	Water	alpha-BHC
8081A	3510C	Water	beta-BHC
8081A	3510C	Water	Chlordane
8081A	3510C	Water	delta-BHC
8081A	3510C	Water	Dieldrin
8081A	3510C	Water	Endosulfan I
8081A	3510C	Water	Endosulfan II
8081A	3510C	Water	Endosulfan sulfate
8081A	3510C	Water	Endrin
8081A	3510C	Water	Endrin aldehyde
8081A	3510C	Water	Endrin ketone
8081A	3510C	Water	gamma-BHC (Lindane)
8081A	3510C	Water	Heptachlor
8081A	3510C	Water	Heptachlor epoxide
8081A	3510C	Water	Methoxychlor
8081A	3510C	Water	Toxaphene
8260B		Water	Dimethyl disulfide
8270C	3520C	Water	2,2'-Dichlorobenzil & 4,4'-Dichlorobenzil

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone 949.261.1022 fax 949.260.3299

TestAmerica
Las Vegas
219

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Joe Kelly, Ed Modiano	Site Contact: Kevin Paprocki	Date: 4/12/19	COC No:
de maximis, Inc.	Tel/Fax: 619-546-8377	Lab Contact: Danielle Roberts	Carrier:	____ of ____ COCs
1322 Scott St., Suite 101	Analysis Turnaround Time			Job No. 89-43133-22
San Diego, CA 92106	Calendar (C) or Work Days (W)___ W___			SDG No.
(619) 546-8377 Phone	TAT if different from Below_____			
(619) 546-9980 Fax	☒ 2 weeks			
Project Name: Montrose	☐ 1 week			
Site: Henderson, NV	☐ 2 days			
PO#	☐ 1 day			

Sample Identification	Container Type	Sample Date	Sample Time	Preservation Type	Matrix	# of Containers	8260B-HEND-Qtrly	8081A – Pesticides	8270C – SVOC (4 4 Dichlorobenzil Only)						VOC concentration > 500 ppb	MS/MSD REQUIRED	LEVEL 2A REQUIRED	Sample Specific Notes:
MW-1-20190412	Various	4/12/19	1026	4°C	AQ	7	X	X	X						X		X	
MW-2-20190412	Various	4/12/19	0848	4°C	AQ	7	X	X	X						X		X	
MW-3-20190412	Various	4/12/19	0853	4°C	AQ	7	X	X	X						X		X	
MW-4-20190412	Various	4/12/19	1023	4°C	AQ	7	X	X	X						X		X	
TB-20190412	VOA	4/12/19	0640	4°C	AQ	3	X										X	
PL-509-20190412	VOA	4/12/19	1030	4°C	AQ	3	X										X	

440-238791 Chain of Custody

LB 4/13/19

[1] I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445 0636)
Signature: _____ Date _____

Preservation Used: 1= Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other_____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return to Client* ☐ Disposal by Lab Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Sample Int (circle one)
Intact: Y / N on ice: Y / N
temperature:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Converse	4/12/19 1305	JHM	TALVS	4-12-19 1310
JHM	TALVS	4/12/19 1600	[signature]	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
			[signature]	TALVS	4/13/19 1030

1.8/2.2 IR-893. C/S TALVS IR 96 2.9 / 3.2
TH: 4766 5637 0606

Login Sample Receipt Checklist

Client: Montrose Chemical Company

Job Number: 440-238791-1
SDG Number: Henderson, NV

Login Number: 238791
List Number: 1
Creator: Bonta, Lucia F

List Source: Eurofins TestAmerica, Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	Headspace larger than 1/4" in one or more vials, one vial with accpt. headspace
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

Laboratory Job ID: 440-238800-1
Laboratory Sample Delivery Group: Henderson, NV
Client Project/Site: 3200C Henderson Sitewide

For:
de maximis, inc.
1322 Scott Street, Suite 104
San Diego, California 92106

Attn: Nicole Bradley

Authorized for release by:
5/4/2019 6:29:49 AM

Danielle Roberts, Senior Project Manager
(949)260-3249
danielle.roberts@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 6
Client Sample Results 8
Surrogate Summary 21
Method Summary 22
Lab Chronicle 23
QC Sample Results 25
QC Association Summary 38
Definitions/Glossary 41
Certification Summary 42
Chain of Custody 43
Receipt Checklists 44

Sample Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238800-1
SDG: Henderson, NV

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-238800-1	TB-20190411	Water	04/11/19 06:45	04/12/19 10:30
440-238800-2	PL-508-20190411	Water	04/11/19 10:55	04/12/19 10:30
440-238800-3	MC-MW-35-20190411	Water	04/11/19 10:00	04/12/19 10:30
440-238800-4	MC-MW-32-20190411	Water	04/11/19 08:48	04/12/19 10:30
440-238800-5	AA-BW-03A-20190411	Water	04/11/19 10:40	04/12/19 10:30
440-238800-6	H-11-20190411	Water	04/11/19 08:53	04/12/19 10:30

Job ID: 440-238800-1

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative
440-238800-1

Comments
No additional comments.

Receipt
The samples were received on 4/12/2019 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8081A: The Tetrachloro-m-xylene surrogate recovery for the following samples was outside acceptance limits (high biased) on the primary column due to matrix interference: MC-MW-32-20190411 (440-238800-4). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6020: The method blank for preparation batch 440-540842 and analytical batch 440-541048 contained Barium and Chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 6020: The following samples were diluted due to the nature of the sample matrix: MC-MW-32-20190411 (440-238800-4) and AA-BW-03A-20190411 (440-238800-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 440-238800-2

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative
440-238800-2

Comments
No additional comments.

Receipt
The samples were received on 4/12/2019 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

HPLC/IC

Job ID: 440-238800-2 (Continued)

Laboratory: Eurofins TestAmerica, Irvine (Continued)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238800-1
SDG: Henderson, NV

Client Sample ID: TB-20190411 — Lab Sample ID: 440-238800-1

No Detections.

Client Sample ID: PL-508-20190411 — Lab Sample ID: 440-238800-2

No Detections.

Client Sample ID: MC-MW-35-20190411 — Lab Sample ID: 440-238800-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	35		0.20	0.10	ug/L	1		6020	Total Recoverable
Barium	57	B	0.20	0.10	ug/L	1		6020	Total Recoverable
Cadmium	0.22		0.10	0.050	ug/L	1		6020	Total Recoverable
Chromium	29	B	0.50	0.25	ug/L	1		6020	Total Recoverable
Lead	3.1		0.10	0.050	ug/L	1		6020	Total Recoverable
Selenium	2.6		0.60	0.30	ug/L	1		6020	Total Recoverable
Silver	0.13	J	0.20	0.10	ug/L	1		6020	Total Recoverable
Uranium	6.4		0.10	0.050	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	690		10	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MC-MW-32-20190411 — Lab Sample ID: 440-238800-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.3	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	1.0	J	2.0	0.25	ug/L	1		8260B	Total/NA
Benzene	0.47	J	2.0	0.25	ug/L	1		8260B	Total/NA
Chlorobenzene	1.3	J	2.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	1.2	J	2.0	0.25	ug/L	1		8260B	Total/NA
alpha-BHC	0.021	p	0.0049	0.0025	ug/L	1		8081A	Total/NA
beta-BHC	0.068	p	0.0098	0.0039	ug/L	1		8081A	Total/NA
delta-BHC	0.031	J p	0.20	0.0034	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.0082	J p	0.098	0.0029	ug/L	1		8081A	Total/NA
Perchlorate	27000		4000	950	ug/L	1000		314.0	Total/NA
Arsenic	24		2.0	1.0	ug/L	10		6020	Total Recoverable
Barium	46	B	2.0	1.0	ug/L	10		6020	Total Recoverable
Chromium	3.9	J B	5.0	2.5	ug/L	10		6020	Total Recoverable
Uranium	12		1.0	0.50	ug/L	10		6020	Total Recoverable
Total Dissolved Solids	6200		100	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: AA-BW-03A-20190411 — Lab Sample ID: 440-238800-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	4.7		4.0	0.50	ug/L	2		8260B	Total/NA
1,2-Dichlorobenzene	4.4		4.0	0.50	ug/L	2		8260B	Total/NA
1,2-Dichloroethane	2.9	J	4.0	0.50	ug/L	2		8260B	Total/NA
1,4-Dichlorobenzene	5.0		4.0	0.50	ug/L	2		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238800-1
SDG: Henderson, NV

Client Sample ID: AA-BW-03A-20190411 (Continued) — Lab Sample ID: 440-238800-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.3	J	4.0	0.50	ug/L	2		8260B	Total/NA
Chlorobenzene - DL	520		40	5.0	ug/L	20		8260B	Total/NA
alpha-BHC	0.18		0.0050	0.0025	ug/L	1		8081A	Total/NA
delta-BHC	0.010	J p	0.20	0.0035	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.020	J	0.10	0.0030	ug/L	1		8081A	Total/NA
Perchlorate	12000		4000	950	ug/L	1000		314.0	Total/NA
Arsenic	92		2.0	1.0	ug/L	10		6020	Total Recoverable
Barium	41	B	2.0	1.0	ug/L	10		6020	Total Recoverable
Uranium	47		1.0	0.50	ug/L	10		6020	Total Recoverable
Total Dissolved Solids	8000		100	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: H-11-20190411 — Lab Sample ID: 440-238800-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.35	J	2.0	0.25	ug/L	1		8260B	Total/NA
Perchlorate	12		4.0	0.95	ug/L	1		314.0	Total/NA
Arsenic	0.11	J	0.20	0.10	ug/L	1		6020	Total Recoverable
Barium	110	B	0.20	0.10	ug/L	1		6020	Total Recoverable
Chromium	0.61	B	0.50	0.25	ug/L	1		6020	Total Recoverable
Mercury	0.00026		0.00020	0.00010	mg/L	1		7470A	Total/NA
Total Dissolved Solids	1800		20	10	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238800-1
SDG: Henderson, NV

Client Sample ID: TB-20190411

Date Collected: 04/11/19 06:45
Date Received: 04/12/19 10:30

Lab Sample ID: 440-238800-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/25/19 02:03	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/25/19 02:03	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/25/19 02:03	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/25/19 02:03	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/25/19 02:03	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/25/19 02:03	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 02:03	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/25/19 02:03	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/25/19 02:03	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/25/19 02:03	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/25/19 02:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/25/19 02:03	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/25/19 02:03	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 02:03	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/25/19 02:03	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/25/19 02:03	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/25/19 02:03	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 02:03	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/25/19 02:03	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 02:03	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/25/19 02:03	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/25/19 02:03	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/25/19 02:03	1
Benzene	ND		2.0	0.25	ug/L			04/25/19 02:03	1
Bromobenzene	ND		5.0	0.25	ug/L			04/25/19 02:03	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/25/19 02:03	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/25/19 02:03	1
Bromoform	ND		5.0	0.40	ug/L			04/25/19 02:03	1
Bromomethane	ND		5.0	0.25	ug/L			04/25/19 02:03	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/25/19 02:03	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/25/19 02:03	1
Chloroethane	ND		5.0	0.40	ug/L			04/25/19 02:03	1
Chloroform	ND		2.0	0.25	ug/L			04/25/19 02:03	1
Chloromethane	ND		5.0	0.25	ug/L			04/25/19 02:03	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/25/19 02:03	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 02:03	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/25/19 02:03	1
Dibromomethane	ND		2.0	0.25	ug/L			04/25/19 02:03	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/25/19 02:03	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/25/19 02:03	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/25/19 02:03	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/25/19 02:03	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/25/19 02:03	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/25/19 02:03	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/25/19 02:03	1
Naphthalene	ND		5.0	0.40	ug/L			04/25/19 02:03	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/25/19 02:03	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/25/19 02:03	1
o-Xylene	ND		2.0	0.25	ug/L			04/25/19 02:03	1

Client Sample ID: TB-20190411

Lab Sample ID: 440-238800-1
Matrix: Water

Date Collected: 04/11/19 06:45
Date Received: 04/12/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/25/19 02:03	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/25/19 02:03	1
Styrene	ND		2.0	0.25	ug/L			04/25/19 02:03	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/25/19 02:03	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/25/19 02:03	1
Toluene	ND		2.0	0.25	ug/L			04/25/19 02:03	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/25/19 02:03	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 02:03	1
Trichloroethene	ND		2.0	0.25	ug/L			04/25/19 02:03	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/25/19 02:03	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/25/19 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*04/25/19 02:03*	*1*
Dibromofluoromethane (Surr)	*95*		*76 - 132*		*04/25/19 02:03*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*04/25/19 02:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/25/19 02:03*	*1*

Client Sample ID: PL-508-20190411

Lab Sample ID: 440-238800-2
Matrix: Water

Date Collected: 04/11/19 10:55
Date Received: 04/12/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/25/19 02:28	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/25/19 02:28	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/25/19 02:28	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/25/19 02:28	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/25/19 02:28	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/25/19 02:28	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 02:28	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/25/19 02:28	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/25/19 02:28	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/25/19 02:28	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/25/19 02:28	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/25/19 02:28	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/25/19 02:28	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 02:28	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/25/19 02:28	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/25/19 02:28	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/25/19 02:28	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 02:28	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/25/19 02:28	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 02:28	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/25/19 02:28	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/25/19 02:28	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/25/19 02:28	1
Benzene	ND		2.0	0.25	ug/L			04/25/19 02:28	1
Bromobenzene	ND		5.0	0.25	ug/L			04/25/19 02:28	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/25/19 02:28	1

Client Sample ID: PL-508-20190411

Lab Sample ID: 440-238800-2

Date Collected: 04/11/19 10:55
Matrix: Water
Date Received: 04/12/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		2.0	0.25	ug/L			04/25/19 02:28	1
Bromoform	ND		5.0	0.40	ug/L			04/25/19 02:28	1
Bromomethane	ND		5.0	0.25	ug/L			04/25/19 02:28	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/25/19 02:28	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/25/19 02:28	1
Chloroethane	ND		5.0	0.40	ug/L			04/25/19 02:28	1
Chloroform	ND		2.0	0.25	ug/L			04/25/19 02:28	1
Chloromethane	ND		5.0	0.25	ug/L			04/25/19 02:28	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/25/19 02:28	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 02:28	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/25/19 02:28	1
Dibromomethane	ND		2.0	0.25	ug/L			04/25/19 02:28	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/25/19 02:28	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/25/19 02:28	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/25/19 02:28	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/25/19 02:28	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/25/19 02:28	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/25/19 02:28	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/25/19 02:28	1
Naphthalene	ND		5.0	0.40	ug/L			04/25/19 02:28	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/25/19 02:28	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/25/19 02:28	1
o-Xylene	ND		2.0	0.25	ug/L			04/25/19 02:28	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/25/19 02:28	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/25/19 02:28	1
Styrene	ND		2.0	0.25	ug/L			04/25/19 02:28	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/25/19 02:28	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/25/19 02:28	1
Toluene	ND		2.0	0.25	ug/L			04/25/19 02:28	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/25/19 02:28	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 02:28	1
Trichloroethene	ND		2.0	0.25	ug/L			04/25/19 02:28	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/25/19 02:28	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/25/19 02:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*04/25/19 02:28*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*04/25/19 02:28*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*04/25/19 02:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*04/25/19 02:28*	*1*

Client Sample ID: MC-MW-35-20190411

Lab Sample ID: 440-238800-3

Date Collected: 04/11/19 10:00
Matrix: Water
Date Received: 04/12/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/25/19 02:52	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/25/19 02:52	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/25/19 02:52	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238800-1
SDG: Henderson, NV

Client Sample ID: MC-MW-35-20190411

Lab Sample ID: 440-238800-3

Date Collected: 04/11/19 10:00
Date Received: 04/12/19 10:30

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/25/19 02:52	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/25/19 02:52	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/25/19 02:52	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 02:52	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/25/19 02:52	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/25/19 02:52	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/25/19 02:52	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/25/19 02:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/25/19 02:52	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/25/19 02:52	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 02:52	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/25/19 02:52	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/25/19 02:52	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/25/19 02:52	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 02:52	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/25/19 02:52	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 02:52	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/25/19 02:52	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/25/19 02:52	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/25/19 02:52	1
Benzene	ND		2.0	0.25	ug/L			04/25/19 02:52	1
Bromobenzene	ND		5.0	0.25	ug/L			04/25/19 02:52	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/25/19 02:52	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/25/19 02:52	1
Bromoform	ND		5.0	0.40	ug/L			04/25/19 02:52	1
Bromomethane	ND		5.0	0.25	ug/L			04/25/19 02:52	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/25/19 02:52	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/25/19 02:52	1
Chloroethane	ND		5.0	0.40	ug/L			04/25/19 02:52	1
Chloroform	ND		2.0	0.25	ug/L			04/25/19 02:52	1
Chloromethane	ND		5.0	0.25	ug/L			04/25/19 02:52	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/25/19 02:52	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 02:52	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/25/19 02:52	1
Dibromomethane	ND		2.0	0.25	ug/L			04/25/19 02:52	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/25/19 02:52	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/25/19 02:52	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/25/19 02:52	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/25/19 02:52	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/25/19 02:52	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/25/19 02:52	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/25/19 02:52	1
Naphthalene	ND		5.0	0.40	ug/L			04/25/19 02:52	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/25/19 02:52	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/25/19 02:52	1
o-Xylene	ND		2.0	0.25	ug/L			04/25/19 02:52	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/25/19 02:52	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/25/19 02:52	1
Styrene	ND		2.0	0.25	ug/L			04/25/19 02:52	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238800-1
SDG: Henderson, NV

Client Sample ID: MC-MW-35-20190411

Lab Sample ID: 440-238800-3
Matrix: Water

Date Collected: 04/11/19 10:00
Date Received: 04/12/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/25/19 02:52	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/25/19 02:52	1
Toluene	ND		2.0	0.25	ug/L			04/25/19 02:52	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/25/19 02:52	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 02:52	1
Trichloroethene	ND		2.0	0.25	ug/L			04/25/19 02:52	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/25/19 02:52	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/25/19 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*04/25/19 02:52*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*04/25/19 02:52*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*04/25/19 02:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*04/25/19 02:52*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.096	0.019	ug/L		04/15/19 10:40	04/16/19 19:40	1
2,4'-DDE	ND		0.096	0.019	ug/L		04/15/19 10:40	04/16/19 19:40	1
2,4'-DDT	ND		0.096	0.019	ug/L		04/15/19 10:40	04/16/19 19:40	1
4,4'-DDD	ND		0.096	0.0038	ug/L		04/15/19 10:40	04/16/19 19:40	1
4,4'-DDE	ND		0.096	0.0029	ug/L		04/15/19 10:40	04/16/19 19:40	1
4,4'-DDT	ND		0.096	0.0038	ug/L		04/15/19 10:40	04/16/19 19:40	1
Aldrin	ND		0.0048	0.0014	ug/L		04/15/19 10:40	04/16/19 19:40	1
alpha-BHC	ND		0.0048	0.0024	ug/L		04/15/19 10:40	04/16/19 19:40	1
beta-BHC	ND		0.0096	0.0038	ug/L		04/15/19 10:40	04/16/19 19:40	1
Chlordane	ND		0.096	0.077	ug/L		04/15/19 10:40	04/16/19 19:40	1
delta-BHC	ND		0.19	0.0034	ug/L		04/15/19 10:40	04/16/19 19:40	1
Dieldrin	ND		0.0048	0.0019	ug/L		04/15/19 10:40	04/16/19 19:40	1
Endosulfan I	ND		0.096	0.0029	ug/L		04/15/19 10:40	04/16/19 19:40	1
Endosulfan II	ND		0.096	0.0019	ug/L		04/15/19 10:40	04/16/19 19:40	1
Endosulfan sulfate	ND		0.19	0.0029	ug/L		04/15/19 10:40	04/16/19 19:40	1
Endrin	ND		0.096	0.0019	ug/L		04/15/19 10:40	04/16/19 19:40	1
Endrin aldehyde	ND		0.096	0.0019	ug/L		04/15/19 10:40	04/16/19 19:40	1
Endrin ketone	ND		0.096	0.0067	ug/L		04/15/19 10:40	04/16/19 19:40	1
gamma-BHC (Lindane)	ND		0.096	0.0029	ug/L		04/15/19 10:40	04/16/19 19:40	1
Heptachlor	ND		0.0096	0.0029	ug/L		04/15/19 10:40	04/16/19 19:40	1
Heptachlor epoxide	ND		0.0048	0.0024	ug/L		04/15/19 10:40	04/16/19 19:40	1
Methoxychlor	ND		0.096	0.0034	ug/L		04/15/19 10:40	04/16/19 19:40	1
Toxaphene	ND		4.8	0.24	ug/L		04/15/19 10:40	04/16/19 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*28 - 108*	*04/15/19 10:40*	*04/16/19 19:40*	*1*
Tetrachloro-m-xylene	*47*		*10 - 123*	*04/15/19 10:40*	*04/16/19 19:40*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/24/19 12:53	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238800-1
SDG: Henderson, NV

Client Sample ID: MC-MW-35-20190411

Lab Sample ID: 440-238800-3
Matrix: Water

Date Collected: 04/11/19 10:00
Date Received: 04/12/19 10:30

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	35		0.20	0.10	ug/L		04/17/19 08:25	04/17/19 21:23	1
Barium	57	B	0.20	0.10	ug/L		04/17/19 08:25	04/17/19 21:23	1
Cadmium	0.22		0.10	0.050	ug/L		04/17/19 08:25	04/17/19 21:23	1
Chromium	29	B	0.50	0.25	ug/L		04/17/19 08:25	04/17/19 21:23	1
Lead	3.1		0.10	0.050	ug/L		04/17/19 08:25	04/17/19 21:23	1
Selenium	2.6		0.60	0.30	ug/L		04/17/19 08:25	04/17/19 21:23	1
Silver	0.13	J	0.20	0.10	ug/L		04/17/19 08:25	04/17/19 21:23	1
Uranium	6.4		0.10	0.050	ug/L		04/17/19 08:25	04/17/19 21:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/26/19 09:30	04/26/19 15:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	690		10	5.0	mg/L			04/17/19 08:48	1

Client Sample ID: MC-MW-32-20190411

Lab Sample ID: 440-238800-4
Matrix: Water

Date Collected: 04/11/19 08:48
Date Received: 04/12/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/25/19 03:17	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/25/19 03:17	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/25/19 03:17	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/25/19 03:17	1
1,1-Dichloroethane	1.3	J	2.0	0.25	ug/L			04/25/19 03:17	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/25/19 03:17	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 03:17	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/25/19 03:17	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/25/19 03:17	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/25/19 03:17	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/25/19 03:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/25/19 03:17	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/25/19 03:17	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 03:17	1
1,2-Dichloroethane	1.0	J	2.0	0.25	ug/L			04/25/19 03:17	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/25/19 03:17	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/25/19 03:17	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 03:17	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/25/19 03:17	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 03:17	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/25/19 03:17	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/25/19 03:17	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/25/19 03:17	1
Benzene	0.47	J	2.0	0.25	ug/L			04/25/19 03:17	1
Bromobenzene	ND		5.0	0.25	ug/L			04/25/19 03:17	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/25/19 03:17	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/25/19 03:17	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238800-1
SDG: Henderson, NV

Client Sample ID: MC-MW-32-20190411

Lab Sample ID: 440-238800-4
Date Collected: 04/11/19 08:48
Matrix: Water
Date Received: 04/12/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		5.0	0.40	ug/L			04/25/19 03:17	1
Bromomethane	ND		5.0	0.25	ug/L			04/25/19 03:17	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/25/19 03:17	1
Chlorobenzene	**1.3**	**J**	2.0	0.25	ug/L			04/25/19 03:17	1
Chloroethane	ND		5.0	0.40	ug/L			04/25/19 03:17	1
Chloroform	**1.2**	**J**	2.0	0.25	ug/L			04/25/19 03:17	1
Chloromethane	ND		5.0	0.25	ug/L			04/25/19 03:17	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/25/19 03:17	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 03:17	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/25/19 03:17	1
Dibromomethane	ND		2.0	0.25	ug/L			04/25/19 03:17	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/25/19 03:17	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/25/19 03:17	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/25/19 03:17	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/25/19 03:17	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/25/19 03:17	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/25/19 03:17	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/25/19 03:17	1
Naphthalene	ND		5.0	0.40	ug/L			04/25/19 03:17	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/25/19 03:17	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/25/19 03:17	1
o-Xylene	ND		2.0	0.25	ug/L			04/25/19 03:17	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/25/19 03:17	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/25/19 03:17	1
Styrene	ND		2.0	0.25	ug/L			04/25/19 03:17	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/25/19 03:17	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/25/19 03:17	1
Toluene	ND		2.0	0.25	ug/L			04/25/19 03:17	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/25/19 03:17	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 03:17	1
Trichloroethene	ND		2.0	0.25	ug/L			04/25/19 03:17	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/25/19 03:17	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/25/19 03:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*04/25/19 03:17*	*1*
Dibromofluoromethane (Surr)	*97*		*76 - 132*		*04/25/19 03:17*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*04/25/19 03:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*04/25/19 03:17*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.098	0.020	ug/L		04/15/19 10:40	04/16/19 20:06	1
2,4'-DDE	ND		0.098	0.020	ug/L		04/15/19 10:40	04/16/19 20:06	1
2,4'-DDT	ND		0.098	0.020	ug/L		04/15/19 10:40	04/16/19 20:06	1
4,4'-DDD	ND		0.098	0.0039	ug/L		04/15/19 10:40	04/16/19 20:06	1
4,4'-DDE	ND		0.098	0.0029	ug/L		04/15/19 10:40	04/16/19 20:06	1
4,4'-DDT	ND		0.098	0.0039	ug/L		04/15/19 10:40	04/16/19 20:06	1
Aldrin	ND		0.0049	0.0015	ug/L		04/15/19 10:40	04/16/19 20:06	1
alpha-BHC	**0.021**	**p**	0.0049	0.0025	ug/L		04/15/19 10:40	04/16/19 20:06	1

Client Sample ID: MC-MW-32-20190411

Lab Sample ID: 440-238800-4

Date Collected: 04/11/19 08:48
Matrix: Water
Date Received: 04/12/19 10:30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	**0.068**	**p**	0.0098	0.0039	ug/L		04/15/19 10:40	04/16/19 20:06	1
Chlordane	ND		0.098	0.078	ug/L		04/15/19 10:40	04/16/19 20:06	1
delta-BHC	**0.031**	**J p**	0.20	0.0034	ug/L		04/15/19 10:40	04/16/19 20:06	1
Dieldrin	ND		0.0049	0.0020	ug/L		04/15/19 10:40	04/16/19 20:06	1
Endosulfan I	ND		0.098	0.0029	ug/L		04/15/19 10:40	04/16/19 20:06	1
Endosulfan II	ND		0.098	0.0020	ug/L		04/15/19 10:40	04/16/19 20:06	1
Endosulfan sulfate	ND		0.20	0.0029	ug/L		04/15/19 10:40	04/16/19 20:06	1
Endrin	ND		0.098	0.0020	ug/L		04/15/19 10:40	04/16/19 20:06	1
Endrin aldehyde	ND		0.098	0.0020	ug/L		04/15/19 10:40	04/16/19 20:06	1
Endrin ketone	ND		0.098	0.0069	ug/L		04/15/19 10:40	04/16/19 20:06	1
gamma-BHC (Lindane)	**0.0082**	**J p**	0.098	0.0029	ug/L		04/15/19 10:40	04/16/19 20:06	1
Heptachlor	ND		0.0098	0.0029	ug/L		04/15/19 10:40	04/16/19 20:06	1
Heptachlor epoxide	ND		0.0049	0.0025	ug/L		04/15/19 10:40	04/16/19 20:06	1
Methoxychlor	ND		0.098	0.0034	ug/L		04/15/19 10:40	04/16/19 20:06	1
Toxaphene	ND		4.9	0.25	ug/L		04/15/19 10:40	04/16/19 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*30*		*28 - 108*	*04/15/19 10:40*	*04/16/19 20:06*	*1*
Tetrachloro-m-xylene	*377*	*X*	*10 - 123*	*04/15/19 10:40*	*04/16/19 20:06*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**27000**		4000	950	ug/L			04/24/19 19:18	1000

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**24**		2.0	1.0	ug/L		04/17/19 08:25	04/17/19 21:48	10
Barium	**46**	**B**	2.0	1.0	ug/L		04/17/19 08:25	04/17/19 21:48	10
Cadmium	ND		1.0	0.50	ug/L		04/17/19 08:25	04/17/19 21:48	10
Chromium	**3.9**	**J B**	5.0	2.5	ug/L		04/17/19 08:25	04/17/19 21:48	10
Lead	ND		1.0	0.50	ug/L		04/17/19 08:25	04/17/19 21:48	10
Selenium	ND		6.0	3.0	ug/L		04/17/19 08:25	04/17/19 21:48	10
Silver	ND		2.0	1.0	ug/L		04/17/19 08:25	04/17/19 21:48	10
Uranium	**12**		1.0	0.50	ug/L		04/17/19 08:25	04/17/19 21:48	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/26/19 09:30	04/26/19 15:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**6200**		100	50	mg/L			04/17/19 08:48	1

Client Sample ID: AA-BW-03A-20190411

Lab Sample ID: 440-238800-5

Date Collected: 04/11/19 10:40
Matrix: Water
Date Received: 04/12/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10	0.50	ug/L			04/25/19 03:41	2
1,1,1-Trichloroethane	ND		4.0	0.50	ug/L			04/25/19 03:41	2

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238800-1
SDG: Henderson, NV

Client Sample ID: AA-BW-03A-20190411

Lab Sample ID: 440-238800-5

Date Collected: 04/11/19 10:40
Date Received: 04/12/19 10:30

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.0	0.50	ug/L			04/25/19 03:41	2
1,1,2-Trichloroethane	ND		4.0	0.50	ug/L			04/25/19 03:41	2
1,1-Dichloroethane	**4.7**		4.0	0.50	ug/L			04/25/19 03:41	2
1,1-Dichloroethene	ND		10	0.50	ug/L			04/25/19 03:41	2
1,1-Dichloropropene	ND		4.0	0.50	ug/L			04/25/19 03:41	2
1,2,3-Trichlorobenzene	ND		10	0.80	ug/L			04/25/19 03:41	2
1,2,3-Trichloropropane	ND		20	0.50	ug/L			04/25/19 03:41	2
1,2,4-Trichlorobenzene	ND		10	0.80	ug/L			04/25/19 03:41	2
1,2,4-Trimethylbenzene	ND		4.0	0.50	ug/L			04/25/19 03:41	2
1,2-Dibromo-3-Chloropropane	ND		10	1.0	ug/L			04/25/19 03:41	2
1,2-Dibromoethane (EDB)	ND		4.0	0.50	ug/L			04/25/19 03:41	2
1,2-Dichlorobenzene	**4.4**		4.0	0.50	ug/L			04/25/19 03:41	2
1,2-Dichloroethane	**2.9**	**J**	4.0	0.50	ug/L			04/25/19 03:41	2
1,2-Dichloropropane	ND		4.0	0.50	ug/L			04/25/19 03:41	2
1,3,5-Trimethylbenzene	ND		4.0	0.50	ug/L			04/25/19 03:41	2
1,3-Dichlorobenzene	ND		4.0	0.50	ug/L			04/25/19 03:41	2
1,3-Dichloropropane	ND		4.0	0.50	ug/L			04/25/19 03:41	2
1,4-Dichlorobenzene	**5.0**		4.0	0.50	ug/L			04/25/19 03:41	2
2,2-Dichloropropane	ND		4.0	0.80	ug/L			04/25/19 03:41	2
2-Chlorotoluene	ND		10	0.50	ug/L			04/25/19 03:41	2
4-Chlorotoluene	ND		10	0.50	ug/L			04/25/19 03:41	2
Benzene	**1.3**	**J**	4.0	0.50	ug/L			04/25/19 03:41	2
Bromobenzene	ND		10	0.50	ug/L			04/25/19 03:41	2
Bromochloromethane	ND		10	0.50	ug/L			04/25/19 03:41	2
Bromodichloromethane	ND		4.0	0.50	ug/L			04/25/19 03:41	2
Bromoform	ND		10	0.80	ug/L			04/25/19 03:41	2
Bromomethane	ND		10	0.50	ug/L			04/25/19 03:41	2
Carbon tetrachloride	ND		2.0	0.50	ug/L			04/25/19 03:41	2
Chloroethane	ND		10	0.80	ug/L			04/25/19 03:41	2
Chloroform	ND		4.0	0.50	ug/L			04/25/19 03:41	2
Chloromethane	ND		10	0.50	ug/L			04/25/19 03:41	2
cis-1,2-Dichloroethene	ND		4.0	0.50	ug/L			04/25/19 03:41	2
cis-1,3-Dichloropropene	ND		4.0	0.50	ug/L			04/25/19 03:41	2
Dibromochloromethane	ND		4.0	0.50	ug/L			04/25/19 03:41	2
Dibromomethane	ND		4.0	0.50	ug/L			04/25/19 03:41	2
Dichlorodifluoromethane	ND		10	0.50	ug/L			04/25/19 03:41	2
Dimethyl disulfide	ND		4.0	2.0	ug/L			04/25/19 03:41	2
Ethylbenzene	ND		4.0	0.50	ug/L			04/25/19 03:41	2
Hexachlorobutadiene	ND		10	0.50	ug/L			04/25/19 03:41	2
Isopropylbenzene	ND		4.0	0.50	ug/L			04/25/19 03:41	2
m,p-Xylene	ND		4.0	1.0	ug/L			04/25/19 03:41	2
Methylene Chloride	ND		4.0	2.2	ug/L			04/25/19 03:41	2
Naphthalene	ND		10	0.80	ug/L			04/25/19 03:41	2
n-Butylbenzene	ND		10	0.80	ug/L			04/25/19 03:41	2
N-Propylbenzene	ND		4.0	0.50	ug/L			04/25/19 03:41	2
o-Xylene	ND		4.0	0.50	ug/L			04/25/19 03:41	2
p-Isopropyltoluene	ND		4.0	0.50	ug/L			04/25/19 03:41	2
sec-Butylbenzene	ND		10	0.50	ug/L			04/25/19 03:41	2
Styrene	ND		4.0	0.50	ug/L			04/25/19 03:41	2

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238800-1
SDG: Henderson, NV

Client Sample ID: AA-BW-03A-20190411

Lab Sample ID: 440-238800-5

Date Collected: 04/11/19 10:40
Date Received: 04/12/19 10:30

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		10	0.50	ug/L			04/25/19 03:41	2
Tetrachloroethene	ND		4.0	0.50	ug/L			04/25/19 03:41	2
Toluene	ND		4.0	0.50	ug/L			04/25/19 03:41	2
trans-1,2-Dichloroethene	ND		4.0	0.50	ug/L			04/25/19 03:41	2
trans-1,3-Dichloropropene	ND		4.0	0.50	ug/L			04/25/19 03:41	2
Trichloroethene	ND		4.0	0.50	ug/L			04/25/19 03:41	2
Trichlorofluoromethane	ND		10	0.50	ug/L			04/25/19 03:41	2
Vinyl chloride	ND		10	0.50	ug/L			04/25/19 03:41	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*04/25/19 03:41*	*2*
Dibromofluoromethane (Surr)	*94*		*76 - 132*		*04/25/19 03:41*	*2*
Toluene-d8 (Surr)	*99*		*80 - 128*		*04/25/19 03:41*	*2*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/25/19 03:41*	*2*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**520**		40	5.0	ug/L			04/25/19 04:06	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*04/25/19 04:06*	*20*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*04/25/19 04:06*	*20*
Toluene-d8 (Surr)	*100*		*80 - 128*		*04/25/19 04:06*	*20*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*04/25/19 04:06*	*20*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/15/19 10:40	04/16/19 20:32	1
2,4'-DDE	ND		0.10	0.020	ug/L		04/15/19 10:40	04/16/19 20:32	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/15/19 10:40	04/16/19 20:32	1
4,4'-DDD	ND		0.10	0.0040	ug/L		04/15/19 10:40	04/16/19 20:32	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/15/19 10:40	04/16/19 20:32	1
4,4'-DDT	ND		0.10	0.0040	ug/L		04/15/19 10:40	04/16/19 20:32	1
Aldrin	ND		0.0050	0.0015	ug/L		04/15/19 10:40	04/16/19 20:32	1
alpha-BHC	**0.18**		0.0050	0.0025	ug/L		04/15/19 10:40	04/16/19 20:32	1
beta-BHC	ND		0.010	0.0040	ug/L		04/15/19 10:40	04/16/19 20:32	1
Chlordane	ND		0.10	0.080	ug/L		04/15/19 10:40	04/16/19 20:32	1
delta-BHC	**0.010**	**J p**	0.20	0.0035	ug/L		04/15/19 10:40	04/16/19 20:32	1
Dieldrin	ND		0.0050	0.0020	ug/L		04/15/19 10:40	04/16/19 20:32	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/15/19 10:40	04/16/19 20:32	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/15/19 10:40	04/16/19 20:32	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/15/19 10:40	04/16/19 20:32	1
Endrin	ND		0.10	0.0020	ug/L		04/15/19 10:40	04/16/19 20:32	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/15/19 10:40	04/16/19 20:32	1
Endrin ketone	ND		0.10	0.0070	ug/L		04/15/19 10:40	04/16/19 20:32	1
gamma-BHC (Lindane)	**0.020**	**J**	0.10	0.0030	ug/L		04/15/19 10:40	04/16/19 20:32	1
Heptachlor	ND		0.010	0.0030	ug/L		04/15/19 10:40	04/16/19 20:32	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/15/19 10:40	04/16/19 20:32	1
Methoxychlor	ND		0.10	0.0035	ug/L		04/15/19 10:40	04/16/19 20:32	1
Toxaphene	ND		5.0	0.25	ug/L		04/15/19 10:40	04/16/19 20:32	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238800-1
SDG: Henderson, NV

Client Sample ID: AA-BW-03A-20190411

Lab Sample ID: 440-238800-5
Matrix: Water

Date Collected: 04/11/19 10:40
Date Received: 04/12/19 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*28 - 108*	*04/15/19 10:40*	*04/16/19 20:32*	*1*
Tetrachloro-m-xylene	*54*		*10 - 123*	*04/15/19 10:40*	*04/16/19 20:32*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**12000**		4000	950	ug/L			04/24/19 16:57	1000

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**92**		2.0	1.0	ug/L		04/17/19 08:25	04/17/19 21:51	10
Barium	**41**	**B**	2.0	1.0	ug/L		04/17/19 08:25	04/17/19 21:51	10
Cadmium	ND		1.0	0.50	ug/L		04/17/19 08:25	04/17/19 21:51	10
Chromium	ND		5.0	2.5	ug/L		04/17/19 08:25	04/17/19 21:51	10
Lead	ND		1.0	0.50	ug/L		04/17/19 08:25	04/17/19 21:51	10
Selenium	ND		6.0	3.0	ug/L		04/17/19 08:25	04/17/19 21:51	10
Silver	ND		2.0	1.0	ug/L		04/17/19 08:25	04/17/19 21:51	10
Uranium	**47**		1.0	0.50	ug/L		04/17/19 08:25	04/17/19 21:51	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/26/19 09:30	04/26/19 15:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**8000**		100	50	mg/L			04/17/19 08:48	1

Client Sample ID: H-11-20190411

Lab Sample ID: 440-238800-6
Matrix: Water

Date Collected: 04/11/19 08:53
Date Received: 04/12/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/25/19 04:30	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/25/19 04:30	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/25/19 04:30	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/25/19 04:30	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/25/19 04:30	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/25/19 04:30	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 04:30	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/25/19 04:30	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/25/19 04:30	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/25/19 04:30	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/25/19 04:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/25/19 04:30	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/25/19 04:30	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 04:30	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/25/19 04:30	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/25/19 04:30	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/25/19 04:30	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 04:30	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/25/19 04:30	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238800-1
SDG: Henderson, NV

Client Sample ID: H-11-20190411

Date Collected: 04/11/19 08:53
Date Received: 04/12/19 10:30

Lab Sample ID: 440-238800-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 04:30	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/25/19 04:30	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/25/19 04:30	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/25/19 04:30	1
Benzene	ND		2.0	0.25	ug/L			04/25/19 04:30	1
Bromobenzene	ND		5.0	0.25	ug/L			04/25/19 04:30	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/25/19 04:30	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/25/19 04:30	1
Bromoform	ND		5.0	0.40	ug/L			04/25/19 04:30	1
Bromomethane	ND		5.0	0.25	ug/L			04/25/19 04:30	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/25/19 04:30	1
Chlorobenzene	**0.35**	**J**	2.0	0.25	ug/L			04/25/19 04:30	1
Chloroethane	ND		5.0	0.40	ug/L			04/25/19 04:30	1
Chloroform	ND		2.0	0.25	ug/L			04/25/19 04:30	1
Chloromethane	ND		5.0	0.25	ug/L			04/25/19 04:30	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/25/19 04:30	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 04:30	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/25/19 04:30	1
Dibromomethane	ND		2.0	0.25	ug/L			04/25/19 04:30	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/25/19 04:30	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/25/19 04:30	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/25/19 04:30	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/25/19 04:30	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/25/19 04:30	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/25/19 04:30	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/25/19 04:30	1
Naphthalene	ND		5.0	0.40	ug/L			04/25/19 04:30	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/25/19 04:30	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/25/19 04:30	1
o-Xylene	ND		2.0	0.25	ug/L			04/25/19 04:30	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/25/19 04:30	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/25/19 04:30	1
Styrene	ND		2.0	0.25	ug/L			04/25/19 04:30	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/25/19 04:30	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/25/19 04:30	1
Toluene	ND		2.0	0.25	ug/L			04/25/19 04:30	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/25/19 04:30	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 04:30	1
Trichloroethene	ND		2.0	0.25	ug/L			04/25/19 04:30	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/25/19 04:30	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/25/19 04:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*04/25/19 04:30*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*04/25/19 04:30*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*04/25/19 04:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*04/25/19 04:30*	*1*

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238800-1
SDG: Henderson, NV

Client Sample ID: H-11-20190411

Date Collected: 04/11/19 08:53
Date Received: 04/12/19 10:30

Lab Sample ID: 440-238800-6

Matrix: Water

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.021	ug/L		04/15/19 10:40	04/16/19 20:57	1
2,4'-DDE	ND		0.10	0.021	ug/L		04/15/19 10:40	04/16/19 20:57	1
2,4'-DDT	ND		0.10	0.021	ug/L		04/15/19 10:40	04/16/19 20:57	1
4,4'-DDD	ND		0.10	0.0041	ug/L		04/15/19 10:40	04/16/19 20:57	1
4,4'-DDE	ND		0.10	0.0031	ug/L		04/15/19 10:40	04/16/19 20:57	1
4,4'-DDT	ND		0.10	0.0041	ug/L		04/15/19 10:40	04/16/19 20:57	1
Aldrin	ND		0.0051	0.0015	ug/L		04/15/19 10:40	04/16/19 20:57	1
alpha-BHC	ND		0.0051	0.0026	ug/L		04/15/19 10:40	04/16/19 20:57	1
beta-BHC	ND		0.010	0.0041	ug/L		04/15/19 10:40	04/16/19 20:57	1
Chlordane	ND		0.10	0.082	ug/L		04/15/19 10:40	04/16/19 20:57	1
delta-BHC	ND		0.21	0.0036	ug/L		04/15/19 10:40	04/16/19 20:57	1
Dieldrin	ND		0.0051	0.0021	ug/L		04/15/19 10:40	04/16/19 20:57	1
Endosulfan I	ND		0.10	0.0031	ug/L		04/15/19 10:40	04/16/19 20:57	1
Endosulfan II	ND		0.10	0.0021	ug/L		04/15/19 10:40	04/16/19 20:57	1
Endosulfan sulfate	ND		0.21	0.0031	ug/L		04/15/19 10:40	04/16/19 20:57	1
Endrin	ND		0.10	0.0021	ug/L		04/15/19 10:40	04/16/19 20:57	1
Endrin aldehyde	ND		0.10	0.0021	ug/L		04/15/19 10:40	04/16/19 20:57	1
Endrin ketone	ND		0.10	0.0072	ug/L		04/15/19 10:40	04/16/19 20:57	1
gamma-BHC (Lindane)	ND		0.10	0.0031	ug/L		04/15/19 10:40	04/16/19 20:57	1
Heptachlor	ND		0.010	0.0031	ug/L		04/15/19 10:40	04/16/19 20:57	1
Heptachlor epoxide	ND		0.0051	0.0026	ug/L		04/15/19 10:40	04/16/19 20:57	1
Methoxychlor	ND		0.10	0.0036	ug/L		04/15/19 10:40	04/16/19 20:57	1
Toxaphene	ND		5.1	0.26	ug/L		04/15/19 10:40	04/16/19 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*49*		*28 - 108*	*04/15/19 10:40*	*04/16/19 20:57*	*1*
Tetrachloro-m-xylene	*45*		*10 - 123*	*04/15/19 10:40*	*04/16/19 20:57*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**12**		4.0	0.95	ug/L			04/24/19 19:00	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.11**	**J**	0.20	0.10	ug/L		04/17/19 08:25	04/17/19 21:53	1
Barium	**110**	**B**	0.20	0.10	ug/L		04/17/19 08:25	04/17/19 21:53	1
Cadmium	ND		0.10	0.050	ug/L		04/17/19 08:25	04/17/19 21:53	1
Chromium	**0.61**	**B**	0.50	0.25	ug/L		04/17/19 08:25	04/17/19 21:53	1
Lead	ND		0.10	0.050	ug/L		04/17/19 08:25	04/17/19 21:53	1
Selenium	ND		0.60	0.30	ug/L		04/17/19 08:25	04/17/19 21:53	1
Silver	ND		0.20	0.10	ug/L		04/17/19 08:25	04/17/19 21:53	1
Uranium	ND		0.10	0.050	ug/L		04/17/19 08:25	04/17/19 21:53	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00026**		0.00020	0.00010	mg/L		04/26/19 09:30	04/26/19 15:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1800**		20	10	mg/L			04/17/19 08:48	1

Surrogate Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238800-1
SDG: Henderson, NV

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	TOL	DCA
Lab Sample ID	Client Sample ID	(80-120)	(76-132)	(80-128)	(70-130)
440-238528-A-1 MS	Matrix Spike	102	92	100	97
440-238528-A-1 MSD	Matrix Spike Duplicate	105	96	99	94
440-238800-1	TB-20190411	105	95	103	99
440-238800-2	PL-508-20190411	107	98	104	96
440-238800-3	MC-MW-35-20190411	106	98	101	100
440-238800-4	MC-MW-32-20190411	103	97	100	97
440-238800-5	AA-BW-03A-20190411	106	94	99	99
440-238800-5 - DL	AA-BW-03A-20190411	105	99	100	103
440-238800-6	H-11-20190411	104	98	102	100
LCS 440-542381/6	Lab Control Sample	106	96	100	102
MB 440-542381/4	Method Blank	102	96	103	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(28-108)	(10-123)
440-238680-G-5-A MS	Matrix Spike	74	47
440-238680-G-5-B MSD	Matrix Spike Duplicate	74	49
440-238800-3	MC-MW-35-20190411	64	47
440-238800-4	MC-MW-32-20190411	30	377 X
440-238800-5	AA-BW-03A-20190411	64	54
440-238800-6	H-11-20190411	49	45
LCS 440-540366/2-A	Lab Control Sample	64	52
MB 440-540366/1-A	Method Blank	71	52

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238800-1
SDG: Henderson, NV

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
314.0	Perchlorate (IC)	EPA	TAL IRV
6020	Metals (ICP/MS)	SW846	TAL IRV
7470A	Mercury (CVAA)	SW846	TAL IRV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL IRV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238800-1
SDG: Henderson, NV

Client Sample ID: TB-20190411 — Lab Sample ID: 440-238800-1

Date Collected: 04/11/19 06:45 — **Matrix: Water**
Date Received: 04/12/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542381	04/25/19 02:03	OH1	TAL IRV

Client Sample ID: PL-508-20190411 — Lab Sample ID: 440-238800-2

Date Collected: 04/11/19 10:55 — **Matrix: Water**
Date Received: 04/12/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542381	04/25/19 02:28	OH1	TAL IRV

Client Sample ID: MC-MW-35-20190411 — Lab Sample ID: 440-238800-3

Date Collected: 04/11/19 10:00 — **Matrix: Water**
Date Received: 04/12/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542381	04/25/19 02:52	OH1	TAL IRV
Total/NA	Prep	3510C			1040 mL	2 mL	540366	04/15/19 10:40	HCK	TAL IRV
Total/NA	Analysis	8081A		1			540610	04/16/19 19:40	D1D	TAL IRV
Total/NA	Analysis	314.0		1			542206	04/24/19 12:53	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	540842	04/17/19 08:25	BV	TAL IRV
Total Recoverable	Analysis	6020		1			541048	04/17/19 21:23	P1R	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542335	04/26/19 09:30	KE	TAL IRV
Total/NA	Analysis	7470A		1			542977	04/26/19 15:37	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	540849	04/17/19 08:48	XL	TAL IRV

Client Sample ID: MC-MW-32-20190411 — Lab Sample ID: 440-238800-4

Date Collected: 04/11/19 08:48 — **Matrix: Water**
Date Received: 04/12/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542381	04/25/19 03:17	OH1	TAL IRV
Total/NA	Prep	3510C			1020 mL	2 mL	540366	04/15/19 10:40	HCK	TAL IRV
Total/NA	Analysis	8081A		1			540610	04/16/19 20:06	D1D	TAL IRV
Total/NA	Analysis	314.0		1000			542206	04/24/19 19:18	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	540842	04/17/19 08:25	BV	TAL IRV
Total Recoverable	Analysis	6020		10			541048	04/17/19 21:48	P1R	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542335	04/26/19 09:30	KE	TAL IRV
Total/NA	Analysis	7470A		1			542977	04/26/19 15:39	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	540849	04/17/19 08:48	XL	TAL IRV

Client Sample ID: AA-BW-03A-20190411 — Lab Sample ID: 440-238800-5

Date Collected: 04/11/19 10:40 — **Matrix: Water**
Date Received: 04/12/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	10 mL	10 mL	542381	04/25/19 03:41	OH1	TAL IRV

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238800-1
SDG: Henderson, NV

Client Sample ID: AA-BW-03A-20190411

Lab Sample ID: 440-238800-5

Date Collected: 04/11/19 10:40
Matrix: Water
Date Received: 04/12/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	20	10 mL	10 mL	542381	04/25/19 04:06	OH1	TAL IRV
Total/NA	Prep	3510C			1005 mL	2 mL	540366	04/15/19 10:40	HCK	TAL IRV
Total/NA	Analysis	8081A		1			540610	04/16/19 20:32	D1D	TAL IRV
Total/NA	Analysis	314.0		1000			542285	04/24/19 16:57	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	540842	04/17/19 08:25	BV	TAL IRV
Total Recoverable	Analysis	6020		10			541048	04/17/19 21:51	P1R	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542335	04/26/19 09:30	KE	TAL IRV
Total/NA	Analysis	7470A		1			542977	04/26/19 15:41	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	540849	04/17/19 08:48	XL	TAL IRV

Client Sample ID: H-11-20190411

Lab Sample ID: 440-238800-6

Date Collected: 04/11/19 08:53
Matrix: Water
Date Received: 04/12/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542381	04/25/19 04:30	OH1	TAL IRV
Total/NA	Prep	3510C			975 mL	2 mL	540366	04/15/19 10:40	HCK	TAL IRV
Total/NA	Analysis	8081A		1			540610	04/16/19 20:57	D1D	TAL IRV
Total/NA	Analysis	314.0		1			542206	04/24/19 19:00	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	540842	04/17/19 08:25	BV	TAL IRV
Total Recoverable	Analysis	6020		1			541048	04/17/19 21:53	P1R	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542335	04/26/19 09:30	KE	TAL IRV
Total/NA	Analysis	7470A		1			542977	04/26/19 15:43	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	540849	04/17/19 08:48	XL	TAL IRV

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-542381/4
Matrix: Water
Analysis Batch: 542381

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/24/19 20:21	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/24/19 20:21	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/24/19 20:21	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/24/19 20:21	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/24/19 20:21	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/24/19 20:21	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/24/19 20:21	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/24/19 20:21	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/24/19 20:21	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/24/19 20:21	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/24/19 20:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/24/19 20:21	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/24/19 20:21	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/24/19 20:21	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/24/19 20:21	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/24/19 20:21	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/24/19 20:21	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/24/19 20:21	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/24/19 20:21	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/24/19 20:21	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/24/19 20:21	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/24/19 20:21	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/24/19 20:21	1
Benzene	ND		2.0	0.25	ug/L			04/24/19 20:21	1
Bromobenzene	ND		5.0	0.25	ug/L			04/24/19 20:21	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/24/19 20:21	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/24/19 20:21	1
Bromoform	ND		5.0	0.40	ug/L			04/24/19 20:21	1
Bromomethane	ND		5.0	0.25	ug/L			04/24/19 20:21	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/24/19 20:21	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/24/19 20:21	1
Chloroethane	ND		5.0	0.40	ug/L			04/24/19 20:21	1
Chloroform	ND		2.0	0.25	ug/L			04/24/19 20:21	1
Chloromethane	ND		5.0	0.25	ug/L			04/24/19 20:21	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/24/19 20:21	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/24/19 20:21	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/24/19 20:21	1
Dibromomethane	ND		2.0	0.25	ug/L			04/24/19 20:21	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/24/19 20:21	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/24/19 20:21	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/24/19 20:21	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/24/19 20:21	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/24/19 20:21	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/24/19 20:21	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/24/19 20:21	1
Naphthalene	ND		5.0	0.40	ug/L			04/24/19 20:21	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/24/19 20:21	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/24/19 20:21	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-542381/4
Matrix: Water
Analysis Batch: 542381

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.25	ug/L			04/24/19 20:21	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/24/19 20:21	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/24/19 20:21	1
Styrene	ND		2.0	0.25	ug/L			04/24/19 20:21	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/24/19 20:21	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/24/19 20:21	1
Toluene	ND		2.0	0.25	ug/L			04/24/19 20:21	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/24/19 20:21	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/24/19 20:21	1
Trichloroethene	ND		2.0	0.25	ug/L			04/24/19 20:21	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/24/19 20:21	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/24/19 20:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*04/24/19 20:21*	*1*
Dibromofluoromethane (Surr)	*96*		*76 - 132*		*04/24/19 20:21*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*04/24/19 20:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/24/19 20:21*	*1*

Lab Sample ID: LCS 440-542381/6
Matrix: Water
Analysis Batch: 542381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	10.1		ug/L		101	60 - 141
1,1,1-Trichloroethane	10.0	8.74		ug/L		87	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.88		ug/L		99	63 - 130
1,1,2-Trichloroethane	10.0	10.6		ug/L		106	70 - 130
1,1-Dichloroethane	10.0	8.76		ug/L		88	64 - 130
1,1-Dichloroethene	10.0	8.32		ug/L		83	70 - 130
1,1-Dichloropropene	10.0	8.67		ug/L		87	70 - 130
1,2,3-Trichlorobenzene	10.0	8.90		ug/L		89	60 - 140
1,2,3-Trichloropropane	10.0	10.3		ug/L		103	63 - 130
1,2,4-Trichlorobenzene	10.0	8.51		ug/L		85	60 - 140
1,2,4-Trimethylbenzene	10.0	9.61		ug/L		96	70 - 135
1,2-Dibromo-3-Chloropropane	10.0	8.65		ug/L		86	52 - 140
1,2-Dibromoethane (EDB)	10.0	9.94		ug/L		99	70 - 130
1,2-Dichlorobenzene	10.0	9.63		ug/L		96	70 - 130
1,2-Dichloroethane	10.0	9.31		ug/L		93	57 - 138
1,2-Dichloropropane	10.0	9.59		ug/L		96	67 - 130
1,3,5-Trimethylbenzene	10.0	9.66		ug/L		97	70 - 136
1,3-Dichlorobenzene	10.0	9.88		ug/L		99	70 - 130
1,3-Dichloropropane	10.0	9.99		ug/L		100	70 - 130
1,4-Dichlorobenzene	10.0	9.65		ug/L		96	70 - 130
2,2-Dichloropropane	10.0	8.55		ug/L		86	68 - 141
2-Chlorotoluene	10.0	9.77		ug/L		98	70 - 130
4-Chlorotoluene	10.0	10.0		ug/L		100	70 - 130
Benzene	10.0	8.94		ug/L		89	68 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-542381/6
Matrix: Water
Analysis Batch: 542381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	10.0	10.5		ug/L		105	70 - 130
Bromochloromethane	10.0	8.93		ug/L		89	70 - 130
Bromodichloromethane	10.0	10.1		ug/L		101	70 - 132
Bromoform	10.0	11.1		ug/L		111	60 - 148
Bromomethane	10.0	8.46		ug/L		85	64 - 139
Carbon tetrachloride	10.0	9.31		ug/L		93	60 - 150
Chlorobenzene	10.0	9.66		ug/L		97	70 - 130
Chloroethane	10.0	7.88		ug/L		79	64 - 135
Chloroform	10.0	9.17		ug/L		92	70 - 130
Chloromethane	10.0	7.27		ug/L		73	47 - 140
cis-1,2-Dichloroethene	10.0	9.01		ug/L		90	70 - 133
cis-1,3-Dichloropropene	10.0	9.92		ug/L		99	70 - 133
Dibromochloromethane	10.0	10.3		ug/L		103	69 - 145
Dibromomethane	10.0	9.14		ug/L		91	70 - 130
Dichlorodifluoromethane	10.0	6.46		ug/L		65	29 - 150
Ethylbenzene	10.0	9.63		ug/L		96	70 - 130
Hexachlorobutadiene	10.0	8.48		ug/L		85	10 - 150
Isopropylbenzene	10.0	9.43		ug/L		94	70 - 136
m,p-Xylene	10.0	9.43		ug/L		94	70 - 130
Methylene Chloride	10.0	8.70		ug/L		87	52 - 130
Naphthalene	10.0	8.40		ug/L		84	60 - 140
n-Butylbenzene	10.0	8.81		ug/L		88	65 - 150
N-Propylbenzene	10.0	9.65		ug/L		96	67 - 139
o-Xylene	10.0	9.33		ug/L		93	70 - 130
p-Isopropyltoluene	10.0	9.35		ug/L		94	70 - 132
sec-Butylbenzene	10.0	9.36		ug/L		94	70 - 138
Styrene	10.0	9.52		ug/L		95	70 - 134
tert-Butylbenzene	10.0	9.56		ug/L		96	70 - 130
Tetrachloroethene	10.0	9.44		ug/L		94	70 - 130
Toluene	10.0	9.25		ug/L		92	70 - 130
trans-1,2-Dichloroethene	10.0	8.48		ug/L		85	70 - 130
trans-1,3-Dichloropropene	10.0	10.2		ug/L		102	70 - 132
Trichloroethene	10.0	8.82		ug/L		88	70 - 130
Trichlorofluoromethane	10.0	8.18		ug/L		82	60 - 150
Vinyl chloride	10.0	8.04		ug/L		80	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*

Lab Sample ID: 440-238528-A-1 MS
Matrix: Water
Analysis Batch: 542381

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		10.0	10.1		ug/L		101	60 - 149

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238528-A-1 MS
Matrix: Water
Analysis Batch: 542381

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		10.0	9.13		ug/L		91	70 - 130
1,1,2,2-Tetrachloroethane	ND		10.0	10.0		ug/L		100	63 - 130
1,1,2-Trichloroethane	ND		10.0	10.2		ug/L		102	70 - 130
1,1-Dichloroethane	ND		10.0	8.79		ug/L		88	65 - 130
1,1-Dichloroethene	ND		10.0	8.86		ug/L		89	70 - 130
1,1-Dichloropropene	ND		10.0	8.66		ug/L		87	64 - 130
1,2,3-Trichlorobenzene	ND		10.0	9.32		ug/L		93	60 - 140
1,2,3-Trichloropropane	ND		10.0	9.83	J	ug/L		98	60 - 130
1,2,4-Trichlorobenzene	ND		10.0	8.97		ug/L		90	60 - 140
1,2,4-Trimethylbenzene	ND		10.0	9.52		ug/L		95	70 - 130
1,2-Dibromo-3-Chloropropane	ND		10.0	8.76		ug/L		88	48 - 140
1,2-Dibromoethane (EDB)	ND		10.0	9.84		ug/L		98	70 - 131
1,2-Dichlorobenzene	ND		10.0	9.89		ug/L		99	70 - 130
1,2-Dichloroethane	ND		10.0	8.99		ug/L		90	56 - 146
1,2-Dichloropropane	ND		10.0	9.61		ug/L		96	69 - 130
1,3,5-Trimethylbenzene	ND		10.0	9.99		ug/L		100	70 - 130
1,3-Dichlorobenzene	ND		10.0	9.92		ug/L		99	70 - 130
1,3-Dichloropropane	ND		10.0	10.1		ug/L		101	70 - 130
1,4-Dichlorobenzene	ND		10.0	9.98		ug/L		100	70 - 130
2,2-Dichloropropane	ND		10.0	8.76		ug/L		88	69 - 138
2-Chlorotoluene	ND		10.0	9.90		ug/L		99	70 - 130
4-Chlorotoluene	ND		10.0	10.6		ug/L		106	70 - 130
Benzene	ND		10.0	8.92		ug/L		89	66 - 130
Bromobenzene	ND		10.0	10.8		ug/L		108	70 - 130
Bromochloromethane	ND		10.0	8.85		ug/L		89	70 - 130
Bromodichloromethane	ND		10.0	10.3		ug/L		103	70 - 138
Bromoform	1.8	J	10.0	12.8		ug/L		110	59 - 150
Bromomethane	ND		10.0	8.37		ug/L		84	62 - 131
Carbon tetrachloride	ND		10.0	9.31		ug/L		93	60 - 150
Chlorobenzene	ND		10.0	9.85		ug/L		99	70 - 130
Chloroethane	ND		10.0	8.19		ug/L		82	68 - 130
Chloroform	ND		10.0	9.07		ug/L		91	70 - 130
Chloromethane	ND		10.0	7.52		ug/L		75	39 - 144
cis-1,2-Dichloroethene	ND		10.0	9.10		ug/L		91	70 - 130
cis-1,3-Dichloropropene	ND		10.0	10.0		ug/L		100	70 - 133
Dibromochloromethane	0.31	J	10.0	10.6		ug/L		103	70 - 148
Dibromomethane	ND		10.0	9.07		ug/L		91	70 - 130
Dichlorodifluoromethane	ND		10.0	6.97		ug/L		70	25 - 142
Ethylbenzene	ND		10.0	10.1		ug/L		101	70 - 130
Hexachlorobutadiene	ND		10.0	9.00		ug/L		90	10 - 150
Isopropylbenzene	ND		10.0	9.76		ug/L		98	70 - 132
m,p-Xylene	ND		10.0	9.95		ug/L		99	70 - 133
Methylene Chloride	ND		10.0	8.61		ug/L		86	52 - 130
Naphthalene	ND		10.0	8.66		ug/L		87	60 - 140
n-Butylbenzene	ND		10.0	9.45		ug/L		94	61 - 149
N-Propylbenzene	ND		10.0	10.2		ug/L		102	66 - 135
o-Xylene	ND		10.0	9.60		ug/L		96	70 - 133
p-Isopropyltoluene	ND		10.0	10.0		ug/L		100	70 - 130
sec-Butylbenzene	ND		10.0	9.92		ug/L		99	67 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238528-A-1 MS
Matrix: Water
Analysis Batch: 542381

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	ND		10.0	9.56		ug/L		96	29 - 150
tert-Butylbenzene	ND		10.0	9.75		ug/L		97	70 - 130
Tetrachloroethene	ND		10.0	10.3		ug/L		103	70 - 137
Toluene	ND		10.0	9.63		ug/L		96	70 - 130
trans-1,2-Dichloroethene	ND		10.0	8.77		ug/L		88	70 - 130
trans-1,3-Dichloropropene	ND		10.0	10.6		ug/L		106	70 - 138
Trichloroethene	ND		10.0	9.10		ug/L		91	70 - 130
Trichlorofluoromethane	ND		10.0	8.25		ug/L		83	60 - 150
Vinyl chloride	ND		10.0	8.02		ug/L		80	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*92*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*

Lab Sample ID: 440-238528-A-1 MSD
Matrix: Water
Analysis Batch: 542381

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		10.0	9.50		ug/L		95	60 - 149	6	20
1,1,1-Trichloroethane	ND		10.0	8.33		ug/L		83	70 - 130	9	20
1,1,2,2-Tetrachloroethane	ND		10.0	9.72		ug/L		97	63 - 130	3	30
1,1,2-Trichloroethane	ND		10.0	9.16		ug/L		92	70 - 130	11	25
1,1-Dichloroethane	ND		10.0	8.35		ug/L		84	65 - 130	5	20
1,1-Dichloroethene	ND		10.0	8.00		ug/L		80	70 - 130	10	20
1,1-Dichloropropene	ND		10.0	8.25		ug/L		83	64 - 130	5	20
1,2,3-Trichlorobenzene	ND		10.0	8.85		ug/L		88	60 - 140	5	20
1,2,3-Trichloropropane	ND		10.0	8.95	J	ug/L		89	60 - 130	9	30
1,2,4-Trichlorobenzene	ND		10.0	8.61		ug/L		86	60 - 140	4	20
1,2,4-Trimethylbenzene	ND		10.0	9.43		ug/L		94	70 - 130	1	25
1,2-Dibromo-3-Chloropropane	ND		10.0	7.51		ug/L		75	48 - 140	15	30
1,2-Dibromoethane (EDB)	ND		10.0	9.27		ug/L		93	70 - 131	6	25
1,2-Dichlorobenzene	ND		10.0	9.64		ug/L		96	70 - 130	3	20
1,2-Dichloroethane	ND		10.0	8.28		ug/L		83	56 - 146	8	20
1,2-Dichloropropane	ND		10.0	9.39		ug/L		94	69 - 130	2	20
1,3,5-Trimethylbenzene	ND		10.0	9.84		ug/L		98	70 - 130	2	20
1,3-Dichlorobenzene	ND		10.0	9.67		ug/L		97	70 - 130	3	20
1,3-Dichloropropane	ND		10.0	9.15		ug/L		91	70 - 130	10	25
1,4-Dichlorobenzene	ND		10.0	9.75		ug/L		98	70 - 130	2	20
2,2-Dichloropropane	ND		10.0	7.64		ug/L		76	69 - 138	14	25
2-Chlorotoluene	ND		10.0	9.88		ug/L		99	70 - 130	0	20
4-Chlorotoluene	ND		10.0	10.3		ug/L		103	70 - 130	3	20
Benzene	ND		10.0	8.52		ug/L		85	66 - 130	5	20
Bromobenzene	ND		10.0	10.6		ug/L		106	70 - 130	1	20
Bromochloromethane	ND		10.0	8.25		ug/L		83	70 - 130	7	25
Bromodichloromethane	ND		10.0	9.79		ug/L		98	70 - 138	5	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-238528-A-1 MSD
Matrix: Water
Analysis Batch: 542381

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	1.8	J	10.0	11.7		ug/L		99	59 - 150	9	25
Bromomethane	ND		10.0	7.50		ug/L		75	62 - 131	11	25
Carbon tetrachloride	ND		10.0	8.67		ug/L		87	60 - 150	7	25
Chlorobenzene	ND		10.0	9.11		ug/L		91	70 - 130	8	20
Chloroethane	ND		10.0	7.50		ug/L		75	68 - 130	9	25
Chloroform	ND		10.0	8.56		ug/L		86	70 - 130	6	20
Chloromethane	ND		10.0	6.88		ug/L		69	39 - 144	9	25
cis-1,2-Dichloroethene	ND		10.0	8.58		ug/L		86	70 - 130	6	20
cis-1,3-Dichloropropene	ND		10.0	9.97		ug/L		100	70 - 133	1	20
Dibromochloromethane	0.31	J	10.0	9.82		ug/L		95	70 - 148	8	25
Dibromomethane	ND		10.0	8.81		ug/L		88	70 - 130	3	25
Dichlorodifluoromethane	ND		10.0	6.20		ug/L		62	25 - 142	12	30
Ethylbenzene	ND		10.0	9.51		ug/L		95	70 - 130	6	20
Hexachlorobutadiene	ND		10.0	8.66		ug/L		87	10 - 150	4	20
Isopropylbenzene	ND		10.0	9.38		ug/L		94	70 - 132	4	20
m,p-Xylene	ND		10.0	9.35		ug/L		94	70 - 133	6	25
Methylene Chloride	ND		10.0	7.28		ug/L		73	52 - 130	17	20
Naphthalene	ND		10.0	8.32		ug/L		83	60 - 140	4	30
n-Butylbenzene	ND		10.0	9.13		ug/L		91	61 - 149	3	20
N-Propylbenzene	ND		10.0	9.99		ug/L		100	66 - 135	2	20
o-Xylene	ND		10.0	8.88		ug/L		89	70 - 133	8	20
p-Isopropyltoluene	ND		10.0	9.71		ug/L		97	70 - 130	3	20
sec-Butylbenzene	ND		10.0	9.68		ug/L		97	67 - 134	2	20
Styrene	ND		10.0	8.98		ug/L		90	29 - 150	6	35
tert-Butylbenzene	ND		10.0	9.70		ug/L		97	70 - 130	1	20
Tetrachloroethene	ND		10.0	9.06		ug/L		91	70 - 137	13	20
Toluene	ND		10.0	9.10		ug/L		91	70 - 130	6	20
trans-1,2-Dichloroethene	ND		10.0	8.27		ug/L		83	70 - 130	6	20
trans-1,3-Dichloropropene	ND		10.0	9.69		ug/L		97	70 - 138	9	25
Trichloroethene	ND		10.0	8.41		ug/L		84	70 - 130	8	20
Trichlorofluoromethane	ND		10.0	7.56		ug/L		76	60 - 150	9	25
Vinyl chloride	ND		10.0	7.28		ug/L		73	50 - 137	10	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*76 - 132*
Toluene-d8 (Surr)	*99*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-540366/1-A
Matrix: Water
Analysis Batch: 540610

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540366

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/15/19 10:40	04/16/19 14:31	1
2,4'-DDE	ND		0.10	0.020	ug/L		04/15/19 10:40	04/16/19 14:31	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/15/19 10:40	04/16/19 14:31	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 440-540366/1-A
Matrix: Water
Analysis Batch: 540610

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540366

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.10	0.0040	ug/L		04/15/19 10:40	04/16/19 14:31	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/15/19 10:40	04/16/19 14:31	1
4,4'-DDT	ND		0.10	0.0040	ug/L		04/15/19 10:40	04/16/19 14:31	1
Aldrin	ND		0.0050	0.0015	ug/L		04/15/19 10:40	04/16/19 14:31	1
alpha-BHC	ND		0.0050	0.0025	ug/L		04/15/19 10:40	04/16/19 14:31	1
beta-BHC	ND		0.010	0.0040	ug/L		04/15/19 10:40	04/16/19 14:31	1
Chlordane	ND		0.10	0.080	ug/L		04/15/19 10:40	04/16/19 14:31	1
delta-BHC	ND		0.20	0.0035	ug/L		04/15/19 10:40	04/16/19 14:31	1
Dieldrin	ND		0.0050	0.0020	ug/L		04/15/19 10:40	04/16/19 14:31	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/15/19 10:40	04/16/19 14:31	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/15/19 10:40	04/16/19 14:31	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/15/19 10:40	04/16/19 14:31	1
Endrin	ND		0.10	0.0020	ug/L		04/15/19 10:40	04/16/19 14:31	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/15/19 10:40	04/16/19 14:31	1
Endrin ketone	ND		0.10	0.0070	ug/L		04/15/19 10:40	04/16/19 14:31	1
gamma-BHC (Lindane)	ND		0.10	0.0030	ug/L		04/15/19 10:40	04/16/19 14:31	1
Heptachlor	ND		0.010	0.0030	ug/L		04/15/19 10:40	04/16/19 14:31	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/15/19 10:40	04/16/19 14:31	1
Methoxychlor	ND		0.10	0.0035	ug/L		04/15/19 10:40	04/16/19 14:31	1
Toxaphene	ND		5.0	0.25	ug/L		04/15/19 10:40	04/16/19 14:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*28 - 108*	*04/15/19 10:40*	*04/16/19 14:31*	*1*
Tetrachloro-m-xylene	*52*		*10 - 123*	*04/15/19 10:40*	*04/16/19 14:31*	*1*

Lab Sample ID: LCS 440-540366/2-A
Matrix: Water
Analysis Batch: 540610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540366

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4'-DDD	0.250	0.165		ug/L		66	10 - 150
2,4'-DDE	0.250	0.164		ug/L		66	10 - 150
2,4'-DDT	0.250	0.174		ug/L		69	10 - 150
4,4'-DDD	0.250	0.172		ug/L		69	50 - 128
4,4'-DDE	0.250	0.179		ug/L		72	49 - 121
4,4'-DDT	0.250	0.185		ug/L		74	41 - 140
Aldrin	0.250	0.137		ug/L		55	37 - 115
alpha-BHC	0.250	0.180		ug/L		72	44 - 115
beta-BHC	0.250	0.166		ug/L		66	46 - 121
delta-BHC	0.250	0.180	J	ug/L		72	32 - 129
Dieldrin	0.250	0.172		ug/L		69	39 - 126
Endosulfan I	0.250	0.174		ug/L		70	47 - 115
Endosulfan II	0.250	0.172		ug/L		69	47 - 120
Endosulfan sulfate	0.250	0.167	J	ug/L		67	48 - 126
Endrin	0.250	0.175		ug/L		70	43 - 127
Endrin aldehyde	0.250	0.159		ug/L		64	43 - 120
Endrin ketone	0.250	0.161		ug/L		64	47 - 123
gamma-BHC (Lindane)	0.250	0.176		ug/L		70	45 - 116

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-540366/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540610 — **Prep Batch: 540366**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor	0.250	0.169		ug/L		68	37 - 115
Heptachlor epoxide	0.250	0.171		ug/L		68	41 - 129
Methoxychlor	0.250	0.181		ug/L		72	44 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*64*		*28 - 108*
Tetrachloro-m-xylene	*52*		*10 - 123*

Lab Sample ID: 440-238680-G-5-A MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540610 — **Prep Batch: 540366**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4'-DDD	ND		0.243	0.186		ug/L		77	50 - 125
2,4'-DDE	ND		0.243	0.173		ug/L		71	45 - 125
2,4'-DDT	ND		0.243	0.193		ug/L		80	50 - 125
4,4'-DDD	ND		0.243	0.197		ug/L		81	50 - 125
4,4'-DDE	ND		0.243	0.195		ug/L		80	45 - 125
4,4'-DDT	ND		0.243	0.209		ug/L		86	50 - 125
Aldrin	ND		0.243	0.133		ug/L		55	35 - 120
alpha-BHC	0.0074		0.243	0.168		ug/L		66	40 - 120
beta-BHC	0.0099	J	0.243	0.182		ug/L		71	50 - 120
delta-BHC	0.0041	J p	0.243	0.196		ug/L		79	50 - 120
Dieldrin	ND		0.243	0.188		ug/L		78	50 - 120
Endosulfan I	ND		0.243	0.185		ug/L		76	50 - 120
Endosulfan II	ND		0.243	0.193		ug/L		80	50 - 125
Endosulfan sulfate	ND		0.243	0.190		ug/L		78	55 - 125
Endrin	ND		0.243	0.193		ug/L		80	50 - 120
Endrin aldehyde	ND		0.243	0.179		ug/L		74	45 - 125
Endrin ketone	ND		0.243	0.181		ug/L		74	50 - 125
gamma-BHC (Lindane)	0.018	J	0.243	0.189		ug/L		70	40 - 120
Heptachlor	ND		0.243	0.202		ug/L		83	40 - 120
Heptachlor epoxide	ND		0.243	0.180		ug/L		74	50 - 120
Methoxychlor	ND		0.243	0.207		ug/L		85	55 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*74*		*28 - 108*
Tetrachloro-m-xylene	*47*		*10 - 123*

Lab Sample ID: 440-238680-G-5-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540610 — **Prep Batch: 540366**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4'-DDD	ND		0.242	0.187		ug/L		77	50 - 125	0	30
2,4'-DDE	ND		0.242	0.174		ug/L		72	45 - 125	0	30
2,4'-DDT	ND		0.242	0.193		ug/L		80	50 - 125	0	30
4,4'-DDD	ND		0.242	0.198		ug/L		82	50 - 125	1	30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-238680-G-5-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540610 — **Prep Batch: 540366**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDE	ND		0.242	0.196		ug/L		81	45 - 125	0	30
4,4'-DDT	ND		0.242	0.211		ug/L		87	50 - 125	1	30
Aldrin	ND		0.242	0.136		ug/L		56	35 - 120	2	30
alpha-BHC	0.0074		0.242	0.174		ug/L		69	40 - 120	3	30
beta-BHC	0.0099	J	0.242	0.185		ug/L		73	50 - 120	2	30
delta-BHC	0.0041	J p	0.242	0.200		ug/L		81	50 - 120	2	30
Dieldrin	ND		0.242	0.189		ug/L		78	50 - 120	0	30
Endosulfan I	ND		0.242	0.186		ug/L		77	50 - 120	1	30
Endosulfan II	ND		0.242	0.194		ug/L		80	50 - 125	0	30
Endosulfan sulfate	ND		0.242	0.191		ug/L		79	55 - 125	0	30
Endrin	ND		0.242	0.194		ug/L		80	50 - 120	1	30
Endrin aldehyde	ND		0.242	0.179		ug/L		74	45 - 125	0	30
Endrin ketone	ND		0.242	0.182		ug/L		75	50 - 125	1	30
gamma-BHC (Lindane)	0.018	J	0.242	0.195		ug/L		73	40 - 120	3	30
Heptachlor	ND		0.242	0.210		ug/L		87	40 - 120	4	30
Heptachlor epoxide	ND		0.242	0.182		ug/L		75	50 - 120	1	30
Methoxychlor	ND		0.242	0.209		ug/L		87	55 - 125	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*74*		*28 - 108*
Tetrachloro-m-xylene	*49*		*10 - 123*

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 440-542206/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542206

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/24/19 09:24	1

Lab Sample ID: LCS 440-542206/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542206

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	25.0	23.9		ug/L		96	85 - 115

Lab Sample ID: MRL 440-542206/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542206

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	1.00	0.951	J	ug/L		95	75 - 125

Method: 314.0 - Perchlorate (IC) (Continued)

Lab Sample ID: 440-239100-A-3 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542206

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate	80		125	198		ug/L		94	80 - 120		

Lab Sample ID: 440-239100-A-3 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542206

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	80		125	197		ug/L		93	80 - 120	0	15

Lab Sample ID: MB 440-542285/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542285

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/24/19 14:28	1

Lab Sample ID: LCS 440-542285/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542285

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			25.0	24.7		ug/L		99	85 - 115		

Lab Sample ID: MRL 440-542285/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542285

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			1.00	ND		ug/L		92	75 - 125		

Lab Sample ID: 440-239560-D-3 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542285

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate	ND		25.0	26.2		ug/L		105	80 - 120		

Lab Sample ID: 440-239560-D-3 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542285

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	ND		25.0	26.0		ug/L		104	80 - 120	1	15

QC Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238800-1
SDG: Henderson, NV

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 440-540842/1-A
Matrix: Water
Analysis Batch: 541048

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 540842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.10	ug/L		04/17/19 08:25	04/17/19 21:18	1
Barium	0.171	J	0.20	0.10	ug/L		04/17/19 08:25	04/17/19 21:18	1
Cadmium	ND		0.10	0.050	ug/L		04/17/19 08:25	04/17/19 21:18	1
Chromium	0.310	J	0.50	0.25	ug/L		04/17/19 08:25	04/17/19 21:18	1
Lead	ND		0.10	0.050	ug/L		04/17/19 08:25	04/17/19 21:18	1
Selenium	ND		0.60	0.30	ug/L		04/17/19 08:25	04/17/19 21:18	1
Silver	ND		0.20	0.10	ug/L		04/17/19 08:25	04/17/19 21:18	1
Uranium	ND		0.10	0.050	ug/L		04/17/19 08:25	04/17/19 21:18	1

Lab Sample ID: LCS 440-540842/2-A
Matrix: Water
Analysis Batch: 541048

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 540842

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	80.0	75.5		ug/L		94	80 - 120
Barium	80.0	79.3		ug/L		99	80 - 120
Cadmium	80.0	77.1		ug/L		96	80 - 120
Chromium	80.0	77.4		ug/L		97	80 - 120
Lead	80.0	79.2		ug/L		99	80 - 120
Selenium	80.0	77.6		ug/L		97	80 - 120
Silver	80.0	75.7		ug/L		95	80 - 120
Uranium	80.0	80.5		ug/L		101	80 - 120

Lab Sample ID: 440-238800-3 MS
Matrix: Water
Analysis Batch: 541048

Client Sample ID: MC-MW-35-20190411
Prep Type: Total Recoverable
Prep Batch: 540842

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	35		80.0	111		ug/L		96	75 - 125
Barium	57	B	80.0	139		ug/L		102	75 - 125
Cadmium	0.22		80.0	74.8		ug/L		93	75 - 125
Chromium	29	B	80.0	103		ug/L		92	75 - 125
Lead	3.1		80.0	80.1		ug/L		96	75 - 125
Selenium	2.6		80.0	73.8		ug/L		89	75 - 125
Silver	0.13	J	80.0	73.1		ug/L		91	75 - 125
Uranium	6.4		80.0	88.7		ug/L		103	75 - 125

Lab Sample ID: 440-238800-3 MSD
Matrix: Water
Analysis Batch: 541048

Client Sample ID: MC-MW-35-20190411
Prep Type: Total Recoverable
Prep Batch: 540842

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	35		80.0	109		ug/L		93	75 - 125	2	20
Barium	57	B	80.0	138		ug/L		101	75 - 125	0	20
Cadmium	0.22		80.0	74.0		ug/L		92	75 - 125	1	20
Chromium	29	B	80.0	102		ug/L		92	75 - 125	0	20
Lead	3.1		80.0	78.6		ug/L		94	75 - 125	2	20
Selenium	2.6		80.0	72.3		ug/L		87	75 - 125	2	20
Silver	0.13	J	80.0	72.8		ug/L		91	75 - 125	0	20

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 440-238800-3 MSD — **Client Sample ID: MC-MW-35-20190411**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 541048 — **Prep Batch: 540842**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Uranium	6.4		80.0	86.1		ug/L		100	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 440-542335/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542977 — **Prep Batch: 542335**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/26/19 09:30	04/26/19 14:48	1

Lab Sample ID: LCS 440-542335/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542977 — **Prep Batch: 542335**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00400	0.00457		mg/L		114	80 - 120

Lab Sample ID: 440-238680-F-5-F MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542977 — **Prep Batch: 542335**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00400	0.00471		mg/L		118	75 - 125

Lab Sample ID: 440-238680-F-5-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542977 — **Prep Batch: 542335**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00400	0.00465		mg/L		116	75 - 125	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 440-540849/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540849

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			04/17/19 08:48	1

Lab Sample ID: LCS 440-540849/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 540849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	966		mg/L		97	90 - 110

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 440-238680-E-5 DU
Matrix: Water
Analysis Batch: 540849

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	7800			7870		mg/L				1	5

QC Association Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238800-1
SDG: Henderson, NV

GC/MS VOA

Analysis Batch: 542381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238800-1	TB-20190411	Total/NA	Water	8260B	
440-238800-2	PL-508-20190411	Total/NA	Water	8260B	
440-238800-3	MC-MW-35-20190411	Total/NA	Water	8260B	
440-238800-4	MC-MW-32-20190411	Total/NA	Water	8260B	
440-238800-5	AA-BW-03A-20190411	Total/NA	Water	8260B	
440-238800-5 - DL	AA-BW-03A-20190411	Total/NA	Water	8260B	
440-238800-6	H-11-20190411	Total/NA	Water	8260B	
MB 440-542381/4	Method Blank	Total/NA	Water	8260B	
LCS 440-542381/6	Lab Control Sample	Total/NA	Water	8260B	
440-238528-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-238528-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 540366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238800-3	MC-MW-35-20190411	Total/NA	Water	3510C	
440-238800-4	MC-MW-32-20190411	Total/NA	Water	3510C	
440-238800-5	AA-BW-03A-20190411	Total/NA	Water	3510C	
440-238800-6	H-11-20190411	Total/NA	Water	3510C	
MB 440-540366/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-540366/2-A	Lab Control Sample	Total/NA	Water	3510C	
440-238680-G-5-A MS	Matrix Spike	Total/NA	Water	3510C	
440-238680-G-5-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 540610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238800-3	MC-MW-35-20190411	Total/NA	Water	8081A	540366
440-238800-4	MC-MW-32-20190411	Total/NA	Water	8081A	540366
440-238800-5	AA-BW-03A-20190411	Total/NA	Water	8081A	540366
440-238800-6	H-11-20190411	Total/NA	Water	8081A	540366
MB 440-540366/1-A	Method Blank	Total/NA	Water	8081A	540366
LCS 440-540366/2-A	Lab Control Sample	Total/NA	Water	8081A	540366
440-238680-G-5-A MS	Matrix Spike	Total/NA	Water	8081A	540366
440-238680-G-5-B MSD	Matrix Spike Duplicate	Total/NA	Water	8081A	540366

HPLC/IC

Analysis Batch: 542206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238800-3	MC-MW-35-20190411	Total/NA	Water	314.0	
440-238800-4	MC-MW-32-20190411	Total/NA	Water	314.0	
440-238800-6	H-11-20190411	Total/NA	Water	314.0	
MB 440-542206/6	Method Blank	Total/NA	Water	314.0	
LCS 440-542206/5	Lab Control Sample	Total/NA	Water	314.0	
MRL 440-542206/4	Lab Control Sample	Total/NA	Water	314.0	
440-239100-A-3 MS	Matrix Spike	Total/NA	Water	314.0	
440-239100-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0	

Analysis Batch: 542285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238800-5	AA-BW-03A-20190411	Total/NA	Water	314.0	

HPLC/IC (Continued)

Analysis Batch: 542285 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-542285/6	Method Blank	Total/NA	Water	314.0	
LCS 440-542285/5	Lab Control Sample	Total/NA	Water	314.0	
MRL 440-542285/4	Lab Control Sample	Total/NA	Water	314.0	
440-239560-D-3 MS	Matrix Spike	Total/NA	Water	314.0	
440-239560-D-3 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0	

Metals

Prep Batch: 540842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238800-3	MC-MW-35-20190411	Total Recoverable	Water	3005A	
440-238800-4	MC-MW-32-20190411	Total Recoverable	Water	3005A	
440-238800-5	AA-BW-03A-20190411	Total Recoverable	Water	3005A	
440-238800-6	H-11-20190411	Total Recoverable	Water	3005A	
MB 440-540842/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-540842/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-238800-3 MS	MC-MW-35-20190411	Total Recoverable	Water	3005A	
440-238800-3 MSD	MC-MW-35-20190411	Total Recoverable	Water	3005A	

Analysis Batch: 541048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238800-3	MC-MW-35-20190411	Total Recoverable	Water	6020	540842
440-238800-4	MC-MW-32-20190411	Total Recoverable	Water	6020	540842
440-238800-5	AA-BW-03A-20190411	Total Recoverable	Water	6020	540842
440-238800-6	H-11-20190411	Total Recoverable	Water	6020	540842
MB 440-540842/1-A	Method Blank	Total Recoverable	Water	6020	540842
LCS 440-540842/2-A	Lab Control Sample	Total Recoverable	Water	6020	540842
440-238800-3 MS	MC-MW-35-20190411	Total Recoverable	Water	6020	540842
440-238800-3 MSD	MC-MW-35-20190411	Total Recoverable	Water	6020	540842

Prep Batch: 542335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238800-3	MC-MW-35-20190411	Total/NA	Water	7470A	
440-238800-4	MC-MW-32-20190411	Total/NA	Water	7470A	
440-238800-5	AA-BW-03A-20190411	Total/NA	Water	7470A	
440-238800-6	H-11-20190411	Total/NA	Water	7470A	
MB 440-542335/1-A	Method Blank	Total/NA	Water	7470A	
LCS 440-542335/2-A	Lab Control Sample	Total/NA	Water	7470A	
440-238680-F-5-F MS	Matrix Spike	Total/NA	Water	7470A	
440-238680-F-5-G MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 542977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238800-3	MC-MW-35-20190411	Total/NA	Water	7470A	542335
440-238800-4	MC-MW-32-20190411	Total/NA	Water	7470A	542335
440-238800-5	AA-BW-03A-20190411	Total/NA	Water	7470A	542335
440-238800-6	H-11-20190411	Total/NA	Water	7470A	542335
MB 440-542335/1-A	Method Blank	Total/NA	Water	7470A	542335
LCS 440-542335/2-A	Lab Control Sample	Total/NA	Water	7470A	542335
440-238680-F-5-F MS	Matrix Spike	Total/NA	Water	7470A	542335
440-238680-F-5-G MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	542335

QC Association Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238800-1
SDG: Henderson, NV

General Chemistry

Analysis Batch: 540849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-238800-3	MC-MW-35-20190411	Total/NA	Water	SM 2540C	
440-238800-4	MC-MW-32-20190411	Total/NA	Water	SM 2540C	
440-238800-5	AA-BW-03A-20190411	Total/NA	Water	SM 2540C	
440-238800-6	H-11-20190411	Total/NA	Water	SM 2540C	
MB 440-540849/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-540849/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-238680-E-5 DU	Duplicate	Total/NA	Water	SM 2540C	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-238800-1
SDG: Henderson, NV

Laboratory: Eurofins TestAmerica, Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Nevada	State Program	9	CA015312018-1	07-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8081A	3510C	Water	2,4'-DDD
8081A	3510C	Water	2,4'-DDE
8081A	3510C	Water	2,4'-DDT
8081A	3510C	Water	4,4'-DDD
8081A	3510C	Water	4,4'-DDE
8081A	3510C	Water	4,4'-DDT
8081A	3510C	Water	Aldrin
8081A	3510C	Water	alpha-BHC
8081A	3510C	Water	beta-BHC
8081A	3510C	Water	Chlordane
8081A	3510C	Water	delta-BHC
8081A	3510C	Water	Dieldrin
8081A	3510C	Water	Endosulfan I
8081A	3510C	Water	Endosulfan II
8081A	3510C	Water	Endosulfan sulfate
8081A	3510C	Water	Endrin
8081A	3510C	Water	Endrin aldehyde
8081A	3510C	Water	Endrin ketone
8081A	3510C	Water	gamma-BHC (Lindane)
8081A	3510C	Water	Heptachlor
8081A	3510C	Water	Heptachlor epoxide
8081A	3510C	Water	Methoxychlor
8081A	3510C	Water	Toxaphene
8260B		Water	Dimethyl disulfide

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone 949.261.1022 fax 949.260.3299

TestAmerica
Las Vegas
219

Chain of Custody Record

440-238800 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Nicole Bradley, Dean Charles	Site Contact: Kevin Paprocki	Date: 4/11/19	COC No:
de maximis, Inc.	Tel/Fax: 619-546-8377	Lab Contact: Danielle Roberts	Carrier:	_____ of _____ COCs
1322 Scott St., Suite 101	Analysis Turnaround Time			Job No. 3200C
San Diego, CA 92106	Calendar (C) or Work Days (W)___ W___			SDG No.
(619) 546-8377 Phone	TAT if different from Below_____			
(619) 546-9980 Fax	☒ 2 weeks			
Project Name. 3200C Henderson Sitewide	☐ 1 week			
Site: Henderson, NV	☐ 2 days			
PO#	☐ 1 day			

Sample Identification	Container Type	Sample Date	Sample Time	Preservation Type	Matrix	# of Containers	8260B-HEND-Qtrly	8081A – Pesticides	RCRA 8 Metals + Uranium - 7470A & 6020	TDS – SM2540C	Perchlorate 314							VOC concentration > 500 ppb	MS/MSD REQUIRED	LEVEL 2A REQUIRED	Sample Specific Notes:
TB-20190411	VOA	4/11/19	0645	4°C	AQ	2	X													X	
PL-508-20190411	VOA	4/11/19	1055	4°C	AQ	3	X													X	
MC-MW-35-20190411	Various	4/11/19	1000	4°C	AQ	8	X	X	X	X	X									X	
MC-MW-32-20190411	Various	4/11/19	0848	4°C	AQ	8	X	X	X	X	X									X	
AA-BW-03A-20190411	Various	4/11/19	1040	4°C	AQ	8	X	X	X	X	X									X	
H-11-20190411	Various	4/11/19	0853	4°C	AQ	8	X	X	X	X	X									X	

[1] I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: _____ Date _____

Preservation Used: 1= Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other_____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return to Client* ☐ Disposal by Lab Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Sample Int (circle one)
Intact: Y / N on ice: Y / N
temperature:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Converse	4/11/19 1235	[signature]	TAIRU	4/11/19 1235
Relinquished by:	Company: TAIRU	Date/Time: 4/11/19 1600 PDT	Received by: Olga Onelas	Company: TAIRU	Date/Time: 4/12/19 1030
Relinquished by:	Company.	Date/Time:	Received by:	Company:	Date/Time:

IR 95 2.9 23/27 IR 93 C/S.
TH: 4766 5637 04/55

Login Sample Receipt Checklist

Client: de maximis, inc.

Job Number: 440-238800-2
SDG Number: Henderson, NV

Login Number: 238800
List Number: 1
Creator: Skinner, Alma D

List Source: Eurofins TestAmerica, Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

Laboratory Job ID: 440-239073-1
Laboratory Sample Delivery Group: 3200C Henderson Sitewide
Client Project/Site: 3200C Henderson Sitewide

For:
de maximis, inc.
1322 Scott Street, Suite 104
San Diego, California 92106

Attn: Nicole Bradley

Authorized for release by:
5/4/2019 6:37:25 AM

Danielle Roberts, Senior Project Manager
(949)260-3249
danielle.roberts@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 8
Surrogate Summary 24
Method Summary 25
Lab Chronicle 26
QC Sample Results 28
QC Association Summary 42
Definitions/Glossary 45
Certification Summary 46
Chain of Custody 47
Receipt Checklists 48

Sample Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239073-1
SDG: 3200C Henderson Sitewide

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-239073-1	TB-20190415	Water	04/15/19 06:50	04/16/19 10:30
440-239073-2	PL-509-20190415	Water	04/15/19 10:40	04/16/19 10:30
440-239073-3	PL-510-20190415	Water	04/15/19 09:29	04/16/19 10:30
440-239073-4	M-057A-20190415	Water	04/15/19 08:59	04/16/19 10:30
440-239073-5	M-007B-20190415	Water	04/15/19 08:59	04/16/19 10:30
440-239073-6	M-142-20190415	Water	04/15/19 10:20	04/16/19 10:30
440-239073-7	M-149-20190415	Water	04/15/19 09:10	04/16/19 10:30

Job ID: 440-239073-1

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative
440-239073-1

Comments
No additional comments.

Receipt
The samples were received on 4/16/2019 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.6º C and 1.9º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 440-239073-2

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative
440-239073-2

Comments
No additional comments.

Receipt
The samples were received on 4/16/2019 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.6º C and 1.9º C.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239073-1
SDG: 3200C Henderson Sitewide

Client Sample ID: TB-20190415 — Lab Sample ID: 440-239073-1

No Detections.

Client Sample ID: PL-509-20190415 — Lab Sample ID: 440-239073-2

No Detections.

Client Sample ID: PL-510-20190415 — Lab Sample ID: 440-239073-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.3		2.0	0.25	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	1.1	J	2.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	1.3	J	2.0	0.25	ug/L	1		8260B	Total/NA
alpha-BHC	0.015		0.0049	0.0024	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.10		0.097	0.0029	ug/L	1		8081A	Total/NA
Perchlorate	24000		4000	950	ug/L	1000		314.0	Total/NA
Arsenic	76		0.20	0.10	ug/L	1		6020	Total Recoverable
Barium	41		0.20	0.10	ug/L	1		6020	Total Recoverable
Cadmium	0.14		0.10	0.050	ug/L	1		6020	Total Recoverable
Chromium	8.8		0.50	0.25	ug/L	1		6020	Total Recoverable
Lead	0.62		0.10	0.050	ug/L	1		6020	Total Recoverable
Selenium	4.6		0.60	0.30	ug/L	1		6020	Total Recoverable
Uranium	47		0.10	0.050	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	7700		100	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: M-057A-20190415 — Lab Sample ID: 440-239073-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	0.33	J	2.0	0.25	ug/L	1		8260B	Total/NA
Carbon tetrachloride	5.5		1.0	0.25	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.49	J	2.0	0.25	ug/L	1		8260B	Total/NA
Trichloroethene	1.0	J	2.0	0.25	ug/L	1		8260B	Total/NA
Chloroform - DL	770		20	2.5	ug/L	10		8260B	Total/NA
Perchlorate	10000		4000	950	ug/L	1000		314.0	Total/NA
Arsenic	150		0.20	0.10	ug/L	1		6020	Total Recoverable
Barium	38		0.20	0.10	ug/L	1		6020	Total Recoverable
Cadmium	0.088	J	0.10	0.050	ug/L	1		6020	Total Recoverable
Chromium	58		0.50	0.25	ug/L	1		6020	Total Recoverable
Lead	1.8		0.10	0.050	ug/L	1		6020	Total Recoverable
Selenium	3.9		0.60	0.30	ug/L	1		6020	Total Recoverable
Uranium	8.7		0.10	0.050	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	3300		50	25	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239073-1
SDG: 3200C Henderson Sitewide

Client Sample ID: M-007B-20190415 — Lab Sample ID: 440-239073-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.3		2.0	0.25	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	1.0	J	2.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	1.5	J	2.0	0.25	ug/L	1		8260B	Total/NA
alpha-BHC	0.016		0.0049	0.0024	ug/L	1		8081A	Total/NA
delta-BHC	0.0037	J p	0.19	0.0034	ug/L	1		8081A	Total/NA
gamma-BHC (Lindane)	0.11		0.097	0.0029	ug/L	1		8081A	Total/NA
Perchlorate	14000		4000	950	ug/L	1000		314.0	Total/NA
Arsenic	78		0.20	0.10	ug/L	1		6020	Total Recoverable
Barium	54		0.20	0.10	ug/L	1		6020	Total Recoverable
Cadmium	0.22		0.10	0.050	ug/L	1		6020	Total Recoverable
Chromium	5.5		0.50	0.25	ug/L	1		6020	Total Recoverable
Lead	1.4		0.10	0.050	ug/L	1		6020	Total Recoverable
Selenium	4.5		0.60	0.30	ug/L	1		6020	Total Recoverable
Uranium	49		0.10	0.050	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	7900		100	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: M-142-20190415 — Lab Sample ID: 440-239073-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.51	J	5.0	0.25	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	0.29	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	0.29	J	2.0	0.25	ug/L	1		8260B	Total/NA
Carbon tetrachloride	0.73	J	1.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	66		2.0	0.25	ug/L	1		8260B	Total/NA
Trichloroethene	2.6		2.0	0.25	ug/L	1		8260B	Total/NA
Perchlorate	3900		400	95	ug/L	100		314.0	Total/NA
Arsenic	58		0.20	0.10	ug/L	1		6020	Total Recoverable
Barium	47		0.20	0.10	ug/L	1		6020	Total Recoverable
Cadmium	0.27		0.10	0.050	ug/L	1		6020	Total Recoverable
Chromium	30		0.50	0.25	ug/L	1		6020	Total Recoverable
Lead	1.7		0.10	0.050	ug/L	1		6020	Total Recoverable
Selenium	3.4		0.60	0.30	ug/L	1		6020	Total Recoverable
Silver	0.28		0.20	0.10	ug/L	1		6020	Total Recoverable
Uranium	6.5		0.10	0.050	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	2800		20	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: M-149-20190415 — Lab Sample ID: 440-239073-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.25	J	2.0	0.25	ug/L	1		8260B	Total/NA
Chlorobenzene	1.5	J	2.0	0.25	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239073-1
SDG: 3200C Henderson Sitewide

Client Sample ID: M-149-20190415 (Continued)

Lab Sample ID: 440-239073-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	47		2.0	0.25	ug/L	1		8260B	Total/NA
Perchlorate	290000		40000	9500	ug/L	10000		314.0	Total/NA
Arsenic	29		0.20	0.10	ug/L	1		6020	Total Recoverable
Barium	53		0.20	0.10	ug/L	1		6020	Total Recoverable
Cadmium	0.055	J	0.10	0.050	ug/L	1		6020	Total Recoverable
Chromium	1600		0.50	0.25	ug/L	1		6020	Total Recoverable
Lead	0.43		0.10	0.050	ug/L	1		6020	Total Recoverable
Selenium	1.8		0.60	0.30	ug/L	1		6020	Total Recoverable
Uranium	5.1		0.10	0.050	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	1800		20	10	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239073-1
SDG: 3200C Henderson Sitewide

Client Sample ID: TB-20190415

Date Collected: 04/15/19 06:50
Date Received: 04/16/19 10:30

Lab Sample ID: 440-239073-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/26/19 00:05	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 00:05	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/26/19 00:05	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 00:05	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 00:05	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/26/19 00:05	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 00:05	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 00:05	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/26/19 00:05	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 00:05	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 00:05	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/26/19 00:05	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/26/19 00:05	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 00:05	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 00:05	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 00:05	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 00:05	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 00:05	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 00:05	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 00:05	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/26/19 00:05	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 00:05	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 00:05	1
Benzene	ND		2.0	0.25	ug/L			04/26/19 00:05	1
Bromobenzene	ND		5.0	0.25	ug/L			04/26/19 00:05	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/26/19 00:05	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/26/19 00:05	1
Bromoform	ND		5.0	0.40	ug/L			04/26/19 00:05	1
Bromomethane	ND		5.0	0.25	ug/L			04/26/19 00:05	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/26/19 00:05	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/26/19 00:05	1
Chloroethane	ND		5.0	0.40	ug/L			04/26/19 00:05	1
Chloroform	ND		2.0	0.25	ug/L			04/26/19 00:05	1
Chloromethane	ND		5.0	0.25	ug/L			04/26/19 00:05	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 00:05	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 00:05	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/26/19 00:05	1
Dibromomethane	ND		2.0	0.25	ug/L			04/26/19 00:05	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/26/19 00:05	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/26/19 00:05	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/26/19 00:05	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/26/19 00:05	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/26/19 00:05	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/26/19 00:05	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/26/19 00:05	1
Naphthalene	ND		5.0	0.40	ug/L			04/26/19 00:05	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/26/19 00:05	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/26/19 00:05	1
o-Xylene	ND		2.0	0.25	ug/L			04/26/19 00:05	1

Client Sample ID: TB-20190415

Lab Sample ID: 440-239073-1

Date Collected: 04/15/19 06:50
Matrix: Water
Date Received: 04/16/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/26/19 00:05	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 00:05	1
Styrene	ND		2.0	0.25	ug/L			04/26/19 00:05	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 00:05	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/26/19 00:05	1
Toluene	ND		2.0	0.25	ug/L			04/26/19 00:05	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 00:05	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 00:05	1
Trichloroethene	ND		2.0	0.25	ug/L			04/26/19 00:05	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/26/19 00:05	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/26/19 00:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*04/26/19 00:05*	*1*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*04/26/19 00:05*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*04/26/19 00:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*04/26/19 00:05*	*1*

Client Sample ID: PL-509-20190415

Lab Sample ID: 440-239073-2

Date Collected: 04/15/19 10:40
Matrix: Water
Date Received: 04/16/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/26/19 00:32	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 00:32	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/26/19 00:32	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 00:32	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 00:32	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/26/19 00:32	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 00:32	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 00:32	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/26/19 00:32	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 00:32	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 00:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/26/19 00:32	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/26/19 00:32	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 00:32	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 00:32	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 00:32	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 00:32	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 00:32	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 00:32	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 00:32	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/26/19 00:32	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 00:32	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 00:32	1
Benzene	ND		2.0	0.25	ug/L			04/26/19 00:32	1
Bromobenzene	ND		5.0	0.25	ug/L			04/26/19 00:32	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/26/19 00:32	1

Client Sample ID: PL-509-20190415

Lab Sample ID: 440-239073-2

Date Collected: 04/15/19 10:40
Matrix: Water
Date Received: 04/16/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		2.0	0.25	ug/L			04/26/19 00:32	1
Bromoform	ND		5.0	0.40	ug/L			04/26/19 00:32	1
Bromomethane	ND		5.0	0.25	ug/L			04/26/19 00:32	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/26/19 00:32	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/26/19 00:32	1
Chloroethane	ND		5.0	0.40	ug/L			04/26/19 00:32	1
Chloroform	ND		2.0	0.25	ug/L			04/26/19 00:32	1
Chloromethane	ND		5.0	0.25	ug/L			04/26/19 00:32	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 00:32	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 00:32	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/26/19 00:32	1
Dibromomethane	ND		2.0	0.25	ug/L			04/26/19 00:32	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/26/19 00:32	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/26/19 00:32	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/26/19 00:32	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/26/19 00:32	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/26/19 00:32	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/26/19 00:32	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/26/19 00:32	1
Naphthalene	ND		5.0	0.40	ug/L			04/26/19 00:32	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/26/19 00:32	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/26/19 00:32	1
o-Xylene	ND		2.0	0.25	ug/L			04/26/19 00:32	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/26/19 00:32	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 00:32	1
Styrene	ND		2.0	0.25	ug/L			04/26/19 00:32	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 00:32	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/26/19 00:32	1
Toluene	ND		2.0	0.25	ug/L			04/26/19 00:32	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 00:32	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 00:32	1
Trichloroethene	ND		2.0	0.25	ug/L			04/26/19 00:32	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/26/19 00:32	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/26/19 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*04/26/19 00:32*	*1*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*04/26/19 00:32*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*04/26/19 00:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*04/26/19 00:32*	*1*

Client Sample ID: PL-510-20190415

Lab Sample ID: 440-239073-3

Date Collected: 04/15/19 09:29
Matrix: Water
Date Received: 04/16/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/26/19 00:59	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 00:59	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/26/19 00:59	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239073-1
SDG: 3200C Henderson Sitewide

Client Sample ID: PL-510-20190415

Date Collected: 04/15/19 09:29
Date Received: 04/16/19 10:30

Lab Sample ID: 440-239073-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 00:59	1
1,1-Dichloroethane	**2.3**		2.0	0.25	ug/L			04/26/19 00:59	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/26/19 00:59	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 00:59	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 00:59	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/26/19 00:59	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 00:59	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 00:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/26/19 00:59	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/26/19 00:59	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 00:59	1
1,2-Dichloroethane	**1.1**	**J**	2.0	0.25	ug/L			04/26/19 00:59	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 00:59	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 00:59	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 00:59	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 00:59	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 00:59	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/26/19 00:59	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 00:59	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 00:59	1
Benzene	ND		2.0	0.25	ug/L			04/26/19 00:59	1
Bromobenzene	ND		5.0	0.25	ug/L			04/26/19 00:59	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/26/19 00:59	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/26/19 00:59	1
Bromoform	ND		5.0	0.40	ug/L			04/26/19 00:59	1
Bromomethane	ND		5.0	0.25	ug/L			04/26/19 00:59	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/26/19 00:59	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/26/19 00:59	1
Chloroethane	ND		5.0	0.40	ug/L			04/26/19 00:59	1
Chloroform	**1.3**	**J**	2.0	0.25	ug/L			04/26/19 00:59	1
Chloromethane	ND		5.0	0.25	ug/L			04/26/19 00:59	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 00:59	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 00:59	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/26/19 00:59	1
Dibromomethane	ND		2.0	0.25	ug/L			04/26/19 00:59	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/26/19 00:59	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/26/19 00:59	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/26/19 00:59	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/26/19 00:59	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/26/19 00:59	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/26/19 00:59	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/26/19 00:59	1
Naphthalene	ND		5.0	0.40	ug/L			04/26/19 00:59	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/26/19 00:59	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/26/19 00:59	1
o-Xylene	ND		2.0	0.25	ug/L			04/26/19 00:59	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/26/19 00:59	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 00:59	1
Styrene	ND		2.0	0.25	ug/L			04/26/19 00:59	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239073-1
SDG: 3200C Henderson Sitewide

Client Sample ID: PL-510-20190415

Date Collected: 04/15/19 09:29
Date Received: 04/16/19 10:30

Lab Sample ID: 440-239073-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 00:59	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/26/19 00:59	1
Toluene	ND		2.0	0.25	ug/L			04/26/19 00:59	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 00:59	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 00:59	1
Trichloroethene	ND		2.0	0.25	ug/L			04/26/19 00:59	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/26/19 00:59	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/26/19 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*04/26/19 00:59*	*1*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*04/26/19 00:59*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*04/26/19 00:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*04/26/19 00:59*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.097	0.019	ug/L		04/18/19 05:54	04/18/19 22:59	1
2,4'-DDE	ND		0.097	0.019	ug/L		04/18/19 05:54	04/18/19 22:59	1
2,4'-DDT	ND		0.097	0.019	ug/L		04/18/19 05:54	04/18/19 22:59	1
4,4'-DDD	ND		0.097	0.0039	ug/L		04/18/19 05:54	04/18/19 22:59	1
4,4'-DDE	ND		0.097	0.0029	ug/L		04/18/19 05:54	04/18/19 22:59	1
4,4'-DDT	ND		0.097	0.0039	ug/L		04/18/19 05:54	04/18/19 22:59	1
Aldrin	ND		0.0049	0.0015	ug/L		04/18/19 05:54	04/18/19 22:59	1
alpha-BHC	**0.015**		0.0049	0.0024	ug/L		04/18/19 05:54	04/18/19 22:59	1
beta-BHC	ND		0.0097	0.0039	ug/L		04/18/19 05:54	04/18/19 22:59	1
Chlordane	ND		0.097	0.078	ug/L		04/18/19 05:54	04/18/19 22:59	1
delta-BHC	ND		0.19	0.0034	ug/L		04/18/19 05:54	04/18/19 22:59	1
Dieldrin	ND		0.0049	0.0019	ug/L		04/18/19 05:54	04/18/19 22:59	1
Endosulfan I	ND		0.097	0.0029	ug/L		04/18/19 05:54	04/18/19 22:59	1
Endosulfan II	ND		0.097	0.0019	ug/L		04/18/19 05:54	04/18/19 22:59	1
Endosulfan sulfate	ND		0.19	0.0029	ug/L		04/18/19 05:54	04/18/19 22:59	1
Endrin	ND		0.097	0.0019	ug/L		04/18/19 05:54	04/18/19 22:59	1
Endrin aldehyde	ND		0.097	0.0019	ug/L		04/18/19 05:54	04/18/19 22:59	1
Endrin ketone	ND		0.097	0.0068	ug/L		04/18/19 05:54	04/18/19 22:59	1
gamma-BHC (Lindane)	**0.10**		0.097	0.0029	ug/L		04/18/19 05:54	04/18/19 22:59	1
Heptachlor	ND		0.0097	0.0029	ug/L		04/18/19 05:54	04/18/19 22:59	1
Heptachlor epoxide	ND		0.0049	0.0024	ug/L		04/18/19 05:54	04/18/19 22:59	1
Methoxychlor	ND		0.097	0.0034	ug/L		04/18/19 05:54	04/18/19 22:59	1
Toxaphene	ND		4.9	0.24	ug/L		04/18/19 05:54	04/18/19 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*28 - 108*	*04/18/19 05:54*	*04/18/19 22:59*	*1*
Tetrachloro-m-xylene	*43*		*10 - 123*	*04/18/19 05:54*	*04/18/19 22:59*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**24000**		4000	950	ug/L			04/24/19 18:38	1000

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239073-1
SDG: 3200C Henderson Sitewide

Client Sample ID: PL-510-20190415

Lab Sample ID: 440-239073-3

Date Collected: 04/15/19 09:29
Matrix: Water
Date Received: 04/16/19 10:30

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**76**		0.20	0.10	ug/L		04/19/19 07:42	04/19/19 15:40	1
Barium	**41**		0.20	0.10	ug/L		04/19/19 07:42	04/19/19 15:40	1
Cadmium	**0.14**		0.10	0.050	ug/L		04/19/19 07:42	04/19/19 15:40	1
Chromium	**8.8**		0.50	0.25	ug/L		04/19/19 07:42	04/19/19 15:40	1
Lead	**0.62**		0.10	0.050	ug/L		04/19/19 07:42	04/19/19 15:40	1
Selenium	**4.6**		0.60	0.30	ug/L		04/19/19 07:42	04/19/19 15:40	1
Silver	ND		0.20	0.10	ug/L		04/19/19 07:42	04/19/19 15:40	1
Uranium	**47**		0.10	0.050	ug/L		04/19/19 07:42	04/19/19 15:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/24/19 12:46	04/25/19 08:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**7700**		100	50	mg/L			04/22/19 08:01	1

Client Sample ID: M-057A-20190415

Lab Sample ID: 440-239073-4

Date Collected: 04/15/19 08:59
Matrix: Water
Date Received: 04/16/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/26/19 01:25	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 01:25	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/26/19 01:25	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 01:25	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 01:25	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/26/19 01:25	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 01:25	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 01:25	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/26/19 01:25	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 01:25	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 01:25	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/26/19 01:25	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/26/19 01:25	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 01:25	1
1,2-Dichloroethane	**0.33**	**J**	2.0	0.25	ug/L			04/26/19 01:25	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 01:25	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 01:25	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 01:25	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 01:25	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 01:25	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/26/19 01:25	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 01:25	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 01:25	1
Benzene	ND		2.0	0.25	ug/L			04/26/19 01:25	1
Bromobenzene	ND		5.0	0.25	ug/L			04/26/19 01:25	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/26/19 01:25	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/26/19 01:25	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239073-1
SDG: 3200C Henderson Sitewide

Client Sample ID: M-057A-20190415

Lab Sample ID: 440-239073-4

Date Collected: 04/15/19 08:59
Date Received: 04/16/19 10:30

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		5.0	0.40	ug/L			04/26/19 01:25	1
Bromomethane	ND		5.0	0.25	ug/L			04/26/19 01:25	1
Carbon tetrachloride	**5.5**		1.0	0.25	ug/L			04/26/19 01:25	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/26/19 01:25	1
Chloroethane	ND		5.0	0.40	ug/L			04/26/19 01:25	1
Chloromethane	ND		5.0	0.25	ug/L			04/26/19 01:25	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 01:25	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 01:25	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/26/19 01:25	1
Dibromomethane	ND		2.0	0.25	ug/L			04/26/19 01:25	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/26/19 01:25	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/26/19 01:25	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/26/19 01:25	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/26/19 01:25	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/26/19 01:25	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/26/19 01:25	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/26/19 01:25	1
Naphthalene	ND		5.0	0.40	ug/L			04/26/19 01:25	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/26/19 01:25	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/26/19 01:25	1
o-Xylene	ND		2.0	0.25	ug/L			04/26/19 01:25	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/26/19 01:25	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 01:25	1
Styrene	ND		2.0	0.25	ug/L			04/26/19 01:25	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 01:25	1
Tetrachloroethene	**0.49**	**J**	2.0	0.25	ug/L			04/26/19 01:25	1
Toluene	ND		2.0	0.25	ug/L			04/26/19 01:25	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 01:25	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 01:25	1
Trichloroethene	**1.0**	**J**	2.0	0.25	ug/L			04/26/19 01:25	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/26/19 01:25	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/26/19 01:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*04/26/19 01:25*	*1*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*04/26/19 01:25*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*04/26/19 01:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*04/26/19 01:25*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	**770**		20	2.5	ug/L			04/27/19 01:34	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*04/27/19 01:34*	*10*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*04/27/19 01:34*	*10*
Toluene-d8 (Surr)	*105*		*80 - 128*		*04/27/19 01:34*	*10*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*04/27/19 01:34*	*10*

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239073-1
SDG: 3200C Henderson Sitewide

Client Sample ID: M-057A-20190415

Date Collected: 04/15/19 08:59
Date Received: 04/16/19 10:30

Lab Sample ID: 440-239073-4

Matrix: Water

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.099	0.020	ug/L		04/18/19 05:54	04/18/19 23:25	1
2,4'-DDE	ND		0.099	0.020	ug/L		04/18/19 05:54	04/18/19 23:25	1
2,4'-DDT	ND		0.099	0.020	ug/L		04/18/19 05:54	04/18/19 23:25	1
4,4'-DDD	ND		0.099	0.0039	ug/L		04/18/19 05:54	04/18/19 23:25	1
4,4'-DDE	ND		0.099	0.0030	ug/L		04/18/19 05:54	04/18/19 23:25	1
4,4'-DDT	ND		0.099	0.0039	ug/L		04/18/19 05:54	04/18/19 23:25	1
Aldrin	ND		0.0049	0.0015	ug/L		04/18/19 05:54	04/18/19 23:25	1
alpha-BHC	ND		0.0049	0.0025	ug/L		04/18/19 05:54	04/18/19 23:25	1
beta-BHC	ND		0.0099	0.0039	ug/L		04/18/19 05:54	04/18/19 23:25	1
Chlordane	ND		0.099	0.079	ug/L		04/18/19 05:54	04/18/19 23:25	1
delta-BHC	ND		0.20	0.0034	ug/L		04/18/19 05:54	04/18/19 23:25	1
Dieldrin	ND		0.0049	0.0020	ug/L		04/18/19 05:54	04/18/19 23:25	1
Endosulfan I	ND		0.099	0.0030	ug/L		04/18/19 05:54	04/18/19 23:25	1
Endosulfan II	ND		0.099	0.0020	ug/L		04/18/19 05:54	04/18/19 23:25	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/18/19 05:54	04/18/19 23:25	1
Endrin	ND		0.099	0.0020	ug/L		04/18/19 05:54	04/18/19 23:25	1
Endrin aldehyde	ND		0.099	0.0020	ug/L		04/18/19 05:54	04/18/19 23:25	1
Endrin ketone	ND		0.099	0.0069	ug/L		04/18/19 05:54	04/18/19 23:25	1
gamma-BHC (Lindane)	ND		0.099	0.0030	ug/L		04/18/19 05:54	04/18/19 23:25	1
Heptachlor	ND		0.0099	0.0030	ug/L		04/18/19 05:54	04/18/19 23:25	1
Heptachlor epoxide	ND		0.0049	0.0025	ug/L		04/18/19 05:54	04/18/19 23:25	1
Methoxychlor	ND		0.099	0.0034	ug/L		04/18/19 05:54	04/18/19 23:25	1
Toxaphene	ND		4.9	0.25	ug/L		04/18/19 05:54	04/18/19 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*28 - 108*	*04/18/19 05:54*	*04/18/19 23:25*	*1*
Tetrachloro-m-xylene	*60*		*10 - 123*	*04/18/19 05:54*	*04/18/19 23:25*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**10000**		4000	950	ug/L			04/25/19 11:26	1000

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**150**		0.20	0.10	ug/L		04/19/19 07:42	04/19/19 16:26	1
Barium	**38**		0.20	0.10	ug/L		04/19/19 07:42	04/19/19 16:26	1
Cadmium	**0.088**	**J**	0.10	0.050	ug/L		04/19/19 07:42	04/19/19 16:26	1
Chromium	**58**		0.50	0.25	ug/L		04/19/19 07:42	04/19/19 16:26	1
Lead	**1.8**		0.10	0.050	ug/L		04/19/19 07:42	04/19/19 16:26	1
Selenium	**3.9**		0.60	0.30	ug/L		04/19/19 07:42	04/19/19 16:26	1
Silver	ND		0.20	0.10	ug/L		04/19/19 07:42	04/19/19 16:26	1
Uranium	**8.7**		0.10	0.050	ug/L		04/19/19 07:42	04/19/19 16:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/24/19 12:46	04/25/19 08:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**3300**		50	25	mg/L			04/22/19 08:01	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239073-1
SDG: 3200C Henderson Sitewide

Client Sample ID: M-007B-20190415

Lab Sample ID: 440-239073-5

Date Collected: 04/15/19 08:59
Date Received: 04/16/19 10:30

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/26/19 01:52	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 01:52	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/26/19 01:52	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 01:52	1
1,1-Dichloroethane	**2.3**		2.0	0.25	ug/L			04/26/19 01:52	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/26/19 01:52	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 01:52	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 01:52	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/26/19 01:52	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 01:52	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 01:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/26/19 01:52	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/26/19 01:52	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 01:52	1
1,2-Dichloroethane	**1.0**	**J**	2.0	0.25	ug/L			04/26/19 01:52	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 01:52	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 01:52	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 01:52	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 01:52	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 01:52	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/26/19 01:52	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 01:52	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 01:52	1
Benzene	ND		2.0	0.25	ug/L			04/26/19 01:52	1
Bromobenzene	ND		5.0	0.25	ug/L			04/26/19 01:52	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/26/19 01:52	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/26/19 01:52	1
Bromoform	ND		5.0	0.40	ug/L			04/26/19 01:52	1
Bromomethane	ND		5.0	0.25	ug/L			04/26/19 01:52	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/26/19 01:52	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/26/19 01:52	1
Chloroethane	ND		5.0	0.40	ug/L			04/26/19 01:52	1
Chloroform	**1.5**	**J**	2.0	0.25	ug/L			04/26/19 01:52	1
Chloromethane	ND		5.0	0.25	ug/L			04/26/19 01:52	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 01:52	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 01:52	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/26/19 01:52	1
Dibromomethane	ND		2.0	0.25	ug/L			04/26/19 01:52	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/26/19 01:52	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/26/19 01:52	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/26/19 01:52	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/26/19 01:52	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/26/19 01:52	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/26/19 01:52	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/26/19 01:52	1
Naphthalene	ND		5.0	0.40	ug/L			04/26/19 01:52	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/26/19 01:52	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/26/19 01:52	1
o-Xylene	ND		2.0	0.25	ug/L			04/26/19 01:52	1

Client Sample ID: M-007B-20190415

Lab Sample ID: 440-239073-5

Date Collected: 04/15/19 08:59
Matrix: Water
Date Received: 04/16/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/26/19 01:52	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 01:52	1
Styrene	ND		2.0	0.25	ug/L			04/26/19 01:52	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 01:52	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/26/19 01:52	1
Toluene	ND		2.0	0.25	ug/L			04/26/19 01:52	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 01:52	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 01:52	1
Trichloroethene	ND		2.0	0.25	ug/L			04/26/19 01:52	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/26/19 01:52	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/26/19 01:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*04/26/19 01:52*	*1*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*04/26/19 01:52*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*04/26/19 01:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*04/26/19 01:52*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.097	0.019	ug/L		04/18/19 05:54	04/18/19 23:52	1
2,4'-DDE	ND		0.097	0.019	ug/L		04/18/19 05:54	04/18/19 23:52	1
2,4'-DDT	ND		0.097	0.019	ug/L		04/18/19 05:54	04/18/19 23:52	1
4,4'-DDD	ND		0.097	0.0039	ug/L		04/18/19 05:54	04/18/19 23:52	1
4,4'-DDE	ND		0.097	0.0029	ug/L		04/18/19 05:54	04/18/19 23:52	1
4,4'-DDT	ND		0.097	0.0039	ug/L		04/18/19 05:54	04/18/19 23:52	1
Aldrin	ND		0.0049	0.0015	ug/L		04/18/19 05:54	04/18/19 23:52	1
alpha-BHC	**0.016**		0.0049	0.0024	ug/L		04/18/19 05:54	04/18/19 23:52	1
beta-BHC	ND		0.0097	0.0039	ug/L		04/18/19 05:54	04/18/19 23:52	1
Chlordane	ND		0.097	0.078	ug/L		04/18/19 05:54	04/18/19 23:52	1
delta-BHC	**0.0037**	**J p**	0.19	0.0034	ug/L		04/18/19 05:54	04/18/19 23:52	1
Dieldrin	ND		0.0049	0.0019	ug/L		04/18/19 05:54	04/18/19 23:52	1
Endosulfan I	ND		0.097	0.0029	ug/L		04/18/19 05:54	04/18/19 23:52	1
Endosulfan II	ND		0.097	0.0019	ug/L		04/18/19 05:54	04/18/19 23:52	1
Endosulfan sulfate	ND		0.19	0.0029	ug/L		04/18/19 05:54	04/18/19 23:52	1
Endrin	ND		0.097	0.0019	ug/L		04/18/19 05:54	04/18/19 23:52	1
Endrin aldehyde	ND		0.097	0.0019	ug/L		04/18/19 05:54	04/18/19 23:52	1
Endrin ketone	ND		0.097	0.0068	ug/L		04/18/19 05:54	04/18/19 23:52	1
gamma-BHC (Lindane)	**0.11**		0.097	0.0029	ug/L		04/18/19 05:54	04/18/19 23:52	1
Heptachlor	ND		0.0097	0.0029	ug/L		04/18/19 05:54	04/18/19 23:52	1
Heptachlor epoxide	ND		0.0049	0.0024	ug/L		04/18/19 05:54	04/18/19 23:52	1
Methoxychlor	ND		0.097	0.0034	ug/L		04/18/19 05:54	04/18/19 23:52	1
Toxaphene	ND		4.9	0.24	ug/L		04/18/19 05:54	04/18/19 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*28 - 108*	*04/18/19 05:54*	*04/18/19 23:52*	*1*
Tetrachloro-m-xylene	*49*		*10 - 123*	*04/18/19 05:54*	*04/18/19 23:52*	*1*

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239073-1
SDG: 3200C Henderson Sitewide

Client Sample ID: M-007B-20190415

Lab Sample ID: 440-239073-5
Matrix: Water
Date Collected: 04/15/19 08:59
Date Received: 04/16/19 10:30

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**14000**		4000	950	ug/L			04/24/19 18:59	1000

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**78**		0.20	0.10	ug/L		04/19/19 07:42	04/19/19 16:29	1
Barium	**54**		0.20	0.10	ug/L		04/19/19 07:42	04/19/19 16:29	1
Cadmium	**0.22**		0.10	0.050	ug/L		04/19/19 07:42	04/19/19 16:29	1
Chromium	**5.5**		0.50	0.25	ug/L		04/19/19 07:42	04/19/19 16:29	1
Lead	**1.4**		0.10	0.050	ug/L		04/19/19 07:42	04/19/19 16:29	1
Selenium	**4.5**		0.60	0.30	ug/L		04/19/19 07:42	04/19/19 16:29	1
Silver	ND		0.20	0.10	ug/L		04/19/19 07:42	04/19/19 16:29	1
Uranium	**49**		0.10	0.050	ug/L		04/19/19 07:42	04/19/19 16:29	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/24/19 12:46	04/25/19 08:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**7900**		100	50	mg/L			04/22/19 08:01	1

Client Sample ID: M-142-20190415

Lab Sample ID: 440-239073-6
Matrix: Water
Date Collected: 04/15/19 10:20
Date Received: 04/16/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/25/19 22:44	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/25/19 22:44	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/25/19 22:44	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/25/19 22:44	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/25/19 22:44	1
1,1-Dichloroethene	**0.51**	**J**	5.0	0.25	ug/L			04/25/19 22:44	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 22:44	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/25/19 22:44	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/25/19 22:44	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/25/19 22:44	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/25/19 22:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/25/19 22:44	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/25/19 22:44	1
1,2-Dichlorobenzene	**0.29**	**J**	2.0	0.25	ug/L			04/25/19 22:44	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/25/19 22:44	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/25/19 22:44	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/25/19 22:44	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 22:44	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/25/19 22:44	1
1,4-Dichlorobenzene	**0.29**	**J**	2.0	0.25	ug/L			04/25/19 22:44	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/25/19 22:44	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/25/19 22:44	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/25/19 22:44	1
Benzene	ND		2.0	0.25	ug/L			04/25/19 22:44	1

Client Sample ID: M-142-20190415

Lab Sample ID: 440-239073-6

Date Collected: 04/15/19 10:20
Date Received: 04/16/19 10:30

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		5.0	0.25	ug/L			04/25/19 22:44	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/25/19 22:44	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/25/19 22:44	1
Bromoform	ND		5.0	0.40	ug/L			04/25/19 22:44	1
Bromomethane	ND		5.0	0.25	ug/L			04/25/19 22:44	1
Carbon tetrachloride	**0.73**	**J**	1.0	0.25	ug/L			04/25/19 22:44	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/25/19 22:44	1
Chloroethane	ND		5.0	0.40	ug/L			04/25/19 22:44	1
Chloroform	**66**		2.0	0.25	ug/L			04/25/19 22:44	1
Chloromethane	ND		5.0	0.25	ug/L			04/25/19 22:44	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/25/19 22:44	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 22:44	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/25/19 22:44	1
Dibromomethane	ND		2.0	0.25	ug/L			04/25/19 22:44	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/25/19 22:44	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/25/19 22:44	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/25/19 22:44	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/25/19 22:44	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/25/19 22:44	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/25/19 22:44	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/25/19 22:44	1
Naphthalene	ND		5.0	0.40	ug/L			04/25/19 22:44	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/25/19 22:44	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/25/19 22:44	1
o-Xylene	ND		2.0	0.25	ug/L			04/25/19 22:44	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/25/19 22:44	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/25/19 22:44	1
Styrene	ND		2.0	0.25	ug/L			04/25/19 22:44	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/25/19 22:44	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/25/19 22:44	1
Toluene	ND		2.0	0.25	ug/L			04/25/19 22:44	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/25/19 22:44	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 22:44	1
Trichloroethene	**2.6**		2.0	0.25	ug/L			04/25/19 22:44	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/25/19 22:44	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/25/19 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*04/25/19 22:44*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*04/25/19 22:44*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*04/25/19 22:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*04/25/19 22:44*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.021	ug/L		04/18/19 05:54	04/18/19 22:32	1
2,4'-DDE	ND		0.10	0.021	ug/L		04/18/19 05:54	04/18/19 22:32	1
2,4'-DDT	ND		0.10	0.021	ug/L		04/18/19 05:54	04/18/19 22:32	1
4,4'-DDD	ND		0.10	0.0041	ug/L		04/18/19 05:54	04/18/19 22:32	1
4,4'-DDE	ND		0.10	0.0031	ug/L		04/18/19 05:54	04/18/19 22:32	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239073-1
SDG: 3200C Henderson Sitewide

Client Sample ID: M-142-20190415

Date Collected: 04/15/19 10:20
Date Received: 04/16/19 10:30

Lab Sample ID: 440-239073-6

Matrix: Water

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	ND		0.10	0.0041	ug/L		04/18/19 05:54	04/18/19 22:32	1
Aldrin	ND		0.0052	0.0015	ug/L		04/18/19 05:54	04/18/19 22:32	1
alpha-BHC	ND		0.0052	0.0026	ug/L		04/18/19 05:54	04/18/19 22:32	1
beta-BHC	ND		0.010	0.0041	ug/L		04/18/19 05:54	04/18/19 22:32	1
Chlordane	ND		0.10	0.082	ug/L		04/18/19 05:54	04/18/19 22:32	1
delta-BHC	ND		0.21	0.0036	ug/L		04/18/19 05:54	04/18/19 22:32	1
Dieldrin	ND		0.0052	0.0021	ug/L		04/18/19 05:54	04/18/19 22:32	1
Endosulfan I	ND		0.10	0.0031	ug/L		04/18/19 05:54	04/18/19 22:32	1
Endosulfan II	ND		0.10	0.0021	ug/L		04/18/19 05:54	04/18/19 22:32	1
Endosulfan sulfate	ND		0.21	0.0031	ug/L		04/18/19 05:54	04/18/19 22:32	1
Endrin	ND		0.10	0.0021	ug/L		04/18/19 05:54	04/18/19 22:32	1
Endrin aldehyde	ND		0.10	0.0021	ug/L		04/18/19 05:54	04/18/19 22:32	1
Endrin ketone	ND		0.10	0.0072	ug/L		04/18/19 05:54	04/18/19 22:32	1
gamma-BHC (Lindane)	ND		0.10	0.0031	ug/L		04/18/19 05:54	04/18/19 22:32	1
Heptachlor	ND		0.010	0.0031	ug/L		04/18/19 05:54	04/18/19 22:32	1
Heptachlor epoxide	ND		0.0052	0.0026	ug/L		04/18/19 05:54	04/18/19 22:32	1
Methoxychlor	ND		0.10	0.0036	ug/L		04/18/19 05:54	04/18/19 22:32	1
Toxaphene	ND		5.2	0.26	ug/L		04/18/19 05:54	04/18/19 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*28 - 108*	*04/18/19 05:54*	*04/18/19 22:32*	*1*
Tetrachloro-m-xylene	*56*		*10 - 123*	*04/18/19 05:54*	*04/18/19 22:32*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**3900**		400	95	ug/L			04/22/19 11:27	100

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**58**		0.20	0.10	ug/L		04/19/19 07:42	04/19/19 15:28	1
Barium	**47**		0.20	0.10	ug/L		04/19/19 07:42	04/19/19 15:28	1
Cadmium	**0.27**		0.10	0.050	ug/L		04/19/19 07:42	04/19/19 15:28	1
Chromium	**30**		0.50	0.25	ug/L		04/19/19 07:42	04/19/19 15:28	1
Lead	**1.7**		0.10	0.050	ug/L		04/19/19 07:42	04/19/19 15:28	1
Selenium	**3.4**		0.60	0.30	ug/L		04/19/19 07:42	04/19/19 15:28	1
Silver	**0.28**		0.20	0.10	ug/L		04/19/19 07:42	04/19/19 15:28	1
Uranium	**6.5**		0.10	0.050	ug/L		04/19/19 07:42	04/19/19 15:28	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/24/19 12:46	04/25/19 08:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**2800**		20	10	mg/L			04/22/19 08:01	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239073-1
SDG: 3200C Henderson Sitewide

Client Sample ID: M-149-20190415

Lab Sample ID: 440-239073-7

Date Collected: 04/15/19 09:10
Date Received: 04/16/19 10:30

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/26/19 02:18	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 02:18	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/26/19 02:18	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 02:18	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 02:18	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/26/19 02:18	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 02:18	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 02:18	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/26/19 02:18	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 02:18	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 02:18	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/26/19 02:18	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/26/19 02:18	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 02:18	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 02:18	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 02:18	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 02:18	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 02:18	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 02:18	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 02:18	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/26/19 02:18	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 02:18	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 02:18	1
Benzene	**0.25**	**J**	2.0	0.25	ug/L			04/26/19 02:18	1
Bromobenzene	ND		5.0	0.25	ug/L			04/26/19 02:18	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/26/19 02:18	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/26/19 02:18	1
Bromoform	ND		5.0	0.40	ug/L			04/26/19 02:18	1
Bromomethane	ND		5.0	0.25	ug/L			04/26/19 02:18	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/26/19 02:18	1
Chlorobenzene	**1.5**	**J**	2.0	0.25	ug/L			04/26/19 02:18	1
Chloroethane	ND		5.0	0.40	ug/L			04/26/19 02:18	1
Chloroform	**47**		2.0	0.25	ug/L			04/26/19 02:18	1
Chloromethane	ND		5.0	0.25	ug/L			04/26/19 02:18	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 02:18	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 02:18	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/26/19 02:18	1
Dibromomethane	ND		2.0	0.25	ug/L			04/26/19 02:18	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/26/19 02:18	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/26/19 02:18	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/26/19 02:18	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/26/19 02:18	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/26/19 02:18	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/26/19 02:18	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/26/19 02:18	1
Naphthalene	ND		5.0	0.40	ug/L			04/26/19 02:18	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/26/19 02:18	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/26/19 02:18	1
o-Xylene	ND		2.0	0.25	ug/L			04/26/19 02:18	1

Client Sample ID: M-149-20190415

Date Collected: 04/15/19 09:10
Date Received: 04/16/19 10:30

Lab Sample ID: 440-239073-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/26/19 02:18	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 02:18	1
Styrene	ND		2.0	0.25	ug/L			04/26/19 02:18	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 02:18	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/26/19 02:18	1
Toluene	ND		2.0	0.25	ug/L			04/26/19 02:18	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 02:18	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 02:18	1
Trichloroethene	ND		2.0	0.25	ug/L			04/26/19 02:18	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/26/19 02:18	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/26/19 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*04/26/19 02:18*	*1*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*04/26/19 02:18*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*04/26/19 02:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*04/26/19 02:18*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/18/19 05:54	04/19/19 00:19	1
2,4'-DDE	ND		0.10	0.020	ug/L		04/18/19 05:54	04/19/19 00:19	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/18/19 05:54	04/19/19 00:19	1
4,4'-DDD	ND		0.10	0.0040	ug/L		04/18/19 05:54	04/19/19 00:19	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/18/19 05:54	04/19/19 00:19	1
4,4'-DDT	ND		0.10	0.0040	ug/L		04/18/19 05:54	04/19/19 00:19	1
Aldrin	ND		0.0050	0.0015	ug/L		04/18/19 05:54	04/19/19 00:19	1
alpha-BHC	ND		0.0050	0.0025	ug/L		04/18/19 05:54	04/19/19 00:19	1
beta-BHC	ND		0.010	0.0040	ug/L		04/18/19 05:54	04/19/19 00:19	1
Chlordane	ND		0.10	0.080	ug/L		04/18/19 05:54	04/19/19 00:19	1
delta-BHC	ND		0.20	0.0035	ug/L		04/18/19 05:54	04/19/19 00:19	1
Dieldrin	ND		0.0050	0.0020	ug/L		04/18/19 05:54	04/19/19 00:19	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/18/19 05:54	04/19/19 00:19	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/18/19 05:54	04/19/19 00:19	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/18/19 05:54	04/19/19 00:19	1
Endrin	ND		0.10	0.0020	ug/L		04/18/19 05:54	04/19/19 00:19	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/18/19 05:54	04/19/19 00:19	1
Endrin ketone	ND		0.10	0.0070	ug/L		04/18/19 05:54	04/19/19 00:19	1
gamma-BHC (Lindane)	ND		0.10	0.0030	ug/L		04/18/19 05:54	04/19/19 00:19	1
Heptachlor	ND		0.010	0.0030	ug/L		04/18/19 05:54	04/19/19 00:19	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/18/19 05:54	04/19/19 00:19	1
Methoxychlor	ND		0.10	0.0035	ug/L		04/18/19 05:54	04/19/19 00:19	1
Toxaphene	ND		5.0	0.25	ug/L		04/18/19 05:54	04/19/19 00:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*28 - 108*	*04/18/19 05:54*	*04/19/19 00:19*	*1*
Tetrachloro-m-xylene	*57*		*10 - 123*	*04/18/19 05:54*	*04/19/19 00:19*	*1*

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239073-1
SDG: 3200C Henderson Sitewide

Client Sample ID: M-149-20190415

Lab Sample ID: 440-239073-7

Date Collected: 04/15/19 09:10
Date Received: 04/16/19 10:30

Matrix: Water

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	290000		40000	9500	ug/L			04/25/19 11:46	10000

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	29		0.20	0.10	ug/L		04/19/19 07:42	04/19/19 15:59	1
Barium	53		0.20	0.10	ug/L		04/19/19 07:42	04/19/19 15:59	1
Cadmium	0.055	J	0.10	0.050	ug/L		04/19/19 07:42	04/19/19 15:59	1
Chromium	1600		0.50	0.25	ug/L		04/19/19 07:42	04/19/19 15:59	1
Lead	0.43		0.10	0.050	ug/L		04/19/19 07:42	04/19/19 15:59	1
Selenium	1.8		0.60	0.30	ug/L		04/19/19 07:42	04/19/19 15:59	1
Silver	ND		0.20	0.10	ug/L		04/19/19 07:42	04/19/19 15:59	1
Uranium	5.1		0.10	0.050	ug/L		04/19/19 07:42	04/19/19 15:59	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/24/19 12:46	04/25/19 09:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1800		20	10	mg/L			04/22/19 08:01	1

Surrogate Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239073-1
SDG: 3200C Henderson Sitewide

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB (80-120)	DBFM (76-132)	TOL (80-128)	DCA (70-130)
440-239073-1	TB-20190415	92	108	103	95
440-239073-2	PL-509-20190415	91	108	105	94
440-239073-3	PL-510-20190415	92	109	104	97
440-239073-4	M-057A-20190415	92	109	104	92
440-239073-4 - DL	M-057A-20190415	90	107	105	91
440-239073-4 MS	M-057A-20190415	91	107	99	90
440-239073-4 MSD	M-057A-20190415	93	106	99	90
440-239073-5	M-007B-20190415	90	110	104	94
440-239073-6	M-142-20190415	94	102	103	90
440-239073-6 MS	M-142-20190415	91	110	101	93
440-239073-6 MSD	M-142-20190415	93	108	100	92
440-239073-7	M-149-20190415	91	107	104	93
LCS 440-542648/5	Lab Control Sample	92	105	100	88
LCS 440-542932/4	Lab Control Sample	93	105	99	91
MB 440-542648/7	Method Blank	90	105	104	88
MB 440-542932/6	Method Blank	90	110	105	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCB2 (28-108)	TCX2 (10-123)
440-239073-3	PL-510-20190415	72	43
440-239073-4	M-057A-20190415	74	60
440-239073-5	M-007B-20190415	72	49
440-239073-6	M-142-20190415	74	56
440-239073-6 MS	M-142-20190415	78	50
440-239073-6 MSD	M-142-20190415	74	49
440-239073-7	M-149-20190415	76	57
LCS 440-541076/2-A	Lab Control Sample	86	68
MB 440-541076/1-A	Method Blank	92	65

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239073-1
SDG: 3200C Henderson Sitewide

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
314.0	Perchlorate (IC)	EPA	TAL IRV
6020	Metals (ICP/MS)	SW846	TAL IRV
7470A	Mercury (CVAA)	SW846	TAL IRV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL IRV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239073-1
SDG: 3200C Henderson Sitewide

Client Sample ID: TB-20190415 — Lab Sample ID: 440-239073-1

Date Collected: 04/15/19 06:50 — **Matrix: Water**
Date Received: 04/16/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542648	04/26/19 00:05	OH1	TAL IRV

Client Sample ID: PL-509-20190415 — Lab Sample ID: 440-239073-2

Date Collected: 04/15/19 10:40 — **Matrix: Water**
Date Received: 04/16/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542648	04/26/19 00:32	OH1	TAL IRV

Client Sample ID: PL-510-20190415 — Lab Sample ID: 440-239073-3

Date Collected: 04/15/19 09:29 — **Matrix: Water**
Date Received: 04/16/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542648	04/26/19 00:59	OH1	TAL IRV
Total/NA	Prep	3510C			1030 mL	2 mL	541076	04/18/19 05:54	L1H	TAL IRV
Total/NA	Analysis	8081A		1			541197	04/18/19 22:59	D1D	TAL IRV
Total/NA	Analysis	314.0		1000			542285	04/24/19 18:38	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	541389	04/19/19 07:42	BV	TAL IRV
Total Recoverable	Analysis	6020		1			541513	04/19/19 15:40	EMS	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542288	04/24/19 12:46	DB	TAL IRV
Total/NA	Analysis	7470A		1			542576	04/25/19 08:58	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	541690	04/22/19 08:01	XL	TAL IRV

Client Sample ID: M-057A-20190415 — Lab Sample ID: 440-239073-4

Date Collected: 04/15/19 08:59 — **Matrix: Water**
Date Received: 04/16/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542648	04/26/19 01:25	OH1	TAL IRV
Total/NA	Analysis	8260B	DL	10	10 mL	10 mL	542932	04/27/19 01:34	TCN	TAL IRV
Total/NA	Prep	3510C			1015 mL	2 mL	541076	04/18/19 05:54	L1H	TAL IRV
Total/NA	Analysis	8081A		1			541197	04/18/19 23:25	D1D	TAL IRV
Total/NA	Analysis	314.0		1000			542483	04/25/19 11:26	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	541389	04/19/19 07:42	BV	TAL IRV
Total Recoverable	Analysis	6020		1			541513	04/19/19 16:26	EMS	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542288	04/24/19 12:46	DB	TAL IRV
Total/NA	Analysis	7470A		1			542576	04/25/19 08:53	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	541690	04/22/19 08:01	XL	TAL IRV

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239073-1
SDG: 3200C Henderson Sitewide

Client Sample ID: M-007B-20190415

Lab Sample ID: 440-239073-5

Date Collected: 04/15/19 08:59
Matrix: Water
Date Received: 04/16/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542648	04/26/19 01:52	OH1	TAL IRV
Total/NA	Prep	3510C			1030 mL	2 mL	541076	04/18/19 05:54	L1H	TAL IRV
Total/NA	Analysis	8081A		1			541197	04/18/19 23:52	D1D	TAL IRV
Total/NA	Analysis	314.0		1000			542285	04/24/19 18:59	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	541389	04/19/19 07:42	BV	TAL IRV
Total Recoverable	Analysis	6020		1			541513	04/19/19 16:29	EMS	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542288	04/24/19 12:46	DB	TAL IRV
Total/NA	Analysis	7470A		1			542576	04/25/19 08:55	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	541690	04/22/19 08:01	XL	TAL IRV

Client Sample ID: M-142-20190415

Lab Sample ID: 440-239073-6

Date Collected: 04/15/19 10:20
Matrix: Water
Date Received: 04/16/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542648	04/25/19 22:44	OH1	TAL IRV
Total/NA	Prep	3510C			970 mL	2 mL	541076	04/18/19 05:54	L1H	TAL IRV
Total/NA	Analysis	8081A		1			541197	04/18/19 22:32	D1D	TAL IRV
Total/NA	Analysis	314.0		100			541696	04/22/19 11:27	PS	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	541389	04/19/19 07:42	BV	TAL IRV
Total Recoverable	Analysis	6020		1			541513	04/19/19 15:28	EMS	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542288	04/24/19 12:46	DB	TAL IRV
Total/NA	Analysis	7470A		1			542576	04/25/19 08:42	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	541690	04/22/19 08:01	XL	TAL IRV

Client Sample ID: M-149-20190415

Lab Sample ID: 440-239073-7

Date Collected: 04/15/19 09:10
Matrix: Water
Date Received: 04/16/19 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542648	04/26/19 02:18	OH1	TAL IRV
Total/NA	Prep	3510C			1005 mL	2 mL	541076	04/18/19 05:54	L1H	TAL IRV
Total/NA	Analysis	8081A		1			541197	04/19/19 00:19	D1D	TAL IRV
Total/NA	Analysis	314.0		10000			542483	04/25/19 11:46	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	541389	04/19/19 07:42	BV	TAL IRV
Total Recoverable	Analysis	6020		1			541513	04/19/19 15:59	EMS	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542288	04/24/19 12:46	DB	TAL IRV
Total/NA	Analysis	7470A		1			542576	04/25/19 09:25	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	541690	04/22/19 08:01	XL	TAL IRV

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-542648/7
Matrix: Water
Analysis Batch: 542648

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/25/19 21:27	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/25/19 21:27	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/25/19 21:27	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/25/19 21:27	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/25/19 21:27	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/25/19 21:27	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/25/19 21:27	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/25/19 21:27	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Benzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Bromobenzene	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Bromoform	ND		5.0	0.40	ug/L			04/25/19 21:27	1
Bromomethane	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/25/19 21:27	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Chloroethane	ND		5.0	0.40	ug/L			04/25/19 21:27	1
Chloroform	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Chloromethane	ND		5.0	0.25	ug/L			04/25/19 21:27	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Dibromomethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/25/19 21:27	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/25/19 21:27	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/25/19 21:27	1
Naphthalene	ND		5.0	0.40	ug/L			04/25/19 21:27	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/25/19 21:27	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-542648/7
Matrix: Water
Analysis Batch: 542648

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Styrene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Toluene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Trichloroethene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/25/19 21:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*04/25/19 21:27*	*1*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*04/25/19 21:27*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*04/25/19 21:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*04/25/19 21:27*	*1*

Lab Sample ID: LCS 440-542648/5
Matrix: Water
Analysis Batch: 542648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	11.6		ug/L		116	60 - 141
1,1,1-Trichloroethane	10.0	10.7		ug/L		107	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.04		ug/L		90	63 - 130
1,1,2-Trichloroethane	10.0	8.71		ug/L		87	70 - 130
1,1-Dichloroethane	10.0	10.4		ug/L		104	64 - 130
1,1-Dichloroethene	10.0	11.1		ug/L		111	70 - 130
1,1-Dichloropropene	10.0	10.0		ug/L		100	70 - 130
1,2,3-Trichlorobenzene	10.0	12.1		ug/L		121	60 - 140
1,2,3-Trichloropropane	10.0	8.42	J	ug/L		84	63 - 130
1,2,4-Trichlorobenzene	10.0	12.1		ug/L		121	60 - 140
1,2,4-Trimethylbenzene	10.0	11.1		ug/L		111	70 - 135
1,2-Dibromo-3-Chloropropane	10.0	8.54		ug/L		85	52 - 140
1,2-Dibromoethane (EDB)	10.0	8.49		ug/L		85	70 - 130
1,2-Dichlorobenzene	10.0	11.5		ug/L		115	70 - 130
1,2-Dichloroethane	10.0	8.38		ug/L		84	57 - 138
1,2-Dichloropropane	10.0	8.66		ug/L		87	67 - 130
1,3,5-Trimethylbenzene	10.0	11.2		ug/L		112	70 - 136
1,3-Dichlorobenzene	10.0	10.7		ug/L		107	70 - 130
1,3-Dichloropropane	10.0	8.49		ug/L		85	70 - 130
1,4-Dichlorobenzene	10.0	10.4		ug/L		104	70 - 130
2,2-Dichloropropane	10.0	12.0		ug/L		120	68 - 141
2-Chlorotoluene	10.0	10.7		ug/L		107	70 - 130
4-Chlorotoluene	10.0	10.2		ug/L		102	70 - 130
Benzene	10.0	9.80		ug/L		98	68 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-542648/5
Matrix: Water
Analysis Batch: 542648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	10.0	10.4		ug/L		104	70 - 130
Bromochloromethane	10.0	10.9		ug/L		109	70 - 130
Bromodichloromethane	10.0	9.24		ug/L		92	70 - 132
Bromoform	10.0	8.60		ug/L		86	60 - 148
Bromomethane	10.0	10.0		ug/L		100	64 - 139
Carbon tetrachloride	10.0	10.5		ug/L		105	60 - 150
Chlorobenzene	10.0	9.94		ug/L		99	70 - 130
Chloroethane	10.0	10.0		ug/L		100	64 - 135
Chloroform	10.0	10.6		ug/L		106	70 - 130
Chloromethane	10.0	7.94		ug/L		79	47 - 140
cis-1,2-Dichloroethene	10.0	10.5		ug/L		105	70 - 133
cis-1,3-Dichloropropene	10.0	9.47		ug/L		95	70 - 133
Dibromochloromethane	10.0	9.57		ug/L		96	69 - 145
Dibromomethane	10.0	8.49		ug/L		85	70 - 130
Dichlorodifluoromethane	10.0	9.43		ug/L		94	29 - 150
Ethylbenzene	10.0	9.92		ug/L		99	70 - 130
Hexachlorobutadiene	10.0	11.5		ug/L		115	10 - 150
Isopropylbenzene	10.0	10.7		ug/L		107	70 - 136
m,p-Xylene	10.0	10.1		ug/L		101	70 - 130
Methylene Chloride	10.0	10.9		ug/L		109	52 - 130
Naphthalene	10.0	10.2		ug/L		102	60 - 140
n-Butylbenzene	10.0	11.1		ug/L		111	65 - 150
N-Propylbenzene	10.0	10.5		ug/L		105	67 - 139
o-Xylene	10.0	10.9		ug/L		109	70 - 130
p-Isopropyltoluene	10.0	11.4		ug/L		114	70 - 132
sec-Butylbenzene	10.0	11.2		ug/L		112	70 - 138
Styrene	10.0	10.0		ug/L		100	70 - 134
tert-Butylbenzene	10.0	10.8		ug/L		108	70 - 130
Tetrachloroethene	10.0	10.6		ug/L		106	70 - 130
Toluene	10.0	9.78		ug/L		98	70 - 130
trans-1,2-Dichloroethene	10.0	10.7		ug/L		107	70 - 130
trans-1,3-Dichloropropene	10.0	8.88		ug/L		89	70 - 132
Trichloroethene	10.0	10.2		ug/L		102	70 - 130
Trichlorofluoromethane	10.0	10.5		ug/L		105	60 - 150
Vinyl chloride	10.0	9.47		ug/L		95	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*

Lab Sample ID: 440-239073-6 MS
Matrix: Water
Analysis Batch: 542648

Client Sample ID: M-142-20190415
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		12.5	14.9		ug/L		119	60 - 149

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-239073-6 MS
Matrix: Water
Analysis Batch: 542648

Client Sample ID: M-142-20190415
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		12.5	13.9		ug/L		111	70 - 130
1,1,2,2-Tetrachloroethane	ND		12.5	12.3		ug/L		99	63 - 130
1,1,2-Trichloroethane	ND		12.5	11.6		ug/L		93	70 - 130
1,1-Dichloroethane	ND		12.5	13.7		ug/L		110	65 - 130
1,1-Dichloroethene	0.51	J	12.5	15.0		ug/L		116	70 - 130
1,1-Dichloropropene	ND		12.5	13.3		ug/L		106	64 - 130
1,2,3-Trichlorobenzene	ND		12.5	14.8		ug/L		119	60 - 140
1,2,3-Trichloropropane	ND		12.5	12.4		ug/L		99	60 - 130
1,2,4-Trichlorobenzene	ND		12.5	15.1		ug/L		121	60 - 140
1,2,4-Trimethylbenzene	ND		12.5	13.8		ug/L		110	70 - 130
1,2-Dibromo-3-Chloropropane	ND		12.5	11.8		ug/L		94	48 - 140
1,2-Dibromoethane (EDB)	ND		12.5	11.8		ug/L		94	70 - 131
1,2-Dichlorobenzene	0.29	J	12.5	14.3		ug/L		112	70 - 130
1,2-Dichloroethane	ND		12.5	11.5		ug/L		92	56 - 146
1,2-Dichloropropane	ND		12.5	11.4		ug/L		91	69 - 130
1,3,5-Trimethylbenzene	ND		12.5	13.9		ug/L		111	70 - 130
1,3-Dichlorobenzene	ND		12.5	13.3		ug/L		107	70 - 130
1,3-Dichloropropane	ND		12.5	11.1		ug/L		89	70 - 130
1,4-Dichlorobenzene	0.29	J	12.5	13.3		ug/L		104	70 - 130
2,2-Dichloropropane	ND		12.5	15.5		ug/L		124	69 - 138
2-Chlorotoluene	ND		12.5	13.3		ug/L		106	70 - 130
4-Chlorotoluene	ND		12.5	12.9		ug/L		103	70 - 130
Benzene	ND		12.5	12.6		ug/L		101	66 - 130
Bromobenzene	ND		12.5	13.0		ug/L		104	70 - 130
Bromochloromethane	ND		12.5	14.6		ug/L		116	70 - 130
Bromodichloromethane	ND		12.5	11.5		ug/L		92	70 - 138
Bromoform	ND		12.5	12.1		ug/L		97	59 - 150
Bromomethane	ND		12.5	13.6		ug/L		109	62 - 131
Carbon tetrachloride	0.73	J	12.5	14.7		ug/L		112	60 - 150
Chlorobenzene	ND		12.5	12.8		ug/L		102	70 - 130
Chloroethane	ND		12.5	13.4		ug/L		107	68 - 130
Chloroform	66		12.5	79.8	4	ug/L		112	70 - 130
Chloromethane	ND		12.5	11.4		ug/L		91	39 - 144
cis-1,2-Dichloroethene	ND		12.5	13.6		ug/L		109	70 - 130
cis-1,3-Dichloropropene	ND		12.5	12.6		ug/L		100	70 - 133
Dibromochloromethane	ND		12.5	12.7		ug/L		101	70 - 148
Dibromomethane	ND		12.5	11.6		ug/L		93	70 - 130
Dichlorodifluoromethane	ND		12.5	14.5		ug/L		116	25 - 142
Ethylbenzene	ND		12.5	12.7		ug/L		102	70 - 130
Hexachlorobutadiene	ND		12.5	13.5		ug/L		108	10 - 150
Isopropylbenzene	ND		12.5	13.7		ug/L		110	70 - 132
m,p-Xylene	ND		12.5	13.2		ug/L		106	70 - 133
Methylene Chloride	ND		12.5	13.7		ug/L		110	52 - 130
Naphthalene	ND		12.5	14.0		ug/L		112	60 - 140
n-Butylbenzene	ND		12.5	14.0		ug/L		112	61 - 149
N-Propylbenzene	ND		12.5	13.3		ug/L		106	66 - 135
o-Xylene	ND		12.5	13.9		ug/L		111	70 - 133
p-Isopropyltoluene	ND		12.5	14.0		ug/L		112	70 - 130
sec-Butylbenzene	ND		12.5	13.6		ug/L		109	67 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-239073-6 MS
Matrix: Water
Analysis Batch: 542648

Client Sample ID: M-142-20190415
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	ND		12.5	12.6		ug/L		100	29 - 150
tert-Butylbenzene	ND		12.5	13.3		ug/L		106	70 - 130
Tetrachloroethene	ND		12.5	13.8		ug/L		110	70 - 137
Toluene	ND		12.5	12.5		ug/L		100	70 - 130
trans-1,2-Dichloroethene	ND		12.5	14.6		ug/L		117	70 - 130
trans-1,3-Dichloropropene	ND		12.5	11.6		ug/L		93	70 - 138
Trichloroethene	2.6		12.5	15.3		ug/L		101	70 - 130
Trichlorofluoromethane	ND		12.5	13.8		ug/L		111	60 - 150
Vinyl chloride	ND		12.5	13.1		ug/L		105	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*
Dibromofluoromethane (Surr)	*110*		*76 - 132*
Toluene-d8 (Surr)	*101*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*

Lab Sample ID: 440-239073-6 MSD
Matrix: Water
Analysis Batch: 542648

Client Sample ID: M-142-20190415
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		12.5	15.1		ug/L		121	60 - 149	1	20
1,1,1-Trichloroethane	ND		12.5	14.1		ug/L		113	70 - 130	2	20
1,1,2,2-Tetrachloroethane	ND		12.5	12.6		ug/L		101	63 - 130	2	30
1,1,2-Trichloroethane	ND		12.5	11.8		ug/L		95	70 - 130	2	25
1,1-Dichloroethane	ND		12.5	14.0		ug/L		112	65 - 130	2	20
1,1-Dichloroethene	0.51	J	12.5	15.2		ug/L		118	70 - 130	1	20
1,1-Dichloropropene	ND		12.5	13.4		ug/L		107	64 - 130	1	20
1,2,3-Trichlorobenzene	ND		12.5	15.2		ug/L		122	60 - 140	3	20
1,2,3-Trichloropropane	ND		12.5	12.4		ug/L		99	60 - 130	0	30
1,2,4-Trichlorobenzene	ND		12.5	15.5		ug/L		124	60 - 140	3	20
1,2,4-Trimethylbenzene	ND		12.5	14.0		ug/L		112	70 - 130	2	25
1,2-Dibromo-3-Chloropropane	ND		12.5	12.3		ug/L		98	48 - 140	4	30
1,2-Dibromoethane (EDB)	ND		12.5	11.7		ug/L		93	70 - 131	1	25
1,2-Dichlorobenzene	0.29	J	12.5	14.8		ug/L		116	70 - 130	3	20
1,2-Dichloroethane	ND		12.5	11.3		ug/L		90	56 - 146	2	20
1,2-Dichloropropane	ND		12.5	11.4		ug/L		91	69 - 130	0	20
1,3,5-Trimethylbenzene	ND		12.5	14.4		ug/L		115	70 - 130	4	20
1,3-Dichlorobenzene	ND		12.5	13.7		ug/L		109	70 - 130	3	20
1,3-Dichloropropane	ND		12.5	11.1		ug/L		89	70 - 130	0	25
1,4-Dichlorobenzene	0.29	J	12.5	13.5		ug/L		106	70 - 130	1	20
2,2-Dichloropropane	ND		12.5	15.7		ug/L		126	69 - 138	1	25
2-Chlorotoluene	ND		12.5	13.7		ug/L		109	70 - 130	3	20
4-Chlorotoluene	ND		12.5	13.1		ug/L		105	70 - 130	2	20
Benzene	ND		12.5	12.8		ug/L		102	66 - 130	1	20
Bromobenzene	ND		12.5	13.3		ug/L		106	70 - 130	2	20
Bromochloromethane	ND		12.5	14.7		ug/L		118	70 - 130	1	25
Bromodichloromethane	ND		12.5	12.1		ug/L		97	70 - 138	5	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-239073-6 MSD
Matrix: Water
Analysis Batch: 542648

Client Sample ID: M-142-20190415
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		12.5	11.9		ug/L		95	59 - 150	2	25
Bromomethane	ND		12.5	13.9		ug/L		111	62 - 131	2	25
Carbon tetrachloride	0.73	J	12.5	15.1		ug/L		115	60 - 150	2	25
Chlorobenzene	ND		12.5	12.8		ug/L		102	70 - 130	0	20
Chloroethane	ND		12.5	13.4		ug/L		107	68 - 130	0	25
Chloroform	66		12.5	83.0	4	ug/L		138	70 - 130	4	20
Chloromethane	ND		12.5	11.7		ug/L		93	39 - 144	2	25
cis-1,2-Dichloroethene	ND		12.5	13.7		ug/L		109	70 - 130	1	20
cis-1,3-Dichloropropene	ND		12.5	12.5		ug/L		100	70 - 133	0	20
Dibromochloromethane	ND		12.5	12.5		ug/L		100	70 - 148	1	25
Dibromomethane	ND		12.5	11.3		ug/L		91	70 - 130	3	25
Dichlorodifluoromethane	ND		12.5	14.9		ug/L		119	25 - 142	2	30
Ethylbenzene	ND		12.5	12.7		ug/L		102	70 - 130	0	20
Hexachlorobutadiene	ND		12.5	14.0		ug/L		112	10 - 150	4	20
Isopropylbenzene	ND		12.5	14.0		ug/L		112	70 - 132	2	20
m,p-Xylene	ND		12.5	13.2		ug/L		106	70 - 133	0	25
Methylene Chloride	ND		12.5	14.2		ug/L		114	52 - 130	4	20
Naphthalene	ND		12.5	13.9		ug/L		112	60 - 140	0	30
n-Butylbenzene	ND		12.5	14.2		ug/L		113	61 - 149	1	20
N-Propylbenzene	ND		12.5	13.6		ug/L		109	66 - 135	3	20
o-Xylene	ND		12.5	14.1		ug/L		113	70 - 133	1	20
p-Isopropyltoluene	ND		12.5	14.6		ug/L		117	70 - 130	4	20
sec-Butylbenzene	ND		12.5	14.0		ug/L		112	67 - 134	3	20
Styrene	ND		12.5	12.6		ug/L		101	29 - 150	1	35
tert-Butylbenzene	ND		12.5	13.7		ug/L		109	70 - 130	3	20
Tetrachloroethene	ND		12.5	14.3		ug/L		115	70 - 137	4	20
Toluene	ND		12.5	12.7		ug/L		101	70 - 130	1	20
trans-1,2-Dichloroethene	ND		12.5	14.9		ug/L		119	70 - 130	2	20
trans-1,3-Dichloropropene	ND		12.5	11.7		ug/L		94	70 - 138	1	25
Trichloroethene	2.6		12.5	15.6		ug/L		104	70 - 130	2	20
Trichlorofluoromethane	ND		12.5	14.0		ug/L		112	60 - 150	1	25
Vinyl chloride	ND		12.5	13.1		ug/L		105	50 - 137	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*

Lab Sample ID: MB 440-542932/6
Matrix: Water
Analysis Batch: 542932

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		2.0	0.25	ug/L			04/27/19 01:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*04/27/19 01:08*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-542932/6
Matrix: Water
Analysis Batch: 542932

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	110		76 - 132		04/27/19 01:08	1
Toluene-d8 (Surr)	105		80 - 128		04/27/19 01:08	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		04/27/19 01:08	1

Lab Sample ID: LCS 440-542932/4
Matrix: Water
Analysis Batch: 542932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	10.0	10.2		ug/L		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	105		76 - 132
Toluene-d8 (Surr)	99		80 - 128
1,2-Dichloroethane-d4 (Surr)	91		70 - 130

Lab Sample ID: 440-239073-4 MS
Matrix: Water
Analysis Batch: 542932

Client Sample ID: M-057A-20190415
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	770		100	834	4	ug/L		62	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	107		76 - 132
Toluene-d8 (Surr)	99		80 - 128
1,2-Dichloroethane-d4 (Surr)	90		70 - 130

Lab Sample ID: 440-239073-4 MSD
Matrix: Water
Analysis Batch: 542932

Client Sample ID: M-057A-20190415
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform	770		100	819	4	ug/L		46	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	106		76 - 132
Toluene-d8 (Surr)	99		80 - 128
1,2-Dichloroethane-d4 (Surr)	90		70 - 130

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-541076/1-A
Matrix: Water
Analysis Batch: 541197

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 541076

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/18/19 05:54	04/18/19 20:45	1
2,4'-DDE	ND		0.10	0.020	ug/L		04/18/19 05:54	04/18/19 20:45	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/18/19 05:54	04/18/19 20:45	1
4,4'-DDD	ND		0.10	0.0040	ug/L		04/18/19 05:54	04/18/19 20:45	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/18/19 05:54	04/18/19 20:45	1
4,4'-DDT	ND		0.10	0.0040	ug/L		04/18/19 05:54	04/18/19 20:45	1
Aldrin	ND		0.0050	0.0015	ug/L		04/18/19 05:54	04/18/19 20:45	1
alpha-BHC	ND		0.0050	0.0025	ug/L		04/18/19 05:54	04/18/19 20:45	1
beta-BHC	ND		0.010	0.0040	ug/L		04/18/19 05:54	04/18/19 20:45	1
Chlordane	ND		0.10	0.080	ug/L		04/18/19 05:54	04/18/19 20:45	1
delta-BHC	ND		0.20	0.0035	ug/L		04/18/19 05:54	04/18/19 20:45	1
Dieldrin	ND		0.0050	0.0020	ug/L		04/18/19 05:54	04/18/19 20:45	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/18/19 05:54	04/18/19 20:45	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/18/19 05:54	04/18/19 20:45	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/18/19 05:54	04/18/19 20:45	1
Endrin	ND		0.10	0.0020	ug/L		04/18/19 05:54	04/18/19 20:45	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/18/19 05:54	04/18/19 20:45	1
Endrin ketone	ND		0.10	0.0070	ug/L		04/18/19 05:54	04/18/19 20:45	1
gamma-BHC (Lindane)	ND		0.10	0.0030	ug/L		04/18/19 05:54	04/18/19 20:45	1
Heptachlor	ND		0.010	0.0030	ug/L		04/18/19 05:54	04/18/19 20:45	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/18/19 05:54	04/18/19 20:45	1
Methoxychlor	ND		0.10	0.0035	ug/L		04/18/19 05:54	04/18/19 20:45	1
Toxaphene	ND		5.0	0.25	ug/L		04/18/19 05:54	04/18/19 20:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*92*		*28 - 108*	*04/18/19 05:54*	*04/18/19 20:45*	*1*
Tetrachloro-m-xylene	*65*		*10 - 123*	*04/18/19 05:54*	*04/18/19 20:45*	*1*

Lab Sample ID: LCS 440-541076/2-A
Matrix: Water
Analysis Batch: 541197

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 541076

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4'-DDD	0.250	0.205		ug/L		82	10 - 150
2,4'-DDE	0.250	0.195		ug/L		78	10 - 150
2,4'-DDT	0.250	0.209		ug/L		84	10 - 150
4,4'-DDD	0.250	0.218		ug/L		87	50 - 128
4,4'-DDE	0.250	0.207		ug/L		83	49 - 121
4,4'-DDT	0.250	0.224		ug/L		89	41 - 140
Aldrin	0.250	0.195		ug/L		78	37 - 115
alpha-BHC	0.250	0.201		ug/L		81	44 - 115
beta-BHC	0.250	0.196		ug/L		78	46 - 121
delta-BHC	0.250	0.212		ug/L		85	32 - 129
Dieldrin	0.250	0.208		ug/L		83	39 - 126
Endosulfan I	0.250	0.204		ug/L		82	47 - 115
Endosulfan II	0.250	0.208		ug/L		83	47 - 120
Endosulfan sulfate	0.250	0.218		ug/L		87	48 - 126
Endrin	0.250	0.209		ug/L		84	43 - 127

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-541076/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541197 — **Prep Batch: 541076**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin aldehyde	0.250	0.207		ug/L		83	43 - 120
Endrin ketone	0.250	0.208		ug/L		83	47 - 123
gamma-BHC (Lindane)	0.250	0.202		ug/L		81	45 - 116
Heptachlor	0.250	0.192		ug/L		77	37 - 115
Heptachlor epoxide	0.250	0.204		ug/L		82	41 - 129
Methoxychlor	0.250	0.253		ug/L		101	44 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*86*		*28 - 108*
Tetrachloro-m-xylene	*68*		*10 - 123*

Lab Sample ID: 440-239073-6 MS — **Client Sample ID: M-142-20190415**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541197 — **Prep Batch: 541076**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4'-DDD	ND		0.255	0.195		ug/L		77	50 - 125
2,4'-DDE	ND		0.255	0.182		ug/L		71	45 - 125
2,4'-DDT	ND		0.255	0.203		ug/L		80	50 - 125
4,4'-DDD	ND		0.255	0.209		ug/L		82	50 - 125
4,4'-DDE	ND		0.255	0.197		ug/L		77	45 - 125
4,4'-DDT	ND		0.255	0.221		ug/L		86	50 - 125
Aldrin	ND		0.255	0.117		ug/L		46	35 - 120
alpha-BHC	ND		0.255	0.155		ug/L		61	40 - 120
beta-BHC	ND		0.255	0.175		ug/L		69	50 - 120
delta-BHC	ND		0.255	0.191	J	ug/L		75	50 - 120
Dieldrin	ND		0.255	0.193		ug/L		76	50 - 120
Endosulfan I	ND		0.255	0.186		ug/L		73	50 - 120
Endosulfan II	ND		0.255	0.198		ug/L		78	50 - 125
Endosulfan sulfate	ND		0.255	0.208		ug/L		81	55 - 125
Endrin	ND		0.255	0.196		ug/L		77	50 - 120
Endrin aldehyde	ND		0.255	0.190		ug/L		75	45 - 125
Endrin ketone	ND		0.255	0.201		ug/L		79	50 - 125
gamma-BHC (Lindane)	ND		0.255	0.164		ug/L		64	40 - 120
Heptachlor	ND		0.255	0.155		ug/L		61	40 - 120
Heptachlor epoxide	ND		0.255	0.183		ug/L		72	50 - 120
Methoxychlor	ND		0.255	0.250		ug/L		98	55 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*78*		*28 - 108*
Tetrachloro-m-xylene	*50*		*10 - 123*

Lab Sample ID: 440-239073-6 MSD — **Client Sample ID: M-142-20190415**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541197 — **Prep Batch: 541076**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4'-DDD	ND		0.254	0.186		ug/L		73	50 - 125	5	30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-239073-6 MSD — **Client Sample ID: M-142-20190415**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541197 — **Prep Batch: 541076**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4'-DDE	ND		0.254	0.173		ug/L		68	45 - 125	5	30
2,4'-DDT	ND		0.254	0.193		ug/L		76	50 - 125	5	30
4,4'-DDD	ND		0.254	0.198		ug/L		78	50 - 125	5	30
4,4'-DDE	ND		0.254	0.187		ug/L		74	45 - 125	5	30
4,4'-DDT	ND		0.254	0.211		ug/L		83	50 - 125	4	30
Aldrin	ND		0.254	0.112		ug/L		44	35 - 120	5	30
alpha-BHC	ND		0.254	0.149		ug/L		59	40 - 120	4	30
beta-BHC	ND		0.254	0.167		ug/L		66	50 - 120	5	30
delta-BHC	ND		0.254	0.182	J	ug/L		72	50 - 120	5	30
Dieldrin	ND		0.254	0.184		ug/L		72	50 - 120	5	30
Endosulfan I	ND		0.254	0.177		ug/L		70	50 - 120	5	30
Endosulfan II	ND		0.254	0.188		ug/L		74	50 - 125	5	30
Endosulfan sulfate	ND		0.254	0.199	J	ug/L		78	55 - 125	5	30
Endrin	ND		0.254	0.187		ug/L		74	50 - 120	5	30
Endrin aldehyde	ND		0.254	0.181		ug/L		71	45 - 125	5	30
Endrin ketone	ND		0.254	0.192		ug/L		76	50 - 125	4	30
gamma-BHC (Lindane)	ND		0.254	0.158		ug/L		62	40 - 120	4	30
Heptachlor	ND		0.254	0.149		ug/L		59	40 - 120	4	30
Heptachlor epoxide	ND		0.254	0.174		ug/L		69	50 - 120	5	30
Methoxychlor	ND		0.254	0.241		ug/L		95	55 - 125	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*74*		*28 - 108*
Tetrachloro-m-xylene	*49*		*10 - 123*

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 440-541696/7 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541696

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/22/19 10:36	1

Lab Sample ID: LCS 440-541696/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	25.0	23.4		ug/L		94	85 - 115

Lab Sample ID: MRL 440-541696/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541696

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	1.00	1.03	J	ug/L		103	75 - 125

Method: 314.0 - Perchlorate (IC) (Continued)

Lab Sample ID: 440-239073-6 MS — **Client Sample ID: M-142-20190415**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541696

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate	3900		2500	6410		ug/L		102	80 - 120		

Lab Sample ID: 440-239073-6 MSD — **Client Sample ID: M-142-20190415**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541696

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	3900		2500	6390		ug/L		101	80 - 120	0	15

Lab Sample ID: MB 440-542285/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542285

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/24/19 14:28	1

Lab Sample ID: LCS 440-542285/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542285

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate	25.0	24.7		ug/L		99	85 - 115		

Lab Sample ID: MRL 440-542285/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542285

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate	1.00	ND		ug/L		92	75 - 125		

Lab Sample ID: 440-239560-D-3 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542285

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate	ND		25.0	26.2		ug/L		105	80 - 120		

Lab Sample ID: 440-239560-D-3 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542285

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	ND		25.0	26.0		ug/L		104	80 - 120	1	15

Lab Sample ID: MB 440-542483/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542483

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/25/19 09:08	1

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: LCS 440-542483/5
Matrix: Water
Analysis Batch: 542483

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			25.0	24.7		ug/L		99	85 - 115		

Lab Sample ID: MRL 440-542483/4
Matrix: Water
Analysis Batch: 542483

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			1.00	ND		ug/L		93	75 - 125		

Lab Sample ID: 440-239292-D-4 MS
Matrix: Water
Analysis Batch: 542483

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate	99000	F1	25000	113000	F1	ug/L		57	80 - 120		

Lab Sample ID: 440-239292-D-4 MSD
Matrix: Water
Analysis Batch: 542483

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	99000	F1	25000	118000	F1	ug/L		76	80 - 120	4	15

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 440-541389/1-A
Matrix: Water
Analysis Batch: 541513

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 541389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.10	ug/L		04/19/19 07:42	04/19/19 15:23	1
Barium	ND		0.20	0.10	ug/L		04/19/19 07:42	04/19/19 15:23	1
Cadmium	ND		0.10	0.050	ug/L		04/19/19 07:42	04/19/19 15:23	1
Chromium	ND		0.50	0.25	ug/L		04/19/19 07:42	04/19/19 15:23	1
Lead	ND		0.10	0.050	ug/L		04/19/19 07:42	04/19/19 15:23	1
Selenium	ND		0.60	0.30	ug/L		04/19/19 07:42	04/19/19 15:23	1
Silver	ND		0.20	0.10	ug/L		04/19/19 07:42	04/19/19 15:23	1
Uranium	ND		0.10	0.050	ug/L		04/19/19 07:42	04/19/19 15:23	1

Lab Sample ID: LCS 440-541389/2-A
Matrix: Water
Analysis Batch: 541513

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 541389

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			80.0	77.0		ug/L		96	80 - 120		
Barium			80.0	77.1		ug/L		96	80 - 120		
Cadmium			80.0	77.0		ug/L		96	80 - 120		
Chromium			80.0	76.5		ug/L		96	80 - 120		
Lead			80.0	77.3		ug/L		97	80 - 120		
Selenium			80.0	75.9		ug/L		95	80 - 120		

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 440-541389/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 541513 — **Prep Batch: 541389**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	80.0	76.6		ug/L		96	80 - 120
Uranium	80.0	77.4		ug/L		97	80 - 120

Lab Sample ID: 440-239073-6 MS — **Client Sample ID: M-142-20190415**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 541513 — **Prep Batch: 541389**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	58		80.0	134		ug/L		95	75 - 125
Barium	47		80.0	122		ug/L		94	75 - 125
Cadmium	0.27		80.0	70.8		ug/L		88	75 - 125
Chromium	30		80.0	99.7		ug/L		87	75 - 125
Lead	1.7		80.0	72.5		ug/L		89	75 - 125
Selenium	3.4		80.0	74.0		ug/L		88	75 - 125
Silver	0.28		80.0	69.6		ug/L		87	75 - 125
Uranium	6.5		80.0	81.4		ug/L		94	75 - 125

Lab Sample ID: 440-239073-6 MSD — **Client Sample ID: M-142-20190415**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 541513 — **Prep Batch: 541389**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	58		80.0	133		ug/L		94	75 - 125	1	20
Barium	47		80.0	134		ug/L		108	75 - 125	9	20
Cadmium	0.27		80.0	70.7		ug/L		88	75 - 125	0	20
Chromium	30		80.0	102		ug/L		89	75 - 125	2	20
Lead	1.7		80.0	73.7		ug/L		90	75 - 125	2	20
Selenium	3.4		80.0	74.1		ug/L		88	75 - 125	0	20
Silver	0.28		80.0	70.0		ug/L		87	75 - 125	1	20
Uranium	6.5		80.0	82.2		ug/L		95	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 440-542288/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542576 — **Prep Batch: 542288**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/24/19 12:46	04/25/19 08:38	1

Lab Sample ID: LCS 440-542288/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542576 — **Prep Batch: 542288**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00400	0.00332		mg/L		83	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 440-239073-6 MS — **Client Sample ID: M-142-20190415**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542576 — **Prep Batch: 542288**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		0.00400	0.00350		mg/L		88	75 - 125		

Lab Sample ID: 440-239073-6 MSD — **Client Sample ID: M-142-20190415**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542576 — **Prep Batch: 542288**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00400	0.00344		mg/L		86	75 - 125	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 440-541690/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541690

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			04/22/19 08:01	1

Lab Sample ID: LCS 440-541690/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541690

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids	1000	994		mg/L		99	90 - 110		

Lab Sample ID: 440-239073-6 DU — **Client Sample ID: M-142-20190415**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541690

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	2800			2880		mg/L				1	5

QC Association Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239073-1
SDG: 3200C Henderson Sitewide

GC/MS VOA

Analysis Batch: 542648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239073-1	TB-20190415	Total/NA	Water	8260B	
440-239073-2	PL-509-20190415	Total/NA	Water	8260B	
440-239073-3	PL-510-20190415	Total/NA	Water	8260B	
440-239073-4	M-057A-20190415	Total/NA	Water	8260B	
440-239073-5	M-007B-20190415	Total/NA	Water	8260B	
440-239073-6	M-142-20190415	Total/NA	Water	8260B	
440-239073-7	M-149-20190415	Total/NA	Water	8260B	
MB 440-542648/7	Method Blank	Total/NA	Water	8260B	
LCS 440-542648/5	Lab Control Sample	Total/NA	Water	8260B	
440-239073-6 MS	M-142-20190415	Total/NA	Water	8260B	
440-239073-6 MSD	M-142-20190415	Total/NA	Water	8260B	

Analysis Batch: 542932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239073-4 - DL	M-057A-20190415	Total/NA	Water	8260B	
MB 440-542932/6	Method Blank	Total/NA	Water	8260B	
LCS 440-542932/4	Lab Control Sample	Total/NA	Water	8260B	
440-239073-4 MS	M-057A-20190415	Total/NA	Water	8260B	
440-239073-4 MSD	M-057A-20190415	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 541076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239073-3	PL-510-20190415	Total/NA	Water	3510C	
440-239073-4	M-057A-20190415	Total/NA	Water	3510C	
440-239073-5	M-007B-20190415	Total/NA	Water	3510C	
440-239073-6	M-142-20190415	Total/NA	Water	3510C	
440-239073-7	M-149-20190415	Total/NA	Water	3510C	
MB 440-541076/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-541076/2-A	Lab Control Sample	Total/NA	Water	3510C	
440-239073-6 MS	M-142-20190415	Total/NA	Water	3510C	
440-239073-6 MSD	M-142-20190415	Total/NA	Water	3510C	

Analysis Batch: 541197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239073-3	PL-510-20190415	Total/NA	Water	8081A	541076
440-239073-4	M-057A-20190415	Total/NA	Water	8081A	541076
440-239073-5	M-007B-20190415	Total/NA	Water	8081A	541076
440-239073-6	M-142-20190415	Total/NA	Water	8081A	541076
440-239073-7	M-149-20190415	Total/NA	Water	8081A	541076
MB 440-541076/1-A	Method Blank	Total/NA	Water	8081A	541076
LCS 440-541076/2-A	Lab Control Sample	Total/NA	Water	8081A	541076
440-239073-6 MS	M-142-20190415	Total/NA	Water	8081A	541076
440-239073-6 MSD	M-142-20190415	Total/NA	Water	8081A	541076

HPLC/IC

Analysis Batch: 541696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239073-6	M-142-20190415	Total/NA	Water	314.0	
MB 440-541696/7	Method Blank	Total/NA	Water	314.0	

HPLC/IC (Continued)

Analysis Batch: 541696 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-541696/6	Lab Control Sample	Total/NA	Water	314.0	
MRL 440-541696/5	Lab Control Sample	Total/NA	Water	314.0	
440-239073-6 MS	M-142-20190415	Total/NA	Water	314.0	
440-239073-6 MSD	M-142-20190415	Total/NA	Water	314.0	

Analysis Batch: 542285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239073-3	PL-510-20190415	Total/NA	Water	314.0	
440-239073-5	M-007B-20190415	Total/NA	Water	314.0	
MB 440-542285/6	Method Blank	Total/NA	Water	314.0	
LCS 440-542285/5	Lab Control Sample	Total/NA	Water	314.0	
MRL 440-542285/4	Lab Control Sample	Total/NA	Water	314.0	
440-239560-D-3 MS	Matrix Spike	Total/NA	Water	314.0	
440-239560-D-3 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0	

Analysis Batch: 542483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239073-4	M-057A-20190415	Total/NA	Water	314.0	
440-239073-7	M-149-20190415	Total/NA	Water	314.0	
MB 440-542483/6	Method Blank	Total/NA	Water	314.0	
LCS 440-542483/5	Lab Control Sample	Total/NA	Water	314.0	
MRL 440-542483/4	Lab Control Sample	Total/NA	Water	314.0	
440-239292-D-4 MS	Matrix Spike	Total/NA	Water	314.0	
440-239292-D-4 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0	

Metals

Prep Batch: 541389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239073-3	PL-510-20190415	Total Recoverable	Water	3005A	
440-239073-4	M-057A-20190415	Total Recoverable	Water	3005A	
440-239073-5	M-007B-20190415	Total Recoverable	Water	3005A	
440-239073-6	M-142-20190415	Total Recoverable	Water	3005A	
440-239073-7	M-149-20190415	Total Recoverable	Water	3005A	
MB 440-541389/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-541389/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-239073-6 MS	M-142-20190415	Total Recoverable	Water	3005A	
440-239073-6 MSD	M-142-20190415	Total Recoverable	Water	3005A	

Analysis Batch: 541513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239073-3	PL-510-20190415	Total Recoverable	Water	6020	541389
440-239073-4	M-057A-20190415	Total Recoverable	Water	6020	541389
440-239073-5	M-007B-20190415	Total Recoverable	Water	6020	541389
440-239073-6	M-142-20190415	Total Recoverable	Water	6020	541389
440-239073-7	M-149-20190415	Total Recoverable	Water	6020	541389
MB 440-541389/1-A	Method Blank	Total Recoverable	Water	6020	541389
LCS 440-541389/2-A	Lab Control Sample	Total Recoverable	Water	6020	541389
440-239073-6 MS	M-142-20190415	Total Recoverable	Water	6020	541389
440-239073-6 MSD	M-142-20190415	Total Recoverable	Water	6020	541389

QC Association Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239073-1
SDG: 3200C Henderson Sitewide

Metals

Prep Batch: 542288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239073-3	PL-510-20190415	Total/NA	Water	7470A	
440-239073-4	M-057A-20190415	Total/NA	Water	7470A	
440-239073-5	M-007B-20190415	Total/NA	Water	7470A	
440-239073-6	M-142-20190415	Total/NA	Water	7470A	
440-239073-7	M-149-20190415	Total/NA	Water	7470A	
MB 440-542288/1-A	Method Blank	Total/NA	Water	7470A	
LCS 440-542288/2-A	Lab Control Sample	Total/NA	Water	7470A	
440-239073-6 MS	M-142-20190415	Total/NA	Water	7470A	
440-239073-6 MSD	M-142-20190415	Total/NA	Water	7470A	

Analysis Batch: 542576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239073-3	PL-510-20190415	Total/NA	Water	7470A	542288
440-239073-4	M-057A-20190415	Total/NA	Water	7470A	542288
440-239073-5	M-007B-20190415	Total/NA	Water	7470A	542288
440-239073-6	M-142-20190415	Total/NA	Water	7470A	542288
440-239073-7	M-149-20190415	Total/NA	Water	7470A	542288
MB 440-542288/1-A	Method Blank	Total/NA	Water	7470A	542288
LCS 440-542288/2-A	Lab Control Sample	Total/NA	Water	7470A	542288
440-239073-6 MS	M-142-20190415	Total/NA	Water	7470A	542288
440-239073-6 MSD	M-142-20190415	Total/NA	Water	7470A	542288

General Chemistry

Analysis Batch: 541690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239073-3	PL-510-20190415	Total/NA	Water	SM 2540C	
440-239073-4	M-057A-20190415	Total/NA	Water	SM 2540C	
440-239073-5	M-007B-20190415	Total/NA	Water	SM 2540C	
440-239073-6	M-142-20190415	Total/NA	Water	SM 2540C	
440-239073-7	M-149-20190415	Total/NA	Water	SM 2540C	
MB 440-541690/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-541690/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-239073-6 DU	M-142-20190415	Total/NA	Water	SM 2540C	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239073-1
SDG: 3200C Henderson Sitewide

Laboratory: Eurofins TestAmerica, Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Nevada	State Program	9	CA015312018-1	07-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8081A	3510C	Water	2,4'-DDD
8081A	3510C	Water	2,4'-DDE
8081A	3510C	Water	2,4'-DDT
8081A	3510C	Water	4,4'-DDD
8081A	3510C	Water	4,4'-DDE
8081A	3510C	Water	4,4'-DDT
8081A	3510C	Water	Aldrin
8081A	3510C	Water	alpha-BHC
8081A	3510C	Water	beta-BHC
8081A	3510C	Water	Chlordane
8081A	3510C	Water	delta-BHC
8081A	3510C	Water	Dieldrin
8081A	3510C	Water	Endosulfan I
8081A	3510C	Water	Endosulfan II
8081A	3510C	Water	Endosulfan sulfate
8081A	3510C	Water	Endrin
8081A	3510C	Water	Endrin aldehyde
8081A	3510C	Water	Endrin ketone
8081A	3510C	Water	gamma-BHC (Lindane)
8081A	3510C	Water	Heptachlor
8081A	3510C	Water	Heptachlor epoxide
8081A	3510C	Water	Methoxychlor
8081A	3510C	Water	Toxaphene
8260B		Water	Dimethyl disulfide

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone 949.261.1022 fax 949.260.3299

440-239073 Chain of Custody

Chain of Custody Record

0.5°C

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Nicole Bradley, Dean Charles	Site Contact: Kevin Paprocki	Date: 4/15/19	COC No:
de maximis, Inc.	Tel/Fax: 619-546-8377	Lab Contact: Danielle Roberts	Carrier:	____ of ____ COCs
1322 Scott St., Suite 101	Analysis Turnaround Time			
San Diego, CA 92106	Calendar (C) or Work Days (W)___ W___			Job No. **3200C**
(619) 546-8377 Phone	TAT if different from Below_____			SDG No.
(619) 546-9980 Fax	☒ 2 weeks			
Project Name: **3200C Henderson Sitewide**	☐ 1 week			
Site: Henderson, NV	☐ 2 days			
PO#	☐ 1 day			

Sample Identification	Container Type	Sample Date	Sample Time	Preservation Type	Matrix	# of Containers	8260B-HEND-Qtrly	8081A – Pesticides	RCRA 8 Metals + Uranium - 7470A & 6020	TDS – SM2540C	Perchlorate 314							VOC concentration > 500 ppb	MS/MSD REQUIRED	LEVEL 2A REQUIRED	Sample Specific Notes:
TB-20190415	VOA	4/15/19	0650	4°C	AQ	2	X													X	
PL-509-20190415	VOA	4/15/19	1043	4°C	AQ	3	X													X	
PL-510-20190415	Various	4/15/19	0929	4°C	AQ	8	X	X	X	X	X									X	
M-057A-20190415	Various	4/15/19	0859	4°C	AQ	8	X	X	X	X	X									X	
M-007B-20190415	Various	4/15/19	0859	4°C	AQ	8	X	X	X	X	X									X	
M-142-20190415	Various	4/15/19	1020	4°C	AQ	16	X	X	X	X	X								X	X	
M-149-20190415	Various	4/15/19	0910	4°C	AQ	8	X	X	X	X	X									X	
~~M-057A-20190415~~	~~Various~~	~~4/15/19~~		~~4°C~~	~~AQ~~	~~8~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~									~~X~~	

K.M.

[1] I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Date

Preservation Used: 1= Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other_____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return to Client* ☐ Disposal by Lab Archive For _____ Months

MD 4/17

Special Instructions/QC Requirements & Comments:

Sample Int (circle one)
Intact: Y / N on ice: Y / N
temperature:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Converse	4/15/19 1255	[signature]	tmlab	4/15/19 1pm
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
DAM	TMLVS	4/15/19 1600	[signature]		
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
			Olga Cinelas	TMLC	4/16/19 1030

1.6/1.9 13/1.6 IR-94 C/S

T#: 4766 5637 0639

5/4/2019

Login Sample Receipt Checklist

Client: de maximis, inc.

Job Number: 440-239073-2
SDG Number: 3200C Henderson Sitewide

Login Number: 239073
List Number: 1
Creator: Escalante, Maria I

List Source: Eurofins TestAmerica, Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

Laboratory Job ID: 440-239264-1
Laboratory Sample Delivery Group: Henderon, NV
Client Project/Site: 3200C Henderson Sitewide

For:
de maximis, inc.
1322 Scott Street, Suite 104
San Diego, California 92106

Attn: Nicole Bradley

Authorized for release by:
5/4/2019 1:25:15 PM

Danielle Roberts, Senior Project Manager
(949)260-3249
danielle.roberts@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 7
Surrogate Summary 18
Method Summary 19
Lab Chronicle 20
QC Sample Results 22
QC Association Summary 34
Definitions/Glossary 36
Certification Summary 37
Chain of Custody 38
Receipt Checklists 39

Sample Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239264-1
SDG: Henderon, NV

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-239264-1	TB-20190416	Water	04/16/19 06:40	04/17/19 10:30
440-239264-2	PL-511-20190416	Water	04/16/19 08:35	04/17/19 10:30
440-239264-3	M-092-20190416	Water	04/16/19 08:40	04/17/19 10:30
440-239264-4	M-136-20190416	Water	04/16/19 11:55	04/17/19 10:30
440-239264-5	M-150-20190416	Water	04/16/19 10:45	04/17/19 10:30

Job ID: 440-239264-1

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative
440-239264-1

Comments
No additional comments.

Receipt
The samples were received on 4/17/2019 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 6020: The method blank for preparation batch 440-542493 and analytical batch 440-542715 contained Chromium above the method detection limit (MDL) and Barium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239264-1
SDG: Henderon, NV

Client Sample ID: TB-20190416 — Lab Sample ID: 440-239264-1

No Detections.

Client Sample ID: PL-511-20190416 — Lab Sample ID: 440-239264-2

No Detections.

Client Sample ID: M-092-20190416 — Lab Sample ID: 440-239264-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.8	J	5.0	0.25	ug/L	1		8260B	Total/NA
Carbon tetrachloride	1.1		1.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	86		2.0	0.25	ug/L	1		8260B	Total/NA
Trichloroethene	9.5		2.0	0.25	ug/L	1		8260B	Total/NA
Perchlorate	1700		400	95	ug/L	100		314.0	Total/NA
Arsenic	82		0.20	0.10	ug/L	1		6020	Total Recoverable
Barium	35	B	0.20	0.10	ug/L	1		6020	Total Recoverable
Chromium	23	B	0.50	0.25	ug/L	1		6020	Total Recoverable
Lead	0.88		0.10	0.050	ug/L	1		6020	Total Recoverable
Selenium	3.2		0.60	0.30	ug/L	1		6020	Total Recoverable
Uranium	5.4		0.10	0.050	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	2300		20	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: M-136-20190416 — Lab Sample ID: 440-239264-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	17		2.0	0.25	ug/L	1		8260B	Total/NA
Perchlorate	46000		4000	950	ug/L	1000		314.0	Total/NA
Arsenic	38		0.20	0.10	ug/L	1		6020	Total Recoverable
Barium	41	B	0.20	0.10	ug/L	1		6020	Total Recoverable
Chromium	69	B	0.50	0.25	ug/L	1		6020	Total Recoverable
Lead	1.5		0.10	0.050	ug/L	1		6020	Total Recoverable
Selenium	2.1		0.60	0.30	ug/L	1		6020	Total Recoverable
Uranium	5.1		0.10	0.050	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	1100		10	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: M-150-20190416 — Lab Sample ID: 440-239264-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perchlorate	25		20	4.8	ug/L	5		314.0	Total/NA
Arsenic	36		0.20	0.10	ug/L	1		6020	Total Recoverable
Barium	24	B	0.20	0.10	ug/L	1		6020	Total Recoverable
Chromium	51	B	0.50	0.25	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239264-1
SDG: Henderon, NV

Client Sample ID: M-150-20190416 (Continued) — Lab Sample ID: 440-239264-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.14		0.10	0.050	ug/L	1		6020	Total Recoverable
Selenium	1.8		0.60	0.30	ug/L	1		6020	Total Recoverable
Uranium	4.2		0.10	0.050	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	520		10	5.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239264-1
SDG: Henderon, NV

Client Sample ID: TB-20190416

Date Collected: 04/16/19 06:40
Date Received: 04/17/19 10:30

Lab Sample ID: 440-239264-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/26/19 02:45	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 02:45	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/26/19 02:45	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 02:45	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 02:45	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/26/19 02:45	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 02:45	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 02:45	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/26/19 02:45	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 02:45	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 02:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/26/19 02:45	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/26/19 02:45	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 02:45	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 02:45	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 02:45	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 02:45	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 02:45	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 02:45	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 02:45	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/26/19 02:45	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 02:45	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 02:45	1
Benzene	ND		2.0	0.25	ug/L			04/26/19 02:45	1
Bromobenzene	ND		5.0	0.25	ug/L			04/26/19 02:45	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/26/19 02:45	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/26/19 02:45	1
Bromoform	ND		5.0	0.40	ug/L			04/26/19 02:45	1
Bromomethane	ND		5.0	0.25	ug/L			04/26/19 02:45	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/26/19 02:45	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/26/19 02:45	1
Chloroethane	ND		5.0	0.40	ug/L			04/26/19 02:45	1
Chloroform	ND		2.0	0.25	ug/L			04/26/19 02:45	1
Chloromethane	ND		5.0	0.25	ug/L			04/26/19 02:45	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 02:45	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 02:45	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/26/19 02:45	1
Dibromomethane	ND		2.0	0.25	ug/L			04/26/19 02:45	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/26/19 02:45	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/26/19 02:45	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/26/19 02:45	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/26/19 02:45	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/26/19 02:45	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/26/19 02:45	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/26/19 02:45	1
Naphthalene	ND		5.0	0.40	ug/L			04/26/19 02:45	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/26/19 02:45	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/26/19 02:45	1
o-Xylene	ND		2.0	0.25	ug/L			04/26/19 02:45	1

Client Sample ID: TB-20190416

Lab Sample ID: 440-239264-1

Date Collected: 04/16/19 06:40
Matrix: Water
Date Received: 04/17/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/26/19 02:45	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 02:45	1
Styrene	ND		2.0	0.25	ug/L			04/26/19 02:45	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 02:45	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/26/19 02:45	1
Toluene	ND		2.0	0.25	ug/L			04/26/19 02:45	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 02:45	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 02:45	1
Trichloroethene	ND		2.0	0.25	ug/L			04/26/19 02:45	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/26/19 02:45	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/26/19 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*04/26/19 02:45*	*1*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*04/26/19 02:45*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*04/26/19 02:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*04/26/19 02:45*	*1*

Client Sample ID: PL-511-20190416

Lab Sample ID: 440-239264-2

Date Collected: 04/16/19 08:35
Matrix: Water
Date Received: 04/17/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/26/19 03:11	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 03:11	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/26/19 03:11	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 03:11	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 03:11	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/26/19 03:11	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 03:11	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 03:11	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/26/19 03:11	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 03:11	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 03:11	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/26/19 03:11	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/26/19 03:11	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 03:11	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 03:11	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 03:11	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 03:11	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 03:11	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 03:11	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 03:11	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/26/19 03:11	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 03:11	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 03:11	1
Benzene	ND		2.0	0.25	ug/L			04/26/19 03:11	1
Bromobenzene	ND		5.0	0.25	ug/L			04/26/19 03:11	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/26/19 03:11	1

Client Sample ID: PL-511-20190416

Lab Sample ID: 440-239264-2

Date Collected: 04/16/19 08:35
Matrix: Water
Date Received: 04/17/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		2.0	0.25	ug/L			04/26/19 03:11	1
Bromoform	ND		5.0	0.40	ug/L			04/26/19 03:11	1
Bromomethane	ND		5.0	0.25	ug/L			04/26/19 03:11	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/26/19 03:11	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/26/19 03:11	1
Chloroethane	ND		5.0	0.40	ug/L			04/26/19 03:11	1
Chloroform	ND		2.0	0.25	ug/L			04/26/19 03:11	1
Chloromethane	ND		5.0	0.25	ug/L			04/26/19 03:11	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 03:11	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 03:11	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/26/19 03:11	1
Dibromomethane	ND		2.0	0.25	ug/L			04/26/19 03:11	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/26/19 03:11	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/26/19 03:11	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/26/19 03:11	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/26/19 03:11	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/26/19 03:11	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/26/19 03:11	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/26/19 03:11	1
Naphthalene	ND		5.0	0.40	ug/L			04/26/19 03:11	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/26/19 03:11	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/26/19 03:11	1
o-Xylene	ND		2.0	0.25	ug/L			04/26/19 03:11	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/26/19 03:11	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 03:11	1
Styrene	ND		2.0	0.25	ug/L			04/26/19 03:11	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 03:11	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/26/19 03:11	1
Toluene	ND		2.0	0.25	ug/L			04/26/19 03:11	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 03:11	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 03:11	1
Trichloroethene	ND		2.0	0.25	ug/L			04/26/19 03:11	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/26/19 03:11	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/26/19 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*04/26/19 03:11*	*1*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*04/26/19 03:11*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*04/26/19 03:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*04/26/19 03:11*	*1*

Client Sample ID: M-092-20190416

Lab Sample ID: 440-239264-3

Date Collected: 04/16/19 08:40
Matrix: Water
Date Received: 04/17/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/26/19 03:38	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 03:38	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/26/19 03:38	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239264-1
SDG: Henderon, NV

Client Sample ID: M-092-20190416

Lab Sample ID: 440-239264-3

Date Collected: 04/16/19 08:40
Matrix: Water
Date Received: 04/17/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 03:38	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 03:38	1
1,1-Dichloroethene	**1.8**	**J**	5.0	0.25	ug/L			04/26/19 03:38	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 03:38	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 03:38	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/26/19 03:38	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 03:38	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 03:38	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/26/19 03:38	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/26/19 03:38	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 03:38	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 03:38	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 03:38	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 03:38	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 03:38	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 03:38	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 03:38	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/26/19 03:38	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 03:38	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 03:38	1
Benzene	ND		2.0	0.25	ug/L			04/26/19 03:38	1
Bromobenzene	ND		5.0	0.25	ug/L			04/26/19 03:38	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/26/19 03:38	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/26/19 03:38	1
Bromoform	ND		5.0	0.40	ug/L			04/26/19 03:38	1
Bromomethane	ND		5.0	0.25	ug/L			04/26/19 03:38	1
Carbon tetrachloride	**1.1**		1.0	0.25	ug/L			04/26/19 03:38	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/26/19 03:38	1
Chloroethane	ND		5.0	0.40	ug/L			04/26/19 03:38	1
Chloroform	**86**		2.0	0.25	ug/L			04/26/19 03:38	1
Chloromethane	ND		5.0	0.25	ug/L			04/26/19 03:38	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 03:38	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 03:38	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/26/19 03:38	1
Dibromomethane	ND		2.0	0.25	ug/L			04/26/19 03:38	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/26/19 03:38	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/26/19 03:38	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/26/19 03:38	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/26/19 03:38	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/26/19 03:38	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/26/19 03:38	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/26/19 03:38	1
Naphthalene	ND		5.0	0.40	ug/L			04/26/19 03:38	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/26/19 03:38	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/26/19 03:38	1
o-Xylene	ND		2.0	0.25	ug/L			04/26/19 03:38	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/26/19 03:38	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 03:38	1
Styrene	ND		2.0	0.25	ug/L			04/26/19 03:38	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239264-1
SDG: Henderon, NV

Client Sample ID: M-092-20190416

Lab Sample ID: 440-239264-3

Date Collected: 04/16/19 08:40
Date Received: 04/17/19 10:30

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 03:38	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/26/19 03:38	1
Toluene	ND		2.0	0.25	ug/L			04/26/19 03:38	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 03:38	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 03:38	1
Trichloroethene	**9.5**		2.0	0.25	ug/L			04/26/19 03:38	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/26/19 03:38	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/26/19 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*04/26/19 03:38*	*1*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*04/26/19 03:38*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*04/26/19 03:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*04/26/19 03:38*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/23/19 06:11	04/23/19 18:31	1
2,4'-DDE	ND		0.10	0.020	ug/L		04/23/19 06:11	04/23/19 18:31	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/23/19 06:11	04/23/19 18:31	1
4,4'-DDD	ND		0.10	0.0040	ug/L		04/23/19 06:11	04/23/19 18:31	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/23/19 06:11	04/23/19 18:31	1
4,4'-DDT	ND		0.10	0.0040	ug/L		04/23/19 06:11	04/23/19 18:31	1
Aldrin	ND		0.0050	0.0015	ug/L		04/23/19 06:11	04/23/19 18:31	1
alpha-BHC	ND		0.0050	0.0025	ug/L		04/23/19 06:11	04/23/19 18:31	1
beta-BHC	ND		0.010	0.0040	ug/L		04/23/19 06:11	04/23/19 18:31	1
Chlordane	ND		0.10	0.080	ug/L		04/23/19 06:11	04/23/19 18:31	1
delta-BHC	ND		0.20	0.0035	ug/L		04/23/19 06:11	04/23/19 18:31	1
Dieldrin	ND		0.0050	0.0020	ug/L		04/23/19 06:11	04/23/19 18:31	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/23/19 06:11	04/23/19 18:31	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/23/19 06:11	04/23/19 18:31	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/23/19 06:11	04/23/19 18:31	1
Endrin	ND		0.10	0.0020	ug/L		04/23/19 06:11	04/23/19 18:31	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/23/19 06:11	04/23/19 18:31	1
Endrin ketone	ND		0.10	0.0070	ug/L		04/23/19 06:11	04/23/19 18:31	1
gamma-BHC (Lindane)	ND		0.10	0.0030	ug/L		04/23/19 06:11	04/23/19 18:31	1
Heptachlor	ND		0.010	0.0030	ug/L		04/23/19 06:11	04/23/19 18:31	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/23/19 06:11	04/23/19 18:31	1
Methoxychlor	ND		0.10	0.0035	ug/L		04/23/19 06:11	04/23/19 18:31	1
Toxaphene	ND		5.0	0.25	ug/L		04/23/19 06:11	04/23/19 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*28 - 108*	*04/23/19 06:11*	*04/23/19 18:31*	*1*
Tetrachloro-m-xylene	*57*		*10 - 123*	*04/23/19 06:11*	*04/23/19 18:31*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**1700**		400	95	ug/L			04/25/19 14:39	100

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239264-1
SDG: Henderon, NV

Client Sample ID: M-092-20190416

Lab Sample ID: 440-239264-3
Matrix: Water

Date Collected: 04/16/19 08:40
Date Received: 04/17/19 10:30

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	82		0.20	0.10	ug/L		04/25/19 08:49	04/25/19 22:01	1
Barium	35	B	0.20	0.10	ug/L		04/25/19 08:49	04/25/19 22:01	1
Cadmium	ND		0.10	0.050	ug/L		04/25/19 08:49	04/25/19 22:01	1
Chromium	23	B	0.50	0.25	ug/L		04/25/19 08:49	04/25/19 22:01	1
Lead	0.88		0.10	0.050	ug/L		04/25/19 08:49	04/25/19 22:01	1
Selenium	3.2		0.60	0.30	ug/L		04/25/19 08:49	04/25/19 22:01	1
Silver	ND		0.20	0.10	ug/L		04/25/19 08:49	04/25/19 22:01	1
Uranium	5.4		0.10	0.050	ug/L		04/25/19 08:49	04/25/19 22:01	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/25/19 11:30	04/25/19 18:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2300		20	10	mg/L			04/23/19 08:44	1

Client Sample ID: M-136-20190416

Lab Sample ID: 440-239264-4
Matrix: Water

Date Collected: 04/16/19 11:55
Date Received: 04/17/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/26/19 04:05	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 04:05	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/26/19 04:05	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 04:05	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 04:05	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/26/19 04:05	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 04:05	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 04:05	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/26/19 04:05	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 04:05	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 04:05	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/26/19 04:05	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/26/19 04:05	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 04:05	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 04:05	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 04:05	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 04:05	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 04:05	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 04:05	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 04:05	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/26/19 04:05	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 04:05	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 04:05	1
Benzene	ND		2.0	0.25	ug/L			04/26/19 04:05	1
Bromobenzene	ND		5.0	0.25	ug/L			04/26/19 04:05	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/26/19 04:05	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/26/19 04:05	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239264-1
SDG: Henderon, NV

Client Sample ID: M-136-20190416

Date Collected: 04/16/19 11:55
Date Received: 04/17/19 10:30

Lab Sample ID: 440-239264-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		5.0	0.40	ug/L			04/26/19 04:05	1
Bromomethane	ND		5.0	0.25	ug/L			04/26/19 04:05	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/26/19 04:05	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/26/19 04:05	1
Chloroethane	ND		5.0	0.40	ug/L			04/26/19 04:05	1
Chloroform	**17**		2.0	0.25	ug/L			04/26/19 04:05	1
Chloromethane	ND		5.0	0.25	ug/L			04/26/19 04:05	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 04:05	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 04:05	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/26/19 04:05	1
Dibromomethane	ND		2.0	0.25	ug/L			04/26/19 04:05	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/26/19 04:05	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/26/19 04:05	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/26/19 04:05	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/26/19 04:05	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/26/19 04:05	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/26/19 04:05	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/26/19 04:05	1
Naphthalene	ND		5.0	0.40	ug/L			04/26/19 04:05	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/26/19 04:05	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/26/19 04:05	1
o-Xylene	ND		2.0	0.25	ug/L			04/26/19 04:05	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/26/19 04:05	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 04:05	1
Styrene	ND		2.0	0.25	ug/L			04/26/19 04:05	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 04:05	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/26/19 04:05	1
Toluene	ND		2.0	0.25	ug/L			04/26/19 04:05	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 04:05	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 04:05	1
Trichloroethene	ND		2.0	0.25	ug/L			04/26/19 04:05	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/26/19 04:05	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/26/19 04:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*04/26/19 04:05*	*1*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*04/26/19 04:05*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*04/26/19 04:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*04/26/19 04:05*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.099	0.020	ug/L		04/23/19 06:11	04/23/19 18:58	1
2,4'-DDE	ND		0.099	0.020	ug/L		04/23/19 06:11	04/23/19 18:58	1
2,4'-DDT	ND		0.099	0.020	ug/L		04/23/19 06:11	04/23/19 18:58	1
4,4'-DDD	ND		0.099	0.0040	ug/L		04/23/19 06:11	04/23/19 18:58	1
4,4'-DDE	ND		0.099	0.0030	ug/L		04/23/19 06:11	04/23/19 18:58	1
4,4'-DDT	ND		0.099	0.0040	ug/L		04/23/19 06:11	04/23/19 18:58	1
Aldrin	ND		0.0050	0.0015	ug/L		04/23/19 06:11	04/23/19 18:58	1
alpha-BHC	ND		0.0050	0.0025	ug/L		04/23/19 06:11	04/23/19 18:58	1

Client Sample ID: M-136-20190416

Lab Sample ID: 440-239264-4

Date Collected: 04/16/19 11:55
Matrix: Water
Date Received: 04/17/19 10:30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	ND		0.0099	0.0040	ug/L		04/23/19 06:11	04/23/19 18:58	1
Chlordane	ND		0.099	0.079	ug/L		04/23/19 06:11	04/23/19 18:58	1
delta-BHC	ND		0.20	0.0035	ug/L		04/23/19 06:11	04/23/19 18:58	1
Dieldrin	ND		0.0050	0.0020	ug/L		04/23/19 06:11	04/23/19 18:58	1
Endosulfan I	ND		0.099	0.0030	ug/L		04/23/19 06:11	04/23/19 18:58	1
Endosulfan II	ND		0.099	0.0020	ug/L		04/23/19 06:11	04/23/19 18:58	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/23/19 06:11	04/23/19 18:58	1
Endrin	ND		0.099	0.0020	ug/L		04/23/19 06:11	04/23/19 18:58	1
Endrin aldehyde	ND		0.099	0.0020	ug/L		04/23/19 06:11	04/23/19 18:58	1
Endrin ketone	ND		0.099	0.0069	ug/L		04/23/19 06:11	04/23/19 18:58	1
gamma-BHC (Lindane)	ND		0.099	0.0030	ug/L		04/23/19 06:11	04/23/19 18:58	1
Heptachlor	ND		0.0099	0.0030	ug/L		04/23/19 06:11	04/23/19 18:58	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/23/19 06:11	04/23/19 18:58	1
Methoxychlor	ND		0.099	0.0035	ug/L		04/23/19 06:11	04/23/19 18:58	1
Toxaphene	ND		5.0	0.25	ug/L		04/23/19 06:11	04/23/19 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*28 - 108*	*04/23/19 06:11*	*04/23/19 18:58*	*1*
Tetrachloro-m-xylene	*56*		*10 - 123*	*04/23/19 06:11*	*04/23/19 18:58*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**46000**		4000	950	ug/L			04/25/19 15:00	1000

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**38**		0.20	0.10	ug/L		04/25/19 08:49	04/25/19 21:59	1
Barium	**41**	**B**	0.20	0.10	ug/L		04/25/19 08:49	04/25/19 21:59	1
Cadmium	ND		0.10	0.050	ug/L		04/25/19 08:49	04/25/19 21:59	1
Chromium	**69**	**B**	0.50	0.25	ug/L		04/25/19 08:49	04/25/19 21:59	1
Lead	**1.5**		0.10	0.050	ug/L		04/25/19 08:49	04/25/19 21:59	1
Selenium	**2.1**		0.60	0.30	ug/L		04/25/19 08:49	04/25/19 21:59	1
Silver	ND		0.20	0.10	ug/L		04/25/19 08:49	04/25/19 21:59	1
Uranium	**5.1**		0.10	0.050	ug/L		04/25/19 08:49	04/25/19 21:59	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/25/19 11:30	04/25/19 18:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1100**		10	5.0	mg/L			04/23/19 08:44	1

Client Sample ID: M-150-20190416

Lab Sample ID: 440-239264-5

Date Collected: 04/16/19 10:45
Matrix: Water
Date Received: 04/17/19 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/26/19 04:32	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 04:32	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239264-1
SDG: Henderon, NV

Client Sample ID: M-150-20190416

Date Collected: 04/16/19 10:45
Date Received: 04/17/19 10:30

Lab Sample ID: 440-239264-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/26/19 04:32	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/26/19 04:32	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 04:32	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/26/19 04:32	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 04:32	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 04:32	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/26/19 04:32	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/26/19 04:32	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 04:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/26/19 04:32	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/26/19 04:32	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 04:32	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/26/19 04:32	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 04:32	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/26/19 04:32	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 04:32	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/26/19 04:32	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/26/19 04:32	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/26/19 04:32	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 04:32	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/26/19 04:32	1
Benzene	ND		2.0	0.25	ug/L			04/26/19 04:32	1
Bromobenzene	ND		5.0	0.25	ug/L			04/26/19 04:32	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/26/19 04:32	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/26/19 04:32	1
Bromoform	ND		5.0	0.40	ug/L			04/26/19 04:32	1
Bromomethane	ND		5.0	0.25	ug/L			04/26/19 04:32	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/26/19 04:32	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/26/19 04:32	1
Chloroethane	ND		5.0	0.40	ug/L			04/26/19 04:32	1
Chloroform	ND		2.0	0.25	ug/L			04/26/19 04:32	1
Chloromethane	ND		5.0	0.25	ug/L			04/26/19 04:32	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 04:32	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 04:32	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/26/19 04:32	1
Dibromomethane	ND		2.0	0.25	ug/L			04/26/19 04:32	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/26/19 04:32	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/26/19 04:32	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/26/19 04:32	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/26/19 04:32	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/26/19 04:32	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/26/19 04:32	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/26/19 04:32	1
Naphthalene	ND		5.0	0.40	ug/L			04/26/19 04:32	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/26/19 04:32	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/26/19 04:32	1
o-Xylene	ND		2.0	0.25	ug/L			04/26/19 04:32	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/26/19 04:32	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 04:32	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239264-1
SDG: Henderon, NV

Client Sample ID: M-150-20190416

Date Collected: 04/16/19 10:45
Date Received: 04/17/19 10:30

Lab Sample ID: 440-239264-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		2.0	0.25	ug/L			04/26/19 04:32	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/26/19 04:32	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/26/19 04:32	1
Toluene	ND		2.0	0.25	ug/L			04/26/19 04:32	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/26/19 04:32	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/26/19 04:32	1
Trichloroethene	ND		2.0	0.25	ug/L			04/26/19 04:32	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/26/19 04:32	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/26/19 04:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*04/26/19 04:32*	*1*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*04/26/19 04:32*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*04/26/19 04:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*04/26/19 04:32*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.097	0.019	ug/L		04/23/19 06:11	04/23/19 19:24	1
2,4'-DDE	ND		0.097	0.019	ug/L		04/23/19 06:11	04/23/19 19:24	1
2,4'-DDT	ND		0.097	0.019	ug/L		04/23/19 06:11	04/23/19 19:24	1
4,4'-DDD	ND		0.097	0.0039	ug/L		04/23/19 06:11	04/23/19 19:24	1
4,4'-DDE	ND		0.097	0.0029	ug/L		04/23/19 06:11	04/23/19 19:24	1
4,4'-DDT	ND		0.097	0.0039	ug/L		04/23/19 06:11	04/23/19 19:24	1
Aldrin	ND		0.0048	0.0014	ug/L		04/23/19 06:11	04/23/19 19:24	1
alpha-BHC	ND		0.0048	0.0024	ug/L		04/23/19 06:11	04/23/19 19:24	1
beta-BHC	ND		0.0097	0.0039	ug/L		04/23/19 06:11	04/23/19 19:24	1
Chlordane	ND		0.097	0.077	ug/L		04/23/19 06:11	04/23/19 19:24	1
delta-BHC	ND		0.19	0.0034	ug/L		04/23/19 06:11	04/23/19 19:24	1
Dieldrin	ND		0.0048	0.0019	ug/L		04/23/19 06:11	04/23/19 19:24	1
Endosulfan I	ND		0.097	0.0029	ug/L		04/23/19 06:11	04/23/19 19:24	1
Endosulfan II	ND		0.097	0.0019	ug/L		04/23/19 06:11	04/23/19 19:24	1
Endosulfan sulfate	ND		0.19	0.0029	ug/L		04/23/19 06:11	04/23/19 19:24	1
Endrin	ND		0.097	0.0019	ug/L		04/23/19 06:11	04/23/19 19:24	1
Endrin aldehyde	ND		0.097	0.0019	ug/L		04/23/19 06:11	04/23/19 19:24	1
Endrin ketone	ND		0.097	0.0068	ug/L		04/23/19 06:11	04/23/19 19:24	1
gamma-BHC (Lindane)	ND		0.097	0.0029	ug/L		04/23/19 06:11	04/23/19 19:24	1
Heptachlor	ND		0.0097	0.0029	ug/L		04/23/19 06:11	04/23/19 19:24	1
Heptachlor epoxide	ND		0.0048	0.0024	ug/L		04/23/19 06:11	04/23/19 19:24	1
Methoxychlor	ND		0.097	0.0034	ug/L		04/23/19 06:11	04/23/19 19:24	1
Toxaphene	ND		4.8	0.24	ug/L		04/23/19 06:11	04/23/19 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*28 - 108*	*04/23/19 06:11*	*04/23/19 19:24*	*1*
Tetrachloro-m-xylene	*56*		*10 - 123*	*04/23/19 06:11*	*04/23/19 19:24*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**25**		20	4.8	ug/L			04/25/19 14:19	5

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239264-1
SDG: Henderon, NV

Client Sample ID: M-150-20190416

Lab Sample ID: 440-239264-5

Date Collected: 04/16/19 10:45
Date Received: 04/17/19 10:30

Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**36**		0.20	0.10	ug/L		04/25/19 08:49	04/25/19 21:56	1
Barium	**24**	**B**	0.20	0.10	ug/L		04/25/19 08:49	04/25/19 21:56	1
Cadmium	ND		0.10	0.050	ug/L		04/25/19 08:49	04/25/19 21:56	1
Chromium	**51**	**B**	0.50	0.25	ug/L		04/25/19 08:49	04/25/19 21:56	1
Lead	**0.14**		0.10	0.050	ug/L		04/25/19 08:49	04/25/19 21:56	1
Selenium	**1.8**		0.60	0.30	ug/L		04/25/19 08:49	04/25/19 21:56	1
Silver	ND		0.20	0.10	ug/L		04/25/19 08:49	04/25/19 21:56	1
Uranium	**4.2**		0.10	0.050	ug/L		04/25/19 08:49	04/25/19 21:56	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/25/19 11:30	04/25/19 18:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**520**		10	5.0	mg/L			04/23/19 08:44	1

Surrogate Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239264-1
SDG: Henderon, NV

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB (80-120)	DBFM (76-132)	TOL (80-128)	DCA (70-130)
440-239073-A-6 MS	Matrix Spike	91	110	101	93
440-239073-B-6 MSD	Matrix Spike Duplicate	93	108	100	92
440-239264-1	TB-20190416	91	106	104	92
440-239264-2	PL-511-20190416	93	109	104	92
440-239264-3	M-092-20190416	90	109	104	94
440-239264-4	M-136-20190416	90	109	103	93
440-239264-5	M-150-20190416	92	110	105	95
LCS 440-542648/5	Lab Control Sample	92	105	100	88
MB 440-542648/7	Method Blank	90	105	104	88

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCB2 (28-108)	TCX2 (10-123)
440-239264-3	M-092-20190416	72	57
440-239264-4	M-136-20190416	71	56
440-239264-5	M-150-20190416	72	56
440-239292-G-4-A MS	Matrix Spike	72	61
440-239292-H-4-A MSD	Matrix Spike Duplicate	73	62
LCS 440-541917/2-A	Lab Control Sample	71	62
MB 440-541917/1-A	Method Blank	73	56

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239264-1
SDG: Henderon, NV

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
314.0	Perchlorate (IC)	EPA	TAL IRV
6020	Metals (ICP/MS)	SW846	TAL IRV
7470A	Mercury (CVAA)	SW846	TAL IRV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL IRV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239264-1
SDG: Henderon, NV

Client Sample ID: TB-20190416
Date Collected: 04/16/19 06:40
Date Received: 04/17/19 10:30

Lab Sample ID: 440-239264-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542648	04/26/19 02:45	OH1	TAL IRV

Client Sample ID: PL-511-20190416
Date Collected: 04/16/19 08:35
Date Received: 04/17/19 10:30

Lab Sample ID: 440-239264-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542648	04/26/19 03:11	OH1	TAL IRV

Client Sample ID: M-092-20190416
Date Collected: 04/16/19 08:40
Date Received: 04/17/19 10:30

Lab Sample ID: 440-239264-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542648	04/26/19 03:38	OH1	TAL IRV
Total/NA	Prep	3510C			1005 mL	2 mL	541917	04/23/19 06:11	L1H	TAL IRV
Total/NA	Analysis	8081A		1			541997	04/23/19 18:31	D1D	TAL IRV
Total/NA	Analysis	314.0		100			542483	04/25/19 14:39	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	542493	04/25/19 08:49	BV	TAL IRV
Total Recoverable	Analysis	6020		1			542715	04/25/19 22:01	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542338	04/25/19 11:30	KE	TAL IRV
Total/NA	Analysis	7470A		1			542743	04/25/19 18:06	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	541950	04/23/19 08:44	XL	TAL IRV

Client Sample ID: M-136-20190416
Date Collected: 04/16/19 11:55
Date Received: 04/17/19 10:30

Lab Sample ID: 440-239264-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542648	04/26/19 04:05	OH1	TAL IRV
Total/NA	Prep	3510C			1010 mL	2 mL	541917	04/23/19 06:11	L1H	TAL IRV
Total/NA	Analysis	8081A		1			541997	04/23/19 18:58	D1D	TAL IRV
Total/NA	Analysis	314.0		1000			542483	04/25/19 15:00	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	542493	04/25/19 08:49	BV	TAL IRV
Total Recoverable	Analysis	6020		1			542715	04/25/19 21:59	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542338	04/25/19 11:30	KE	TAL IRV
Total/NA	Analysis	7470A		1			542743	04/25/19 18:08	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	541950	04/23/19 08:44	XL	TAL IRV

Client Sample ID: M-150-20190416
Date Collected: 04/16/19 10:45
Date Received: 04/17/19 10:30

Lab Sample ID: 440-239264-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	542648	04/26/19 04:32	OH1	TAL IRV

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239264-1
SDG: Henderon, NV

Client Sample ID: M-150-20190416

Date Collected: 04/16/19 10:45
Date Received: 04/17/19 10:30

Lab Sample ID: 440-239264-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1035 mL	2 mL	541917	04/23/19 06:11	L1H	TAL IRV
Total/NA	Analysis	8081A		1			541997	04/23/19 19:24	D1D	TAL IRV
Total/NA	Analysis	314.0		5			542483	04/25/19 14:19	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	542493	04/25/19 08:49	BV	TAL IRV
Total Recoverable	Analysis	6020		1			542715	04/25/19 21:56	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542338	04/25/19 11:30	KE	TAL IRV
Total/NA	Analysis	7470A		1			542743	04/25/19 18:10	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	541950	04/23/19 08:44	XL	TAL IRV

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-542648/7
Matrix: Water
Analysis Batch: 542648

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/25/19 21:27	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/25/19 21:27	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/25/19 21:27	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/25/19 21:27	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/25/19 21:27	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/25/19 21:27	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/25/19 21:27	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/25/19 21:27	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Benzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Bromobenzene	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Bromoform	ND		5.0	0.40	ug/L			04/25/19 21:27	1
Bromomethane	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/25/19 21:27	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Chloroethane	ND		5.0	0.40	ug/L			04/25/19 21:27	1
Chloroform	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Chloromethane	ND		5.0	0.25	ug/L			04/25/19 21:27	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Dibromomethane	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/25/19 21:27	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/25/19 21:27	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/25/19 21:27	1
Naphthalene	ND		5.0	0.40	ug/L			04/25/19 21:27	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/25/19 21:27	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/25/19 21:27	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-542648/7
Matrix: Water
Analysis Batch: 542648

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Styrene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Toluene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Trichloroethene	ND		2.0	0.25	ug/L			04/25/19 21:27	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/25/19 21:27	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/25/19 21:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*04/25/19 21:27*	*1*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*04/25/19 21:27*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*04/25/19 21:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*04/25/19 21:27*	*1*

Lab Sample ID: LCS 440-542648/5
Matrix: Water
Analysis Batch: 542648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	11.6		ug/L		116	60 - 141
1,1,1-Trichloroethane	10.0	10.7		ug/L		107	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.04		ug/L		90	63 - 130
1,1,2-Trichloroethane	10.0	8.71		ug/L		87	70 - 130
1,1-Dichloroethane	10.0	10.4		ug/L		104	64 - 130
1,1-Dichloroethene	10.0	11.1		ug/L		111	70 - 130
1,1-Dichloropropene	10.0	10.0		ug/L		100	70 - 130
1,2,3-Trichlorobenzene	10.0	12.1		ug/L		121	60 - 140
1,2,3-Trichloropropane	10.0	8.42	J	ug/L		84	63 - 130
1,2,4-Trichlorobenzene	10.0	12.1		ug/L		121	60 - 140
1,2,4-Trimethylbenzene	10.0	11.1		ug/L		111	70 - 135
1,2-Dibromo-3-Chloropropane	10.0	8.54		ug/L		85	52 - 140
1,2-Dibromoethane (EDB)	10.0	8.49		ug/L		85	70 - 130
1,2-Dichlorobenzene	10.0	11.5		ug/L		115	70 - 130
1,2-Dichloroethane	10.0	8.38		ug/L		84	57 - 138
1,2-Dichloropropane	10.0	8.66		ug/L		87	67 - 130
1,3,5-Trimethylbenzene	10.0	11.2		ug/L		112	70 - 136
1,3-Dichlorobenzene	10.0	10.7		ug/L		107	70 - 130
1,3-Dichloropropane	10.0	8.49		ug/L		85	70 - 130
1,4-Dichlorobenzene	10.0	10.4		ug/L		104	70 - 130
2,2-Dichloropropane	10.0	12.0		ug/L		120	68 - 141
2-Chlorotoluene	10.0	10.7		ug/L		107	70 - 130
4-Chlorotoluene	10.0	10.2		ug/L		102	70 - 130
Benzene	10.0	9.80		ug/L		98	68 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-542648/5
Matrix: Water
Analysis Batch: 542648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	10.0	10.4		ug/L		104	70 - 130
Bromochloromethane	10.0	10.9		ug/L		109	70 - 130
Bromodichloromethane	10.0	9.24		ug/L		92	70 - 132
Bromoform	10.0	8.60		ug/L		86	60 - 148
Bromomethane	10.0	10.0		ug/L		100	64 - 139
Carbon tetrachloride	10.0	10.5		ug/L		105	60 - 150
Chlorobenzene	10.0	9.94		ug/L		99	70 - 130
Chloroethane	10.0	10.0		ug/L		100	64 - 135
Chloroform	10.0	10.6		ug/L		106	70 - 130
Chloromethane	10.0	7.94		ug/L		79	47 - 140
cis-1,2-Dichloroethene	10.0	10.5		ug/L		105	70 - 133
cis-1,3-Dichloropropene	10.0	9.47		ug/L		95	70 - 133
Dibromochloromethane	10.0	9.57		ug/L		96	69 - 145
Dibromomethane	10.0	8.49		ug/L		85	70 - 130
Dichlorodifluoromethane	10.0	9.43		ug/L		94	29 - 150
Ethylbenzene	10.0	9.92		ug/L		99	70 - 130
Hexachlorobutadiene	10.0	11.5		ug/L		115	10 - 150
Isopropylbenzene	10.0	10.7		ug/L		107	70 - 136
m,p-Xylene	10.0	10.1		ug/L		101	70 - 130
Methylene Chloride	10.0	10.9		ug/L		109	52 - 130
Naphthalene	10.0	10.2		ug/L		102	60 - 140
n-Butylbenzene	10.0	11.1		ug/L		111	65 - 150
N-Propylbenzene	10.0	10.5		ug/L		105	67 - 139
o-Xylene	10.0	10.9		ug/L		109	70 - 130
p-Isopropyltoluene	10.0	11.4		ug/L		114	70 - 132
sec-Butylbenzene	10.0	11.2		ug/L		112	70 - 138
Styrene	10.0	10.0		ug/L		100	70 - 134
tert-Butylbenzene	10.0	10.8		ug/L		108	70 - 130
Tetrachloroethene	10.0	10.6		ug/L		106	70 - 130
Toluene	10.0	9.78		ug/L		98	70 - 130
trans-1,2-Dichloroethene	10.0	10.7		ug/L		107	70 - 130
trans-1,3-Dichloropropene	10.0	8.88		ug/L		89	70 - 132
Trichloroethene	10.0	10.2		ug/L		102	70 - 130
Trichlorofluoromethane	10.0	10.5		ug/L		105	60 - 150
Vinyl chloride	10.0	9.47		ug/L		95	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*

Lab Sample ID: 440-239073-A-6 MS
Matrix: Water
Analysis Batch: 542648

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		12.5	14.9		ug/L		119	60 - 149

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-239073-A-6 MS
Matrix: Water
Analysis Batch: 542648

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		12.5	13.9		ug/L		111	70 - 130
1,1,2,2-Tetrachloroethane	ND		12.5	12.3		ug/L		99	63 - 130
1,1,2-Trichloroethane	ND		12.5	11.6		ug/L		93	70 - 130
1,1-Dichloroethane	ND		12.5	13.7		ug/L		110	65 - 130
1,1-Dichloroethene	0.51	J	12.5	15.0		ug/L		116	70 - 130
1,1-Dichloropropene	ND		12.5	13.3		ug/L		106	64 - 130
1,2,3-Trichlorobenzene	ND		12.5	14.8		ug/L		119	60 - 140
1,2,3-Trichloropropane	ND		12.5	12.4		ug/L		99	60 - 130
1,2,4-Trichlorobenzene	ND		12.5	15.1		ug/L		121	60 - 140
1,2,4-Trimethylbenzene	ND		12.5	13.8		ug/L		110	70 - 130
1,2-Dibromo-3-Chloropropane	ND		12.5	11.8		ug/L		94	48 - 140
1,2-Dibromoethane (EDB)	ND		12.5	11.8		ug/L		94	70 - 131
1,2-Dichlorobenzene	0.29	J	12.5	14.3		ug/L		112	70 - 130
1,2-Dichloroethane	ND		12.5	11.5		ug/L		92	56 - 146
1,2-Dichloropropane	ND		12.5	11.4		ug/L		91	69 - 130
1,3,5-Trimethylbenzene	ND		12.5	13.9		ug/L		111	70 - 130
1,3-Dichlorobenzene	ND		12.5	13.3		ug/L		107	70 - 130
1,3-Dichloropropane	ND		12.5	11.1		ug/L		89	70 - 130
1,4-Dichlorobenzene	0.29	J	12.5	13.3		ug/L		104	70 - 130
2,2-Dichloropropane	ND		12.5	15.5		ug/L		124	69 - 138
2-Chlorotoluene	ND		12.5	13.3		ug/L		106	70 - 130
4-Chlorotoluene	ND		12.5	12.9		ug/L		103	70 - 130
Benzene	ND		12.5	12.6		ug/L		101	66 - 130
Bromobenzene	ND		12.5	13.0		ug/L		104	70 - 130
Bromochloromethane	ND		12.5	14.6		ug/L		116	70 - 130
Bromodichloromethane	ND		12.5	11.5		ug/L		92	70 - 138
Bromoform	ND		12.5	12.1		ug/L		97	59 - 150
Bromomethane	ND		12.5	13.6		ug/L		109	62 - 131
Carbon tetrachloride	0.73	J	12.5	14.7		ug/L		112	60 - 150
Chlorobenzene	ND		12.5	12.8		ug/L		102	70 - 130
Chloroethane	ND		12.5	13.4		ug/L		107	68 - 130
Chloroform	66		12.5	79.8	4	ug/L		112	70 - 130
Chloromethane	ND		12.5	11.4		ug/L		91	39 - 144
cis-1,2-Dichloroethene	ND		12.5	13.6		ug/L		109	70 - 130
cis-1,3-Dichloropropene	ND		12.5	12.6		ug/L		100	70 - 133
Dibromochloromethane	ND		12.5	12.7		ug/L		101	70 - 148
Dibromomethane	ND		12.5	11.6		ug/L		93	70 - 130
Dichlorodifluoromethane	ND		12.5	14.5		ug/L		116	25 - 142
Ethylbenzene	ND		12.5	12.7		ug/L		102	70 - 130
Hexachlorobutadiene	ND		12.5	13.5		ug/L		108	10 - 150
Isopropylbenzene	ND		12.5	13.7		ug/L		110	70 - 132
m,p-Xylene	ND		12.5	13.2		ug/L		106	70 - 133
Methylene Chloride	ND		12.5	13.7		ug/L		110	52 - 130
Naphthalene	ND		12.5	14.0		ug/L		112	60 - 140
n-Butylbenzene	ND		12.5	14.0		ug/L		112	61 - 149
N-Propylbenzene	ND		12.5	13.3		ug/L		106	66 - 135
o-Xylene	ND		12.5	13.9		ug/L		111	70 - 133
p-Isopropyltoluene	ND		12.5	14.0		ug/L		112	70 - 130
sec-Butylbenzene	ND		12.5	13.6		ug/L		109	67 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-239073-A-6 MS
Matrix: Water
Analysis Batch: 542648

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	ND		12.5	12.6		ug/L		100	29 - 150
tert-Butylbenzene	ND		12.5	13.3		ug/L		106	70 - 130
Tetrachloroethene	ND		12.5	13.8		ug/L		110	70 - 137
Toluene	ND		12.5	12.5		ug/L		100	70 - 130
trans-1,2-Dichloroethene	ND		12.5	14.6		ug/L		117	70 - 130
trans-1,3-Dichloropropene	ND		12.5	11.6		ug/L		93	70 - 138
Trichloroethene	2.6		12.5	15.3		ug/L		101	70 - 130
Trichlorofluoromethane	ND		12.5	13.8		ug/L		111	60 - 150
Vinyl chloride	ND		12.5	13.1		ug/L		105	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*
Dibromofluoromethane (Surr)	*110*		*76 - 132*
Toluene-d8 (Surr)	*101*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*

Lab Sample ID: 440-239073-B-6 MSD
Matrix: Water
Analysis Batch: 542648

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		12.5	15.1		ug/L		121	60 - 149	1	20
1,1,1-Trichloroethane	ND		12.5	14.1		ug/L		113	70 - 130	2	20
1,1,2,2-Tetrachloroethane	ND		12.5	12.6		ug/L		101	63 - 130	2	30
1,1,2-Trichloroethane	ND		12.5	11.8		ug/L		95	70 - 130	2	25
1,1-Dichloroethane	ND		12.5	14.0		ug/L		112	65 - 130	2	20
1,1-Dichloroethene	0.51	J	12.5	15.2		ug/L		118	70 - 130	1	20
1,1-Dichloropropene	ND		12.5	13.4		ug/L		107	64 - 130	1	20
1,2,3-Trichlorobenzene	ND		12.5	15.2		ug/L		122	60 - 140	3	20
1,2,3-Trichloropropane	ND		12.5	12.4		ug/L		99	60 - 130	0	30
1,2,4-Trichlorobenzene	ND		12.5	15.5		ug/L		124	60 - 140	3	20
1,2,4-Trimethylbenzene	ND		12.5	14.0		ug/L		112	70 - 130	2	25
1,2-Dibromo-3-Chloropropane	ND		12.5	12.3		ug/L		98	48 - 140	4	30
1,2-Dibromoethane (EDB)	ND		12.5	11.7		ug/L		93	70 - 131	1	25
1,2-Dichlorobenzene	0.29	J	12.5	14.8		ug/L		116	70 - 130	3	20
1,2-Dichloroethane	ND		12.5	11.3		ug/L		90	56 - 146	2	20
1,2-Dichloropropane	ND		12.5	11.4		ug/L		91	69 - 130	0	20
1,3,5-Trimethylbenzene	ND		12.5	14.4		ug/L		115	70 - 130	4	20
1,3-Dichlorobenzene	ND		12.5	13.7		ug/L		109	70 - 130	3	20
1,3-Dichloropropane	ND		12.5	11.1		ug/L		89	70 - 130	0	25
1,4-Dichlorobenzene	0.29	J	12.5	13.5		ug/L		106	70 - 130	1	20
2,2-Dichloropropane	ND		12.5	15.7		ug/L		126	69 - 138	1	25
2-Chlorotoluene	ND		12.5	13.7		ug/L		109	70 - 130	3	20
4-Chlorotoluene	ND		12.5	13.1		ug/L		105	70 - 130	2	20
Benzene	ND		12.5	12.8		ug/L		102	66 - 130	1	20
Bromobenzene	ND		12.5	13.3		ug/L		106	70 - 130	2	20
Bromochloromethane	ND		12.5	14.7		ug/L		118	70 - 130	1	25
Bromodichloromethane	ND		12.5	12.1		ug/L		97	70 - 138	5	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-239073-B-6 MSD
Matrix: Water
Analysis Batch: 542648

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		12.5	11.9		ug/L		95	59 - 150	2	25
Bromomethane	ND		12.5	13.9		ug/L		111	62 - 131	2	25
Carbon tetrachloride	0.73	J	12.5	15.1		ug/L		115	60 - 150	2	25
Chlorobenzene	ND		12.5	12.8		ug/L		102	70 - 130	0	20
Chloroethane	ND		12.5	13.4		ug/L		107	68 - 130	0	25
Chloroform	66		12.5	83.0	4	ug/L		138	70 - 130	4	20
Chloromethane	ND		12.5	11.7		ug/L		93	39 - 144	2	25
cis-1,2-Dichloroethene	ND		12.5	13.7		ug/L		109	70 - 130	1	20
cis-1,3-Dichloropropene	ND		12.5	12.5		ug/L		100	70 - 133	0	20
Dibromochloromethane	ND		12.5	12.5		ug/L		100	70 - 148	1	25
Dibromomethane	ND		12.5	11.3		ug/L		91	70 - 130	3	25
Dichlorodifluoromethane	ND		12.5	14.9		ug/L		119	25 - 142	2	30
Ethylbenzene	ND		12.5	12.7		ug/L		102	70 - 130	0	20
Hexachlorobutadiene	ND		12.5	14.0		ug/L		112	10 - 150	4	20
Isopropylbenzene	ND		12.5	14.0		ug/L		112	70 - 132	2	20
m,p-Xylene	ND		12.5	13.2		ug/L		106	70 - 133	0	25
Methylene Chloride	ND		12.5	14.2		ug/L		114	52 - 130	4	20
Naphthalene	ND		12.5	13.9		ug/L		112	60 - 140	0	30
n-Butylbenzene	ND		12.5	14.2		ug/L		113	61 - 149	1	20
N-Propylbenzene	ND		12.5	13.6		ug/L		109	66 - 135	3	20
o-Xylene	ND		12.5	14.1		ug/L		113	70 - 133	1	20
p-Isopropyltoluene	ND		12.5	14.6		ug/L		117	70 - 130	4	20
sec-Butylbenzene	ND		12.5	14.0		ug/L		112	67 - 134	3	20
Styrene	ND		12.5	12.6		ug/L		101	29 - 150	1	35
tert-Butylbenzene	ND		12.5	13.7		ug/L		109	70 - 130	3	20
Tetrachloroethene	ND		12.5	14.3		ug/L		115	70 - 137	4	20
Toluene	ND		12.5	12.7		ug/L		101	70 - 130	1	20
trans-1,2-Dichloroethene	ND		12.5	14.9		ug/L		119	70 - 130	2	20
trans-1,3-Dichloropropene	ND		12.5	11.7		ug/L		94	70 - 138	1	25
Trichloroethene	2.6		12.5	15.6		ug/L		104	70 - 130	2	20
Trichlorofluoromethane	ND		12.5	14.0		ug/L		112	60 - 150	1	25
Vinyl chloride	ND		12.5	13.1		ug/L		105	50 - 137	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-541917/1-A
Matrix: Water
Analysis Batch: 541997

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 541917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/23/19 06:11	04/23/19 15:24	1
2,4'-DDE	ND		0.10	0.020	ug/L		04/23/19 06:11	04/23/19 15:24	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/23/19 06:11	04/23/19 15:24	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 440-541917/1-A
Matrix: Water
Analysis Batch: 541997

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 541917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.10	0.0040	ug/L		04/23/19 06:11	04/23/19 15:24	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/23/19 06:11	04/23/19 15:24	1
4,4'-DDT	ND		0.10	0.0040	ug/L		04/23/19 06:11	04/23/19 15:24	1
Aldrin	ND		0.0050	0.0015	ug/L		04/23/19 06:11	04/23/19 15:24	1
alpha-BHC	ND		0.0050	0.0025	ug/L		04/23/19 06:11	04/23/19 15:24	1
beta-BHC	ND		0.010	0.0040	ug/L		04/23/19 06:11	04/23/19 15:24	1
Chlordane	ND		0.10	0.080	ug/L		04/23/19 06:11	04/23/19 15:24	1
delta-BHC	ND		0.20	0.0035	ug/L		04/23/19 06:11	04/23/19 15:24	1
Dieldrin	ND		0.0050	0.0020	ug/L		04/23/19 06:11	04/23/19 15:24	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/23/19 06:11	04/23/19 15:24	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/23/19 06:11	04/23/19 15:24	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/23/19 06:11	04/23/19 15:24	1
Endrin	ND		0.10	0.0020	ug/L		04/23/19 06:11	04/23/19 15:24	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/23/19 06:11	04/23/19 15:24	1
Endrin ketone	ND		0.10	0.0070	ug/L		04/23/19 06:11	04/23/19 15:24	1
gamma-BHC (Lindane)	ND		0.10	0.0030	ug/L		04/23/19 06:11	04/23/19 15:24	1
Heptachlor	ND		0.010	0.0030	ug/L		04/23/19 06:11	04/23/19 15:24	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/23/19 06:11	04/23/19 15:24	1
Methoxychlor	ND		0.10	0.0035	ug/L		04/23/19 06:11	04/23/19 15:24	1
Toxaphene	ND		5.0	0.25	ug/L		04/23/19 06:11	04/23/19 15:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*28 - 108*	*04/23/19 06:11*	*04/23/19 15:24*	*1*
Tetrachloro-m-xylene	*56*		*10 - 123*	*04/23/19 06:11*	*04/23/19 15:24*	*1*

Lab Sample ID: LCS 440-541917/2-A
Matrix: Water
Analysis Batch: 541997

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 541917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4'-DDD	0.250	0.180		ug/L		72	10 - 150
2,4'-DDE	0.250	0.168		ug/L		67	10 - 150
2,4'-DDT	0.250	0.198		ug/L		79	10 - 150
4,4'-DDD	0.250	0.192		ug/L		77	50 - 128
4,4'-DDE	0.250	0.178		ug/L		71	49 - 121
4,4'-DDT	0.250	0.216		ug/L		86	41 - 140
Aldrin	0.250	0.161		ug/L		64	37 - 115
alpha-BHC	0.250	0.181		ug/L		72	44 - 115
beta-BHC	0.250	0.177		ug/L		71	46 - 121
delta-BHC	0.250	0.187	J	ug/L		75	32 - 129
Dieldrin	0.250	0.182		ug/L		73	39 - 126
Endosulfan I	0.250	0.179		ug/L		71	47 - 115
Endosulfan II	0.250	0.182		ug/L		73	47 - 120
Endosulfan sulfate	0.250	0.184	J	ug/L		73	48 - 126
Endrin	0.250	0.187		ug/L		75	43 - 127
Endrin aldehyde	0.250	0.174		ug/L		70	43 - 120
Endrin ketone	0.250	0.193		ug/L		77	47 - 123
gamma-BHC (Lindane)	0.250	0.186		ug/L		74	45 - 116

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-541917/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541997 — **Prep Batch: 541917**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor	0.250	0.184		ug/L		74	37 - 115
Heptachlor epoxide	0.250	0.180		ug/L		72	41 - 129
Methoxychlor	0.250	0.246		ug/L		98	44 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*71*		*28 - 108*
Tetrachloro-m-xylene	*62*		*10 - 123*

Lab Sample ID: 440-239292-G-4-A MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541997 — **Prep Batch: 541917**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4'-DDD	ND		0.242	0.181		ug/L		75	50 - 125
2,4'-DDE	ND		0.242	0.168		ug/L		69	45 - 125
2,4'-DDT	ND		0.242	0.199		ug/L		82	50 - 125
4,4'-DDD	ND		0.242	0.193		ug/L		80	50 - 125
4,4'-DDE	ND		0.242	0.179		ug/L		74	45 - 125
4,4'-DDT	ND		0.242	0.216		ug/L		89	50 - 125
Aldrin	ND		0.242	0.139		ug/L		57	35 - 120
alpha-BHC	0.014		0.242	0.189		ug/L		72	40 - 120
beta-BHC	0.12		0.242	0.277		ug/L		64	50 - 120
delta-BHC	ND		0.242	0.187	J	ug/L		77	50 - 120
Dieldrin	ND		0.242	0.181		ug/L		75	50 - 120
Endosulfan I	ND		0.242	0.177		ug/L		73	50 - 120
Endosulfan II	ND		0.242	0.182		ug/L		75	50 - 125
Endosulfan sulfate	ND		0.242	0.184	J	ug/L		76	55 - 125
Endrin	ND		0.242	0.188		ug/L		78	50 - 120
Endrin aldehyde	ND		0.242	0.176		ug/L		73	45 - 125
Endrin ketone	ND		0.242	0.191		ug/L		79	50 - 125
gamma-BHC (Lindane)	ND		0.242	0.182		ug/L		76	40 - 120
Heptachlor	ND		0.242	0.182		ug/L		75	40 - 120
Heptachlor epoxide	ND		0.242	0.179		ug/L		74	50 - 120
Methoxychlor	ND		0.242	0.244		ug/L		101	55 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*72*		*28 - 108*
Tetrachloro-m-xylene	*61*		*10 - 123*

Lab Sample ID: 440-239292-H-4-A MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541997 — **Prep Batch: 541917**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4'-DDD	ND		0.240	0.182		ug/L		76	50 - 125	0	30
2,4'-DDE	ND		0.240	0.168		ug/L		70	45 - 125	0	30
2,4'-DDT	ND		0.240	0.199		ug/L		83	50 - 125	0	30
4,4'-DDD	ND		0.240	0.194		ug/L		81	50 - 125	0	30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-239292-H-4-A MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541997 — **Prep Batch: 541917**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDE	ND		0.240	0.180		ug/L		75	45 - 125	0	30
4,4'-DDT	ND		0.240	0.216		ug/L		90	50 - 125	0	30
Aldrin	ND		0.240	0.136		ug/L		57	35 - 120	2	30
alpha-BHC	0.014		0.240	0.189		ug/L		73	40 - 120	0	30
beta-BHC	0.12		0.240	0.279		ug/L		65	50 - 120	1	30
delta-BHC	ND		0.240	0.187	J	ug/L		78	50 - 120	0	30
Dieldrin	ND		0.240	0.182		ug/L		76	50 - 120	0	30
Endosulfan I	ND		0.240	0.177		ug/L		74	50 - 120	0	30
Endosulfan II	ND		0.240	0.182		ug/L		76	50 - 125	0	30
Endosulfan sulfate	ND		0.240	0.186	J	ug/L		77	55 - 125	1	30
Endrin	ND		0.240	0.189		ug/L		79	50 - 120	1	30
Endrin aldehyde	ND		0.240	0.176		ug/L		73	45 - 125	0	30
Endrin ketone	ND		0.240	0.190		ug/L		79	50 - 125	0	30
gamma-BHC (Lindane)	ND		0.240	0.183		ug/L		76	40 - 120	0	30
Heptachlor	ND		0.240	0.182		ug/L		76	40 - 120	0	30
Heptachlor epoxide	ND		0.240	0.179		ug/L		74	50 - 120	0	30
Methoxychlor	ND		0.240	0.243		ug/L		101	55 - 125	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*73*		*28 - 108*
Tetrachloro-m-xylene	*62*		*10 - 123*

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 440-542483/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542483

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/25/19 09:08	1

Lab Sample ID: LCS 440-542483/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	25.0	24.7		ug/L		99	85 - 115

Lab Sample ID: MRL 440-542483/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542483

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	1.00	ND		ug/L		93	75 - 125

Method: 314.0 - Perchlorate (IC) (Continued)

Lab Sample ID: 440-239292-D-4 MS
Matrix: Water
Analysis Batch: 542483

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	99000	F1	25000	113000	F1	ug/L		57	80 - 120

Lab Sample ID: 440-239292-D-4 MSD
Matrix: Water
Analysis Batch: 542483

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	99000	F1	25000	118000	F1	ug/L		76	80 - 120	4	15

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 440-542493/1-A
Matrix: Water
Analysis Batch: 542715

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 542493

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.10	ug/L		04/25/19 08:49	04/25/19 21:28	1
Barium	0.234		0.20	0.10	ug/L		04/25/19 08:49	04/25/19 21:28	1
Cadmium	ND		0.10	0.050	ug/L		04/25/19 08:49	04/25/19 21:28	1
Chromium	0.413	J	0.50	0.25	ug/L		04/25/19 08:49	04/25/19 21:28	1
Lead	ND		0.10	0.050	ug/L		04/25/19 08:49	04/25/19 21:28	1
Selenium	ND		0.60	0.30	ug/L		04/25/19 08:49	04/25/19 21:28	1
Silver	ND		0.20	0.10	ug/L		04/25/19 08:49	04/25/19 21:28	1
Uranium	ND		0.10	0.050	ug/L		04/25/19 08:49	04/25/19 21:28	1

Lab Sample ID: LCS 440-542493/2-A
Matrix: Water
Analysis Batch: 542715

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 542493

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	80.0	81.8		ug/L		102	80 - 120
Barium	80.0	81.9		ug/L		102	80 - 120
Cadmium	80.0	81.7		ug/L		102	80 - 120
Chromium	80.0	81.8		ug/L		102	80 - 120
Lead	80.0	80.1		ug/L		100	80 - 120
Selenium	80.0	82.0		ug/L		103	80 - 120
Silver	80.0	79.6		ug/L		100	80 - 120
Uranium	80.0	79.7		ug/L		100	80 - 120

Lab Sample ID: 440-238851-C-4-E MS
Matrix: Water
Analysis Batch: 542715

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 542493

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	5.2		80.0	81.6		ug/L		96	75 - 125
Barium	91	B	80.0	177		ug/L		108	75 - 125
Cadmium	0.11		80.0	73.5		ug/L		92	75 - 125
Chromium	23	B	80.0	96.7		ug/L		92	75 - 125
Lead	5.6		80.0	76.2		ug/L		88	75 - 125
Selenium	2.1		80.0	69.8		ug/L		85	75 - 125

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 440-238851-C-4-E MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 542715 — **Prep Batch: 542493**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		80.0	72.6		ug/L		91	75 - 125
Uranium	4.7		80.0	79.2		ug/L		93	75 - 125

Lab Sample ID: 440-238851-C-4-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 542715 — **Prep Batch: 542493**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	5.2		80.0	85.2		ug/L		100	75 - 125	4	20
Barium	91	B	80.0	185		ug/L		118	75 - 125	5	20
Cadmium	0.11		80.0	76.7		ug/L		96	75 - 125	4	20
Chromium	23	B	80.0	101		ug/L		97	75 - 125	4	20
Lead	5.6		80.0	79.8		ug/L		93	75 - 125	5	20
Selenium	2.1		80.0	75.1		ug/L		91	75 - 125	7	20
Silver	ND		80.0	76.1		ug/L		95	75 - 125	5	20
Uranium	4.7		80.0	83.6		ug/L		99	75 - 125	5	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 440-542338/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542743 — **Prep Batch: 542338**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/25/19 11:30	04/25/19 17:52	1

Lab Sample ID: LCS 440-542338/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542743 — **Prep Batch: 542338**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00400	0.00479		mg/L		120	80 - 120

Lab Sample ID: 440-238639-A-1-J MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542743 — **Prep Batch: 542338**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00400	0.00443		mg/L		111	75 - 125

Lab Sample ID: 440-238639-A-1-K MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542743 — **Prep Batch: 542338**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00400	0.00437		mg/L		109	75 - 125	1	20

QC Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239264-1
SDG: Henderon, NV

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 440-541950/1
Matrix: Water
Analysis Batch: 541950

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			04/23/19 08:44	1

Lab Sample ID: LCS 440-541950/2
Matrix: Water
Analysis Batch: 541950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	980		mg/L		98	90 - 110		

Lab Sample ID: 440-239019-B-11 DU
Matrix: Water
Analysis Batch: 541950

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	670			678		mg/L				0.9	5

QC Association Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239264-1
SDG: Henderon, NV

GC/MS VOA

Analysis Batch: 542648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239264-1	TB-20190416	Total/NA	Water	8260B	
440-239264-2	PL-511-20190416	Total/NA	Water	8260B	
440-239264-3	M-092-20190416	Total/NA	Water	8260B	
440-239264-4	M-136-20190416	Total/NA	Water	8260B	
440-239264-5	M-150-20190416	Total/NA	Water	8260B	
MB 440-542648/7	Method Blank	Total/NA	Water	8260B	
LCS 440-542648/5	Lab Control Sample	Total/NA	Water	8260B	
440-239073-A-6 MS	Matrix Spike	Total/NA	Water	8260B	
440-239073-B-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 541917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239264-3	M-092-20190416	Total/NA	Water	3510C	
440-239264-4	M-136-20190416	Total/NA	Water	3510C	
440-239264-5	M-150-20190416	Total/NA	Water	3510C	
MB 440-541917/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-541917/2-A	Lab Control Sample	Total/NA	Water	3510C	
440-239292-G-4-A MS	Matrix Spike	Total/NA	Water	3510C	
440-239292-H-4-A MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 541997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239264-3	M-092-20190416	Total/NA	Water	8081A	541917
440-239264-4	M-136-20190416	Total/NA	Water	8081A	541917
440-239264-5	M-150-20190416	Total/NA	Water	8081A	541917
MB 440-541917/1-A	Method Blank	Total/NA	Water	8081A	541917
LCS 440-541917/2-A	Lab Control Sample	Total/NA	Water	8081A	541917
440-239292-G-4-A MS	Matrix Spike	Total/NA	Water	8081A	541917
440-239292-H-4-A MSD	Matrix Spike Duplicate	Total/NA	Water	8081A	541917

HPLC/IC

Analysis Batch: 542483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239264-3	M-092-20190416	Total/NA	Water	314.0	
440-239264-4	M-136-20190416	Total/NA	Water	314.0	
440-239264-5	M-150-20190416	Total/NA	Water	314.0	
MB 440-542483/6	Method Blank	Total/NA	Water	314.0	
LCS 440-542483/5	Lab Control Sample	Total/NA	Water	314.0	
MRL 440-542483/4	Lab Control Sample	Total/NA	Water	314.0	
440-239292-D-4 MS	Matrix Spike	Total/NA	Water	314.0	
440-239292-D-4 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0	

Metals

Prep Batch: 542338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239264-3	M-092-20190416	Total/NA	Water	7470A	
440-239264-4	M-136-20190416	Total/NA	Water	7470A	
440-239264-5	M-150-20190416	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 542338 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-542338/1-A	Method Blank	Total/NA	Water	7470A	
LCS 440-542338/2-A	Lab Control Sample	Total/NA	Water	7470A	
440-238639-A-1-J MS	Matrix Spike	Total/NA	Water	7470A	
440-238639-A-1-K MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 542493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239264-3	M-092-20190416	Total Recoverable	Water	3005A	
440-239264-4	M-136-20190416	Total Recoverable	Water	3005A	
440-239264-5	M-150-20190416	Total Recoverable	Water	3005A	
MB 440-542493/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-542493/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-238851-C-4-E MS	Matrix Spike	Total Recoverable	Water	3005A	
440-238851-C-4-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 542715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239264-3	M-092-20190416	Total Recoverable	Water	6020	542493
440-239264-4	M-136-20190416	Total Recoverable	Water	6020	542493
440-239264-5	M-150-20190416	Total Recoverable	Water	6020	542493
MB 440-542493/1-A	Method Blank	Total Recoverable	Water	6020	542493
LCS 440-542493/2-A	Lab Control Sample	Total Recoverable	Water	6020	542493
440-238851-C-4-E MS	Matrix Spike	Total Recoverable	Water	6020	542493
440-238851-C-4-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020	542493

Analysis Batch: 542743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239264-3	M-092-20190416	Total/NA	Water	7470A	542338
440-239264-4	M-136-20190416	Total/NA	Water	7470A	542338
440-239264-5	M-150-20190416	Total/NA	Water	7470A	542338
MB 440-542338/1-A	Method Blank	Total/NA	Water	7470A	542338
LCS 440-542338/2-A	Lab Control Sample	Total/NA	Water	7470A	542338
440-238639-A-1-J MS	Matrix Spike	Total/NA	Water	7470A	542338
440-238639-A-1-K MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	542338

General Chemistry

Analysis Batch: 541950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239264-3	M-092-20190416	Total/NA	Water	SM 2540C	
440-239264-4	M-136-20190416	Total/NA	Water	SM 2540C	
440-239264-5	M-150-20190416	Total/NA	Water	SM 2540C	
MB 440-541950/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-541950/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-239019-B-11 DU	Duplicate	Total/NA	Water	SM 2540C	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239264-1
SDG: Henderon, NV

Laboratory: Eurofins TestAmerica, Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Nevada	State Program	9	CA015312018-1	07-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8081A	3510C	Water	2,4'-DDD
8081A	3510C	Water	2,4'-DDE
8081A	3510C	Water	2,4'-DDT
8081A	3510C	Water	4,4'-DDD
8081A	3510C	Water	4,4'-DDE
8081A	3510C	Water	4,4'-DDT
8081A	3510C	Water	Aldrin
8081A	3510C	Water	alpha-BHC
8081A	3510C	Water	beta-BHC
8081A	3510C	Water	Chlordane
8081A	3510C	Water	delta-BHC
8081A	3510C	Water	Dieldrin
8081A	3510C	Water	Endosulfan I
8081A	3510C	Water	Endosulfan II
8081A	3510C	Water	Endosulfan sulfate
8081A	3510C	Water	Endrin
8081A	3510C	Water	Endrin aldehyde
8081A	3510C	Water	Endrin ketone
8081A	3510C	Water	gamma-BHC (Lindane)
8081A	3510C	Water	Heptachlor
8081A	3510C	Water	Heptachlor epoxide
8081A	3510C	Water	Methoxychlor
8081A	3510C	Water	Toxaphene
8260B		Water	Dimethyl disulfide

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone 949.261.1022 fax 949.260.3299

TestAmerica
Las Vegas
219

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

5/4/2019

Client Contact	Project Manager: Nicole Bradley, Dean Charles	Site Contact: Kevin Paprocki	Date: 4/16/19	COC No:
de maximis, Inc.	Tel/Fax: 619-546-8377	Lab Contact: Danielle Roberts	Carrier:	____ of ____ COCs
1322 Scott St., Suite 101	Analysis Turnaround Time			Job No. 3200C
San Diego, CA 92106	Calendar (C) or Work Days (W)___ W___			SDG No.
(619) 546-8377 Phone	TAT if different from Below_____			
(619) 546-9980 Fax	☒ 2 weeks			
Project Name: 3200C Henderson Sitewide	☐ 1 week			
Site: Henderson, NV	☐ 2 days			
PO#	☐ 1 day			

Sample Identification	Container Type	Sample Date	Sample Time	Preservation Type	Matrix	# of Containers	8260B-HEND-Qtrly	8081A – Pesticides	RCRA 8 Metals + Uranium - 7470A & 6020	TDS – SM2540C	Perchlorate 314							VOC concentration > 500 ppb	MS/MSD REQUIRED	LEVEL 2A REQUIRED	Sample Specific Notes:
TB-20190416	VOA	4/16/19	0640	4°C	AQ	2	X													X	
PL-511-20190416	VOA	4/16/19	0835	4°C	AQ	3	X													X	
M-092-20190416	Various	4/16/19	0930	4°C	AQ	8	X	X	X	X	X									X	
M-136-20190416	Various	4/16/19	1155	4°C	AQ	8	X	X	X	X	X									X	
M-150-20190416	Various	4/16/19	1045	4°C	AQ	8	X	X	X	X	X									X	

440-23926.4 Chain of Custody

[1] I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature_____ Date_____

Preservation Used: 1= Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other_____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return to Client* ☐ Disposal by Lab Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Sample Int (circle one)
Intact: Y / N on ice: Y / N
temperature: 1.5/1.8 IR 44

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Heath S. Hoot	Converse	4/16/19 1455	[illegible]	TAWS	4/16/19 1455
Relinquished by: [illegible]	Company: TAWS	Date/Time: 4/16/19 1600 PA	Received by: [illegible]	Company: DHL	Date/Time: 4/17/19 10:30
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

(C) TRK-4766 5637 0.3/ TAWS

Login Sample Receipt Checklist

Client: de maximis, inc.

Job Number: 440-239264-1
SDG Number: Henderon, NV

Login Number: 239264
List Number: 1
Creator: Avila, Stephanie 1

List Source: Eurofins TestAmerica, Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

Laboratory Job ID: 440-239292-1
Laboratory Sample Delivery Group: Henderson, NV
Client Project/Site: 3200C Henderson Sitewide

For:
de maximis, inc.
1322 Scott Street, Suite 104
San Diego, California 92106

Attn: Nicole Bradley

Authorized for release by:
5/4/2019 1:33:54 PM

Danielle Roberts, Senior Project Manager
(949)260-3249
danielle.roberts@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 7
Surrogate Summary 18
Method Summary 19
Lab Chronicle 20
QC Sample Results 22
QC Association Summary 35
Definitions/Glossary 38
Certification Summary 39
Chain of Custody 40
Receipt Checklists 41

Sample Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239292-1
SDG: Henderson, NV

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-239292-1	TB-20190417	Water	04/17/19 06:50	04/18/19 10:00
440-239292-2	PL-512-20190417	Water	04/17/19 08:52	04/18/19 10:00
440-239292-3	EC-04-20190417	Water	04/17/19 08:52	04/18/19 10:00
440-239292-4	EC-10-20190417	Water	04/17/19 10:11	04/18/19 10:00
440-239292-5	EC-14-20190417	Water	04/17/19 13:02	04/18/19 10:00

Job ID: 440-239292-1

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative
440-239292-1

Comments
No additional comments.

Receipt
The samples were received on 4/18/2019 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 6020: The method blank for preparation batch 440-541976 and analytical batch 440-542190 contained Chromium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239292-1
SDG: Henderson, NV

Client Sample ID: TB-20190417 — Lab Sample ID: 440-239292-1

No Detections.

Client Sample ID: PL-512-20190417 — Lab Sample ID: 440-239292-2

No Detections.

Client Sample ID: EC-04-20190417 — Lab Sample ID: 440-239292-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	0.55	J	2.0	0.25	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	0.69	J	2.0	0.25	ug/L	1		8260B	Total/NA
Chlorobenzene	2.3		2.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	21		2.0	0.25	ug/L	1		8260B	Total/NA
4,4'-DDE	0.0043	J	0.096	0.0029	ug/L	1		8081A	Total/NA
beta-BHC	0.0041	J	0.0096	0.0038	ug/L	1		8081A	Total/NA
Perchlorate	230		40	9.5	ug/L	10		314.0	Total/NA
Arsenic	97		0.20	0.10	ug/L	1		6020	Total Recoverable
Barium	70		0.20	0.10	ug/L	1		6020	Total Recoverable
Cadmium	0.056	J	0.10	0.050	ug/L	1		6020	Total Recoverable
Chromium	7.1	B	0.50	0.25	ug/L	1		6020	Total Recoverable
Lead	29		0.10	0.050	ug/L	1		6020	Total Recoverable
Selenium	5.9		0.60	0.30	ug/L	1		6020	Total Recoverable
Uranium	7.3		0.10	0.050	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	3400		100	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EC-10-20190417 — Lab Sample ID: 440-239292-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3-Trichlorobenzene	3.8	J	5.0	0.40	ug/L	1		8260B	Total/NA
1,2,4-Trichlorobenzene	27		5.0	0.40	ug/L	1		8260B	Total/NA
Chloroform	2.1		2.0	0.25	ug/L	1		8260B	Total/NA
alpha-BHC	0.014		0.0049	0.0024	ug/L	1		8081A	Total/NA
beta-BHC	0.12		0.0097	0.0039	ug/L	1		8081A	Total/NA
Perchlorate	99000	F1	20000	4800	ug/L	5000		314.0	Total/NA
Arsenic	71		0.20	0.10	ug/L	1		6020	Total Recoverable
Barium	19		0.20	0.10	ug/L	1		6020	Total Recoverable
Chromium	11	B	0.50	0.25	ug/L	1		6020	Total Recoverable
Lead	0.18		0.10	0.050	ug/L	1		6020	Total Recoverable
Selenium	4.1		0.60	0.30	ug/L	1		6020	Total Recoverable
Uranium	3.1		0.10	0.050	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	2000		20	10	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239292-1
SDG: Henderson, NV

Client Sample ID: EC-14-20190417 — Lab Sample ID: 440-239292-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
beta-BHC	0.011		0.0098	0.0039	ug/L	1		8081A	Total/NA
Perchlorate	1.8	J	4.0	0.95	ug/L	1		314.0	Total/NA
Arsenic	28		0.20	0.10	ug/L	1		6020	Total Recoverable
Barium	31		0.20	0.10	ug/L	1		6020	Total Recoverable
Cadmium	0.11		0.10	0.050	ug/L	1		6020	Total Recoverable
Chromium	12	B	0.50	0.25	ug/L	1		6020	Total Recoverable
Lead	0.51		0.10	0.050	ug/L	1		6020	Total Recoverable
Selenium	2.3		0.60	0.30	ug/L	1		6020	Total Recoverable
Uranium	1.9		0.10	0.050	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	710		10	5.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239292-1
SDG: Henderson, NV

Client Sample ID: TB-20190417

Date Collected: 04/17/19 06:50
Date Received: 04/18/19 10:00

Lab Sample ID: 440-239292-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/28/19 11:53	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 11:53	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/28/19 11:53	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 11:53	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 11:53	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/28/19 11:53	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 11:53	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 11:53	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/28/19 11:53	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 11:53	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 11:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/28/19 11:53	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/28/19 11:53	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 11:53	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 11:53	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 11:53	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 11:53	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 11:53	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 11:53	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 11:53	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/28/19 11:53	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 11:53	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 11:53	1
Benzene	ND		2.0	0.25	ug/L			04/28/19 11:53	1
Bromobenzene	ND		5.0	0.25	ug/L			04/28/19 11:53	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/28/19 11:53	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/28/19 11:53	1
Bromoform	ND		5.0	0.40	ug/L			04/28/19 11:53	1
Bromomethane	ND		5.0	0.25	ug/L			04/28/19 11:53	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/28/19 11:53	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/28/19 11:53	1
Chloroethane	ND		5.0	0.40	ug/L			04/28/19 11:53	1
Chloroform	ND		2.0	0.25	ug/L			04/28/19 11:53	1
Chloromethane	ND		5.0	0.25	ug/L			04/28/19 11:53	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 11:53	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 11:53	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/28/19 11:53	1
Dibromomethane	ND		2.0	0.25	ug/L			04/28/19 11:53	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/28/19 11:53	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/28/19 11:53	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/28/19 11:53	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/28/19 11:53	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/28/19 11:53	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/28/19 11:53	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/28/19 11:53	1
Naphthalene	ND		5.0	0.40	ug/L			04/28/19 11:53	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/28/19 11:53	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/28/19 11:53	1
o-Xylene	ND		2.0	0.25	ug/L			04/28/19 11:53	1

Client Sample ID: TB-20190417

Lab Sample ID: 440-239292-1

Date Collected: 04/17/19 06:50
Matrix: Water
Date Received: 04/18/19 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/28/19 11:53	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 11:53	1
Styrene	ND		2.0	0.25	ug/L			04/28/19 11:53	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 11:53	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/28/19 11:53	1
Toluene	ND		2.0	0.25	ug/L			04/28/19 11:53	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 11:53	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 11:53	1
Trichloroethene	ND		2.0	0.25	ug/L			04/28/19 11:53	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/28/19 11:53	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/28/19 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*04/28/19 11:53*	*1*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*04/28/19 11:53*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*04/28/19 11:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*04/28/19 11:53*	*1*

Client Sample ID: PL-512-20190417

Lab Sample ID: 440-239292-2

Date Collected: 04/17/19 08:52
Matrix: Water
Date Received: 04/18/19 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/28/19 12:20	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 12:20	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/28/19 12:20	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 12:20	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 12:20	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/28/19 12:20	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 12:20	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 12:20	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/28/19 12:20	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 12:20	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 12:20	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/28/19 12:20	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/28/19 12:20	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 12:20	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 12:20	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 12:20	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 12:20	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 12:20	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 12:20	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 12:20	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/28/19 12:20	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 12:20	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 12:20	1
Benzene	ND		2.0	0.25	ug/L			04/28/19 12:20	1
Bromobenzene	ND		5.0	0.25	ug/L			04/28/19 12:20	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/28/19 12:20	1

Client Sample ID: PL-512-20190417

Lab Sample ID: 440-239292-2

Date Collected: 04/17/19 08:52
Matrix: Water
Date Received: 04/18/19 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		2.0	0.25	ug/L			04/28/19 12:20	1
Bromoform	ND		5.0	0.40	ug/L			04/28/19 12:20	1
Bromomethane	ND		5.0	0.25	ug/L			04/28/19 12:20	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/28/19 12:20	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/28/19 12:20	1
Chloroethane	ND		5.0	0.40	ug/L			04/28/19 12:20	1
Chloroform	ND		2.0	0.25	ug/L			04/28/19 12:20	1
Chloromethane	ND		5.0	0.25	ug/L			04/28/19 12:20	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 12:20	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 12:20	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/28/19 12:20	1
Dibromomethane	ND		2.0	0.25	ug/L			04/28/19 12:20	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/28/19 12:20	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/28/19 12:20	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/28/19 12:20	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/28/19 12:20	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/28/19 12:20	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/28/19 12:20	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/28/19 12:20	1
Naphthalene	ND		5.0	0.40	ug/L			04/28/19 12:20	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/28/19 12:20	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/28/19 12:20	1
o-Xylene	ND		2.0	0.25	ug/L			04/28/19 12:20	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/28/19 12:20	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 12:20	1
Styrene	ND		2.0	0.25	ug/L			04/28/19 12:20	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 12:20	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/28/19 12:20	1
Toluene	ND		2.0	0.25	ug/L			04/28/19 12:20	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 12:20	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 12:20	1
Trichloroethene	ND		2.0	0.25	ug/L			04/28/19 12:20	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/28/19 12:20	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/28/19 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*04/28/19 12:20*	*1*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*04/28/19 12:20*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*04/28/19 12:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*04/28/19 12:20*	*1*

Client Sample ID: EC-04-20190417

Lab Sample ID: 440-239292-3

Date Collected: 04/17/19 08:52
Matrix: Water
Date Received: 04/18/19 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/28/19 12:47	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 12:47	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/28/19 12:47	1

Client Sample ID: EC-04-20190417

Lab Sample ID: 440-239292-3

Date Collected: 04/17/19 08:52
Matrix: Water
Date Received: 04/18/19 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 12:47	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 12:47	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/28/19 12:47	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 12:47	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 12:47	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/28/19 12:47	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 12:47	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 12:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/28/19 12:47	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/28/19 12:47	1
1,2-Dichlorobenzene	**0.55**	**J**	2.0	0.25	ug/L			04/28/19 12:47	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 12:47	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 12:47	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 12:47	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 12:47	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 12:47	1
1,4-Dichlorobenzene	**0.69**	**J**	2.0	0.25	ug/L			04/28/19 12:47	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/28/19 12:47	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 12:47	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 12:47	1
Benzene	ND		2.0	0.25	ug/L			04/28/19 12:47	1
Bromobenzene	ND		5.0	0.25	ug/L			04/28/19 12:47	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/28/19 12:47	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/28/19 12:47	1
Bromoform	ND		5.0	0.40	ug/L			04/28/19 12:47	1
Bromomethane	ND		5.0	0.25	ug/L			04/28/19 12:47	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/28/19 12:47	1
Chlorobenzene	**2.3**		2.0	0.25	ug/L			04/28/19 12:47	1
Chloroethane	ND		5.0	0.40	ug/L			04/28/19 12:47	1
Chloroform	**21**		2.0	0.25	ug/L			04/28/19 12:47	1
Chloromethane	ND		5.0	0.25	ug/L			04/28/19 12:47	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 12:47	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 12:47	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/28/19 12:47	1
Dibromomethane	ND		2.0	0.25	ug/L			04/28/19 12:47	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/28/19 12:47	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/28/19 12:47	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/28/19 12:47	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/28/19 12:47	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/28/19 12:47	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/28/19 12:47	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/28/19 12:47	1
Naphthalene	ND		5.0	0.40	ug/L			04/28/19 12:47	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/28/19 12:47	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/28/19 12:47	1
o-Xylene	ND		2.0	0.25	ug/L			04/28/19 12:47	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/28/19 12:47	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 12:47	1
Styrene	ND		2.0	0.25	ug/L			04/28/19 12:47	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239292-1
SDG: Henderson, NV

Client Sample ID: EC-04-20190417

Date Collected: 04/17/19 08:52
Date Received: 04/18/19 10:00

Lab Sample ID: 440-239292-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 12:47	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/28/19 12:47	1
Toluene	ND		2.0	0.25	ug/L			04/28/19 12:47	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 12:47	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 12:47	1
Trichloroethene	ND		2.0	0.25	ug/L			04/28/19 12:47	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/28/19 12:47	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/28/19 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*04/28/19 12:47*	*1*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*04/28/19 12:47*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*04/28/19 12:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*04/28/19 12:47*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.096	0.019	ug/L		04/23/19 06:11	04/23/19 17:38	1
2,4'-DDE	ND		0.096	0.019	ug/L		04/23/19 06:11	04/23/19 17:38	1
2,4'-DDT	ND		0.096	0.019	ug/L		04/23/19 06:11	04/23/19 17:38	1
4,4'-DDD	ND		0.096	0.0038	ug/L		04/23/19 06:11	04/23/19 17:38	1
4,4'-DDE	**0.0043**	**J**	0.096	0.0029	ug/L		04/23/19 06:11	04/23/19 17:38	1
4,4'-DDT	ND		0.096	0.0038	ug/L		04/23/19 06:11	04/23/19 17:38	1
Aldrin	ND		0.0048	0.0014	ug/L		04/23/19 06:11	04/23/19 17:38	1
alpha-BHC	ND		0.0048	0.0024	ug/L		04/23/19 06:11	04/23/19 17:38	1
beta-BHC	**0.0041**	**J**	0.0096	0.0038	ug/L		04/23/19 06:11	04/23/19 17:38	1
Chlordane	ND		0.096	0.077	ug/L		04/23/19 06:11	04/23/19 17:38	1
delta-BHC	ND		0.19	0.0034	ug/L		04/23/19 06:11	04/23/19 17:38	1
Dieldrin	ND		0.0048	0.0019	ug/L		04/23/19 06:11	04/23/19 17:38	1
Endosulfan I	ND		0.096	0.0029	ug/L		04/23/19 06:11	04/23/19 17:38	1
Endosulfan II	ND		0.096	0.0019	ug/L		04/23/19 06:11	04/23/19 17:38	1
Endosulfan sulfate	ND		0.19	0.0029	ug/L		04/23/19 06:11	04/23/19 17:38	1
Endrin	ND		0.096	0.0019	ug/L		04/23/19 06:11	04/23/19 17:38	1
Endrin aldehyde	ND		0.096	0.0019	ug/L		04/23/19 06:11	04/23/19 17:38	1
Endrin ketone	ND		0.096	0.0067	ug/L		04/23/19 06:11	04/23/19 17:38	1
gamma-BHC (Lindane)	ND		0.096	0.0029	ug/L		04/23/19 06:11	04/23/19 17:38	1
Heptachlor	ND		0.0096	0.0029	ug/L		04/23/19 06:11	04/23/19 17:38	1
Heptachlor epoxide	ND		0.0048	0.0024	ug/L		04/23/19 06:11	04/23/19 17:38	1
Methoxychlor	ND		0.096	0.0034	ug/L		04/23/19 06:11	04/23/19 17:38	1
Toxaphene	ND		4.8	0.24	ug/L		04/23/19 06:11	04/23/19 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*28 - 108*	*04/23/19 06:11*	*04/23/19 17:38*	*1*
Tetrachloro-m-xylene	*60*		*10 - 123*	*04/23/19 06:11*	*04/23/19 17:38*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**230**		40	9.5	ug/L			04/29/19 16:01	10

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239292-1
SDG: Henderson, NV

Client Sample ID: EC-04-20190417

Lab Sample ID: 440-239292-3
Matrix: Water
Date Collected: 04/17/19 08:52
Date Received: 04/18/19 10:00

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**97**		0.20	0.10	ug/L		04/23/19 09:47	04/23/19 23:24	1
Barium	**70**		0.20	0.10	ug/L		04/23/19 09:47	04/23/19 23:24	1
Cadmium	**0.056**	**J**	0.10	0.050	ug/L		04/23/19 09:47	04/23/19 23:24	1
Chromium	**7.1**	**B**	0.50	0.25	ug/L		04/23/19 09:47	04/23/19 23:24	1
Lead	**29**		0.10	0.050	ug/L		04/23/19 09:47	04/23/19 23:24	1
Selenium	**5.9**		0.60	0.30	ug/L		04/23/19 09:47	04/23/19 23:24	1
Silver	ND		0.20	0.10	ug/L		04/23/19 09:47	04/23/19 23:24	1
Uranium	**7.3**		0.10	0.050	ug/L		04/23/19 09:47	04/23/19 23:24	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/24/19 12:46	04/25/19 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**3400**		100	50	mg/L			04/24/19 08:37	1

Client Sample ID: EC-10-20190417

Lab Sample ID: 440-239292-4
Matrix: Water
Date Collected: 04/17/19 10:11
Date Received: 04/18/19 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/28/19 10:07	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 10:07	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/28/19 10:07	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 10:07	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 10:07	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/28/19 10:07	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 10:07	1
1,2,3-Trichlorobenzene	**3.8**	**J**	5.0	0.40	ug/L			04/28/19 10:07	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/28/19 10:07	1
1,2,4-Trichlorobenzene	**27**		5.0	0.40	ug/L			04/28/19 10:07	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 10:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/28/19 10:07	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/28/19 10:07	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 10:07	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 10:07	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 10:07	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 10:07	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 10:07	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 10:07	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 10:07	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/28/19 10:07	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 10:07	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 10:07	1
Benzene	ND		2.0	0.25	ug/L			04/28/19 10:07	1
Bromobenzene	ND		5.0	0.25	ug/L			04/28/19 10:07	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/28/19 10:07	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/28/19 10:07	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239292-1
SDG: Henderson, NV

Client Sample ID: EC-10-20190417

Date Collected: 04/17/19 10:11
Date Received: 04/18/19 10:00

Lab Sample ID: 440-239292-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		5.0	0.40	ug/L			04/28/19 10:07	1
Bromomethane	ND		5.0	0.25	ug/L			04/28/19 10:07	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/28/19 10:07	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/28/19 10:07	1
Chloroethane	ND		5.0	0.40	ug/L			04/28/19 10:07	1
Chloroform	**2.1**		2.0	0.25	ug/L			04/28/19 10:07	1
Chloromethane	ND		5.0	0.25	ug/L			04/28/19 10:07	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 10:07	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 10:07	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/28/19 10:07	1
Dibromomethane	ND		2.0	0.25	ug/L			04/28/19 10:07	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/28/19 10:07	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/28/19 10:07	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/28/19 10:07	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/28/19 10:07	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/28/19 10:07	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/28/19 10:07	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/28/19 10:07	1
Naphthalene	ND		5.0	0.40	ug/L			04/28/19 10:07	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/28/19 10:07	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/28/19 10:07	1
o-Xylene	ND		2.0	0.25	ug/L			04/28/19 10:07	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/28/19 10:07	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 10:07	1
Styrene	ND		2.0	0.25	ug/L			04/28/19 10:07	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 10:07	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/28/19 10:07	1
Toluene	ND		2.0	0.25	ug/L			04/28/19 10:07	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 10:07	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 10:07	1
Trichloroethene	ND		2.0	0.25	ug/L			04/28/19 10:07	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/28/19 10:07	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/28/19 10:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*04/28/19 10:07*	*1*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*04/28/19 10:07*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*04/28/19 10:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*04/28/19 10:07*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.097	0.019	ug/L		04/23/19 06:11	04/23/19 17:11	1
2,4'-DDE	ND		0.097	0.019	ug/L		04/23/19 06:11	04/23/19 17:11	1
2,4'-DDT	ND		0.097	0.019	ug/L		04/23/19 06:11	04/23/19 17:11	1
4,4'-DDD	ND		0.097	0.0039	ug/L		04/23/19 06:11	04/23/19 17:11	1
4,4'-DDE	ND		0.097	0.0029	ug/L		04/23/19 06:11	04/23/19 17:11	1
4,4'-DDT	ND		0.097	0.0039	ug/L		04/23/19 06:11	04/23/19 17:11	1
Aldrin	ND		0.0049	0.0015	ug/L		04/23/19 06:11	04/23/19 17:11	1
alpha-BHC	**0.014**		0.0049	0.0024	ug/L		04/23/19 06:11	04/23/19 17:11	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239292-1
SDG: Henderson, NV

Client Sample ID: EC-10-20190417

Lab Sample ID: 440-239292-4
Date Collected: 04/17/19 10:11
Matrix: Water
Date Received: 04/18/19 10:00

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	**0.12**		0.0097	0.0039	ug/L		04/23/19 06:11	04/23/19 17:11	1
Chlordane	ND		0.097	0.078	ug/L		04/23/19 06:11	04/23/19 17:11	1
delta-BHC	ND		0.19	0.0034	ug/L		04/23/19 06:11	04/23/19 17:11	1
Dieldrin	ND		0.0049	0.0019	ug/L		04/23/19 06:11	04/23/19 17:11	1
Endosulfan I	ND		0.097	0.0029	ug/L		04/23/19 06:11	04/23/19 17:11	1
Endosulfan II	ND		0.097	0.0019	ug/L		04/23/19 06:11	04/23/19 17:11	1
Endosulfan sulfate	ND		0.19	0.0029	ug/L		04/23/19 06:11	04/23/19 17:11	1
Endrin	ND		0.097	0.0019	ug/L		04/23/19 06:11	04/23/19 17:11	1
Endrin aldehyde	ND		0.097	0.0019	ug/L		04/23/19 06:11	04/23/19 17:11	1
Endrin ketone	ND		0.097	0.0068	ug/L		04/23/19 06:11	04/23/19 17:11	1
gamma-BHC (Lindane)	ND		0.097	0.0029	ug/L		04/23/19 06:11	04/23/19 17:11	1
Heptachlor	ND		0.0097	0.0029	ug/L		04/23/19 06:11	04/23/19 17:11	1
Heptachlor epoxide	ND		0.0049	0.0024	ug/L		04/23/19 06:11	04/23/19 17:11	1
Methoxychlor	ND		0.097	0.0034	ug/L		04/23/19 06:11	04/23/19 17:11	1
Toxaphene	ND		4.9	0.24	ug/L		04/23/19 06:11	04/23/19 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*28 - 108*	*04/23/19 06:11*	*04/23/19 17:11*	*1*
Tetrachloro-m-xylene	*61*		*10 - 123*	*04/23/19 06:11*	*04/23/19 17:11*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**99000**	**F1**	20000	4800	ug/L			04/25/19 13:18	5000

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**71**		0.20	0.10	ug/L		04/23/19 09:47	04/23/19 23:08	1
Barium	**19**		0.20	0.10	ug/L		04/23/19 09:47	04/23/19 23:08	1
Cadmium	ND		0.10	0.050	ug/L		04/23/19 09:47	04/23/19 23:08	1
Chromium	**11**	**B**	0.50	0.25	ug/L		04/23/19 09:47	04/23/19 23:08	1
Lead	**0.18**		0.10	0.050	ug/L		04/23/19 09:47	04/23/19 23:08	1
Selenium	**4.1**		0.60	0.30	ug/L		04/23/19 09:47	04/23/19 23:08	1
Silver	ND		0.20	0.10	ug/L		04/23/19 09:47	04/23/19 23:08	1
Uranium	**3.1**		0.10	0.050	ug/L		04/23/19 09:47	04/23/19 23:08	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/24/19 13:45	04/25/19 19:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**2000**		20	10	mg/L			04/24/19 08:37	1

Client Sample ID: EC-14-20190417

Lab Sample ID: 440-239292-5
Date Collected: 04/17/19 13:02
Matrix: Water
Date Received: 04/18/19 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/28/19 13:13	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 13:13	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239292-1
SDG: Henderson, NV

Client Sample ID: EC-14-20190417

Date Collected: 04/17/19 13:02
Date Received: 04/18/19 10:00

Lab Sample ID: 440-239292-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/28/19 13:13	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 13:13	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 13:13	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/28/19 13:13	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 13:13	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 13:13	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/28/19 13:13	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 13:13	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 13:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/28/19 13:13	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/28/19 13:13	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 13:13	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 13:13	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 13:13	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 13:13	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 13:13	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 13:13	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 13:13	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/28/19 13:13	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 13:13	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 13:13	1
Benzene	ND		2.0	0.25	ug/L			04/28/19 13:13	1
Bromobenzene	ND		5.0	0.25	ug/L			04/28/19 13:13	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/28/19 13:13	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/28/19 13:13	1
Bromoform	ND		5.0	0.40	ug/L			04/28/19 13:13	1
Bromomethane	ND		5.0	0.25	ug/L			04/28/19 13:13	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/28/19 13:13	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/28/19 13:13	1
Chloroethane	ND		5.0	0.40	ug/L			04/28/19 13:13	1
Chloroform	ND		2.0	0.25	ug/L			04/28/19 13:13	1
Chloromethane	ND		5.0	0.25	ug/L			04/28/19 13:13	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 13:13	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 13:13	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/28/19 13:13	1
Dibromomethane	ND		2.0	0.25	ug/L			04/28/19 13:13	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/28/19 13:13	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/28/19 13:13	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/28/19 13:13	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/28/19 13:13	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/28/19 13:13	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/28/19 13:13	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/28/19 13:13	1
Naphthalene	ND		5.0	0.40	ug/L			04/28/19 13:13	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/28/19 13:13	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/28/19 13:13	1
o-Xylene	ND		2.0	0.25	ug/L			04/28/19 13:13	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/28/19 13:13	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 13:13	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239292-1
SDG: Henderson, NV

Client Sample ID: EC-14-20190417

Date Collected: 04/17/19 13:02
Date Received: 04/18/19 10:00

Lab Sample ID: 440-239292-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		2.0	0.25	ug/L			04/28/19 13:13	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 13:13	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/28/19 13:13	1
Toluene	ND		2.0	0.25	ug/L			04/28/19 13:13	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 13:13	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 13:13	1
Trichloroethene	ND		2.0	0.25	ug/L			04/28/19 13:13	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/28/19 13:13	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/28/19 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*80 - 120*		*04/28/19 13:13*	*1*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*04/28/19 13:13*	*1*
Toluene-d8 (Surr)	*106*		*80 - 128*		*04/28/19 13:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*04/28/19 13:13*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.098	0.020	ug/L		04/23/19 06:11	04/23/19 18:04	1
2,4'-DDE	ND		0.098	0.020	ug/L		04/23/19 06:11	04/23/19 18:04	1
2,4'-DDT	ND		0.098	0.020	ug/L		04/23/19 06:11	04/23/19 18:04	1
4,4'-DDD	ND		0.098	0.0039	ug/L		04/23/19 06:11	04/23/19 18:04	1
4,4'-DDE	ND		0.098	0.0029	ug/L		04/23/19 06:11	04/23/19 18:04	1
4,4'-DDT	ND		0.098	0.0039	ug/L		04/23/19 06:11	04/23/19 18:04	1
Aldrin	ND		0.0049	0.0015	ug/L		04/23/19 06:11	04/23/19 18:04	1
alpha-BHC	ND		0.0049	0.0025	ug/L		04/23/19 06:11	04/23/19 18:04	1
beta-BHC	**0.011**		0.0098	0.0039	ug/L		04/23/19 06:11	04/23/19 18:04	1
Chlordane	ND		0.098	0.078	ug/L		04/23/19 06:11	04/23/19 18:04	1
delta-BHC	ND		0.20	0.0034	ug/L		04/23/19 06:11	04/23/19 18:04	1
Dieldrin	ND		0.0049	0.0020	ug/L		04/23/19 06:11	04/23/19 18:04	1
Endosulfan I	ND		0.098	0.0029	ug/L		04/23/19 06:11	04/23/19 18:04	1
Endosulfan II	ND		0.098	0.0020	ug/L		04/23/19 06:11	04/23/19 18:04	1
Endosulfan sulfate	ND		0.20	0.0029	ug/L		04/23/19 06:11	04/23/19 18:04	1
Endrin	ND		0.098	0.0020	ug/L		04/23/19 06:11	04/23/19 18:04	1
Endrin aldehyde	ND		0.098	0.0020	ug/L		04/23/19 06:11	04/23/19 18:04	1
Endrin ketone	ND		0.098	0.0069	ug/L		04/23/19 06:11	04/23/19 18:04	1
gamma-BHC (Lindane)	ND		0.098	0.0029	ug/L		04/23/19 06:11	04/23/19 18:04	1
Heptachlor	ND		0.0098	0.0029	ug/L		04/23/19 06:11	04/23/19 18:04	1
Heptachlor epoxide	ND		0.0049	0.0025	ug/L		04/23/19 06:11	04/23/19 18:04	1
Methoxychlor	ND		0.098	0.0034	ug/L		04/23/19 06:11	04/23/19 18:04	1
Toxaphene	ND		4.9	0.25	ug/L		04/23/19 06:11	04/23/19 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*28 - 108*	*04/23/19 06:11*	*04/23/19 18:04*	*1*
Tetrachloro-m-xylene	*52*		*10 - 123*	*04/23/19 06:11*	*04/23/19 18:04*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**1.8**	**J**	4.0	0.95	ug/L			04/29/19 11:36	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239292-1
SDG: Henderson, NV

Client Sample ID: EC-14-20190417

Lab Sample ID: 440-239292-5

Date Collected: 04/17/19 13:02
Matrix: Water
Date Received: 04/18/19 10:00

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	28		0.20	0.10	ug/L		04/23/19 09:47	04/23/19 23:26	1
Barium	31		0.20	0.10	ug/L		04/23/19 09:47	04/23/19 23:26	1
Cadmium	0.11		0.10	0.050	ug/L		04/23/19 09:47	04/23/19 23:26	1
Chromium	12	B	0.50	0.25	ug/L		04/23/19 09:47	04/23/19 23:26	1
Lead	0.51		0.10	0.050	ug/L		04/23/19 09:47	04/23/19 23:26	1
Selenium	2.3		0.60	0.30	ug/L		04/23/19 09:47	04/23/19 23:26	1
Silver	ND		0.20	0.10	ug/L		04/23/19 09:47	04/23/19 23:26	1
Uranium	1.9		0.10	0.050	ug/L		04/23/19 09:47	04/23/19 23:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/24/19 12:46	04/25/19 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	710		10	5.0	mg/L			04/24/19 08:37	1

Surrogate Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239292-1
SDG: Henderson, NV

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	TOL	DCA
Lab Sample ID	Client Sample ID	(80-120)	(76-132)	(80-128)	(70-130)
440-239292-1	TB-20190417	91	105	103	90
440-239292-2	PL-512-20190417	92	106	104	91
440-239292-3	EC-04-20190417	90	107	103	91
440-239292-4	EC-10-20190417	91	110	102	93
440-239292-4 MS	EC-10-20190417	91	105	102	90
440-239292-4 MSD	EC-10-20190417	90	106	102	90
440-239292-5	EC-14-20190417	88	109	106	93
LCS 440-543039/5	Lab Control Sample	91	104	100	89
MB 440-543039/6	Method Blank	90	108	105	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB2	TCX2
Lab Sample ID	Client Sample ID	(28-108)	(10-123)
440-239292-3	EC-04-20190417	71	60
440-239292-4	EC-10-20190417	75	61
440-239292-4 MS	EC-10-20190417	72	61
440-239292-4 MSD	EC-10-20190417	73	62
440-239292-5	EC-14-20190417	67	52
LCS 440-541917/2-A	Lab Control Sample	71	62
MB 440-541917/1-A	Method Blank	73	56

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239292-1
SDG: Henderson, NV

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
314.0	Perchlorate (IC)	EPA	TAL IRV
6020	Metals (ICP/MS)	SW846	TAL IRV
7470A	Mercury (CVAA)	SW846	TAL IRV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL IRV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239292-1
SDG: Henderson, NV

Client Sample ID: TB-20190417 — Lab Sample ID: 440-239292-1

Date Collected: 04/17/19 06:50 — **Matrix: Water**
Date Received: 04/18/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	543039	04/28/19 11:53	TCN	TAL IRV

Client Sample ID: PL-512-20190417 — Lab Sample ID: 440-239292-2

Date Collected: 04/17/19 08:52 — **Matrix: Water**
Date Received: 04/18/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	543039	04/28/19 12:20	TCN	TAL IRV

Client Sample ID: EC-04-20190417 — Lab Sample ID: 440-239292-3

Date Collected: 04/17/19 08:52 — **Matrix: Water**
Date Received: 04/18/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	543039	04/28/19 12:47	TCN	TAL IRV
Total/NA	Prep	3510C			1040 mL	2 mL	541917	04/23/19 06:11	L1H	TAL IRV
Total/NA	Analysis	8081A		1			541997	04/23/19 17:38	D1D	TAL IRV
Total/NA	Analysis	314.0		10			543130	04/29/19 16:01	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	541976	04/23/19 09:47	BV	TAL IRV
Total Recoverable	Analysis	6020		1			542190	04/23/19 23:24	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542288	04/24/19 12:46	DB	TAL IRV
Total/NA	Analysis	7470A		1			542576	04/25/19 09:21	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	542210	04/24/19 08:37	XL	TAL IRV

Client Sample ID: EC-10-20190417 — Lab Sample ID: 440-239292-4

Date Collected: 04/17/19 10:11 — **Matrix: Water**
Date Received: 04/18/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	543039	04/28/19 10:07	TCN	TAL IRV
Total/NA	Prep	3510C			1030 mL	2 mL	541917	04/23/19 06:11	L1H	TAL IRV
Total/NA	Analysis	8081A		1			541997	04/23/19 17:11	D1D	TAL IRV
Total/NA	Analysis	314.0		5000			542483	04/25/19 13:18	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	541976	04/23/19 09:47	BV	TAL IRV
Total Recoverable	Analysis	6020		1			542190	04/23/19 23:08	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542302	04/24/19 13:45	DB	TAL IRV
Total/NA	Analysis	7470A		1			542743	04/25/19 19:41	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	542210	04/24/19 08:37	XL	TAL IRV

Client Sample ID: EC-14-20190417 — Lab Sample ID: 440-239292-5

Date Collected: 04/17/19 13:02 — **Matrix: Water**
Date Received: 04/18/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	543039	04/28/19 13:13	TCN	TAL IRV

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239292-1
SDG: Henderson, NV

Client Sample ID: EC-14-20190417

Date Collected: 04/17/19 13:02
Date Received: 04/18/19 10:00

Lab Sample ID: 440-239292-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1020 mL	2 mL	541917	04/23/19 06:11	L1H	TAL IRV
Total/NA	Analysis	8081A		1			541997	04/23/19 18:04	D1D	TAL IRV
Total/NA	Analysis	314.0		1			543130	04/29/19 11:36	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	541976	04/23/19 09:47	BV	TAL IRV
Total Recoverable	Analysis	6020		1			542190	04/23/19 23:26	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542288	04/24/19 12:46	DB	TAL IRV
Total/NA	Analysis	7470A		1			542576	04/25/19 09:37	EMS	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	542210	04/24/19 08:37	XL	TAL IRV

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-543039/6
Matrix: Water
Analysis Batch: 543039

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/28/19 09:14	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/28/19 09:14	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 09:14	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/28/19 09:14	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 09:14	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/28/19 09:14	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/28/19 09:14	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 09:14	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 09:14	1
Benzene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
Bromobenzene	ND		5.0	0.25	ug/L			04/28/19 09:14	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/28/19 09:14	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/28/19 09:14	1
Bromoform	ND		5.0	0.40	ug/L			04/28/19 09:14	1
Bromomethane	ND		5.0	0.25	ug/L			04/28/19 09:14	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/28/19 09:14	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
Chloroethane	ND		5.0	0.40	ug/L			04/28/19 09:14	1
Chloroform	ND		2.0	0.25	ug/L			04/28/19 09:14	1
Chloromethane	ND		5.0	0.25	ug/L			04/28/19 09:14	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/28/19 09:14	1
Dibromomethane	ND		2.0	0.25	ug/L			04/28/19 09:14	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/28/19 09:14	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/28/19 09:14	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/28/19 09:14	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/28/19 09:14	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/28/19 09:14	1
Naphthalene	ND		5.0	0.40	ug/L			04/28/19 09:14	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/28/19 09:14	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/28/19 09:14	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-543039/6
Matrix: Water
Analysis Batch: 543039

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 09:14	1
Styrene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 09:14	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
Toluene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
Trichloroethene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/28/19 09:14	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/28/19 09:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*04/28/19 09:14*	*1*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*04/28/19 09:14*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*04/28/19 09:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*04/28/19 09:14*	*1*

Lab Sample ID: LCS 440-543039/5
Matrix: Water
Analysis Batch: 543039

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	11.0		ug/L		110	60 - 141
1,1,1-Trichloroethane	10.0	9.69		ug/L		97	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.15		ug/L		91	63 - 130
1,1,2-Trichloroethane	10.0	9.11		ug/L		91	70 - 130
1,1-Dichloroethane	10.0	9.34		ug/L		93	64 - 130
1,1-Dichloroethene	10.0	9.57		ug/L		96	70 - 130
1,1-Dichloropropene	10.0	9.05		ug/L		90	70 - 130
1,2,3-Trichlorobenzene	10.0	11.6		ug/L		116	60 - 140
1,2,3-Trichloropropane	10.0	9.04	J	ug/L		90	63 - 130
1,2,4-Trichlorobenzene	10.0	11.6		ug/L		116	60 - 140
1,2,4-Trimethylbenzene	10.0	10.3		ug/L		103	70 - 135
1,2-Dibromo-3-Chloropropane	10.0	9.43		ug/L		94	52 - 140
1,2-Dibromoethane (EDB)	10.0	8.72		ug/L		87	70 - 130
1,2-Dichlorobenzene	10.0	10.5		ug/L		105	70 - 130
1,2-Dichloroethane	10.0	8.08		ug/L		81	57 - 138
1,2-Dichloropropane	10.0	8.17		ug/L		82	67 - 130
1,3,5-Trimethylbenzene	10.0	10.4		ug/L		104	70 - 136
1,3-Dichlorobenzene	10.0	10.2		ug/L		102	70 - 130
1,3-Dichloropropane	10.0	8.26		ug/L		83	70 - 130
1,4-Dichlorobenzene	10.0	10.0		ug/L		100	70 - 130
2,2-Dichloropropane	10.0	11.0		ug/L		110	68 - 141
2-Chlorotoluene	10.0	9.87		ug/L		99	70 - 130
4-Chlorotoluene	10.0	9.68		ug/L		97	70 - 130
Benzene	10.0	9.14		ug/L		91	68 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-543039/5
Matrix: Water
Analysis Batch: 543039

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	10.0	9.88		ug/L		99	70 - 130
Bromochloromethane	10.0	10.4		ug/L		104	70 - 130
Bromodichloromethane	10.0	9.27		ug/L		93	70 - 132
Bromoform	10.0	9.37		ug/L		94	60 - 148
Bromomethane	10.0	8.11		ug/L		81	64 - 139
Carbon tetrachloride	10.0	9.58		ug/L		96	60 - 150
Chlorobenzene	10.0	9.59		ug/L		96	70 - 130
Chloroethane	10.0	7.78		ug/L		78	64 - 135
Chloroform	10.0	9.58		ug/L		96	70 - 130
Chloromethane	10.0	5.81		ug/L		58	47 - 140
cis-1,2-Dichloroethene	10.0	9.81		ug/L		98	70 - 133
cis-1,3-Dichloropropene	10.0	9.55		ug/L		96	70 - 133
Dibromochloromethane	10.0	9.67		ug/L		97	69 - 145
Dibromomethane	10.0	8.63		ug/L		86	70 - 130
Dichlorodifluoromethane	10.0	5.67		ug/L		57	29 - 150
Ethylbenzene	10.0	9.53		ug/L		95	70 - 130
Hexachlorobutadiene	10.0	11.0		ug/L		110	10 - 150
Isopropylbenzene	10.0	10.1		ug/L		101	70 - 136
m,p-Xylene	10.0	9.89		ug/L		99	70 - 130
Methylene Chloride	10.0	9.47		ug/L		95	52 - 130
Naphthalene	10.0	10.4		ug/L		104	60 - 140
n-Butylbenzene	10.0	10.3		ug/L		103	65 - 150
N-Propylbenzene	10.0	9.68		ug/L		97	67 - 139
o-Xylene	10.0	10.3		ug/L		103	70 - 130
p-Isopropyltoluene	10.0	10.5		ug/L		105	70 - 132
sec-Butylbenzene	10.0	10.1		ug/L		101	70 - 138
Styrene	10.0	9.79		ug/L		98	70 - 134
tert-Butylbenzene	10.0	9.71		ug/L		97	70 - 130
Tetrachloroethene	10.0	10.2		ug/L		102	70 - 130
Toluene	10.0	9.38		ug/L		94	70 - 130
trans-1,2-Dichloroethene	10.0	10.0		ug/L		100	70 - 130
trans-1,3-Dichloropropene	10.0	8.44		ug/L		84	70 - 132
Trichloroethene	10.0	9.29		ug/L		93	70 - 130
Trichlorofluoromethane	10.0	8.25		ug/L		82	60 - 150
Vinyl chloride	10.0	6.69		ug/L		67	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*

Lab Sample ID: 440-239292-4 MS
Matrix: Water
Analysis Batch: 543039

Client Sample ID: EC-10-20190417
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		10.0	10.9		ug/L		109	60 - 149

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-239292-4 MS
Matrix: Water
Analysis Batch: 543039

Client Sample ID: EC-10-20190417
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		10.0	9.35		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	ND		10.0	8.92		ug/L		89	63 - 130
1,1,2-Trichloroethane	ND		10.0	8.43		ug/L		84	70 - 130
1,1-Dichloroethane	ND		10.0	9.08		ug/L		91	65 - 130
1,1-Dichloroethene	ND		10.0	9.16		ug/L		92	70 - 130
1,1-Dichloropropene	ND		10.0	8.44		ug/L		84	64 - 130
1,2,3-Trichlorobenzene	3.8	J	10.0	14.1		ug/L		103	60 - 140
1,2,3-Trichloropropane	ND		10.0	8.40	J	ug/L		84	60 - 130
1,2,4-Trichlorobenzene	27		10.0	34.4		ug/L		77	60 - 140
1,2,4-Trimethylbenzene	ND		10.0	9.77		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	ND		10.0	8.33		ug/L		83	48 - 140
1,2-Dibromoethane (EDB)	ND		10.0	8.60		ug/L		86	70 - 131
1,2-Dichlorobenzene	ND		10.0	10.3		ug/L		103	70 - 130
1,2-Dichloroethane	ND		10.0	7.66		ug/L		77	56 - 146
1,2-Dichloropropane	ND		10.0	8.07		ug/L		81	69 - 130
1,3,5-Trimethylbenzene	ND		10.0	9.83		ug/L		98	70 - 130
1,3-Dichlorobenzene	ND		10.0	9.76		ug/L		98	70 - 130
1,3-Dichloropropane	ND		10.0	8.15		ug/L		82	70 - 130
1,4-Dichlorobenzene	ND		10.0	9.61		ug/L		96	70 - 130
2,2-Dichloropropane	ND		10.0	10.8		ug/L		108	69 - 138
2-Chlorotoluene	ND		10.0	9.49		ug/L		95	70 - 130
4-Chlorotoluene	ND		10.0	9.13		ug/L		91	70 - 130
Benzene	ND		10.0	8.61		ug/L		86	66 - 130
Bromobenzene	ND		10.0	9.54		ug/L		95	70 - 130
Bromochloromethane	ND		10.0	9.83		ug/L		98	70 - 130
Bromodichloromethane	ND		10.0	8.55		ug/L		86	70 - 138
Bromoform	ND		10.0	8.76		ug/L		88	59 - 150
Bromomethane	ND		10.0	7.78		ug/L		78	62 - 131
Carbon tetrachloride	ND		10.0	9.07		ug/L		91	60 - 150
Chlorobenzene	ND		10.0	9.40		ug/L		94	70 - 130
Chloroethane	ND		10.0	7.51		ug/L		75	68 - 130
Chloroform	2.1		10.0	11.1		ug/L		90	70 - 130
Chloromethane	ND		10.0	5.54		ug/L		55	39 - 144
cis-1,2-Dichloroethene	ND		10.0	9.42		ug/L		94	70 - 130
cis-1,3-Dichloropropene	ND		10.0	9.15		ug/L		91	70 - 133
Dibromochloromethane	ND		10.0	9.10		ug/L		91	70 - 148
Dibromomethane	ND		10.0	8.45		ug/L		85	70 - 130
Dichlorodifluoromethane	ND		10.0	5.41		ug/L		54	25 - 142
Ethylbenzene	ND		10.0	9.15		ug/L		92	70 - 130
Hexachlorobutadiene	ND		10.0	10.3		ug/L		103	10 - 150
Isopropylbenzene	ND		10.0	9.91		ug/L		99	70 - 132
m,p-Xylene	ND		10.0	9.57		ug/L		96	70 - 133
Methylene Chloride	ND		10.0	9.29		ug/L		93	52 - 130
Naphthalene	ND		10.0	9.86		ug/L		99	60 - 140
n-Butylbenzene	ND		10.0	9.63		ug/L		96	61 - 149
N-Propylbenzene	ND		10.0	9.24		ug/L		92	66 - 135
o-Xylene	ND		10.0	10.2		ug/L		102	70 - 133
p-Isopropyltoluene	ND		10.0	9.90		ug/L		99	70 - 130
sec-Butylbenzene	ND		10.0	9.50		ug/L		95	67 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-239292-4 MS
Matrix: Water
Analysis Batch: 543039

Client Sample ID: EC-10-20190417
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	ND		10.0	9.22		ug/L		92	29 - 150
tert-Butylbenzene	ND		10.0	9.30		ug/L		93	70 - 130
Tetrachloroethene	ND		10.0	10.1		ug/L		101	70 - 137
Toluene	ND		10.0	9.12		ug/L		91	70 - 130
trans-1,2-Dichloroethene	ND		10.0	9.48		ug/L		95	70 - 130
trans-1,3-Dichloropropene	ND		10.0	8.03		ug/L		80	70 - 138
Trichloroethene	ND		10.0	8.96		ug/L		90	70 - 130
Trichlorofluoromethane	ND		10.0	7.94		ug/L		79	60 - 150
Vinyl chloride	ND		10.0	6.61		ug/L		66	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
Toluene-d8 (Surr)	*102*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*

Lab Sample ID: 440-239292-4 MSD
Matrix: Water
Analysis Batch: 543039

Client Sample ID: EC-10-20190417
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		10.0	11.4		ug/L		114	60 - 149	5	20
1,1,1-Trichloroethane	ND		10.0	9.82		ug/L		98	70 - 130	5	20
1,1,2,2-Tetrachloroethane	ND		10.0	9.04		ug/L		90	63 - 130	1	30
1,1,2-Trichloroethane	ND		10.0	8.90		ug/L		89	70 - 130	5	25
1,1-Dichloroethane	ND		10.0	9.82		ug/L		98	65 - 130	8	20
1,1-Dichloroethene	ND		10.0	9.64		ug/L		96	70 - 130	5	20
1,1-Dichloropropene	ND		10.0	8.99		ug/L		90	64 - 130	6	20
1,2,3-Trichlorobenzene	3.8	J	10.0	15.2		ug/L		114	60 - 140	7	20
1,2,3-Trichloropropane	ND		10.0	8.89	J	ug/L		89	60 - 130	6	30
1,2,4-Trichlorobenzene	27		10.0	35.6		ug/L		88	60 - 140	3	20
1,2,4-Trimethylbenzene	ND		10.0	10.3		ug/L		103	70 - 130	5	25
1,2-Dibromo-3-Chloropropane	ND		10.0	8.86		ug/L		89	48 - 140	6	30
1,2-Dibromoethane (EDB)	ND		10.0	8.91		ug/L		89	70 - 131	4	25
1,2-Dichlorobenzene	ND		10.0	10.8		ug/L		108	70 - 130	5	20
1,2-Dichloroethane	ND		10.0	8.22		ug/L		82	56 - 146	7	20
1,2-Dichloropropane	ND		10.0	8.49		ug/L		85	69 - 130	5	20
1,3,5-Trimethylbenzene	ND		10.0	10.3		ug/L		103	70 - 130	5	20
1,3-Dichlorobenzene	ND		10.0	10.4		ug/L		104	70 - 130	6	20
1,3-Dichloropropane	ND		10.0	8.57		ug/L		86	70 - 130	5	25
1,4-Dichlorobenzene	ND		10.0	10.2		ug/L		102	70 - 130	6	20
2,2-Dichloropropane	ND		10.0	11.8		ug/L		118	69 - 138	9	25
2-Chlorotoluene	ND		10.0	10.0		ug/L		100	70 - 130	5	20
4-Chlorotoluene	ND		10.0	9.59		ug/L		96	70 - 130	5	20
Benzene	ND		10.0	9.39		ug/L		94	66 - 130	9	20
Bromobenzene	ND		10.0	9.95		ug/L		100	70 - 130	4	20
Bromochloromethane	ND		10.0	10.5		ug/L		105	70 - 130	6	25
Bromodichloromethane	ND		10.0	9.24		ug/L		92	70 - 138	8	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-239292-4 MSD
Matrix: Water
Analysis Batch: 543039

Client Sample ID: EC-10-20190417
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		10.0	9.30		ug/L		93	59 - 150	6	25
Bromomethane	ND		10.0	8.22		ug/L		82	62 - 131	6	25
Carbon tetrachloride	ND		10.0	9.86		ug/L		99	60 - 150	8	25
Chlorobenzene	ND		10.0	9.77		ug/L		98	70 - 130	4	20
Chloroethane	ND		10.0	7.90		ug/L		79	68 - 130	5	25
Chloroform	2.1		10.0	12.1		ug/L		99	70 - 130	8	20
Chloromethane	ND		10.0	5.80		ug/L		58	39 - 144	4	25
cis-1,2-Dichloroethene	ND		10.0	10.3		ug/L		103	70 - 130	9	20
cis-1,3-Dichloropropene	ND		10.0	9.53		ug/L		95	70 - 133	4	20
Dibromochloromethane	ND		10.0	9.86		ug/L		99	70 - 148	8	25
Dibromomethane	ND		10.0	8.56		ug/L		86	70 - 130	1	25
Dichlorodifluoromethane	ND		10.0	5.68		ug/L		57	25 - 142	5	30
Ethylbenzene	ND		10.0	9.66		ug/L		97	70 - 130	5	20
Hexachlorobutadiene	ND		10.0	10.9		ug/L		109	10 - 150	5	20
Isopropylbenzene	ND		10.0	10.5		ug/L		105	70 - 132	6	20
m,p-Xylene	ND		10.0	10.0		ug/L		100	70 - 133	5	25
Methylene Chloride	ND		10.0	10.1		ug/L		101	52 - 130	8	20
Naphthalene	ND		10.0	10.6		ug/L		106	60 - 140	8	30
n-Butylbenzene	ND		10.0	10.3		ug/L		103	61 - 149	7	20
N-Propylbenzene	ND		10.0	9.70		ug/L		97	66 - 135	5	20
o-Xylene	ND		10.0	10.8		ug/L		108	70 - 133	6	20
p-Isopropyltoluene	ND		10.0	10.7		ug/L		107	70 - 130	8	20
sec-Butylbenzene	ND		10.0	10.1		ug/L		101	67 - 134	6	20
Styrene	ND		10.0	9.61		ug/L		96	29 - 150	4	35
tert-Butylbenzene	ND		10.0	9.78		ug/L		98	70 - 130	5	20
Tetrachloroethene	ND		10.0	10.4		ug/L		104	70 - 137	3	20
Toluene	ND		10.0	9.40		ug/L		94	70 - 130	3	20
trans-1,2-Dichloroethene	ND		10.0	10.3		ug/L		103	70 - 130	9	20
trans-1,3-Dichloropropene	ND		10.0	8.53		ug/L		85	70 - 138	6	25
Trichloroethene	ND		10.0	9.63		ug/L		96	70 - 130	7	20
Trichlorofluoromethane	ND		10.0	8.43		ug/L		84	60 - 150	6	25
Vinyl chloride	ND		10.0	6.94		ug/L		69	50 - 137	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*76 - 132*
Toluene-d8 (Surr)	*102*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-541917/1-A
Matrix: Water
Analysis Batch: 541997

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 541917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/23/19 06:11	04/23/19 15:24	1
2,4'-DDE	ND		0.10	0.020	ug/L		04/23/19 06:11	04/23/19 15:24	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/23/19 06:11	04/23/19 15:24	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 440-541917/1-A
Matrix: Water
Analysis Batch: 541997

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 541917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.10	0.0040	ug/L		04/23/19 06:11	04/23/19 15:24	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/23/19 06:11	04/23/19 15:24	1
4,4'-DDT	ND		0.10	0.0040	ug/L		04/23/19 06:11	04/23/19 15:24	1
Aldrin	ND		0.0050	0.0015	ug/L		04/23/19 06:11	04/23/19 15:24	1
alpha-BHC	ND		0.0050	0.0025	ug/L		04/23/19 06:11	04/23/19 15:24	1
beta-BHC	ND		0.010	0.0040	ug/L		04/23/19 06:11	04/23/19 15:24	1
Chlordane	ND		0.10	0.080	ug/L		04/23/19 06:11	04/23/19 15:24	1
delta-BHC	ND		0.20	0.0035	ug/L		04/23/19 06:11	04/23/19 15:24	1
Dieldrin	ND		0.0050	0.0020	ug/L		04/23/19 06:11	04/23/19 15:24	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/23/19 06:11	04/23/19 15:24	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/23/19 06:11	04/23/19 15:24	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/23/19 06:11	04/23/19 15:24	1
Endrin	ND		0.10	0.0020	ug/L		04/23/19 06:11	04/23/19 15:24	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/23/19 06:11	04/23/19 15:24	1
Endrin ketone	ND		0.10	0.0070	ug/L		04/23/19 06:11	04/23/19 15:24	1
gamma-BHC (Lindane)	ND		0.10	0.0030	ug/L		04/23/19 06:11	04/23/19 15:24	1
Heptachlor	ND		0.010	0.0030	ug/L		04/23/19 06:11	04/23/19 15:24	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/23/19 06:11	04/23/19 15:24	1
Methoxychlor	ND		0.10	0.0035	ug/L		04/23/19 06:11	04/23/19 15:24	1
Toxaphene	ND		5.0	0.25	ug/L		04/23/19 06:11	04/23/19 15:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*28 - 108*	*04/23/19 06:11*	*04/23/19 15:24*	*1*
Tetrachloro-m-xylene	*56*		*10 - 123*	*04/23/19 06:11*	*04/23/19 15:24*	*1*

Lab Sample ID: LCS 440-541917/2-A
Matrix: Water
Analysis Batch: 541997

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 541917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4'-DDD	0.250	0.180		ug/L		72	10 - 150
2,4'-DDE	0.250	0.168		ug/L		67	10 - 150
2,4'-DDT	0.250	0.198		ug/L		79	10 - 150
4,4'-DDD	0.250	0.192		ug/L		77	50 - 128
4,4'-DDE	0.250	0.178		ug/L		71	49 - 121
4,4'-DDT	0.250	0.216		ug/L		86	41 - 140
Aldrin	0.250	0.161		ug/L		64	37 - 115
alpha-BHC	0.250	0.181		ug/L		72	44 - 115
beta-BHC	0.250	0.177		ug/L		71	46 - 121
delta-BHC	0.250	0.187	J	ug/L		75	32 - 129
Dieldrin	0.250	0.182		ug/L		73	39 - 126
Endosulfan I	0.250	0.179		ug/L		71	47 - 115
Endosulfan II	0.250	0.182		ug/L		73	47 - 120
Endosulfan sulfate	0.250	0.184	J	ug/L		73	48 - 126
Endrin	0.250	0.187		ug/L		75	43 - 127
Endrin aldehyde	0.250	0.174		ug/L		70	43 - 120
Endrin ketone	0.250	0.193		ug/L		77	47 - 123
gamma-BHC (Lindane)	0.250	0.186		ug/L		74	45 - 116

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-541917/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541997 — **Prep Batch: 541917**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor	0.250	0.184		ug/L		74	37 - 115
Heptachlor epoxide	0.250	0.180		ug/L		72	41 - 129
Methoxychlor	0.250	0.246		ug/L		98	44 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*71*		*28 - 108*
Tetrachloro-m-xylene	*62*		*10 - 123*

Lab Sample ID: 440-239292-4 MS — **Client Sample ID: EC-10-20190417**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541997 — **Prep Batch: 541917**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4'-DDD	ND		0.242	0.181		ug/L		75	50 - 125
2,4'-DDE	ND		0.242	0.168		ug/L		69	45 - 125
2,4'-DDT	ND		0.242	0.199		ug/L		82	50 - 125
4,4'-DDD	ND		0.242	0.193		ug/L		80	50 - 125
4,4'-DDE	ND		0.242	0.179		ug/L		74	45 - 125
4,4'-DDT	ND		0.242	0.216		ug/L		89	50 - 125
Aldrin	ND		0.242	0.139		ug/L		57	35 - 120
alpha-BHC	0.014		0.242	0.189		ug/L		72	40 - 120
beta-BHC	0.12		0.242	0.277		ug/L		64	50 - 120
delta-BHC	ND		0.242	0.187	J	ug/L		77	50 - 120
Dieldrin	ND		0.242	0.181		ug/L		75	50 - 120
Endosulfan I	ND		0.242	0.177		ug/L		73	50 - 120
Endosulfan II	ND		0.242	0.182		ug/L		75	50 - 125
Endosulfan sulfate	ND		0.242	0.184	J	ug/L		76	55 - 125
Endrin	ND		0.242	0.188		ug/L		78	50 - 120
Endrin aldehyde	ND		0.242	0.176		ug/L		73	45 - 125
Endrin ketone	ND		0.242	0.191		ug/L		79	50 - 125
gamma-BHC (Lindane)	ND		0.242	0.182		ug/L		76	40 - 120
Heptachlor	ND		0.242	0.182		ug/L		75	40 - 120
Heptachlor epoxide	ND		0.242	0.179		ug/L		74	50 - 120
Methoxychlor	ND		0.242	0.244		ug/L		101	55 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*72*		*28 - 108*
Tetrachloro-m-xylene	*61*		*10 - 123*

Lab Sample ID: 440-239292-4 MSD — **Client Sample ID: EC-10-20190417**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541997 — **Prep Batch: 541917**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4'-DDD	ND		0.240	0.182		ug/L		76	50 - 125	0	30
2,4'-DDE	ND		0.240	0.168		ug/L		70	45 - 125	0	30
2,4'-DDT	ND		0.240	0.199		ug/L		83	50 - 125	0	30
4,4'-DDD	ND		0.240	0.194		ug/L		81	50 - 125	0	30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-239292-4 MSD — **Client Sample ID: EC-10-20190417**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 541997 — **Prep Batch: 541917**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDE	ND		0.240	0.180		ug/L		75	45 - 125	0	30
4,4'-DDT	ND		0.240	0.216		ug/L		90	50 - 125	0	30
Aldrin	ND		0.240	0.136		ug/L		57	35 - 120	2	30
alpha-BHC	0.014		0.240	0.189		ug/L		73	40 - 120	0	30
beta-BHC	0.12		0.240	0.279		ug/L		65	50 - 120	1	30
delta-BHC	ND		0.240	0.187	J	ug/L		78	50 - 120	0	30
Dieldrin	ND		0.240	0.182		ug/L		76	50 - 120	0	30
Endosulfan I	ND		0.240	0.177		ug/L		74	50 - 120	0	30
Endosulfan II	ND		0.240	0.182		ug/L		76	50 - 125	0	30
Endosulfan sulfate	ND		0.240	0.186	J	ug/L		77	55 - 125	1	30
Endrin	ND		0.240	0.189		ug/L		79	50 - 120	1	30
Endrin aldehyde	ND		0.240	0.176		ug/L		73	45 - 125	0	30
Endrin ketone	ND		0.240	0.190		ug/L		79	50 - 125	0	30
gamma-BHC (Lindane)	ND		0.240	0.183		ug/L		76	40 - 120	0	30
Heptachlor	ND		0.240	0.182		ug/L		76	40 - 120	0	30
Heptachlor epoxide	ND		0.240	0.179		ug/L		74	50 - 120	0	30
Methoxychlor	ND		0.240	0.243		ug/L		101	55 - 125	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*73*		*28 - 108*
Tetrachloro-m-xylene	*62*		*10 - 123*

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 440-542483/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542483

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/25/19 09:08	1

Lab Sample ID: LCS 440-542483/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	25.0	24.7		ug/L		99	85 - 115

Lab Sample ID: MRL 440-542483/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542483

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	1.00	ND		ug/L		93	75 - 125

Method: 314.0 - Perchlorate (IC) (Continued)

Lab Sample ID: 440-239292-4 MS — **Client Sample ID: EC-10-20190417**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542483

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate	99000	F1	25000	113000	F1	ug/L		57	80 - 120		

Lab Sample ID: 440-239292-4 MSD — **Client Sample ID: EC-10-20190417**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542483

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	99000	F1	25000	118000	F1	ug/L		76	80 - 120	4	15

Lab Sample ID: MB 440-543130/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 543130

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/29/19 10:19	1

Lab Sample ID: LCS 440-543130/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 543130

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			25.0	25.0		ug/L		100	85 - 115		

Lab Sample ID: MRL 440-543130/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 543130

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			1.00	ND		ug/L		89	75 - 125		

Lab Sample ID: 440-239949-D-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 543130

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate	8.3		25.0	33.0		ug/L		99	80 - 120		

Lab Sample ID: 440-239949-D-1 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 543130

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	8.3		25.0	33.6		ug/L		101	80 - 120	2	15

QC Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239292-1
SDG: Henderson, NV

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 440-541976/1-A
Matrix: Water
Analysis Batch: 542190

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 541976

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.10	ug/L		04/23/19 09:47	04/23/19 23:03	1
Barium	ND		0.20	0.10	ug/L		04/23/19 09:47	04/23/19 23:03	1
Cadmium	ND		0.10	0.050	ug/L		04/23/19 09:47	04/23/19 23:03	1
Chromium	0.505		0.50	0.25	ug/L		04/23/19 09:47	04/23/19 23:03	1
Lead	ND		0.10	0.050	ug/L		04/23/19 09:47	04/23/19 23:03	1
Selenium	ND		0.60	0.30	ug/L		04/23/19 09:47	04/23/19 23:03	1
Silver	ND		0.20	0.10	ug/L		04/23/19 09:47	04/23/19 23:03	1
Uranium	ND		0.10	0.050	ug/L		04/23/19 09:47	04/23/19 23:03	1

Lab Sample ID: LCS 440-541976/2-A
Matrix: Water
Analysis Batch: 542190

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 541976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	80.0	77.4		ug/L		97	80 - 120
Barium	80.0	78.3		ug/L		98	80 - 120
Cadmium	80.0	79.6		ug/L		100	80 - 120
Chromium	80.0	79.8		ug/L		100	80 - 120
Lead	80.0	78.2		ug/L		98	80 - 120
Selenium	80.0	76.2		ug/L		95	80 - 120
Silver	80.0	77.3		ug/L		97	80 - 120
Uranium	80.0	77.4		ug/L		97	80 - 120

Lab Sample ID: 440-239292-4 MS
Matrix: Water
Analysis Batch: 542190

Client Sample ID: EC-10-20190417
Prep Type: Total Recoverable
Prep Batch: 541976

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	71		80.0	151		ug/L		99	75 - 125
Barium	19		80.0	97.6		ug/L		98	75 - 125
Cadmium	ND		80.0	75.5		ug/L		94	75 - 125
Chromium	11	B	80.0	84.8		ug/L		93	75 - 125
Lead	0.18		80.0	72.3		ug/L		90	75 - 125
Selenium	4.1		80.0	81.5		ug/L		97	75 - 125
Silver	ND		80.0	73.3		ug/L		92	75 - 125
Uranium	3.1		80.0	78.8		ug/L		95	75 - 125

Lab Sample ID: 440-239292-4 MSD
Matrix: Water
Analysis Batch: 542190

Client Sample ID: EC-10-20190417
Prep Type: Total Recoverable
Prep Batch: 541976

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	71		80.0	148		ug/L		96	75 - 125	2	20
Barium	19		80.0	96.7		ug/L		97	75 - 125	1	20
Cadmium	ND		80.0	74.1		ug/L		93	75 - 125	2	20
Chromium	11	B	80.0	83.0		ug/L		90	75 - 125	2	20
Lead	0.18		80.0	71.3		ug/L		89	75 - 125	1	20
Selenium	4.1		80.0	77.1		ug/L		91	75 - 125	5	20
Silver	ND		80.0	71.8		ug/L		90	75 - 125	2	20

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 440-239292-4 MSD — **Client Sample ID: EC-10-20190417**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 542190 — **Prep Batch: 541976**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Uranium	3.1		80.0	77.8		ug/L		93	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 440-542288/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542576 — **Prep Batch: 542288**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/24/19 12:46	04/25/19 08:38	1

Lab Sample ID: LCS 440-542288/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542576 — **Prep Batch: 542288**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00400	0.00332		mg/L		83	80 - 120

Lab Sample ID: 440-239073-F-6-F MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542576 — **Prep Batch: 542288**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00400	0.00350		mg/L		88	75 - 125

Lab Sample ID: 440-239073-F-6-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542576 — **Prep Batch: 542288**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00400	0.00344		mg/L		86	75 - 125	2	20

Lab Sample ID: MB 440-542302/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542743 — **Prep Batch: 542302**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/24/19 13:45	04/25/19 19:37	1

Lab Sample ID: LCS 440-542302/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542743 — **Prep Batch: 542302**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00400	0.00452		mg/L		113	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 440-239292-4 MS — **Client Sample ID: EC-10-20190417**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542743 — **Prep Batch: 542302**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		0.00400	0.00451		mg/L		113	75 - 125		

Lab Sample ID: 440-239292-4 MSD — **Client Sample ID: EC-10-20190417**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542743 — **Prep Batch: 542302**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00400	0.00435		mg/L		109	75 - 125	4	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 440-542210/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542210

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			04/24/19 08:37	1

Lab Sample ID: LCS 440-542210/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542210

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	994		mg/L		99	90 - 110		

Lab Sample ID: 440-239292-4 DU — **Client Sample ID: EC-10-20190417**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542210

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	2000			1970		mg/L				0.3	5

QC Association Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239292-1
SDG: Henderson, NV

GC/MS VOA

Analysis Batch: 543039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239292-1	TB-20190417	Total/NA	Water	8260B	
440-239292-2	PL-512-20190417	Total/NA	Water	8260B	
440-239292-3	EC-04-20190417	Total/NA	Water	8260B	
440-239292-4	EC-10-20190417	Total/NA	Water	8260B	
440-239292-5	EC-14-20190417	Total/NA	Water	8260B	
MB 440-543039/6	Method Blank	Total/NA	Water	8260B	
LCS 440-543039/5	Lab Control Sample	Total/NA	Water	8260B	
440-239292-4 MS	EC-10-20190417	Total/NA	Water	8260B	
440-239292-4 MSD	EC-10-20190417	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 541917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239292-3	EC-04-20190417	Total/NA	Water	3510C	
440-239292-4	EC-10-20190417	Total/NA	Water	3510C	
440-239292-5	EC-14-20190417	Total/NA	Water	3510C	
MB 440-541917/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-541917/2-A	Lab Control Sample	Total/NA	Water	3510C	
440-239292-4 MS	EC-10-20190417	Total/NA	Water	3510C	
440-239292-4 MSD	EC-10-20190417	Total/NA	Water	3510C	

Analysis Batch: 541997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239292-3	EC-04-20190417	Total/NA	Water	8081A	541917
440-239292-4	EC-10-20190417	Total/NA	Water	8081A	541917
440-239292-5	EC-14-20190417	Total/NA	Water	8081A	541917
MB 440-541917/1-A	Method Blank	Total/NA	Water	8081A	541917
LCS 440-541917/2-A	Lab Control Sample	Total/NA	Water	8081A	541917
440-239292-4 MS	EC-10-20190417	Total/NA	Water	8081A	541917
440-239292-4 MSD	EC-10-20190417	Total/NA	Water	8081A	541917

HPLC/IC

Analysis Batch: 542483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239292-4	EC-10-20190417	Total/NA	Water	314.0	
MB 440-542483/6	Method Blank	Total/NA	Water	314.0	
LCS 440-542483/5	Lab Control Sample	Total/NA	Water	314.0	
MRL 440-542483/4	Lab Control Sample	Total/NA	Water	314.0	
440-239292-4 MS	EC-10-20190417	Total/NA	Water	314.0	
440-239292-4 MSD	EC-10-20190417	Total/NA	Water	314.0	

Analysis Batch: 543130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239292-3	EC-04-20190417	Total/NA	Water	314.0	
440-239292-5	EC-14-20190417	Total/NA	Water	314.0	
MB 440-543130/6	Method Blank	Total/NA	Water	314.0	
LCS 440-543130/5	Lab Control Sample	Total/NA	Water	314.0	
MRL 440-543130/4	Lab Control Sample	Total/NA	Water	314.0	
440-239949-D-1 MS	Matrix Spike	Total/NA	Water	314.0	
440-239949-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0	

QC Association Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239292-1
SDG: Henderson, NV

Metals

Prep Batch: 541976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239292-3	EC-04-20190417	Total Recoverable	Water	3005A	
440-239292-4	EC-10-20190417	Total Recoverable	Water	3005A	
440-239292-5	EC-14-20190417	Total Recoverable	Water	3005A	
MB 440-541976/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-541976/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-239292-4 MS	EC-10-20190417	Total Recoverable	Water	3005A	
440-239292-4 MSD	EC-10-20190417	Total Recoverable	Water	3005A	

Analysis Batch: 542190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239292-3	EC-04-20190417	Total Recoverable	Water	6020	541976
440-239292-4	EC-10-20190417	Total Recoverable	Water	6020	541976
440-239292-5	EC-14-20190417	Total Recoverable	Water	6020	541976
MB 440-541976/1-A	Method Blank	Total Recoverable	Water	6020	541976
LCS 440-541976/2-A	Lab Control Sample	Total Recoverable	Water	6020	541976
440-239292-4 MS	EC-10-20190417	Total Recoverable	Water	6020	541976
440-239292-4 MSD	EC-10-20190417	Total Recoverable	Water	6020	541976

Prep Batch: 542288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239292-3	EC-04-20190417	Total/NA	Water	7470A	
440-239292-5	EC-14-20190417	Total/NA	Water	7470A	
MB 440-542288/1-A	Method Blank	Total/NA	Water	7470A	
LCS 440-542288/2-A	Lab Control Sample	Total/NA	Water	7470A	
440-239073-F-6-F MS	Matrix Spike	Total/NA	Water	7470A	
440-239073-F-6-G MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 542302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239292-4	EC-10-20190417	Total/NA	Water	7470A	
MB 440-542302/1-A	Method Blank	Total/NA	Water	7470A	
LCS 440-542302/2-A	Lab Control Sample	Total/NA	Water	7470A	
440-239292-4 MS	EC-10-20190417	Total/NA	Water	7470A	
440-239292-4 MSD	EC-10-20190417	Total/NA	Water	7470A	

Analysis Batch: 542576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239292-3	EC-04-20190417	Total/NA	Water	7470A	542288
440-239292-5	EC-14-20190417	Total/NA	Water	7470A	542288
MB 440-542288/1-A	Method Blank	Total/NA	Water	7470A	542288
LCS 440-542288/2-A	Lab Control Sample	Total/NA	Water	7470A	542288
440-239073-F-6-F MS	Matrix Spike	Total/NA	Water	7470A	542288
440-239073-F-6-G MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	542288

Analysis Batch: 542743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239292-4	EC-10-20190417	Total/NA	Water	7470A	542302
MB 440-542302/1-A	Method Blank	Total/NA	Water	7470A	542302
LCS 440-542302/2-A	Lab Control Sample	Total/NA	Water	7470A	542302
440-239292-4 MS	EC-10-20190417	Total/NA	Water	7470A	542302
440-239292-4 MSD	EC-10-20190417	Total/NA	Water	7470A	542302

QC Association Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239292-1
SDG: Henderson, NV

General Chemistry

Analysis Batch: 542210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239292-3	EC-04-20190417	Total/NA	Water	SM 2540C	
440-239292-4	EC-10-20190417	Total/NA	Water	SM 2540C	
440-239292-5	EC-14-20190417	Total/NA	Water	SM 2540C	
MB 440-542210/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-542210/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-239292-4 DU	EC-10-20190417	Total/NA	Water	SM 2540C	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239292-1
SDG: Henderson, NV

Laboratory: Eurofins TestAmerica, Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Nevada	State Program	9	CA015312018-1	07-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8081A	3510C	Water	2,4'-DDD
8081A	3510C	Water	2,4'-DDE
8081A	3510C	Water	2,4'-DDT
8081A	3510C	Water	4,4'-DDD
8081A	3510C	Water	4,4'-DDE
8081A	3510C	Water	4,4'-DDT
8081A	3510C	Water	Aldrin
8081A	3510C	Water	alpha-BHC
8081A	3510C	Water	beta-BHC
8081A	3510C	Water	Chlordane
8081A	3510C	Water	delta-BHC
8081A	3510C	Water	Dieldrin
8081A	3510C	Water	Endosulfan I
8081A	3510C	Water	Endosulfan II
8081A	3510C	Water	Endosulfan sulfate
8081A	3510C	Water	Endrin
8081A	3510C	Water	Endrin aldehyde
8081A	3510C	Water	Endrin ketone
8081A	3510C	Water	gamma-BHC (Lindane)
8081A	3510C	Water	Heptachlor
8081A	3510C	Water	Heptachlor epoxide
8081A	3510C	Water	Methoxychlor
8081A	3510C	Water	Toxaphene
8260B		Water	Dimethyl disulfide

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone 949.261.1022 fax 949.260.3299

TestAmerica
Las Vegas
219

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Nicole Bradley, Dean Charles	Site Contact: Kevin Paprocki	Date: 4/17/19	COC No:
de maximis, Inc.	Tel/Fax: 619-546-8377	Lab Contact: Danielle Roberts	Carrier:	_____ of _____ COCs
1322 Scott St., Suite 101	Analysis Turnaround Time			Job No. 3200C
San Diego, CA 92106	Calendar (C) or Work Days (W)___ W___			SDG No.
(619) 546-8377 Phone	TAT if different from Below_____			
(619) 546-9980 Fax	☒ 2 weeks			
Project Name: 3200C Henderson Sitewide	☐ 1 week			
Site: Henderson, NV	☐ 2 days			
PO#	☐ 1 day			

440-239292 Chain of Custody

Sample Identification	Container Type	Sample Date	Sample Time	Preservation Type	Matrix	# of Containers	8260B-HEND-Qtrly	8081A – Pesticides	RCRA 8 Metals + Uranium - 7470A & 6020	TDS – SM2540C	Perchlorate 314	VOC concentration > 500 ppb	MS/MSD REQUIRED	LEVEL 2A REQUIRED	Sample Specific Notes:
TB-20190417	VOA	4/17/19	0650	4°C	AQ	2	X							X	
PL-512-20190417	VOA	4/17/19	0852	4°C	AQ	3	X							X	
EC-04-20190417	Various	4/17/19	0852	4°C	AQ	8	X	X	X	X	X			X	
EC-10-20190417	Various	4/17/19	1011	4°C	AQ	16	X	X	X	X	X		X	X	
EC-14-20190417	Various	4/17/19	1302	4°C	AQ	8	X	X	X	X	X			X	LB 4/18/19

† I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445 0636)
Signature: Date

Preservation Used: 1= Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other_____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return to Client* ☐ Disposal by Lab Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Sample Int (circle one)
Intact: Y / N on ice: Y / N
temperature:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Converse	4/17/19 1430		TAI	4/17/19 1730
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TAI	4/17/19 1630		TAI	4/18/19 1000
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

(05) Tk: 1766 5637 0720 1295 1.8 2.9/3.7 1.2 8.9

Login Sample Receipt Checklist

Client: de maximis, inc.

Job Number: 440-239292-1
SDG Number: Henderson, NV

Login Number: 239292
List Number: 1
Creator: Bonta, Lucia F

List Source: Eurofins TestAmerica, Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

Laboratory Job ID: 440-239435-1
Laboratory Sample Delivery Group: Henderson, NV
Client Project/Site: 3200C Henderson Sitewide

For:
de maximis, inc.
1322 Scott Street, Suite 104
San Diego, California 92106

Attn: Nicole Bradley

Authorized for release by:
5/4/2019 1:46:53 PM

Danielle Roberts, Senior Project Manager
(949)260-3249
danielle.roberts@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 6
Client Sample Results 8
Surrogate Summary 21
Method Summary 22
Lab Chronicle 23
QC Sample Results 25
QC Association Summary 44
Definitions/Glossary 47
Certification Summary 48
Chain of Custody 49
Receipt Checklists 50

Sample Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239435-1
SDG: Henderson, NV

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-239435-1	TB-20190418	Water	04/18/19 06:50	04/19/19 10:00
440-239435-2	PL-513-20190418	Water	04/18/19 09:38	04/19/19 10:00
440-239435-3	PL-514-20190418	Water	04/18/19 13:15	04/19/19 10:00
440-239435-4	PL-515-20190418	Water	04/18/19 13:25	04/19/19 10:00
440-239435-5	AA-MW-13R-20190418	Water	04/18/19 09:38	04/19/19 10:00
440-239435-6	MCF-BW-10A-20190418	Water	04/18/19 11:24	04/19/19 10:00

Job ID: 440-239435-1

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative
440-239435-1

Comments
No additional comments.

Receipt
The samples were received on 4/19/2019 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.7º C and 3.4º C.

GC/MS VOA
Method(s) 8260B: The samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, when verified by the laboratory, the pH was 14 and the following samples were analyzed after 7 days from sampling: AA-MW-13R-20190418 (440-239435-5), (440-239435-B-5 MS) and (440-239435-B-5 MSD).

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 440-543082 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
Method(s) 314.0: The following samples were pretreated.

AA-MW-13R-20190418 (440-239435-5), (LCS 440-543366/36), (LCSD 440-543366/40), (MB 440-543366/35), (440-239435-E-5 MS) and (440-239435-E-5 MSD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8081A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch preparation batch 440-542172 and analytical batch 440-542238 The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch: (LCS 440-542172/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
The following sample was diluted due to the nature of the sample matrix: AA-MW-13R-20190418 (440-239435-5). Elevated reporting limits (RLs) are provided.

Method(s) 6020: The method blank for preparation batch 440-542197 and analytical batch 440-542328 contained Barium and Chromium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method(s) 6020: The method blank for preparation batch 440-542493 and analytical batch 440-542715 contained Chromium above the method detection limit (MDL) and Barium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with

Job ID: 440-239435-1 (Continued)

Laboratory: Eurofins TestAmerica, Irvine (Continued)

preparation batch 440-542172. Method 8081A.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239435-1
SDG: Henderson, NV

Client Sample ID: TB-20190418 — Lab Sample ID: 440-239435-1

No Detections.

Client Sample ID: PL-513-20190418 — Lab Sample ID: 440-239435-2

No Detections.

Client Sample ID: PL-514-20190418 — Lab Sample ID: 440-239435-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.11	J	0.20	0.10	ug/L	1		6020	Total Recoverable
Barium	0.54		0.20	0.10	ug/L	1		6020	Total Recoverable
Cadmium	0.056	J	0.10	0.050	ug/L	1		6020	Total Recoverable
Chromium	0.74		0.50	0.25	ug/L	1		6020	Total Recoverable
Lead	0.12		0.10	0.050	ug/L	1		6020	Total Recoverable
Uranium	0.11		0.10	0.050	ug/L	1		6020	Total Recoverable

Client Sample ID: PL-515-20190418 — Lab Sample ID: 440-239435-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.36		0.20	0.10	ug/L	1		6020	Total Recoverable
Chromium	0.44	J	0.50	0.25	ug/L	1		6020	Total Recoverable

Client Sample ID: AA-MW-13R-20190418 — Lab Sample ID: 440-239435-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3-Trichlorobenzene	98	J	1000	80	ug/L	200		8260B	Total/NA
1,2,4-Trichlorobenzene	530	J	1000	80	ug/L	200		8260B	Total/NA
1,2-Dichlorobenzene	1700		400	50	ug/L	200		8260B	Total/NA
1,4-Dichlorobenzene	2100		400	50	ug/L	200		8260B	Total/NA
Chlorobenzene	9300		400	50	ug/L	200		8260B	Total/NA
Benzene - DL	38000	F1	4000	500	ug/L	2000		8260B	Total/NA
beta-BHC	0.18		0.0089	0.0036	ug/L	1		8081A	Total/NA
Methoxychlor	0.0035	J	0.089	0.0031	ug/L	1		8081A	Total/NA
Perchlorate	290		200	48	ug/L	50		314.0	Total/NA
Arsenic	1500		2.0	1.0	ug/L	1		6020	Total Recoverable
Barium	2700	B	2.0	1.0	ug/L	1		6020	Total Recoverable
Cadmium	0.50	J	1.0	0.50	ug/L	1		6020	Total Recoverable
Chromium	130	B	5.0	2.5	ug/L	1		6020	Total Recoverable
Lead	120		1.0	0.50	ug/L	1		6020	Total Recoverable
Selenium	26		6.0	3.0	ug/L	1		6020	Total Recoverable
Uranium	25		1.0	0.50	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	110000		1000	500	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Irvine

Detection Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239435-1
SDG: Henderson, NV

Client Sample ID: MCF-BW-10A-20190418

Lab Sample ID: 440-239435-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.1	J	2.0	0.25	ug/L	1		8260B	Total/NA
Chlorobenzene	0.59	J	2.0	0.25	ug/L	1		8260B	Total/NA
Chloroform	1.8	J	2.0	0.25	ug/L	1		8260B	Total/NA
Perchlorate	37000		4000	950	ug/L	1000		314.0	Total/NA
Arsenic	43		0.20	0.10	ug/L	1		6020	Total Recoverable
Barium	22	B	0.20	0.10	ug/L	1		6020	Total Recoverable
Chromium	9.8	B	0.50	0.25	ug/L	1		6020	Total Recoverable
Lead	0.18		0.10	0.050	ug/L	1		6020	Total Recoverable
Selenium	3.2		0.60	0.30	ug/L	1		6020	Total Recoverable
Uranium	4.3		0.10	0.050	ug/L	1		6020	Total Recoverable
Total Dissolved Solids	1600		20	10	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239435-1
SDG: Henderson, NV

Client Sample ID: TB-20190418

Date Collected: 04/18/19 06:50
Date Received: 04/19/19 10:00

Lab Sample ID: 440-239435-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/28/19 13:40	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 13:40	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/28/19 13:40	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 13:40	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 13:40	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/28/19 13:40	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 13:40	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 13:40	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/28/19 13:40	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 13:40	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 13:40	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/28/19 13:40	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/28/19 13:40	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 13:40	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 13:40	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 13:40	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 13:40	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 13:40	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 13:40	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 13:40	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/28/19 13:40	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 13:40	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 13:40	1
Benzene	ND		2.0	0.25	ug/L			04/28/19 13:40	1
Bromobenzene	ND		5.0	0.25	ug/L			04/28/19 13:40	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/28/19 13:40	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/28/19 13:40	1
Bromoform	ND		5.0	0.40	ug/L			04/28/19 13:40	1
Bromomethane	ND		5.0	0.25	ug/L			04/28/19 13:40	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/28/19 13:40	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/28/19 13:40	1
Chloroethane	ND		5.0	0.40	ug/L			04/28/19 13:40	1
Chloroform	ND		2.0	0.25	ug/L			04/28/19 13:40	1
Chloromethane	ND		5.0	0.25	ug/L			04/28/19 13:40	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 13:40	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 13:40	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/28/19 13:40	1
Dibromomethane	ND		2.0	0.25	ug/L			04/28/19 13:40	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/28/19 13:40	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/28/19 13:40	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/28/19 13:40	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/28/19 13:40	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/28/19 13:40	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/28/19 13:40	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/28/19 13:40	1
Naphthalene	ND		5.0	0.40	ug/L			04/28/19 13:40	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/28/19 13:40	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/28/19 13:40	1
o-Xylene	ND		2.0	0.25	ug/L			04/28/19 13:40	1

Client Sample ID: TB-20190418

Lab Sample ID: 440-239435-1

Date Collected: 04/18/19 06:50
Matrix: Water
Date Received: 04/19/19 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/28/19 13:40	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 13:40	1
Styrene	ND		2.0	0.25	ug/L			04/28/19 13:40	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 13:40	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/28/19 13:40	1
Toluene	ND		2.0	0.25	ug/L			04/28/19 13:40	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 13:40	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 13:40	1
Trichloroethene	ND		2.0	0.25	ug/L			04/28/19 13:40	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/28/19 13:40	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/28/19 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*04/28/19 13:40*	*1*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*04/28/19 13:40*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*04/28/19 13:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*04/28/19 13:40*	*1*

Client Sample ID: PL-513-20190418

Lab Sample ID: 440-239435-2

Date Collected: 04/18/19 09:38
Matrix: Water
Date Received: 04/19/19 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/28/19 14:06	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 14:06	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/28/19 14:06	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 14:06	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 14:06	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/28/19 14:06	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 14:06	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 14:06	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/28/19 14:06	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 14:06	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 14:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/28/19 14:06	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/28/19 14:06	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 14:06	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 14:06	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 14:06	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 14:06	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 14:06	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 14:06	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 14:06	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/28/19 14:06	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 14:06	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 14:06	1
Benzene	ND		2.0	0.25	ug/L			04/28/19 14:06	1
Bromobenzene	ND		5.0	0.25	ug/L			04/28/19 14:06	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/28/19 14:06	1

Client Sample ID: PL-513-20190418

Lab Sample ID: 440-239435-2

Date Collected: 04/18/19 09:38
Matrix: Water
Date Received: 04/19/19 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		2.0	0.25	ug/L			04/28/19 14:06	1
Bromoform	ND		5.0	0.40	ug/L			04/28/19 14:06	1
Bromomethane	ND		5.0	0.25	ug/L			04/28/19 14:06	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/28/19 14:06	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/28/19 14:06	1
Chloroethane	ND		5.0	0.40	ug/L			04/28/19 14:06	1
Chloroform	ND		2.0	0.25	ug/L			04/28/19 14:06	1
Chloromethane	ND		5.0	0.25	ug/L			04/28/19 14:06	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 14:06	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 14:06	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/28/19 14:06	1
Dibromomethane	ND		2.0	0.25	ug/L			04/28/19 14:06	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/28/19 14:06	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/28/19 14:06	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/28/19 14:06	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/28/19 14:06	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/28/19 14:06	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/28/19 14:06	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/28/19 14:06	1
Naphthalene	ND		5.0	0.40	ug/L			04/28/19 14:06	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/28/19 14:06	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/28/19 14:06	1
o-Xylene	ND		2.0	0.25	ug/L			04/28/19 14:06	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/28/19 14:06	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 14:06	1
Styrene	ND		2.0	0.25	ug/L			04/28/19 14:06	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 14:06	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/28/19 14:06	1
Toluene	ND		2.0	0.25	ug/L			04/28/19 14:06	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 14:06	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 14:06	1
Trichloroethene	ND		2.0	0.25	ug/L			04/28/19 14:06	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/28/19 14:06	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/28/19 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*04/28/19 14:06*	*1*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*04/28/19 14:06*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*04/28/19 14:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*04/28/19 14:06*	*1*

Client Sample ID: PL-514-20190418

Lab Sample ID: 440-239435-3

Date Collected: 04/18/19 13:15
Matrix: Water
Date Received: 04/19/19 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/28/19 14:33	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 14:33	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/28/19 14:33	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239435-1
SDG: Henderson, NV

Client Sample ID: PL-514-20190418

Date Collected: 04/18/19 13:15
Date Received: 04/19/19 10:00

Lab Sample ID: 440-239435-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 14:33	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 14:33	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/28/19 14:33	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 14:33	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 14:33	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/28/19 14:33	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 14:33	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 14:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/28/19 14:33	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/28/19 14:33	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 14:33	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 14:33	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 14:33	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 14:33	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 14:33	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 14:33	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 14:33	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/28/19 14:33	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 14:33	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 14:33	1
Benzene	ND		2.0	0.25	ug/L			04/28/19 14:33	1
Bromobenzene	ND		5.0	0.25	ug/L			04/28/19 14:33	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/28/19 14:33	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/28/19 14:33	1
Bromoform	ND		5.0	0.40	ug/L			04/28/19 14:33	1
Bromomethane	ND		5.0	0.25	ug/L			04/28/19 14:33	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/28/19 14:33	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/28/19 14:33	1
Chloroethane	ND		5.0	0.40	ug/L			04/28/19 14:33	1
Chloroform	ND		2.0	0.25	ug/L			04/28/19 14:33	1
Chloromethane	ND		5.0	0.25	ug/L			04/28/19 14:33	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 14:33	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 14:33	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/28/19 14:33	1
Dibromomethane	ND		2.0	0.25	ug/L			04/28/19 14:33	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/28/19 14:33	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/28/19 14:33	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/28/19 14:33	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/28/19 14:33	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/28/19 14:33	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/28/19 14:33	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/28/19 14:33	1
Naphthalene	ND		5.0	0.40	ug/L			04/28/19 14:33	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/28/19 14:33	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/28/19 14:33	1
o-Xylene	ND		2.0	0.25	ug/L			04/28/19 14:33	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/28/19 14:33	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 14:33	1
Styrene	ND		2.0	0.25	ug/L			04/28/19 14:33	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239435-1
SDG: Henderson, NV

Client Sample ID: PL-514-20190418

Date Collected: 04/18/19 13:15
Date Received: 04/19/19 10:00

Lab Sample ID: 440-239435-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 14:33	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/28/19 14:33	1
Toluene	ND		2.0	0.25	ug/L			04/28/19 14:33	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 14:33	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 14:33	1
Trichloroethene	ND		2.0	0.25	ug/L			04/28/19 14:33	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/28/19 14:33	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/28/19 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*04/28/19 14:33*	*1*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*04/28/19 14:33*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*04/28/19 14:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*04/28/19 14:33*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.098	0.020	ug/L		04/24/19 05:47	04/24/19 16:14	1
2,4'-DDE	ND		0.098	0.020	ug/L		04/24/19 05:47	04/24/19 16:14	1
2,4'-DDT	ND		0.098	0.020	ug/L		04/24/19 05:47	04/24/19 16:14	1
4,4'-DDD	ND		0.098	0.0039	ug/L		04/24/19 05:47	04/24/19 16:14	1
4,4'-DDE	ND		0.098	0.0029	ug/L		04/24/19 05:47	04/24/19 16:14	1
4,4'-DDT	ND		0.098	0.0039	ug/L		04/24/19 05:47	04/24/19 16:14	1
Aldrin	ND		0.0049	0.0015	ug/L		04/24/19 05:47	04/24/19 16:14	1
alpha-BHC	ND		0.0049	0.0025	ug/L		04/24/19 05:47	04/24/19 16:14	1
beta-BHC	ND		0.0098	0.0039	ug/L		04/24/19 05:47	04/24/19 16:14	1
Chlordane	ND		0.098	0.078	ug/L		04/24/19 05:47	04/24/19 16:14	1
delta-BHC	ND		0.20	0.0034	ug/L		04/24/19 05:47	04/24/19 16:14	1
Dieldrin	ND		0.0049	0.0020	ug/L		04/24/19 05:47	04/24/19 16:14	1
Endosulfan I	ND		0.098	0.0029	ug/L		04/24/19 05:47	04/24/19 16:14	1
Endosulfan II	ND		0.098	0.0020	ug/L		04/24/19 05:47	04/24/19 16:14	1
Endosulfan sulfate	ND		0.20	0.0029	ug/L		04/24/19 05:47	04/24/19 16:14	1
Endrin	ND		0.098	0.0020	ug/L		04/24/19 05:47	04/24/19 16:14	1
Endrin aldehyde	ND		0.098	0.0020	ug/L		04/24/19 05:47	04/24/19 16:14	1
Endrin ketone	ND		0.098	0.0069	ug/L		04/24/19 05:47	04/24/19 16:14	1
gamma-BHC (Lindane)	ND		0.098	0.0029	ug/L		04/24/19 05:47	04/24/19 16:14	1
Heptachlor	ND		0.0098	0.0029	ug/L		04/24/19 05:47	04/24/19 16:14	1
Heptachlor epoxide	ND		0.0049	0.0025	ug/L		04/24/19 05:47	04/24/19 16:14	1
Methoxychlor	ND		0.098	0.0034	ug/L		04/24/19 05:47	04/24/19 16:14	1
Toxaphene	ND		4.9	0.25	ug/L		04/24/19 05:47	04/24/19 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*60*		*28 - 108*	*04/24/19 05:47*	*04/24/19 16:14*	*1*
Tetrachloro-m-xylene	*41*		*10 - 123*	*04/24/19 05:47*	*04/24/19 16:14*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/29/19 12:16	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239435-1
SDG: Henderson, NV

Client Sample ID: PL-514-20190418

Lab Sample ID: 440-239435-3
Date Collected: 04/18/19 13:15
Matrix: Water
Date Received: 04/19/19 10:00

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.11**	**J**	0.20	0.10	ug/L		04/24/19 07:54	04/24/19 13:36	1
Barium	**0.54**		0.20	0.10	ug/L		04/26/19 08:35	04/26/19 18:54	1
Cadmium	**0.056**	**J**	0.10	0.050	ug/L		04/24/19 07:54	04/24/19 13:36	1
Chromium	**0.74**		0.50	0.25	ug/L		04/26/19 08:35	04/26/19 18:54	1
Lead	**0.12**		0.10	0.050	ug/L		04/24/19 07:54	04/24/19 13:36	1
Selenium	ND		0.60	0.30	ug/L		04/24/19 07:54	04/24/19 13:36	1
Silver	ND		0.20	0.10	ug/L		04/24/19 07:54	04/24/19 13:36	1
Uranium	**0.11**		0.10	0.050	ug/L		04/24/19 07:54	04/24/19 13:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/27/19 14:35	04/27/19 19:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			04/25/19 08:11	1

Client Sample ID: PL-515-20190418

Lab Sample ID: 440-239435-4
Date Collected: 04/18/19 13:25
Matrix: Water
Date Received: 04/19/19 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/28/19 15:00	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 15:00	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/28/19 15:00	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 15:00	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 15:00	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/28/19 15:00	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 15:00	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 15:00	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/28/19 15:00	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 15:00	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 15:00	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/28/19 15:00	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/28/19 15:00	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 15:00	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 15:00	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 15:00	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 15:00	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 15:00	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 15:00	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 15:00	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/28/19 15:00	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 15:00	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 15:00	1
Benzene	ND		2.0	0.25	ug/L			04/28/19 15:00	1
Bromobenzene	ND		5.0	0.25	ug/L			04/28/19 15:00	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/28/19 15:00	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/28/19 15:00	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239435-1
SDG: Henderson, NV

Client Sample ID: PL-515-20190418

Date Collected: 04/18/19 13:25
Date Received: 04/19/19 10:00

Lab Sample ID: 440-239435-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		5.0	0.40	ug/L			04/28/19 15:00	1
Bromomethane	ND		5.0	0.25	ug/L			04/28/19 15:00	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/28/19 15:00	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/28/19 15:00	1
Chloroethane	ND		5.0	0.40	ug/L			04/28/19 15:00	1
Chloroform	ND		2.0	0.25	ug/L			04/28/19 15:00	1
Chloromethane	ND		5.0	0.25	ug/L			04/28/19 15:00	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 15:00	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 15:00	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/28/19 15:00	1
Dibromomethane	ND		2.0	0.25	ug/L			04/28/19 15:00	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/28/19 15:00	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/28/19 15:00	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/28/19 15:00	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/28/19 15:00	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/28/19 15:00	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/28/19 15:00	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/28/19 15:00	1
Naphthalene	ND		5.0	0.40	ug/L			04/28/19 15:00	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/28/19 15:00	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/28/19 15:00	1
o-Xylene	ND		2.0	0.25	ug/L			04/28/19 15:00	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/28/19 15:00	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 15:00	1
Styrene	ND		2.0	0.25	ug/L			04/28/19 15:00	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 15:00	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/28/19 15:00	1
Toluene	ND		2.0	0.25	ug/L			04/28/19 15:00	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 15:00	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 15:00	1
Trichloroethene	ND		2.0	0.25	ug/L			04/28/19 15:00	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/28/19 15:00	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/28/19 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*04/28/19 15:00*	*1*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*04/28/19 15:00*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*04/28/19 15:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*04/28/19 15:00*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.096	0.019	ug/L		04/24/19 05:47	04/24/19 16:41	1
2,4'-DDE	ND		0.096	0.019	ug/L		04/24/19 05:47	04/24/19 16:41	1
2,4'-DDT	ND		0.096	0.019	ug/L		04/24/19 05:47	04/24/19 16:41	1
4,4'-DDD	ND		0.096	0.0038	ug/L		04/24/19 05:47	04/24/19 16:41	1
4,4'-DDE	ND		0.096	0.0029	ug/L		04/24/19 05:47	04/24/19 16:41	1
4,4'-DDT	ND		0.096	0.0038	ug/L		04/24/19 05:47	04/24/19 16:41	1
Aldrin	ND		0.0048	0.0014	ug/L		04/24/19 05:47	04/24/19 16:41	1
alpha-BHC	ND		0.0048	0.0024	ug/L		04/24/19 05:47	04/24/19 16:41	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239435-1
SDG: Henderson, NV

Client Sample ID: PL-515-20190418

Lab Sample ID: 440-239435-4
Matrix: Water

Date Collected: 04/18/19 13:25
Date Received: 04/19/19 10:00

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	ND		0.0096	0.0038	ug/L		04/24/19 05:47	04/24/19 16:41	1
Chlordane	ND		0.096	0.077	ug/L		04/24/19 05:47	04/24/19 16:41	1
delta-BHC	ND		0.19	0.0033	ug/L		04/24/19 05:47	04/24/19 16:41	1
Dieldrin	ND		0.0048	0.0019	ug/L		04/24/19 05:47	04/24/19 16:41	1
Endosulfan I	ND		0.096	0.0029	ug/L		04/24/19 05:47	04/24/19 16:41	1
Endosulfan II	ND		0.096	0.0019	ug/L		04/24/19 05:47	04/24/19 16:41	1
Endosulfan sulfate	ND		0.19	0.0029	ug/L		04/24/19 05:47	04/24/19 16:41	1
Endrin	ND		0.096	0.0019	ug/L		04/24/19 05:47	04/24/19 16:41	1
Endrin aldehyde	ND		0.096	0.0019	ug/L		04/24/19 05:47	04/24/19 16:41	1
Endrin ketone	ND		0.096	0.0067	ug/L		04/24/19 05:47	04/24/19 16:41	1
gamma-BHC (Lindane)	ND		0.096	0.0029	ug/L		04/24/19 05:47	04/24/19 16:41	1
Heptachlor	ND		0.0096	0.0029	ug/L		04/24/19 05:47	04/24/19 16:41	1
Heptachlor epoxide	ND		0.0048	0.0024	ug/L		04/24/19 05:47	04/24/19 16:41	1
Methoxychlor	ND		0.096	0.0033	ug/L		04/24/19 05:47	04/24/19 16:41	1
Toxaphene	ND		4.8	0.24	ug/L		04/24/19 05:47	04/24/19 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*62*		*28 - 108*	*04/24/19 05:47*	*04/24/19 16:41*	*1*
Tetrachloro-m-xylene	*36*		*10 - 123*	*04/24/19 05:47*	*04/24/19 16:41*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/29/19 12:36	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.10	ug/L		04/24/19 07:54	04/24/19 13:56	1
Barium	**0.36**		0.20	0.10	ug/L		04/26/19 08:35	04/26/19 18:17	1
Cadmium	ND		0.10	0.050	ug/L		04/24/19 07:54	04/24/19 13:56	1
Chromium	**0.44**	**J**	0.50	0.25	ug/L		04/26/19 08:35	04/26/19 18:17	1
Lead	ND		0.10	0.050	ug/L		04/24/19 07:54	04/24/19 13:56	1
Selenium	ND		0.60	0.30	ug/L		04/24/19 07:54	04/24/19 13:56	1
Silver	ND		0.20	0.10	ug/L		04/24/19 07:54	04/24/19 13:56	1
Uranium	ND		0.10	0.050	ug/L		04/24/19 07:54	04/24/19 13:56	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/27/19 14:35	04/27/19 19:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			04/25/19 08:11	1

Client Sample ID: AA-MW-13R-20190418

Lab Sample ID: 440-239435-5
Matrix: Water

Date Collected: 04/18/19 09:38
Date Received: 04/19/19 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1000	50	ug/L			04/28/19 23:53	200
1,1,1-Trichloroethane	ND		400	50	ug/L			04/28/19 23:53	200

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239435-1
SDG: Henderson, NV

Client Sample ID: AA-MW-13R-20190418

Lab Sample ID: 440-239435-5

Date Collected: 04/18/19 09:38
Date Received: 04/19/19 10:00

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		400	50	ug/L			04/28/19 23:53	200
1,1,2-Trichloroethane	ND		400	50	ug/L			04/28/19 23:53	200
1,1-Dichloroethane	ND		400	50	ug/L			04/28/19 23:53	200
1,1-Dichloroethene	ND		1000	50	ug/L			04/28/19 23:53	200
1,1-Dichloropropene	ND		400	50	ug/L			04/28/19 23:53	200
1,2,3-Trichlorobenzene	**98**	**J**	1000	80	ug/L			04/28/19 23:53	200
1,2,3-Trichloropropane	ND		2000	50	ug/L			04/28/19 23:53	200
1,2,4-Trichlorobenzene	**530**	**J**	1000	80	ug/L			04/28/19 23:53	200
1,2,4-Trimethylbenzene	ND		400	50	ug/L			04/28/19 23:53	200
1,2-Dibromo-3-Chloropropane	ND		1000	100	ug/L			04/28/19 23:53	200
1,2-Dibromoethane (EDB)	ND		400	50	ug/L			04/28/19 23:53	200
1,2-Dichlorobenzene	**1700**		400	50	ug/L			04/28/19 23:53	200
1,2-Dichloroethane	ND		400	50	ug/L			04/28/19 23:53	200
1,2-Dichloropropane	ND		400	50	ug/L			04/28/19 23:53	200
1,3,5-Trimethylbenzene	ND		400	50	ug/L			04/28/19 23:53	200
1,3-Dichlorobenzene	ND		400	50	ug/L			04/28/19 23:53	200
1,3-Dichloropropane	ND		400	50	ug/L			04/28/19 23:53	200
1,4-Dichlorobenzene	**2100**		400	50	ug/L			04/28/19 23:53	200
2,2-Dichloropropane	ND		400	80	ug/L			04/28/19 23:53	200
2-Chlorotoluene	ND		1000	50	ug/L			04/28/19 23:53	200
4-Chlorotoluene	ND		1000	50	ug/L			04/28/19 23:53	200
Bromobenzene	ND		1000	50	ug/L			04/28/19 23:53	200
Bromochloromethane	ND		1000	50	ug/L			04/28/19 23:53	200
Bromodichloromethane	ND		400	50	ug/L			04/28/19 23:53	200
Bromoform	ND		1000	80	ug/L			04/28/19 23:53	200
Bromomethane	ND		1000	50	ug/L			04/28/19 23:53	200
Carbon tetrachloride	ND		200	50	ug/L			04/28/19 23:53	200
Chlorobenzene	**9300**		400	50	ug/L			04/28/19 23:53	200
Chloroethane	ND		1000	80	ug/L			04/28/19 23:53	200
Chloroform	ND		400	50	ug/L			04/28/19 23:53	200
Chloromethane	ND		1000	50	ug/L			04/28/19 23:53	200
cis-1,2-Dichloroethene	ND		400	50	ug/L			04/28/19 23:53	200
cis-1,3-Dichloropropene	ND		400	50	ug/L			04/28/19 23:53	200
Dibromochloromethane	ND		400	50	ug/L			04/28/19 23:53	200
Dibromomethane	ND		400	50	ug/L			04/28/19 23:53	200
Dichlorodifluoromethane	ND		1000	50	ug/L			04/28/19 23:53	200
Dimethyl disulfide	ND		400	200	ug/L			04/28/19 23:53	200
Ethylbenzene	ND		400	50	ug/L			04/28/19 23:53	200
Hexachlorobutadiene	ND		1000	50	ug/L			04/28/19 23:53	200
Isopropylbenzene	ND		400	50	ug/L			04/28/19 23:53	200
m,p-Xylene	ND		400	100	ug/L			04/28/19 23:53	200
Methylene Chloride	ND		400	220	ug/L			04/28/19 23:53	200
Naphthalene	ND		1000	80	ug/L			04/28/19 23:53	200
n-Butylbenzene	ND		1000	80	ug/L			04/28/19 23:53	200
N-Propylbenzene	ND		400	50	ug/L			04/28/19 23:53	200
o-Xylene	ND		400	50	ug/L			04/28/19 23:53	200
p-Isopropyltoluene	ND		400	50	ug/L			04/28/19 23:53	200
sec-Butylbenzene	ND		1000	50	ug/L			04/28/19 23:53	200
Styrene	ND		400	50	ug/L			04/28/19 23:53	200

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239435-1
SDG: Henderson, NV

Client Sample ID: AA-MW-13R-20190418

Lab Sample ID: 440-239435-5

Date Collected: 04/18/19 09:38
Date Received: 04/19/19 10:00

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		1000	50	ug/L			04/28/19 23:53	200
Tetrachloroethene	ND		400	50	ug/L			04/28/19 23:53	200
Toluene	ND		400	50	ug/L			04/28/19 23:53	200
trans-1,2-Dichloroethene	ND		400	50	ug/L			04/28/19 23:53	200
trans-1,3-Dichloropropene	ND		400	50	ug/L			04/28/19 23:53	200
Trichloroethene	ND		400	50	ug/L			04/28/19 23:53	200
Trichlorofluoromethane	ND		1000	50	ug/L			04/28/19 23:53	200
Vinyl chloride	ND		1000	50	ug/L			04/28/19 23:53	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*04/28/19 23:53*	*200*
Dibromofluoromethane (Surr)	*81*		*76 - 132*		*04/28/19 23:53*	*200*
Toluene-d8 (Surr)	*104*		*80 - 128*		*04/28/19 23:53*	*200*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*04/28/19 23:53*	*200*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**38000**	**F1**	4000	500	ug/L			04/28/19 22:33	2000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*04/28/19 22:33*	*2000*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*04/28/19 22:33*	*2000*
Toluene-d8 (Surr)	*104*		*80 - 128*		*04/28/19 22:33*	*2000*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*04/28/19 22:33*	*2000*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.089	0.018	ug/L		04/24/19 05:47	04/24/19 17:08	1
2,4'-DDE	ND		0.089	0.018	ug/L		04/24/19 05:47	04/24/19 17:08	1
2,4'-DDT	ND		0.089	0.018	ug/L		04/24/19 05:47	04/24/19 17:08	1
4,4'-DDD	ND		0.089	0.0036	ug/L		04/24/19 05:47	04/24/19 17:08	1
4,4'-DDE	ND		0.089	0.0027	ug/L		04/24/19 05:47	04/24/19 17:08	1
4,4'-DDT	ND		0.089	0.0036	ug/L		04/24/19 05:47	04/24/19 17:08	1
Aldrin	ND		0.0045	0.0013	ug/L		04/24/19 05:47	04/24/19 17:08	1
alpha-BHC	ND		0.0045	0.0022	ug/L		04/24/19 05:47	04/24/19 17:08	1
beta-BHC	**0.18**		0.0089	0.0036	ug/L		04/24/19 05:47	04/24/19 17:08	1
Chlordane	ND		0.089	0.071	ug/L		04/24/19 05:47	04/24/19 17:08	1
delta-BHC	ND		0.18	0.0031	ug/L		04/24/19 05:47	04/24/19 17:08	1
Dieldrin	ND		0.0045	0.0018	ug/L		04/24/19 05:47	04/24/19 17:08	1
Endosulfan I	ND		0.089	0.0027	ug/L		04/24/19 05:47	04/24/19 17:08	1
Endosulfan II	ND		0.089	0.0018	ug/L		04/24/19 05:47	04/24/19 17:08	1
Endosulfan sulfate	ND		0.18	0.0027	ug/L		04/24/19 05:47	04/24/19 17:08	1
Endrin	ND		0.089	0.0018	ug/L		04/24/19 05:47	04/24/19 17:08	1
Endrin aldehyde	ND		0.089	0.0018	ug/L		04/24/19 05:47	04/24/19 17:08	1
Endrin ketone	ND		0.089	0.0063	ug/L		04/24/19 05:47	04/24/19 17:08	1
gamma-BHC (Lindane)	ND		0.089	0.0027	ug/L		04/24/19 05:47	04/24/19 17:08	1
Heptachlor	ND		0.0089	0.0027	ug/L		04/24/19 05:47	04/24/19 17:08	1
Heptachlor epoxide	ND		0.0045	0.0022	ug/L		04/24/19 05:47	04/24/19 17:08	1
Methoxychlor	**0.0035**	**J**	0.089	0.0031	ug/L		04/24/19 05:47	04/24/19 17:08	1
Toxaphene	ND		4.5	0.22	ug/L		04/24/19 05:47	04/24/19 17:08	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239435-1
SDG: Henderson, NV

Client Sample ID: AA-MW-13R-20190418

Lab Sample ID: 440-239435-5

Date Collected: 04/18/19 09:38
Matrix: Water
Date Received: 04/19/19 10:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*28 - 108*	*04/24/19 05:47*	*04/24/19 17:08*	*1*
Tetrachloro-m-xylene	*39*		*10 - 123*	*04/24/19 05:47*	*04/24/19 17:08*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**290**		200	48	ug/L			05/02/19 10:25	50

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1500**		2.0	1.0	ug/L		04/25/19 08:49	04/25/19 22:08	1
Barium	**2700**	**B**	2.0	1.0	ug/L		04/25/19 08:49	04/25/19 22:08	1
Cadmium	**0.50**	**J**	1.0	0.50	ug/L		04/25/19 08:49	04/25/19 22:08	1
Chromium	**130**	**B**	5.0	2.5	ug/L		04/25/19 08:49	04/25/19 22:08	1
Lead	**120**		1.0	0.50	ug/L		04/25/19 08:49	04/25/19 22:08	1
Selenium	**26**		6.0	3.0	ug/L		04/25/19 08:49	04/25/19 22:08	1
Silver	ND		2.0	1.0	ug/L		04/25/19 08:49	04/25/19 22:08	1
Uranium	**25**		1.0	0.50	ug/L		04/25/19 08:49	04/25/19 22:08	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00040	0.00020	mg/L		04/27/19 14:35	04/27/19 19:26	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**110000**		1000	500	mg/L			04/25/19 08:11	1

Client Sample ID: MCF-BW-10A-20190418

Lab Sample ID: 440-239435-6

Date Collected: 04/18/19 11:24
Matrix: Water
Date Received: 04/19/19 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/28/19 15:26	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 15:26	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/28/19 15:26	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 15:26	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 15:26	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/28/19 15:26	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 15:26	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 15:26	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/28/19 15:26	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 15:26	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 15:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/28/19 15:26	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/28/19 15:26	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 15:26	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 15:26	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 15:26	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 15:26	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 15:26	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 15:26	1

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239435-1
SDG: Henderson, NV

Client Sample ID: MCF-BW-10A-20190418

Lab Sample ID: 440-239435-6

Date Collected: 04/18/19 11:24
Matrix: Water
Date Received: 04/19/19 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 15:26	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/28/19 15:26	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 15:26	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 15:26	1
Benzene	**1.1**	**J**	2.0	0.25	ug/L			04/28/19 15:26	1
Bromobenzene	ND		5.0	0.25	ug/L			04/28/19 15:26	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/28/19 15:26	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/28/19 15:26	1
Bromoform	ND		5.0	0.40	ug/L			04/28/19 15:26	1
Bromomethane	ND		5.0	0.25	ug/L			04/28/19 15:26	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/28/19 15:26	1
Chlorobenzene	**0.59**	**J**	2.0	0.25	ug/L			04/28/19 15:26	1
Chloroethane	ND		5.0	0.40	ug/L			04/28/19 15:26	1
Chloroform	**1.8**	**J**	2.0	0.25	ug/L			04/28/19 15:26	1
Chloromethane	ND		5.0	0.25	ug/L			04/28/19 15:26	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 15:26	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 15:26	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/28/19 15:26	1
Dibromomethane	ND		2.0	0.25	ug/L			04/28/19 15:26	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/28/19 15:26	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/28/19 15:26	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/28/19 15:26	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/28/19 15:26	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/28/19 15:26	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/28/19 15:26	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/28/19 15:26	1
Naphthalene	ND		5.0	0.40	ug/L			04/28/19 15:26	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/28/19 15:26	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/28/19 15:26	1
o-Xylene	ND		2.0	0.25	ug/L			04/28/19 15:26	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/28/19 15:26	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 15:26	1
Styrene	ND		2.0	0.25	ug/L			04/28/19 15:26	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 15:26	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/28/19 15:26	1
Toluene	ND		2.0	0.25	ug/L			04/28/19 15:26	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 15:26	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 15:26	1
Trichloroethene	ND		2.0	0.25	ug/L			04/28/19 15:26	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/28/19 15:26	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/28/19 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*04/28/19 15:26*	*1*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*04/28/19 15:26*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*04/28/19 15:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*04/28/19 15:26*	*1*

Client Sample Results

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239435-1
SDG: Henderson, NV

Client Sample ID: MCF-BW-10A-20190418

Lab Sample ID: 440-239435-6

Date Collected: 04/18/19 11:24
Date Received: 04/19/19 10:00

Matrix: Water

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/24/19 05:47	04/24/19 17:34	1
2,4'-DDE	ND		0.10	0.020	ug/L		04/24/19 05:47	04/24/19 17:34	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/24/19 05:47	04/24/19 17:34	1
4,4'-DDD	ND		0.10	0.0040	ug/L		04/24/19 05:47	04/24/19 17:34	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/24/19 05:47	04/24/19 17:34	1
4,4'-DDT	ND		0.10	0.0040	ug/L		04/24/19 05:47	04/24/19 17:34	1
Aldrin	ND		0.0050	0.0015	ug/L		04/24/19 05:47	04/24/19 17:34	1
alpha-BHC	ND		0.0050	0.0025	ug/L		04/24/19 05:47	04/24/19 17:34	1
beta-BHC	ND		0.010	0.0040	ug/L		04/24/19 05:47	04/24/19 17:34	1
Chlordane	ND		0.10	0.080	ug/L		04/24/19 05:47	04/24/19 17:34	1
delta-BHC	ND		0.20	0.0035	ug/L		04/24/19 05:47	04/24/19 17:34	1
Dieldrin	ND		0.0050	0.0020	ug/L		04/24/19 05:47	04/24/19 17:34	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/24/19 05:47	04/24/19 17:34	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/24/19 05:47	04/24/19 17:34	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/24/19 05:47	04/24/19 17:34	1
Endrin	ND		0.10	0.0020	ug/L		04/24/19 05:47	04/24/19 17:34	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/24/19 05:47	04/24/19 17:34	1
Endrin ketone	ND		0.10	0.0070	ug/L		04/24/19 05:47	04/24/19 17:34	1
gamma-BHC (Lindane)	ND		0.10	0.0030	ug/L		04/24/19 05:47	04/24/19 17:34	1
Heptachlor	ND		0.010	0.0030	ug/L		04/24/19 05:47	04/24/19 17:34	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/24/19 05:47	04/24/19 17:34	1
Methoxychlor	ND		0.10	0.0035	ug/L		04/24/19 05:47	04/24/19 17:34	1
Toxaphene	ND		5.0	0.25	ug/L		04/24/19 05:47	04/24/19 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*28 - 108*	*04/24/19 05:47*	*04/24/19 17:34*	*1*
Tetrachloro-m-xylene	*45*		*10 - 123*	*04/24/19 05:47*	*04/24/19 17:34*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**37000**		4000	950	ug/L			04/29/19 13:17	1000

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**43**		0.20	0.10	ug/L		04/24/19 07:54	04/24/19 13:58	1
Barium	**22**	**B**	0.20	0.10	ug/L		04/24/19 07:54	04/24/19 13:58	1
Cadmium	ND		0.10	0.050	ug/L		04/24/19 07:54	04/24/19 13:58	1
Chromium	**9.8**	**B**	0.50	0.25	ug/L		04/24/19 07:54	04/24/19 13:58	1
Lead	**0.18**		0.10	0.050	ug/L		04/24/19 07:54	04/24/19 13:58	1
Selenium	**3.2**		0.60	0.30	ug/L		04/24/19 07:54	04/24/19 13:58	1
Silver	ND		0.20	0.10	ug/L		04/24/19 07:54	04/24/19 13:58	1
Uranium	**4.3**		0.10	0.050	ug/L		04/24/19 07:54	04/24/19 13:58	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/27/19 14:35	04/27/19 19:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1600**		20	10	mg/L			04/25/19 08:11	1

Surrogate Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239435-1
SDG: Henderson, NV

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB (80-120)	DBFM (76-132)	TOL (80-128)	DCA (70-130)
440-239292-A-4 MS	Matrix Spike	91	105	102	90
440-239292-B-4 MSD	Matrix Spike Duplicate	90	106	102	90
440-239435-1	TB-20190418	90	109	103	92
440-239435-2	PL-513-20190418	91	109	104	94
440-239435-3	PL-514-20190418	89	108	102	93
440-239435-4	PL-515-20190418	90	106	102	94
440-239435-5 - DL	AA-MW-13R-20190418	91	102	104	92
440-239435-5	AA-MW-13R-20190418	92	81	104	90
440-239435-5 MS	AA-MW-13R-20190418	92	101	100	90
440-239435-5 MSD	AA-MW-13R-20190418	93	101	99	91
440-239435-6	MCF-BW-10A-20190418	89	109	102	92
LCS 440-543039/5	Lab Control Sample	91	104	100	89
LCS 440-543082/4	Lab Control Sample	90	107	98	92
MB 440-543039/6	Method Blank	90	108	105	91
MB 440-543082/5	Method Blank	91	107	104	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCB1 (28-108)	TCX1 (10-123)
440-239435-3	PL-514-20190418	60	41
440-239435-4	PL-515-20190418	62	36
440-239435-5	AA-MW-13R-20190418	69	39
440-239435-6	MCF-BW-10A-20190418	68	45
LCS 440-542172/2-A	Lab Control Sample	75	59
LCSD 440-542172/3-A	Lab Control Sample Dup	76	61
MB 440-542172/1-A	Method Blank	70	55

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239435-1
SDG: Henderson, NV

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
314.0	Perchlorate (IC)	EPA	TAL IRV
6020	Metals (ICP/MS)	SW846	TAL IRV
7470A	Mercury (CVAA)	SW846	TAL IRV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL IRV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7470A	Preparation, Mercury	SW846	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239435-1
SDG: Henderson, NV

Client Sample ID: TB-20190418 — Lab Sample ID: 440-239435-1

Date Collected: 04/18/19 06:50 — **Matrix: Water**
Date Received: 04/19/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	543039	04/28/19 13:40	TCN	TAL IRV

Client Sample ID: PL-513-20190418 — Lab Sample ID: 440-239435-2

Date Collected: 04/18/19 09:38 — **Matrix: Water**
Date Received: 04/19/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	543039	04/28/19 14:06	TCN	TAL IRV

Client Sample ID: PL-514-20190418 — Lab Sample ID: 440-239435-3

Date Collected: 04/18/19 13:15 — **Matrix: Water**
Date Received: 04/19/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	543039	04/28/19 14:33	TCN	TAL IRV
Total/NA	Prep	3510C			1020 mL	2 mL	542172	04/24/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8081A		1			542238	04/24/19 16:14	D1D	TAL IRV
Total/NA	Analysis	314.0		1			543130	04/29/19 12:16	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	542197	04/24/19 07:54	BV	TAL IRV
Total Recoverable	Analysis	6020		1			542328	04/24/19 13:36	P1R	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	542737	04/26/19 08:35	BV	TAL IRV
Total Recoverable	Analysis	6020		1			542921	04/26/19 18:54	MQP	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542906	04/27/19 14:35	EMS	TAL IRV
Total/NA	Analysis	7470A		1			543205	04/27/19 19:18	DB	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	542482	04/25/19 08:11	XL	TAL IRV

Client Sample ID: PL-515-20190418 — Lab Sample ID: 440-239435-4

Date Collected: 04/18/19 13:25 — **Matrix: Water**
Date Received: 04/19/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	543039	04/28/19 15:00	TCN	TAL IRV
Total/NA	Prep	3510C			1045 mL	2 mL	542172	04/24/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8081A		1			542238	04/24/19 16:41	D1D	TAL IRV
Total/NA	Analysis	314.0		1			543130	04/29/19 12:36	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	542197	04/24/19 07:54	BV	TAL IRV
Total Recoverable	Analysis	6020		1			542328	04/24/19 13:56	P1R	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	542737	04/26/19 08:35	BV	TAL IRV
Total Recoverable	Analysis	6020		1			542921	04/26/19 18:17	MQP	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542906	04/27/19 14:35	EMS	TAL IRV
Total/NA	Analysis	7470A		1			543205	04/27/19 19:24	DB	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	542482	04/25/19 08:11	XL	TAL IRV

Lab Chronicle

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239435-1
SDG: Henderson, NV

Client Sample ID: AA-MW-13R-20190418

Lab Sample ID: 440-239435-5

Date Collected: 04/18/19 09:38
Matrix: Water
Date Received: 04/19/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	2000	10 mL	10 mL	543082	04/28/19 22:33	P1A	TAL IRV
Total/NA	Analysis	8260B		200	10 mL	10 mL	543082	04/28/19 23:53	P1A	TAL IRV
Total/NA	Prep	3510C			1120 mL	2 mL	542172	04/24/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8081A		1			542238	04/24/19 17:08	D1D	TAL IRV
Total/NA	Analysis	314.0		50			543890	05/02/19 10:25	CTH	TAL IRV
Total Recoverable	Prep	3005A			2.5 mL	25 mL	542493	04/25/19 08:49	BV	TAL IRV
Total Recoverable	Analysis	6020		1			542715	04/25/19 22:08	B1H	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542906	04/27/19 14:35	EMS	TAL IRV
Total/NA	Analysis	7470A		2			543205	04/27/19 19:26	DB	TAL IRV
Total/NA	Analysis	SM 2540C		1	1 mL	100 mL	542482	04/25/19 08:11	XL	TAL IRV

Client Sample ID: MCF-BW-10A-20190418

Lab Sample ID: 440-239435-6

Date Collected: 04/18/19 11:24
Matrix: Water
Date Received: 04/19/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	543039	04/28/19 15:26	TCN	TAL IRV
Total/NA	Prep	3510C			995 mL	2 mL	542172	04/24/19 05:47	L1H	TAL IRV
Total/NA	Analysis	8081A		1			542238	04/24/19 17:34	D1D	TAL IRV
Total/NA	Analysis	314.0		1000			543130	04/29/19 13:17	CTH	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	542197	04/24/19 07:54	BV	TAL IRV
Total Recoverable	Analysis	6020		1			542328	04/24/19 13:58	P1R	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	542906	04/27/19 14:35	EMS	TAL IRV
Total/NA	Analysis	7470A		1			543205	04/27/19 19:28	DB	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	542482	04/25/19 08:11	XL	TAL IRV

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-543039/6
Matrix: Water
Analysis Batch: 543039

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/28/19 09:14	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/28/19 09:14	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 09:14	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/28/19 09:14	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 09:14	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/28/19 09:14	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 09:14	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/28/19 09:14	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 09:14	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 09:14	1
Benzene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
Bromobenzene	ND		5.0	0.25	ug/L			04/28/19 09:14	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/28/19 09:14	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/28/19 09:14	1
Bromoform	ND		5.0	0.40	ug/L			04/28/19 09:14	1
Bromomethane	ND		5.0	0.25	ug/L			04/28/19 09:14	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/28/19 09:14	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
Chloroethane	ND		5.0	0.40	ug/L			04/28/19 09:14	1
Chloroform	ND		2.0	0.25	ug/L			04/28/19 09:14	1
Chloromethane	ND		5.0	0.25	ug/L			04/28/19 09:14	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/28/19 09:14	1
Dibromomethane	ND		2.0	0.25	ug/L			04/28/19 09:14	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/28/19 09:14	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/28/19 09:14	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/28/19 09:14	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/28/19 09:14	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/28/19 09:14	1
Naphthalene	ND		5.0	0.40	ug/L			04/28/19 09:14	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/28/19 09:14	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/28/19 09:14	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-543039/6
Matrix: Water
Analysis Batch: 543039

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 09:14	1
Styrene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 09:14	1
Tetrachloroethene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
Toluene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
Trichloroethene	ND		2.0	0.25	ug/L			04/28/19 09:14	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/28/19 09:14	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/28/19 09:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*04/28/19 09:14*	*1*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*04/28/19 09:14*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*04/28/19 09:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*04/28/19 09:14*	*1*

Lab Sample ID: LCS 440-543039/5
Matrix: Water
Analysis Batch: 543039

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	11.0		ug/L		110	60 - 141
1,1,1-Trichloroethane	10.0	9.69		ug/L		97	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.15		ug/L		91	63 - 130
1,1,2-Trichloroethane	10.0	9.11		ug/L		91	70 - 130
1,1-Dichloroethane	10.0	9.34		ug/L		93	64 - 130
1,1-Dichloroethene	10.0	9.57		ug/L		96	70 - 130
1,1-Dichloropropene	10.0	9.05		ug/L		90	70 - 130
1,2,3-Trichlorobenzene	10.0	11.6		ug/L		116	60 - 140
1,2,3-Trichloropropane	10.0	9.04	J	ug/L		90	63 - 130
1,2,4-Trichlorobenzene	10.0	11.6		ug/L		116	60 - 140
1,2,4-Trimethylbenzene	10.0	10.3		ug/L		103	70 - 135
1,2-Dibromo-3-Chloropropane	10.0	9.43		ug/L		94	52 - 140
1,2-Dibromoethane (EDB)	10.0	8.72		ug/L		87	70 - 130
1,2-Dichlorobenzene	10.0	10.5		ug/L		105	70 - 130
1,2-Dichloroethane	10.0	8.08		ug/L		81	57 - 138
1,2-Dichloropropane	10.0	8.17		ug/L		82	67 - 130
1,3,5-Trimethylbenzene	10.0	10.4		ug/L		104	70 - 136
1,3-Dichlorobenzene	10.0	10.2		ug/L		102	70 - 130
1,3-Dichloropropane	10.0	8.26		ug/L		83	70 - 130
1,4-Dichlorobenzene	10.0	10.0		ug/L		100	70 - 130
2,2-Dichloropropane	10.0	11.0		ug/L		110	68 - 141
2-Chlorotoluene	10.0	9.87		ug/L		99	70 - 130
4-Chlorotoluene	10.0	9.68		ug/L		97	70 - 130
Benzene	10.0	9.14		ug/L		91	68 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-543039/5
Matrix: Water
Analysis Batch: 543039

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	10.0	9.88		ug/L		99	70 - 130
Bromochloromethane	10.0	10.4		ug/L		104	70 - 130
Bromodichloromethane	10.0	9.27		ug/L		93	70 - 132
Bromoform	10.0	9.37		ug/L		94	60 - 148
Bromomethane	10.0	8.11		ug/L		81	64 - 139
Carbon tetrachloride	10.0	9.58		ug/L		96	60 - 150
Chlorobenzene	10.0	9.59		ug/L		96	70 - 130
Chloroethane	10.0	7.78		ug/L		78	64 - 135
Chloroform	10.0	9.58		ug/L		96	70 - 130
Chloromethane	10.0	5.81		ug/L		58	47 - 140
cis-1,2-Dichloroethene	10.0	9.81		ug/L		98	70 - 133
cis-1,3-Dichloropropene	10.0	9.55		ug/L		96	70 - 133
Dibromochloromethane	10.0	9.67		ug/L		97	69 - 145
Dibromomethane	10.0	8.63		ug/L		86	70 - 130
Dichlorodifluoromethane	10.0	5.67		ug/L		57	29 - 150
Ethylbenzene	10.0	9.53		ug/L		95	70 - 130
Hexachlorobutadiene	10.0	11.0		ug/L		110	10 - 150
Isopropylbenzene	10.0	10.1		ug/L		101	70 - 136
m,p-Xylene	10.0	9.89		ug/L		99	70 - 130
Methylene Chloride	10.0	9.47		ug/L		95	52 - 130
Naphthalene	10.0	10.4		ug/L		104	60 - 140
n-Butylbenzene	10.0	10.3		ug/L		103	65 - 150
N-Propylbenzene	10.0	9.68		ug/L		97	67 - 139
o-Xylene	10.0	10.3		ug/L		103	70 - 130
p-Isopropyltoluene	10.0	10.5		ug/L		105	70 - 132
sec-Butylbenzene	10.0	10.1		ug/L		101	70 - 138
Styrene	10.0	9.79		ug/L		98	70 - 134
tert-Butylbenzene	10.0	9.71		ug/L		97	70 - 130
Tetrachloroethene	10.0	10.2		ug/L		102	70 - 130
Toluene	10.0	9.38		ug/L		94	70 - 130
trans-1,2-Dichloroethene	10.0	10.0		ug/L		100	70 - 130
trans-1,3-Dichloropropene	10.0	8.44		ug/L		84	70 - 132
Trichloroethene	10.0	9.29		ug/L		93	70 - 130
Trichlorofluoromethane	10.0	8.25		ug/L		82	60 - 150
Vinyl chloride	10.0	6.69		ug/L		67	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*

Lab Sample ID: 440-239292-A-4 MS
Matrix: Water
Analysis Batch: 543039

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		10.0	10.9		ug/L		109	60 - 149

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-239292-A-4 MS
Matrix: Water
Analysis Batch: 543039

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		10.0	9.35		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	ND		10.0	8.92		ug/L		89	63 - 130
1,1,2-Trichloroethane	ND		10.0	8.43		ug/L		84	70 - 130
1,1-Dichloroethane	ND		10.0	9.08		ug/L		91	65 - 130
1,1-Dichloroethene	ND		10.0	9.16		ug/L		92	70 - 130
1,1-Dichloropropene	ND		10.0	8.44		ug/L		84	64 - 130
1,2,3-Trichlorobenzene	3.8	J	10.0	14.1		ug/L		103	60 - 140
1,2,3-Trichloropropane	ND		10.0	8.40	J	ug/L		84	60 - 130
1,2,4-Trichlorobenzene	27		10.0	34.4		ug/L		77	60 - 140
1,2,4-Trimethylbenzene	ND		10.0	9.77		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	ND		10.0	8.33		ug/L		83	48 - 140
1,2-Dibromoethane (EDB)	ND		10.0	8.60		ug/L		86	70 - 131
1,2-Dichlorobenzene	ND		10.0	10.3		ug/L		103	70 - 130
1,2-Dichloroethane	ND		10.0	7.66		ug/L		77	56 - 146
1,2-Dichloropropane	ND		10.0	8.07		ug/L		81	69 - 130
1,3,5-Trimethylbenzene	ND		10.0	9.83		ug/L		98	70 - 130
1,3-Dichlorobenzene	ND		10.0	9.76		ug/L		98	70 - 130
1,3-Dichloropropane	ND		10.0	8.15		ug/L		82	70 - 130
1,4-Dichlorobenzene	ND		10.0	9.61		ug/L		96	70 - 130
2,2-Dichloropropane	ND		10.0	10.8		ug/L		108	69 - 138
2-Chlorotoluene	ND		10.0	9.49		ug/L		95	70 - 130
4-Chlorotoluene	ND		10.0	9.13		ug/L		91	70 - 130
Benzene	ND		10.0	8.61		ug/L		86	66 - 130
Bromobenzene	ND		10.0	9.54		ug/L		95	70 - 130
Bromochloromethane	ND		10.0	9.83		ug/L		98	70 - 130
Bromodichloromethane	ND		10.0	8.55		ug/L		86	70 - 138
Bromoform	ND		10.0	8.76		ug/L		88	59 - 150
Bromomethane	ND		10.0	7.78		ug/L		78	62 - 131
Carbon tetrachloride	ND		10.0	9.07		ug/L		91	60 - 150
Chlorobenzene	ND		10.0	9.40		ug/L		94	70 - 130
Chloroethane	ND		10.0	7.51		ug/L		75	68 - 130
Chloroform	2.1		10.0	11.1		ug/L		90	70 - 130
Chloromethane	ND		10.0	5.54		ug/L		55	39 - 144
cis-1,2-Dichloroethene	ND		10.0	9.42		ug/L		94	70 - 130
cis-1,3-Dichloropropene	ND		10.0	9.15		ug/L		91	70 - 133
Dibromochloromethane	ND		10.0	9.10		ug/L		91	70 - 148
Dibromomethane	ND		10.0	8.45		ug/L		85	70 - 130
Dichlorodifluoromethane	ND		10.0	5.41		ug/L		54	25 - 142
Ethylbenzene	ND		10.0	9.15		ug/L		92	70 - 130
Hexachlorobutadiene	ND		10.0	10.3		ug/L		103	10 - 150
Isopropylbenzene	ND		10.0	9.91		ug/L		99	70 - 132
m,p-Xylene	ND		10.0	9.57		ug/L		96	70 - 133
Methylene Chloride	ND		10.0	9.29		ug/L		93	52 - 130
Naphthalene	ND		10.0	9.86		ug/L		99	60 - 140
n-Butylbenzene	ND		10.0	9.63		ug/L		96	61 - 149
N-Propylbenzene	ND		10.0	9.24		ug/L		92	66 - 135
o-Xylene	ND		10.0	10.2		ug/L		102	70 - 133
p-Isopropyltoluene	ND		10.0	9.90		ug/L		99	70 - 130
sec-Butylbenzene	ND		10.0	9.50		ug/L		95	67 - 134

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-239292-A-4 MS
Matrix: Water
Analysis Batch: 543039

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	ND		10.0	9.22		ug/L		92	29 - 150
tert-Butylbenzene	ND		10.0	9.30		ug/L		93	70 - 130
Tetrachloroethene	ND		10.0	10.1		ug/L		101	70 - 137
Toluene	ND		10.0	9.12		ug/L		91	70 - 130
trans-1,2-Dichloroethene	ND		10.0	9.48		ug/L		95	70 - 130
trans-1,3-Dichloropropene	ND		10.0	8.03		ug/L		80	70 - 138
Trichloroethene	ND		10.0	8.96		ug/L		90	70 - 130
Trichlorofluoromethane	ND		10.0	7.94		ug/L		79	60 - 150
Vinyl chloride	ND		10.0	6.61		ug/L		66	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
Toluene-d8 (Surr)	*102*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*

Lab Sample ID: 440-239292-B-4 MSD
Matrix: Water
Analysis Batch: 543039

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		10.0	11.4		ug/L		114	60 - 149	5	20
1,1,1-Trichloroethane	ND		10.0	9.82		ug/L		98	70 - 130	5	20
1,1,2,2-Tetrachloroethane	ND		10.0	9.04		ug/L		90	63 - 130	1	30
1,1,2-Trichloroethane	ND		10.0	8.90		ug/L		89	70 - 130	5	25
1,1-Dichloroethane	ND		10.0	9.82		ug/L		98	65 - 130	8	20
1,1-Dichloroethene	ND		10.0	9.64		ug/L		96	70 - 130	5	20
1,1-Dichloropropene	ND		10.0	8.99		ug/L		90	64 - 130	6	20
1,2,3-Trichlorobenzene	3.8	J	10.0	15.2		ug/L		114	60 - 140	7	20
1,2,3-Trichloropropane	ND		10.0	8.89	J	ug/L		89	60 - 130	6	30
1,2,4-Trichlorobenzene	27		10.0	35.6		ug/L		88	60 - 140	3	20
1,2,4-Trimethylbenzene	ND		10.0	10.3		ug/L		103	70 - 130	5	25
1,2-Dibromo-3-Chloropropane	ND		10.0	8.86		ug/L		89	48 - 140	6	30
1,2-Dibromoethane (EDB)	ND		10.0	8.91		ug/L		89	70 - 131	4	25
1,2-Dichlorobenzene	ND		10.0	10.8		ug/L		108	70 - 130	5	20
1,2-Dichloroethane	ND		10.0	8.22		ug/L		82	56 - 146	7	20
1,2-Dichloropropane	ND		10.0	8.49		ug/L		85	69 - 130	5	20
1,3,5-Trimethylbenzene	ND		10.0	10.3		ug/L		103	70 - 130	5	20
1,3-Dichlorobenzene	ND		10.0	10.4		ug/L		104	70 - 130	6	20
1,3-Dichloropropane	ND		10.0	8.57		ug/L		86	70 - 130	5	25
1,4-Dichlorobenzene	ND		10.0	10.2		ug/L		102	70 - 130	6	20
2,2-Dichloropropane	ND		10.0	11.8		ug/L		118	69 - 138	9	25
2-Chlorotoluene	ND		10.0	10.0		ug/L		100	70 - 130	5	20
4-Chlorotoluene	ND		10.0	9.59		ug/L		96	70 - 130	5	20
Benzene	ND		10.0	9.39		ug/L		94	66 - 130	9	20
Bromobenzene	ND		10.0	9.95		ug/L		100	70 - 130	4	20
Bromochloromethane	ND		10.0	10.5		ug/L		105	70 - 130	6	25
Bromodichloromethane	ND		10.0	9.24		ug/L		92	70 - 138	8	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-239292-B-4 MSD
Matrix: Water
Analysis Batch: 543039

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		10.0	9.30		ug/L		93	59 - 150	6	25
Bromomethane	ND		10.0	8.22		ug/L		82	62 - 131	6	25
Carbon tetrachloride	ND		10.0	9.86		ug/L		99	60 - 150	8	25
Chlorobenzene	ND		10.0	9.77		ug/L		98	70 - 130	4	20
Chloroethane	ND		10.0	7.90		ug/L		79	68 - 130	5	25
Chloroform	2.1		10.0	12.1		ug/L		99	70 - 130	8	20
Chloromethane	ND		10.0	5.80		ug/L		58	39 - 144	4	25
cis-1,2-Dichloroethene	ND		10.0	10.3		ug/L		103	70 - 130	9	20
cis-1,3-Dichloropropene	ND		10.0	9.53		ug/L		95	70 - 133	4	20
Dibromochloromethane	ND		10.0	9.86		ug/L		99	70 - 148	8	25
Dibromomethane	ND		10.0	8.56		ug/L		86	70 - 130	1	25
Dichlorodifluoromethane	ND		10.0	5.68		ug/L		57	25 - 142	5	30
Ethylbenzene	ND		10.0	9.66		ug/L		97	70 - 130	5	20
Hexachlorobutadiene	ND		10.0	10.9		ug/L		109	10 - 150	5	20
Isopropylbenzene	ND		10.0	10.5		ug/L		105	70 - 132	6	20
m,p-Xylene	ND		10.0	10.0		ug/L		100	70 - 133	5	25
Methylene Chloride	ND		10.0	10.1		ug/L		101	52 - 130	8	20
Naphthalene	ND		10.0	10.6		ug/L		106	60 - 140	8	30
n-Butylbenzene	ND		10.0	10.3		ug/L		103	61 - 149	7	20
N-Propylbenzene	ND		10.0	9.70		ug/L		97	66 - 135	5	20
o-Xylene	ND		10.0	10.8		ug/L		108	70 - 133	6	20
p-Isopropyltoluene	ND		10.0	10.7		ug/L		107	70 - 130	8	20
sec-Butylbenzene	ND		10.0	10.1		ug/L		101	67 - 134	6	20
Styrene	ND		10.0	9.61		ug/L		96	29 - 150	4	35
tert-Butylbenzene	ND		10.0	9.78		ug/L		98	70 - 130	5	20
Tetrachloroethene	ND		10.0	10.4		ug/L		104	70 - 137	3	20
Toluene	ND		10.0	9.40		ug/L		94	70 - 130	3	20
trans-1,2-Dichloroethene	ND		10.0	10.3		ug/L		103	70 - 130	9	20
trans-1,3-Dichloropropene	ND		10.0	8.53		ug/L		85	70 - 138	6	25
Trichloroethene	ND		10.0	9.63		ug/L		96	70 - 130	7	20
Trichlorofluoromethane	ND		10.0	8.43		ug/L		84	60 - 150	6	25
Vinyl chloride	ND		10.0	6.94		ug/L		69	50 - 137	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*76 - 132*
Toluene-d8 (Surr)	*102*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*

Lab Sample ID: MB 440-543082/5
Matrix: Water
Analysis Batch: 543082

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			04/28/19 22:07	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 22:07	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			04/28/19 22:07	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			04/28/19 22:07	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-543082/5
Matrix: Water
Analysis Batch: 543082

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 22:07	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			04/28/19 22:07	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 22:07	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 22:07	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			04/28/19 22:07	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			04/28/19 22:07	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 22:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			04/28/19 22:07	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			04/28/19 22:07	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 22:07	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			04/28/19 22:07	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 22:07	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			04/28/19 22:07	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 22:07	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			04/28/19 22:07	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			04/28/19 22:07	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			04/28/19 22:07	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 22:07	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			04/28/19 22:07	1
Benzene	ND		2.0	0.25	ug/L			04/28/19 22:07	1
Bromobenzene	ND		5.0	0.25	ug/L			04/28/19 22:07	1
Bromochloromethane	ND		5.0	0.25	ug/L			04/28/19 22:07	1
Bromodichloromethane	ND		2.0	0.25	ug/L			04/28/19 22:07	1
Bromoform	ND		5.0	0.40	ug/L			04/28/19 22:07	1
Bromomethane	ND		5.0	0.25	ug/L			04/28/19 22:07	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			04/28/19 22:07	1
Chlorobenzene	ND		2.0	0.25	ug/L			04/28/19 22:07	1
Chloroethane	ND		5.0	0.40	ug/L			04/28/19 22:07	1
Chloroform	ND		2.0	0.25	ug/L			04/28/19 22:07	1
Chloromethane	ND		5.0	0.25	ug/L			04/28/19 22:07	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 22:07	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 22:07	1
Dibromochloromethane	ND		2.0	0.25	ug/L			04/28/19 22:07	1
Dibromomethane	ND		2.0	0.25	ug/L			04/28/19 22:07	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			04/28/19 22:07	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			04/28/19 22:07	1
Ethylbenzene	ND		2.0	0.25	ug/L			04/28/19 22:07	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			04/28/19 22:07	1
Isopropylbenzene	ND		2.0	0.25	ug/L			04/28/19 22:07	1
m,p-Xylene	ND		2.0	0.50	ug/L			04/28/19 22:07	1
Methylene Chloride	ND		2.0	1.1	ug/L			04/28/19 22:07	1
Naphthalene	ND		5.0	0.40	ug/L			04/28/19 22:07	1
n-Butylbenzene	ND		5.0	0.40	ug/L			04/28/19 22:07	1
N-Propylbenzene	ND		2.0	0.25	ug/L			04/28/19 22:07	1
o-Xylene	ND		2.0	0.25	ug/L			04/28/19 22:07	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			04/28/19 22:07	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 22:07	1
Styrene	ND		2.0	0.25	ug/L			04/28/19 22:07	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			04/28/19 22:07	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-543082/5
Matrix: Water
Analysis Batch: 543082

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		2.0	0.25	ug/L			04/28/19 22:07	1
Toluene	ND		2.0	0.25	ug/L			04/28/19 22:07	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			04/28/19 22:07	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			04/28/19 22:07	1
Trichloroethene	ND		2.0	0.25	ug/L			04/28/19 22:07	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			04/28/19 22:07	1
Vinyl chloride	ND		5.0	0.25	ug/L			04/28/19 22:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*04/28/19 22:07*	*1*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*04/28/19 22:07*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*04/28/19 22:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*04/28/19 22:07*	*1*

Lab Sample ID: LCS 440-543082/4
Matrix: Water
Analysis Batch: 543082

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	12.4		ug/L		124	60 - 141
1,1,1-Trichloroethane	10.0	11.3		ug/L		113	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.83		ug/L		98	63 - 130
1,1,2-Trichloroethane	10.0	9.95		ug/L		99	70 - 130
1,1-Dichloroethane	10.0	11.4		ug/L		114	64 - 130
1,1-Dichloroethene	10.0	11.9		ug/L		119	70 - 130
1,1-Dichloropropene	10.0	10.6		ug/L		106	70 - 130
1,2,3-Trichlorobenzene	10.0	12.4		ug/L		124	60 - 140
1,2,3-Trichloropropane	10.0	9.92	J	ug/L		99	63 - 130
1,2,4-Trichlorobenzene	10.0	12.4		ug/L		124	60 - 140
1,2,4-Trimethylbenzene	10.0	11.2		ug/L		112	70 - 135
1,2-Dibromo-3-Chloropropane	10.0	9.52		ug/L		95	52 - 140
1,2-Dibromoethane (EDB)	10.0	9.86		ug/L		99	70 - 130
1,2-Dichlorobenzene	10.0	12.0		ug/L		120	70 - 130
1,2-Dichloroethane	10.0	9.55		ug/L		95	57 - 138
1,2-Dichloropropane	10.0	9.72		ug/L		97	67 - 130
1,3,5-Trimethylbenzene	10.0	11.5		ug/L		115	70 - 136
1,3-Dichlorobenzene	10.0	11.3		ug/L		113	70 - 130
1,3-Dichloropropane	10.0	9.68		ug/L		97	70 - 130
1,4-Dichlorobenzene	10.0	11.0		ug/L		110	70 - 130
2,2-Dichloropropane	10.0	11.5		ug/L		115	68 - 141
2-Chlorotoluene	10.0	11.1		ug/L		111	70 - 130
4-Chlorotoluene	10.0	10.6		ug/L		106	70 - 130
Benzene	10.0	10.8		ug/L		108	68 - 130
Bromobenzene	10.0	10.9		ug/L		109	70 - 130
Bromochloromethane	10.0	12.4		ug/L		124	70 - 130
Bromodichloromethane	10.0	10.1		ug/L		101	70 - 132
Bromoform	10.0	9.96		ug/L		100	60 - 148
Bromomethane	10.0	11.4		ug/L		114	64 - 139

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-543082/4
Matrix: Water
Analysis Batch: 543082

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	10.0	11.4		ug/L		114	60 - 150
Chlorobenzene	10.0	10.7		ug/L		107	70 - 130
Chloroethane	10.0	10.9		ug/L		109	64 - 135
Chloroform	10.0	11.4		ug/L		114	70 - 130
Chloromethane	10.0	9.12		ug/L		91	47 - 140
cis-1,2-Dichloroethene	10.0	11.6		ug/L		116	70 - 133
cis-1,3-Dichloropropene	10.0	10.5		ug/L		105	70 - 133
Dibromochloromethane	10.0	10.7		ug/L		107	69 - 145
Dibromomethane	10.0	9.95		ug/L		100	70 - 130
Dichlorodifluoromethane	10.0	11.0		ug/L		110	29 - 150
Ethylbenzene	10.0	10.5		ug/L		105	70 - 130
Hexachlorobutadiene	10.0	11.1		ug/L		111	10 - 150
Isopropylbenzene	10.0	11.3		ug/L		113	70 - 136
m,p-Xylene	10.0	11.0		ug/L		110	70 - 130
Methylene Chloride	10.0	11.8		ug/L		118	52 - 130
Naphthalene	10.0	11.2		ug/L		112	60 - 140
n-Butylbenzene	10.0	11.0		ug/L		110	65 - 150
N-Propylbenzene	10.0	10.9		ug/L		109	67 - 139
o-Xylene	10.0	11.7		ug/L		117	70 - 130
p-Isopropyltoluene	10.0	11.5		ug/L		115	70 - 132
sec-Butylbenzene	10.0	11.0		ug/L		110	70 - 138
Styrene	10.0	11.0		ug/L		110	70 - 134
tert-Butylbenzene	10.0	10.8		ug/L		108	70 - 130
Tetrachloroethene	10.0	11.4		ug/L		114	70 - 130
Toluene	10.0	10.6		ug/L		106	70 - 130
trans-1,2-Dichloroethene	10.0	12.3		ug/L		123	70 - 130
trans-1,3-Dichloropropene	10.0	9.79		ug/L		98	70 - 132
Trichloroethene	10.0	11.0		ug/L		110	70 - 130
Trichlorofluoromethane	10.0	10.8		ug/L		108	60 - 150
Vinyl chloride	10.0	9.94		ug/L		99	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*76 - 132*
Toluene-d8 (Surr)	*98*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*

Lab Sample ID: 440-239435-5 MS
Matrix: Water
Analysis Batch: 543082

Client Sample ID: AA-MW-13R-20190418
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		25000	29100		ug/L		116	60 - 149
1,1,1-Trichloroethane	ND		25000	27900		ug/L		112	70 - 130
1,1,2,2-Tetrachloroethane	ND	F2 F1	25000	9950	F1	ug/L		40	63 - 130
1,1,2-Trichloroethane	ND		25000	22700		ug/L		91	70 - 130
1,1-Dichloroethane	ND		25000	26800		ug/L		107	65 - 130
1,1-Dichloroethene	ND		25000	29400		ug/L		118	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-239435-5 MS
Matrix: Water
Analysis Batch: 543082

Client Sample ID: AA-MW-13R-20190418
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloropropene	ND		25000	26800		ug/L		107	64 - 130
1,2,3-Trichlorobenzene	ND		25000	29300		ug/L		117	60 - 140
1,2,3-Trichloropropane	ND		25000	22300		ug/L		89	60 - 130
1,2,4-Trichlorobenzene	ND		25000	31000		ug/L		124	60 - 140
1,2,4-Trimethylbenzene	ND		25000	27600		ug/L		110	70 - 130
1,2-Dibromo-3-Chloropropane	ND		25000	21600		ug/L		86	48 - 140
1,2-Dibromoethane (EDB)	ND		25000	22700		ug/L		91	70 - 131
1,2-Dichlorobenzene	1600	J	25000	30300		ug/L		115	70 - 130
1,2-Dichloroethane	ND		25000	21900		ug/L		88	56 - 146
1,2-Dichloropropane	ND		25000	22500		ug/L		90	69 - 130
1,3,5-Trimethylbenzene	ND		25000	28700		ug/L		115	70 - 130
1,3-Dichlorobenzene	ND		25000	27500		ug/L		110	70 - 130
1,3-Dichloropropane	ND		25000	22000		ug/L		88	70 - 130
1,4-Dichlorobenzene	2000	J	25000	28900		ug/L		108	70 - 130
2,2-Dichloropropane	ND		25000	30000		ug/L		120	69 - 138
2-Chlorotoluene	ND		25000	26800		ug/L		107	70 - 130
4-Chlorotoluene	ND		25000	25900		ug/L		104	70 - 130
Benzene	38000	F1	25000	61700		ug/L		94	66 - 130
Bromobenzene	ND		25000	26500		ug/L		106	70 - 130
Bromochloromethane	ND		25000	28000		ug/L		112	70 - 130
Bromodichloromethane	ND		25000	23700		ug/L		95	70 - 138
Bromoform	ND		25000	23500		ug/L		94	59 - 150
Bromomethane	ND		25000	26600		ug/L		106	62 - 131
Carbon tetrachloride	ND		25000	28400		ug/L		114	60 - 150
Chlorobenzene	9800		25000	34400		ug/L		99	70 - 130
Chloroethane	ND		25000	26000		ug/L		104	68 - 130
Chloroform	ND		25000	26400		ug/L		106	70 - 130
Chloromethane	ND		25000	21400		ug/L		86	39 - 144
cis-1,2-Dichloroethene	ND		25000	27100		ug/L		108	70 - 130
cis-1,3-Dichloropropene	ND		25000	25200		ug/L		101	70 - 133
Dibromochloromethane	ND		25000	24600		ug/L		98	70 - 148
Dibromomethane	ND		25000	22700		ug/L		91	70 - 130
Dichlorodifluoromethane	ND		25000	28300		ug/L		113	25 - 142
Ethylbenzene	ND		25000	25700		ug/L		103	70 - 130
Hexachlorobutadiene	ND		25000	28500		ug/L		114	10 - 150
Isopropylbenzene	ND		25000	27300		ug/L		109	70 - 132
m,p-Xylene	ND		25000	26600		ug/L		107	70 - 133
Methylene Chloride	ND		25000	26600		ug/L		106	52 - 130
Naphthalene	ND		25000	26400		ug/L		105	60 - 140
n-Butylbenzene	ND		25000	27900		ug/L		111	61 - 149
N-Propylbenzene	ND		25000	27200		ug/L		109	66 - 135
o-Xylene	ND		25000	27600		ug/L		111	70 - 133
p-Isopropyltoluene	ND		25000	29700		ug/L		119	70 - 130
sec-Butylbenzene	ND		25000	28400		ug/L		113	67 - 134
Styrene	ND		25000	26000		ug/L		104	29 - 150
tert-Butylbenzene	ND		25000	28000		ug/L		112	70 - 130
Tetrachloroethene	ND		25000	29200		ug/L		117	70 - 137
Toluene	ND		25000	25500		ug/L		102	70 - 130
trans-1,2-Dichloroethene	ND		25000	29500		ug/L		118	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-239435-5 MS
Matrix: Water
Analysis Batch: 543082

Client Sample ID: AA-MW-13R-20190418
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	ND		25000	23400		ug/L		93	70 - 138
Trichloroethene	ND	F1	25000	40200	F1	ug/L		161	70 - 130
Trichlorofluoromethane	ND		25000	26900		ug/L		108	60 - 150
Vinyl chloride	ND		25000	24600		ug/L		98	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*

Lab Sample ID: 440-239435-5 MSD
Matrix: Water
Analysis Batch: 543082

Client Sample ID: AA-MW-13R-20190418
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25000	28600		ug/L		114	60 - 149	2	20
1,1,1-Trichloroethane	ND		25000	27900		ug/L		112	70 - 130	0	20
1,1,2,2-Tetrachloroethane	ND	F2 F1	25000	7010	F2 F1	ug/L		28	63 - 130	35	30
1,1,2-Trichloroethane	ND		25000	21900		ug/L		88	70 - 130	4	25
1,1-Dichloroethane	ND		25000	27100		ug/L		108	65 - 130	1	20
1,1-Dichloroethene	ND		25000	29100		ug/L		117	70 - 130	1	20
1,1-Dichloropropene	ND		25000	26900		ug/L		108	64 - 130	0	20
1,2,3-Trichlorobenzene	ND		25000	28400		ug/L		113	60 - 140	3	20
1,2,3-Trichloropropane	ND		25000	22000		ug/L		88	60 - 130	1	30
1,2,4-Trichlorobenzene	ND		25000	30000		ug/L		120	60 - 140	3	20
1,2,4-Trimethylbenzene	ND		25000	27000		ug/L		108	70 - 130	2	25
1,2-Dibromo-3-Chloropropane	ND		25000	22300		ug/L		89	48 - 140	3	30
1,2-Dibromoethane (EDB)	ND		25000	22300		ug/L		89	70 - 131	2	25
1,2-Dichlorobenzene	1600	J	25000	29700		ug/L		112	70 - 130	2	20
1,2-Dichloroethane	ND		25000	21700		ug/L		87	56 - 146	1	20
1,2-Dichloropropane	ND		25000	22100		ug/L		88	69 - 130	2	20
1,3,5-Trimethylbenzene	ND		25000	28000		ug/L		112	70 - 130	2	20
1,3-Dichlorobenzene	ND		25000	27000		ug/L		108	70 - 130	2	20
1,3-Dichloropropane	ND		25000	21500		ug/L		86	70 - 130	2	25
1,4-Dichlorobenzene	2000	J	25000	28200		ug/L		105	70 - 130	3	20
2,2-Dichloropropane	ND		25000	29900		ug/L		120	69 - 138	0	25
2-Chlorotoluene	ND		25000	26500		ug/L		106	70 - 130	1	20
4-Chlorotoluene	ND		25000	25900		ug/L		103	70 - 130	0	20
Benzene	38000	F1	25000	62900		ug/L		98	66 - 130	2	20
Bromobenzene	ND		25000	26000		ug/L		104	70 - 130	2	20
Bromochloromethane	ND		25000	28600		ug/L		114	70 - 130	2	25
Bromodichloromethane	ND		25000	23600		ug/L		94	70 - 138	1	20
Bromoform	ND		25000	23100		ug/L		92	59 - 150	2	25
Bromomethane	ND		25000	26100		ug/L		104	62 - 131	2	25
Carbon tetrachloride	ND		25000	28000		ug/L		112	60 - 150	1	25
Chlorobenzene	9800		25000	34100		ug/L		97	70 - 130	1	20
Chloroethane	ND		25000	26100		ug/L		104	68 - 130	0	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-239435-5 MSD
Matrix: Water
Analysis Batch: 543082

Client Sample ID: AA-MW-13R-20190418
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform	ND		25000	26500		ug/L		106	70 - 130	0	20
Chloromethane	ND		25000	21800		ug/L		87	39 - 144	2	25
cis-1,2-Dichloroethene	ND		25000	26800		ug/L		107	70 - 130	1	20
cis-1,3-Dichloropropene	ND		25000	24600		ug/L		99	70 - 133	2	20
Dibromochloromethane	ND		25000	24200		ug/L		97	70 - 148	2	25
Dibromomethane	ND		25000	22500		ug/L		90	70 - 130	1	25
Dichlorodifluoromethane	ND		25000	27600		ug/L		110	25 - 142	2	30
Ethylbenzene	ND		25000	25000		ug/L		100	70 - 130	3	20
Hexachlorobutadiene	ND		25000	27600		ug/L		110	10 - 150	3	20
Isopropylbenzene	ND		25000	26900		ug/L		107	70 - 132	2	20
m,p-Xylene	ND		25000	26200		ug/L		105	70 - 133	2	25
Methylene Chloride	ND		25000	26600		ug/L		107	52 - 130	0	20
Naphthalene	ND		25000	25200		ug/L		101	60 - 140	5	30
n-Butylbenzene	ND		25000	27800		ug/L		111	61 - 149	0	20
N-Propylbenzene	ND		25000	26800		ug/L		107	66 - 135	2	20
o-Xylene	ND		25000	27400		ug/L		109	70 - 133	1	20
p-Isopropyltoluene	ND		25000	29100		ug/L		116	70 - 130	2	20
sec-Butylbenzene	ND		25000	27600		ug/L		110	67 - 134	3	20
Styrene	ND		25000	25400		ug/L		102	29 - 150	2	35
tert-Butylbenzene	ND		25000	27300		ug/L		109	70 - 130	3	20
Tetrachloroethene	ND		25000	27700		ug/L		111	70 - 137	5	20
Toluene	ND		25000	25000		ug/L		100	70 - 130	2	20
trans-1,2-Dichloroethene	ND		25000	29000		ug/L		116	70 - 130	1	20
trans-1,3-Dichloropropene	ND		25000	23000		ug/L		92	70 - 138	2	25
Trichloroethene	ND	F1	25000	42500	F1	ug/L		170	70 - 130	6	20
Trichlorofluoromethane	ND		25000	26500		ug/L		106	60 - 150	2	25
Vinyl chloride	ND		25000	24000		ug/L		96	50 - 137	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*76 - 132*
Toluene-d8 (Surr)	*99*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-542172/1-A
Matrix: Water
Analysis Batch: 542238

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 542172

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		04/24/19 05:47	04/24/19 14:54	1
2,4'-DDE	ND		0.10	0.020	ug/L		04/24/19 05:47	04/24/19 14:54	1
2,4'-DDT	ND		0.10	0.020	ug/L		04/24/19 05:47	04/24/19 14:54	1
4,4'-DDD	ND		0.10	0.0040	ug/L		04/24/19 05:47	04/24/19 14:54	1
4,4'-DDE	ND		0.10	0.0030	ug/L		04/24/19 05:47	04/24/19 14:54	1
4,4'-DDT	ND		0.10	0.0040	ug/L		04/24/19 05:47	04/24/19 14:54	1
Aldrin	ND		0.0050	0.0015	ug/L		04/24/19 05:47	04/24/19 14:54	1
alpha-BHC	ND		0.0050	0.0025	ug/L		04/24/19 05:47	04/24/19 14:54	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 440-542172/1-A
Matrix: Water
Analysis Batch: 542238

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 542172

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	ND		0.010	0.0040	ug/L		04/24/19 05:47	04/24/19 14:54	1
Chlordane	ND		0.10	0.080	ug/L		04/24/19 05:47	04/24/19 14:54	1
delta-BHC	ND		0.20	0.0035	ug/L		04/24/19 05:47	04/24/19 14:54	1
Dieldrin	ND		0.0050	0.0020	ug/L		04/24/19 05:47	04/24/19 14:54	1
Endosulfan I	ND		0.10	0.0030	ug/L		04/24/19 05:47	04/24/19 14:54	1
Endosulfan II	ND		0.10	0.0020	ug/L		04/24/19 05:47	04/24/19 14:54	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		04/24/19 05:47	04/24/19 14:54	1
Endrin	ND		0.10	0.0020	ug/L		04/24/19 05:47	04/24/19 14:54	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		04/24/19 05:47	04/24/19 14:54	1
Endrin ketone	ND		0.10	0.0070	ug/L		04/24/19 05:47	04/24/19 14:54	1
gamma-BHC (Lindane)	ND		0.10	0.0030	ug/L		04/24/19 05:47	04/24/19 14:54	1
Heptachlor	ND		0.010	0.0030	ug/L		04/24/19 05:47	04/24/19 14:54	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		04/24/19 05:47	04/24/19 14:54	1
Methoxychlor	ND		0.10	0.0035	ug/L		04/24/19 05:47	04/24/19 14:54	1
Toxaphene	ND		5.0	0.25	ug/L		04/24/19 05:47	04/24/19 14:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*28 - 108*	*04/24/19 05:47*	*04/24/19 14:54*	*1*
Tetrachloro-m-xylene	*55*		*10 - 123*	*04/24/19 05:47*	*04/24/19 14:54*	*1*

Lab Sample ID: LCS 440-542172/2-A
Matrix: Water
Analysis Batch: 542238

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 542172

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4'-DDD	0.250	0.199		ug/L		79	10 - 150
2,4'-DDE	0.250	0.186		ug/L		74	10 - 150
2,4'-DDT	0.250	0.221		ug/L		88	10 - 150
4,4'-DDD	0.250	0.213		ug/L		85	50 - 128
4,4'-DDE	0.250	0.199		ug/L		79	49 - 121
4,4'-DDT	0.250	0.239		ug/L		96	41 - 140
Aldrin	0.250	0.169		ug/L		67	37 - 115
alpha-BHC	0.250	0.201		ug/L		80	44 - 115
beta-BHC	0.250	0.192		ug/L		77	46 - 121
delta-BHC	0.250	0.205		ug/L		82	32 - 129
Dieldrin	0.250	0.199		ug/L		80	39 - 126
Endosulfan I	0.250	0.192		ug/L		77	47 - 115
Endosulfan II	0.250	0.196		ug/L		78	47 - 120
Endosulfan sulfate	0.250	0.204		ug/L		82	48 - 126
Endrin	0.250	0.204		ug/L		82	43 - 127
Endrin aldehyde	0.250	0.189		ug/L		76	43 - 120
Endrin ketone	0.250	0.212		ug/L		85	47 - 123
gamma-BHC (Lindane)	0.250	0.205		ug/L		82	45 - 116
Heptachlor	0.250	0.203		ug/L		81	37 - 115
Heptachlor epoxide	0.250	0.196		ug/L		79	41 - 129
Methoxychlor	0.250	0.256		ug/L		102	44 - 141

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-542172/2-A
Matrix: Water
Analysis Batch: 542238

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 542172

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	75		28 - 108
Tetrachloro-m-xylene	59		10 - 123

Lab Sample ID: LCSD 440-542172/3-A
Matrix: Water
Analysis Batch: 542238

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 542172

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4'-DDD	0.250	0.204		ug/L		82	10 - 150	3	26
2,4'-DDE	0.250	0.190		ug/L		76	10 - 150	2	35
2,4'-DDT	0.250	0.228		ug/L		91	10 - 150	3	35
4,4'-DDD	0.250	0.219		ug/L		88	50 - 128	3	26
4,4'-DDE	0.250	0.203		ug/L		81	49 - 121	2	22
4,4'-DDT	0.250	0.245		ug/L		98	41 - 140	3	20
Aldrin	0.250	0.172		ug/L		69	37 - 115	2	24
alpha-BHC	0.250	0.206		ug/L		83	44 - 115	3	26
beta-BHC	0.250	0.198		ug/L		79	46 - 121	3	27
delta-BHC	0.250	0.211		ug/L		84	32 - 129	3	35
Dieldrin	0.250	0.204		ug/L		82	39 - 126	2	35
Endosulfan I	0.250	0.196		ug/L		79	47 - 115	2	27
Endosulfan II	0.250	0.201		ug/L		80	47 - 120	2	29
Endosulfan sulfate	0.250	0.209		ug/L		84	48 - 126	2	26
Endrin	0.250	0.209		ug/L		84	43 - 127	3	35
Endrin aldehyde	0.250	0.193		ug/L		77	43 - 120	2	35
Endrin ketone	0.250	0.217		ug/L		87	47 - 123	2	27
gamma-BHC (Lindane)	0.250	0.210		ug/L		84	45 - 116	3	28
Heptachlor	0.250	0.208		ug/L		83	37 - 115	3	35
Heptachlor epoxide	0.250	0.201		ug/L		80	41 - 129	2	35
Methoxychlor	0.250	0.262		ug/L		105	44 - 141	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	76		28 - 108
Tetrachloro-m-xylene	61		10 - 123

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 440-543130/6
Matrix: Water
Analysis Batch: 543130

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			04/29/19 10:19	1

Lab Sample ID: LCS 440-543130/5
Matrix: Water
Analysis Batch: 543130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	25.0	25.0		ug/L		100	85 - 115

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MRL 440-543130/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 543130

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			1.00	ND		ug/L		89	75 - 125		

Lab Sample ID: 440-239949-D-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 543130

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate	8.3		25.0	33.0		ug/L		99	80 - 120		

Lab Sample ID: 440-239949-D-1 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 543130

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	8.3		25.0	33.6		ug/L		101	80 - 120	2	15

Lab Sample ID: MB 440-543890/7 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 543890

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			05/02/19 09:55	1

Lab Sample ID: LCS 440-543890/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 543890

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			25.0	24.3		ug/L		97	85 - 115		

Lab Sample ID: MRL 440-543890/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 543890

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			1.00	ND		ug/L		83	75 - 125		

Lab Sample ID: 440-240202-F-3 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 543890

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate	4.9		25.0	31.4		ug/L		106	80 - 120		

Lab Sample ID: 440-240202-F-3 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 543890

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	4.9		25.0	31.8		ug/L		108	80 - 120	1	15

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 440-542197/1-A
Matrix: Water
Analysis Batch: 542328

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 542197

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.10	ug/L		04/24/19 07:54	04/24/19 13:31	1
Barium	0.318		0.20	0.10	ug/L		04/24/19 07:54	04/24/19 13:31	1
Cadmium	ND		0.10	0.050	ug/L		04/24/19 07:54	04/24/19 13:31	1
Chromium	0.632		0.50	0.25	ug/L		04/24/19 07:54	04/24/19 13:31	1
Lead	ND		0.10	0.050	ug/L		04/24/19 07:54	04/24/19 13:31	1
Selenium	ND		0.60	0.30	ug/L		04/24/19 07:54	04/24/19 13:31	1
Silver	ND		0.20	0.10	ug/L		04/24/19 07:54	04/24/19 13:31	1
Uranium	ND		0.10	0.050	ug/L		04/24/19 07:54	04/24/19 13:31	1

Lab Sample ID: LCS 440-542197/2-A
Matrix: Water
Analysis Batch: 542328

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 542197

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	80.0	78.0		ug/L		97	80 - 120
Barium	80.0	79.9		ug/L		100	80 - 120
Cadmium	80.0	80.6		ug/L		101	80 - 120
Chromium	80.0	79.2		ug/L		99	80 - 120
Lead	80.0	77.9		ug/L		97	80 - 120
Selenium	80.0	79.3		ug/L		99	80 - 120
Silver	80.0	78.3		ug/L		98	80 - 120
Uranium	80.0	79.5		ug/L		99	80 - 120

Lab Sample ID: 440-239435-3 MS
Matrix: Water
Analysis Batch: 542328

Client Sample ID: PL-514-20190418
Prep Type: Total Recoverable
Prep Batch: 542197

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.11	J	80.0	77.5		ug/L		97	75 - 125
Barium	0.68	B	80.0	78.9		ug/L		98	75 - 125
Cadmium	0.056	J	80.0	78.6		ug/L		98	75 - 125
Chromium	0.95	B	80.0	79.1		ug/L		98	75 - 125
Lead	0.12		80.0	77.9		ug/L		97	75 - 125
Selenium	ND		80.0	77.0		ug/L		96	75 - 125
Silver	ND		80.0	77.6		ug/L		97	75 - 125
Uranium	0.11		80.0	79.8		ug/L		100	75 - 125

Lab Sample ID: 440-239435-3 MSD
Matrix: Water
Analysis Batch: 542328

Client Sample ID: PL-514-20190418
Prep Type: Total Recoverable
Prep Batch: 542197

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.11	J	80.0	78.3		ug/L		98	75 - 125	1	20
Barium	0.68	B	80.0	79.0		ug/L		98	75 - 125	0	20
Cadmium	0.056	J	80.0	78.9		ug/L		99	75 - 125	0	20
Chromium	0.95	B	80.0	78.0		ug/L		96	75 - 125	1	20
Lead	0.12		80.0	78.3		ug/L		98	75 - 125	1	20
Selenium	ND		80.0	76.3		ug/L		95	75 - 125	1	20
Silver	ND		80.0	77.9		ug/L		97	75 - 125	0	20

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 440-239435-3 MSD — **Client Sample ID: PL-514-20190418**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 542328 — **Prep Batch: 542197**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Uranium	0.11		80.0	80.4		ug/L		100	75 - 125	1	20

Lab Sample ID: MB 440-542493/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 542715 — **Prep Batch: 542493**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.10	ug/L		04/25/19 08:49	04/25/19 21:28	1
Barium	0.234		0.20	0.10	ug/L		04/25/19 08:49	04/25/19 21:28	1
Cadmium	ND		0.10	0.050	ug/L		04/25/19 08:49	04/25/19 21:28	1
Chromium	0.413	J	0.50	0.25	ug/L		04/25/19 08:49	04/25/19 21:28	1
Lead	ND		0.10	0.050	ug/L		04/25/19 08:49	04/25/19 21:28	1
Selenium	ND		0.60	0.30	ug/L		04/25/19 08:49	04/25/19 21:28	1
Silver	ND		0.20	0.10	ug/L		04/25/19 08:49	04/25/19 21:28	1
Uranium	ND		0.10	0.050	ug/L		04/25/19 08:49	04/25/19 21:28	1

Lab Sample ID: LCS 440-542493/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 542715 — **Prep Batch: 542493**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	80.0	81.8		ug/L		102	80 - 120
Barium	80.0	81.9		ug/L		102	80 - 120
Cadmium	80.0	81.7		ug/L		102	80 - 120
Chromium	80.0	81.8		ug/L		102	80 - 120
Lead	80.0	80.1		ug/L		100	80 - 120
Selenium	80.0	82.0		ug/L		103	80 - 120
Silver	80.0	79.6		ug/L		100	80 - 120
Uranium	80.0	79.7		ug/L		100	80 - 120

Lab Sample ID: 440-238851-C-4-E MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 542715 — **Prep Batch: 542493**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	5.2		80.0	81.6		ug/L		96	75 - 125
Barium	91	B	80.0	177		ug/L		108	75 - 125
Cadmium	0.11		80.0	73.5		ug/L		92	75 - 125
Chromium	23	B	80.0	96.7		ug/L		92	75 - 125
Lead	5.6		80.0	76.2		ug/L		88	75 - 125
Selenium	2.1		80.0	69.8		ug/L		85	75 - 125
Silver	ND		80.0	72.6		ug/L		91	75 - 125
Uranium	4.7		80.0	79.2		ug/L		93	75 - 125

Lab Sample ID: 440-238851-C-4-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 542715 — **Prep Batch: 542493**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	5.2		80.0	85.2		ug/L		100	75 - 125	4	20

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 440-238851-C-4-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 542715 — **Prep Batch: 542493**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	91	B	80.0	185		ug/L		118	75 - 125	5	20
Cadmium	0.11		80.0	76.7		ug/L		96	75 - 125	4	20
Chromium	23	B	80.0	101		ug/L		97	75 - 125	4	20
Lead	5.6		80.0	79.8		ug/L		93	75 - 125	5	20
Selenium	2.1		80.0	75.1		ug/L		91	75 - 125	7	20
Silver	ND		80.0	76.1		ug/L		95	75 - 125	5	20
Uranium	4.7		80.0	83.6		ug/L		99	75 - 125	5	20

Lab Sample ID: MB 440-542737/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 542921 — **Prep Batch: 542737**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.20	0.10	ug/L		04/26/19 08:35	04/26/19 18:12	1
Chromium	ND		0.50	0.25	ug/L		04/26/19 08:35	04/26/19 18:12	1

Lab Sample ID: LCS 440-542737/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 542921 — **Prep Batch: 542737**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	80.0	77.6		ug/L		97	80 - 120
Chromium	80.0	76.4		ug/L		95	80 - 120

Lab Sample ID: 440-239435-4 MS — **Client Sample ID: PL-515-20190418**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 542921 — **Prep Batch: 542737**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.36		80.0	76.0		ug/L		95	75 - 125
Chromium	0.44	J	80.0	74.2		ug/L		92	75 - 125

Lab Sample ID: 440-239435-4 MSD — **Client Sample ID: PL-515-20190418**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 542921 — **Prep Batch: 542737**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	0.36		80.0	76.7		ug/L		95	75 - 125	1	20
Chromium	0.44	J	80.0	75.6		ug/L		94	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 440-542906/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 543205 — **Prep Batch: 542906**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		04/27/19 14:35	04/27/19 19:14	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 440-542906/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 543205 — **Prep Batch: 542906**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00400	0.00396		mg/L		99	80 - 120		

Lab Sample ID: 440-239435-3 MS — **Client Sample ID: PL-514-20190418**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 543205 — **Prep Batch: 542906**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		0.00400	0.00390		mg/L		98	75 - 125		

Lab Sample ID: 440-239435-3 MSD — **Client Sample ID: PL-514-20190418**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 543205 — **Prep Batch: 542906**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00400	0.00397		mg/L		99	75 - 125	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 440-542482/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542482

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			04/25/19 08:11	1

Lab Sample ID: LCS 440-542482/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542482

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	994		mg/L		99	90 - 110		

Lab Sample ID: 440-239228-B-1 DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 542482

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	180			179		mg/L				0.6	5

QC Association Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239435-1
SDG: Henderson, NV

GC/MS VOA

Analysis Batch: 543039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239435-1	TB-20190418	Total/NA	Water	8260B	
440-239435-2	PL-513-20190418	Total/NA	Water	8260B	
440-239435-3	PL-514-20190418	Total/NA	Water	8260B	
440-239435-4	PL-515-20190418	Total/NA	Water	8260B	
440-239435-6	MCF-BW-10A-20190418	Total/NA	Water	8260B	
MB 440-543039/6	Method Blank	Total/NA	Water	8260B	
LCS 440-543039/5	Lab Control Sample	Total/NA	Water	8260B	
440-239292-A-4 MS	Matrix Spike	Total/NA	Water	8260B	
440-239292-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 543082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239435-5 - DL	AA-MW-13R-20190418	Total/NA	Water	8260B	
440-239435-5	AA-MW-13R-20190418	Total/NA	Water	8260B	
MB 440-543082/5	Method Blank	Total/NA	Water	8260B	
LCS 440-543082/4	Lab Control Sample	Total/NA	Water	8260B	
440-239435-5 MS	AA-MW-13R-20190418	Total/NA	Water	8260B	
440-239435-5 MSD	AA-MW-13R-20190418	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 542172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239435-3	PL-514-20190418	Total/NA	Water	3510C	
440-239435-4	PL-515-20190418	Total/NA	Water	3510C	
440-239435-5	AA-MW-13R-20190418	Total/NA	Water	3510C	
440-239435-6	MCF-BW-10A-20190418	Total/NA	Water	3510C	
MB 440-542172/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-542172/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-542172/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 542238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239435-3	PL-514-20190418	Total/NA	Water	8081A	542172
440-239435-4	PL-515-20190418	Total/NA	Water	8081A	542172
440-239435-5	AA-MW-13R-20190418	Total/NA	Water	8081A	542172
440-239435-6	MCF-BW-10A-20190418	Total/NA	Water	8081A	542172
MB 440-542172/1-A	Method Blank	Total/NA	Water	8081A	542172
LCS 440-542172/2-A	Lab Control Sample	Total/NA	Water	8081A	542172
LCSD 440-542172/3-A	Lab Control Sample Dup	Total/NA	Water	8081A	542172

HPLC/IC

Analysis Batch: 543130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239435-3	PL-514-20190418	Total/NA	Water	314.0	
440-239435-4	PL-515-20190418	Total/NA	Water	314.0	
440-239435-6	MCF-BW-10A-20190418	Total/NA	Water	314.0	
MB 440-543130/6	Method Blank	Total/NA	Water	314.0	
LCS 440-543130/5	Lab Control Sample	Total/NA	Water	314.0	
MRL 440-543130/4	Lab Control Sample	Total/NA	Water	314.0	
440-239949-D-1 MS	Matrix Spike	Total/NA	Water	314.0	

HPLC/IC (Continued)

Analysis Batch: 543130 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239949-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0	

Analysis Batch: 543890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239435-5	AA-MW-13R-20190418	Total/NA	Water	314.0	
MB 440-543890/7	Method Blank	Total/NA	Water	314.0	
LCS 440-543890/5	Lab Control Sample	Total/NA	Water	314.0	
MRL 440-543890/4	Lab Control Sample	Total/NA	Water	314.0	
440-240202-F-3 MS	Matrix Spike	Total/NA	Water	314.0	
440-240202-F-3 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0	

Metals

Prep Batch: 542197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239435-3	PL-514-20190418	Total Recoverable	Water	3005A	
440-239435-4	PL-515-20190418	Total Recoverable	Water	3005A	
440-239435-6	MCF-BW-10A-20190418	Total Recoverable	Water	3005A	
MB 440-542197/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-542197/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-239435-3 MS	PL-514-20190418	Total Recoverable	Water	3005A	
440-239435-3 MSD	PL-514-20190418	Total Recoverable	Water	3005A	

Analysis Batch: 542328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239435-3	PL-514-20190418	Total Recoverable	Water	6020	542197
440-239435-4	PL-515-20190418	Total Recoverable	Water	6020	542197
440-239435-6	MCF-BW-10A-20190418	Total Recoverable	Water	6020	542197
MB 440-542197/1-A	Method Blank	Total Recoverable	Water	6020	542197
LCS 440-542197/2-A	Lab Control Sample	Total Recoverable	Water	6020	542197
440-239435-3 MS	PL-514-20190418	Total Recoverable	Water	6020	542197
440-239435-3 MSD	PL-514-20190418	Total Recoverable	Water	6020	542197

Prep Batch: 542493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239435-5	AA-MW-13R-20190418	Total Recoverable	Water	3005A	
MB 440-542493/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-542493/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-238851-C-4-E MS	Matrix Spike	Total Recoverable	Water	3005A	
440-238851-C-4-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 542715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239435-5	AA-MW-13R-20190418	Total Recoverable	Water	6020	542493
MB 440-542493/1-A	Method Blank	Total Recoverable	Water	6020	542493
LCS 440-542493/2-A	Lab Control Sample	Total Recoverable	Water	6020	542493
440-238851-C-4-E MS	Matrix Spike	Total Recoverable	Water	6020	542493
440-238851-C-4-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020	542493

QC Association Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239435-1
SDG: Henderson, NV

Metals

Prep Batch: 542737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239435-3	PL-514-20190418	Total Recoverable	Water	3005A	
440-239435-4	PL-515-20190418	Total Recoverable	Water	3005A	
MB 440-542737/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-542737/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-239435-4 MS	PL-515-20190418	Total Recoverable	Water	3005A	
440-239435-4 MSD	PL-515-20190418	Total Recoverable	Water	3005A	

Prep Batch: 542906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239435-3	PL-514-20190418	Total/NA	Water	7470A	
440-239435-4	PL-515-20190418	Total/NA	Water	7470A	
440-239435-5	AA-MW-13R-20190418	Total/NA	Water	7470A	
440-239435-6	MCF-BW-10A-20190418	Total/NA	Water	7470A	
MB 440-542906/1-A	Method Blank	Total/NA	Water	7470A	
LCS 440-542906/2-A	Lab Control Sample	Total/NA	Water	7470A	
440-239435-3 MS	PL-514-20190418	Total/NA	Water	7470A	
440-239435-3 MSD	PL-514-20190418	Total/NA	Water	7470A	

Analysis Batch: 542921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239435-3	PL-514-20190418	Total Recoverable	Water	6020	542737
440-239435-4	PL-515-20190418	Total Recoverable	Water	6020	542737
MB 440-542737/1-A	Method Blank	Total Recoverable	Water	6020	542737
LCS 440-542737/2-A	Lab Control Sample	Total Recoverable	Water	6020	542737
440-239435-4 MS	PL-515-20190418	Total Recoverable	Water	6020	542737
440-239435-4 MSD	PL-515-20190418	Total Recoverable	Water	6020	542737

Analysis Batch: 543205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239435-3	PL-514-20190418	Total/NA	Water	7470A	542906
440-239435-4	PL-515-20190418	Total/NA	Water	7470A	542906
440-239435-5	AA-MW-13R-20190418	Total/NA	Water	7470A	542906
440-239435-6	MCF-BW-10A-20190418	Total/NA	Water	7470A	542906
MB 440-542906/1-A	Method Blank	Total/NA	Water	7470A	542906
LCS 440-542906/2-A	Lab Control Sample	Total/NA	Water	7470A	542906
440-239435-3 MS	PL-514-20190418	Total/NA	Water	7470A	542906
440-239435-3 MSD	PL-514-20190418	Total/NA	Water	7470A	542906

General Chemistry

Analysis Batch: 542482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-239435-3	PL-514-20190418	Total/NA	Water	SM 2540C	
440-239435-4	PL-515-20190418	Total/NA	Water	SM 2540C	
440-239435-5	AA-MW-13R-20190418	Total/NA	Water	SM 2540C	
440-239435-6	MCF-BW-10A-20190418	Total/NA	Water	SM 2540C	
MB 440-542482/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-542482/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-239228-B-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: de maximis, inc.
Project/Site: 3200C Henderson Sitewide

Job ID: 440-239435-1
SDG: Henderson, NV

Laboratory: Eurofins TestAmerica, Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Nevada	State Program	9	CA015312018-1	07-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8081A	3510C	Water	2,4'-DDD
8081A	3510C	Water	2,4'-DDE
8081A	3510C	Water	2,4'-DDT
8081A	3510C	Water	4,4'-DDD
8081A	3510C	Water	4,4'-DDE
8081A	3510C	Water	4,4'-DDT
8081A	3510C	Water	Aldrin
8081A	3510C	Water	alpha-BHC
8081A	3510C	Water	beta-BHC
8081A	3510C	Water	Chlordane
8081A	3510C	Water	delta-BHC
8081A	3510C	Water	Dieldrin
8081A	3510C	Water	Endosulfan I
8081A	3510C	Water	Endosulfan II
8081A	3510C	Water	Endosulfan sulfate
8081A	3510C	Water	Endrin
8081A	3510C	Water	Endrin aldehyde
8081A	3510C	Water	Endrin ketone
8081A	3510C	Water	gamma-BHC (Lindane)
8081A	3510C	Water	Heptachlor
8081A	3510C	Water	Heptachlor epoxide
8081A	3510C	Water	Methoxychlor
8081A	3510C	Water	Toxaphene
8260B		Water	Dimethyl disulfide

TestAmerica
Las Vegas
219

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Nicole Bradley, Dean Charles	Site Contact: Kevin Paprocki	Date: 4/18/19	COC No:
de maximis, Inc	Tel/Fax: 619-546-8377	Lab Contact: Danielle Roberts	Carrier:	____ of ____ COCs
1322 Scott St., Suite 101	Analysis Turnaround Time			Job No. 3200C
San Diego, CA 92106	Calendar (C) or Work Days (W)___ W___			SDG No.
(619) 546-8377 Phone	TAT if different from Below_____			
(619) 546-9980 Fax	☒ 2 weeks			
Project Name: 3200C Henderson Sitewide	☐ 1 week			
Site: Henderson, NV	☐ 2 days			
PO#	☐ 1 day			

Sample Identification	Container Type	Sample Date	Sample Time	Preservation Type	Matrix	# of Containers	8260B-HEND-Qtrly	8081A – Pesticides	RCRA 8 Metals + Uranium - 7470A & 6020	TDS – SM2540C	Perchlorate 314							VOC concentration > 500 ppb	MS/MSD REQUIRED	LEVEL 2A REQUIRED	Sa
TB-20190418	VOA	4/18/19	0650	4°C	AQ	2	X													X	
PL-513-20190418	VOA	4/18/19	0938	4°C	AQ	3	X													X	
PL-514-20190418	Various	4/18/19	1315	4°C	AQ	8	X	X	X	X	X									X	
PL-515-20190418	Various	4/18/19	1325	4°C	AQ	8	X	X	X	X	X									X	
AA-MW-13R-20190418	Various	4/18/19	0938	4°C	AQ	8	X	X	X	X	X							X		X	
MCF-BW-10A-20190418	Various	4/18/19	1124	4°C	AQ	8	X	X	X	X	X							X		X	
															4/19/19						
															AK						

[1] I attest to the validity and authenticity of this (these) sample(s). I am aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636)
Signature: Date

Preservation Used: 1= Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other_____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return to Client* ☐ Disposal by Lab Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Sample Int (circle one)
Intact: Y / N on ice: Y / N
temperature:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Converse	4/18/19 1351		TBW	4/18/19 1351
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TBW	4/18/19 1600		TBW	4/19/19 10:00
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

CS: TRK 4766 5637 0764

1.4/1.7 3.1/3.4
Ir 96 18.1/18.4 Ir. 94

440-239435 Chain of Custody

Login Sample Receipt Checklist

Client: de maximis, inc.

Job Number: 440-239435-1
SDG Number: Henderson, NV

Login Number: 239435
List Number: 1
Creator: Skinner, Alma D

List Source: Eurofins TestAmerica, Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX B

DATA VALIDATION SUMMARY REPORT NO. 52

Data Validation Summary Report #52
Site-Wide Groundwater Monitoring Program
Spring 2019
Henderson, Nevada

Prepared for

Nevada Division of Environmental Protection
1771 E. Flamingo Road, Suite 121-A
Las Vegas, Nevada 89119-0837

Prepared by

Laboratory Data Consultants
2701 Loker Ave. West, Suite 220
Carlsbad, California 92010

July 23, 2019

Table of Contents

Section	Title	Page No.
1.0	INTRODUCTION	1
2.0	VOLATILE ORGANIC COMPOUNDS	6
2.1	Precision and Accuracy	6
2.2	Representativeness	7
2.3	Comparability	7
2.4	Completeness	7
2.5	Sensitivity	8
3.0	2,2'/4,4'-DICHLOROBENZIL	8
3.1	Precision and Accuracy	8
3.2	Representativeness	8
3.3	Comparability	8
3.4	Completeness	8
3.5	Sensitivity	9
4.0	CHLORINATED PESTICIDES	9
4.1	Precision and Accuracy	9
4.2	Representativeness	9
4.3	Comparability	10
4.4	Completeness	10
4.5	Sensitivity	10
5.0	METALS	10
5.1	Precision and Accuracy	10
5.2	Representativeness	10
5.3	Comparability	11
5.4	Completeness	11
5.5	Sensitivity	11
6.0	PERCHLORATE AND TOTAL DISSOLVED SOLIDS	11
6.1	Precision and Accuracy	12
6.2	Representativeness	12
6.3	Comparability	12
6.4	Completeness	12
6.5	Sensitivity	13
7.0	VARIANCES IN ANALYTICAL PERFORMANCE	13

Table of Contents

Section	Title	Page No.
8.0	SUMMARY OF PARCCS CRITERIA	13
8.1	Precision and Accuracy	13
8.2	Representativeness	13
8.3	Comparability	13
8.4	Completeness	13
8.5	Sensitivity	13
9.0	CONCLUSIONS AND RECOMMENDATIONS	14
10.0	REFERENCES	15

LIST OF TABLES

TABLE I – Sample Cross-Reference
TABLE II – Stage 2A Validation Elements
TABLE III– Stage 2A Validation Percentages
TABLE IV – Reason Codes and Definitions
TABLE V – Overall Qualified Results

ATTACHMENT

ATTACHMENT A – VOC Data Validation Report (DVR)
ATTACHMENT B – 2,2'/4,4'-Dichlorobenzil DVR
ATTACHMENT C – Chlorinated Pesticides DVR
ATTACHMENT D – Metals DVR
ATTACHMENT E – Perchlorate and TDS DVR
ATTACHMENT F – Laboratory Standard Operating Procedure (SOP) for Determination of Method Detection Limits

LIST OF ACRONYMS AND ABBREVIATIONS

DQO	Data Quality Objectives
DUP	Laboratory Duplicate
DVR	Data Validation Report
DVSR	Data Validation Summary Report
EB	Equipment Blank
EPA	Environmental Protection Agency
FB	Field Blank
FD	Field Duplicate
ICB/CCB	Initial and Continuing Calibration Blanks
LCS/LCSD	Laboratory Control Sample / Laboratory Control Sample Duplicate
MDL	Method Detection Limit
MS/MSD	Matrix Spike / Matrix Spike Duplicate
NDEP	Nevada Division of Environmental Protection
PARCCS	Precision, Accuracy, Representativeness, Comparability, Completeness, Sensitivity
PQL	Practical Quantitation Limit
PRG	Preliminary Remediation Goal
QA/QC	Quality Assurance / Quality Control
RB	Rinsate Blank
RPD	Relative Percent Difference
RRF	Relative Response Factor
SDG	Sample Delivery Group
SOP	Standard Operating Procedure
SQL	Sample Quantitation Limit
TB	Trip Blank
TDS	Total Dissolved Solids
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound
mg/L	Milligram per Liter
ug/l	Microgram per Liter
%D	Percent Difference
%R	Percent Recovery
%RSD	Percent Relative Standard Deviation

1.0 INTRODUCTION

This data validation summary report (DVSR) has been prepared by Laboratory Data Consultants, Inc. (LDC) to assess the validity and usability of laboratory analytical data from the Site-Wide Groundwater Monitoring Program, Spring 2019 in Henderson, Nevada. The investigation was performed by Hargis + Associates, Inc. (H+A), and included the collection and analyses of 80 environmental and quality control (QC) samples. The analyses were performed by the following methods:

Volatile Organic Compounds (VOC) by Environmental Protection Agency (EPA) SW 846 Method 8260B
2,2'/4,4'-Dichlorobenzil by EPA SW 846 Method 8270C
Chlorinated Pesticides by EPA SW 846 Method 8081A
Metals by EPA SW 846 Methods 6020/7470A
Perchlorate by EPA Method 314.0
Total Dissolved Solids (TDS) by Standard Method 2540C

Laboratory analytical services were provided by Eurofins. The water samples were grouped into sample delivery groups (SDGs). The water samples are associated with quality assurance and quality control (QA/QC) samples designed to document the data quality of the entire SDG or a sub-group of samples within an SDG. Table I is a cross-reference table listing each sample, analysis, SDG, collection date, laboratory sample number, matrix, and validation level. Table II is a reference table that identifies the QC elements reviewed for the validation level per method, as applicable.

Consistent with the NDEP requirements, one hundred percent of the analytical data were validated according to Stage 2A data validation procedures. The number of samples and percentage validated to Stage 2A for each method is presented in Table III.

The analytical data were evaluated for QA/QC based on the following documents: Nevada Division of Environmental Protection (NDEP) *Data Validation Guidance* established for the BMI Plant Sites and Common Areas Projects, Henderson, Nevada, July 13, 2018, *Quality Assurance Project Plan Site-wide Soil and Groundwater Investigations Former Montrose and Stauffer Sites, Henderson, Nevada (*QAPP), Revision 1.0, October 26, 2006, a modified outline of the *USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* and *for Inorganic Superfund Methods Data Review*, January 2017, *Standard Method for the Examination of Water and Wastewater 22nd edition (2012)* and the *EPA SW 846 Third Edition, Test Methods for Evaluating Solid Waste,* update I, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IV, February 2007; update V, July 2014.

This report summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) relative to the project data quality objectives (DQOs). This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability.

The PARCCS summary report evaluates and summarizes the results of QA/QC data validation for the entire sampling program. Each analytical fraction has a separate section for each of the PARCCS criteria. These sections interpret specific QC deviations and their effects on both individual data points and the analyses as a whole. Section 9 presents a summary of the PARCCS criteria by comparing quantitative parameters with acceptability criteria defined in the project DQO's. Qualitative PARCCS criteria are also summarized in this section.

Precision and Accuracy of Environmental Data

Environmental data quality depends on sample collection procedures, analytical methods and instrumentation, documentation, and sample matrix properties. Both sampling procedures and laboratory analyses contain potential sources of uncertainty, error, and/or bias, which affect the overall quality of a

measurement. Errors for sample data may result from incomplete equipment decontamination, inappropriate sampling techniques, sample heterogeneity, improper filtering, and improper preservation. The accuracy of analytical results is dependent on selecting appropriate analytical methods, maintaining equipment properly, and complying with QC requirements. The sample matrix also is an important factor in the ability to obtain precise and accurate results within a given media.

Environmental and laboratory QA/QC samples assess the effects of sampling procedures and evaluate laboratory contamination, laboratory performance, and matrix effects. QA/QC samples include: trip blanks (TBs), equipment blanks (EBs), field blanks (FBs), field duplicates (FDs), method blanks, laboratory control samples and laboratory control sample duplicates (LCS/LCSDs), and matrix spike/matrix spike duplicates (MS/MSDs) and laboratory duplicates (DUPs).

Before conducting the PARCCS evaluation, the analytical data were validated according to the NDEP Data Validation Guidance (July 2018), QAPP (October 2006), NFGs (USEPA 2017), and EPA SW 846 Test Methods. Samples not meeting the acceptance criteria were qualified with a flag, an abbreviation indicating a deficiency with the data. The following are flags used in data validation.

J- Estimated The associated numerical value is an estimated quantity with a negative bias. The analyte was detected but the reported value may not be accurate or precise.

J+ Estimated The associated numerical value is an estimated quantity with a positive bias. The analyte was detected but the reported value may not be accurate or precise.

J Estimated The associated numerical value is an estimated quantity. It is not possible to assess the direction of the potential bias. The analyte was detected but the reported value may not be accurate or precise. The "J" qualification indicates the data fell outside the QC limits, but the exceedance was not sufficient to cause rejection of the data.

R Rejected The data is unusable (the compound or analyte may or may not be present). Use of the "R" qualifier indicates a significant variance from functional guideline acceptance criteria. Either resampling or reanalysis is necessary to determine the presence or absence of the rejected analyte.

U Nondetected Analyses were performed for the compound or analyte, but it was not detected.

UJ Estimated/Nondetected Analyses were performed for the compound or analyte, but it was not detected and the sample quantitation or detection limit is an estimated quantity due to poor accuracy or precision. This qualification is also used to flag possible false negative results in the case where low bias in the analytical system is indicated by low calibration response, surrogate, or other spike recovery.

DNR Do Not Report A more appropriate result is reported from another analysis or dilution.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

The hierarchy of flags is listed below:

R > J	The R flag will always take precedence over the J qualifier.
J > J+ or J-	A non-biased (J) flag will always supersede biased (J+ or J-) flags since it is not possible to assess the direction of the potential bias.

J = J+ plus J-	Adding biased (J+, J-) flags with opposite signs will result in a non-biased flag (J).
UJ = U plus J	The UJ flag is used when a non-detected (U) flag is added to a non-biased flag (J).
J+	The positive bias estimated (J+) flag is applied only to associated detected results.

Table IV lists the reason codes used. Reason codes explain why flags have been applied and allow data users to assess if a result is usable with qualification due to QA/QC outliers or not usable when rejected due to QA/QC outliers. Reason codes are cumulative except when one of the flags is R then only the reason code associated to the R flag will be used.

Table V presents the overall qualified results after all the flags or validation qualifiers and associated reason codes have been applied.

Once the data are reviewed and qualified according to the QAPP, functional guidelines, and EPA Test Methods, the data set is then evaluated using PARCCS criteria. PARCCS criteria provide an evaluation of overall data usability. The following is a discussion of PARCCS criteria as related to the project DQOs.

Precision is a measure of the agreement or reproducibility of analytical results under a given set of conditions. It is a quantity that cannot be measured directly but is calculated from reported concentrations. Precision is expressed as the relative percent difference (RPD):

$$RPD = (D1-D2)/\{1/2(D1+D2)\} \times 100$$

where:
D1 = reported concentration for the sample
D2 = reported concentration for the duplicate

Precision is primarily assessed by calculating an RPD from the reported concentrations of the spiked compounds for each sample in the MS/MSD pair. In the absence of an MS/MSD pair, a laboratory duplicate or LCS/LCSD pair can be analyzed as an alternative means of assessing precision. An additional measure of sampling precision was obtained by collecting and analyzing field duplicate samples, which were compared using the RPD result as the evaluation criteria.

MS and MSD samples are field samples spiked by the laboratory with target analytes prior to preparation and analysis. These samples measure the overall efficiency of the analytical method in recovering target analytes from an environmental matrix. A LCS is similar to an MS/MSD sample in that the LCS is spiked with the same target analytes prior to preparation and analysis. However, the LCS is prepared using a controlled interference-free matrix instead of a field sample aliquot. Laboratory reagent water is used to prepare aqueous LCS. The LCS measures laboratory efficiency in recovering target analytes from either an aqueous matrix in the absence of matrix interferences.

DUPs measure laboratory precision. DUPs are replicate samples and are prepared by taking two aliquots from one sample container. The analytical results for DUPs are reported as the RPD between the results of the two aliquots.

Laboratory and field sampling precision are evaluated by calculating RPDs for aqueous field sample duplicate pairs. The sampler collects two field samples at the same location and under identically controlled conditions. The laboratory then analyzes the samples under identical conditions.

An RPD outside the numerical QC limit in the LCS/LCSD, MS/MSD samples, DUPs, or field duplicates indicates imprecision. Imprecision is the variance in the consistency with which the laboratory arrives at a particular reported result. Thus, the actual analyte concentration may be higher or lower than the reported result.

Field duplicate RPD numerical QC limits were determined as follows:

Sample concentration ≤ 10 times the PQL	RPD ≤ 100
Sample concentration > 10 times, but ≤ 100 times the PQL	RPD ≤ 30
Sample concentration > 100 times the PQL	RPD ≤ 50

Possible causes of poor precision include sample heterogeneity, improper sample collection or handling, inconsistent sample preparation, and poor instrument stability. In some duplicate pairs, results maybe reported in either the primary or duplicate samples at levels below the practical quantitation limit (PQL) or non-detected. Since these values are considered to be estimates, RPD exceedances from these duplicate pairs do not suggest a significant impact on the data quality.

Accuracy is a measure of the agreement of an experimental determination and the true value of the parameter being measured. It is used to identify bias in a given measurement system. Recoveries outside acceptable QC limits may be caused by factors such as instrumentation, analyst error, or matrix interference. Accuracy is assessed through the analysis of MS, MSD, LCS, and samples containing surrogate spikes. In some cases, samples from multiple SDGs were within one QC batch and therefore are associated with the same laboratory QC samples. Surrogate spikes are either isotopically labeled compounds or compounds that are not typically detected in the samples. Surrogate spikes are added to every blank, environmental sample, LCS, MS/MSD, and standard, for all applicable organic analyses. Accuracy of inorganic analyses is determined using the percent recoveries of MS and LCS analyses.

Percent recovery (%R) is calculated using the following equation:

$$\%R = (A-B)/C \times 100$$

where:
A = measured concentration in the spiked sample
B = measured concentration of the spike compound in the unspiked sample
C = concentration of the spike

The percent recovery of each analyte spiked in MS/MSD samples, LCS, and surrogate compounds added to environmental samples is evaluated with the acceptance criteria specified by the previously noted documents. Spike recoveries outside the acceptable QC accuracy limits provide an indication of bias, where the reported data may overestimate or underestimate the actual concentration of compounds detected or quantitation limits reported for environmental samples.

Representativeness is a qualitative parameter that expresses the degree to which the sample data are characteristic of a population. It is evaluated by reviewing the QC results of blanks, samples and holding times. Positive detects of compounds in the blank samples identify compounds that may have been introduced into the samples during sample collection, transport, preparation, or analysis. The QA/QC blanks collected and analyzed are method blanks, initial calibration and continuing calibration blanks (ICB/CCB), trip blanks, equipment blanks and field blanks.

A method blank is a laboratory grade water or solid matrix that contains the method reagents and has undergone the same preparation and analysis as the environmental samples. The method blank provides a measure of the combined contamination derived from the laboratory source water, glassware, instruments, reagents, and sample preparation steps. Method blanks are prepared for each sample of a similar matrix extracted by the same method at a similar concentration level.

For inorganic analyses, calibration blanks consist of acidified laboratory grade water, which are injected at the beginning and at a regular frequency during each 12 - hour sample analysis run. These blanks estimate residual contaminants from the previous sample or standards analysis and measure baseline shifts that commonly occur in emission and absorption spectroscopy.

Trip blanks are used to identify possible volatile organic contamination introduced into the sample during transport. A trip blank is a sample bottle filled in the laboratory with reagent-grade water and preserved to a pH less than 2 with hydrochloric acid. It is transported to the site, stored with the sample containers, and returned unopened to the laboratory for analysis.

Equipment blanks consist of analyte-free water poured over or through the sample collection equipment. The water is collected in a sample container for laboratory analysis. These blanks are collected after the sampling equipment is decontaminated and measure efficiency of the decontamination procedure. Equipment and rinsate blanks were collected and analyzed for VOC, pesticides, perchlorate, metals and TDS.

Field blanks consist of analyte-free source water stored at the sample collection site. The water is collected from each source water used during each sampling event. Field blanks were collected and analyzed for VOC.

Holding times are evaluated to assure that the sample integrity is intact for accurate sample preparation and analysis. Holding times will be specific for each method and matrix analyzed. Holding time exceedances can cause loss of sample constituents due to biodegradation, precipitation, volatilization, and chemical degradation.

Comparability is a qualitative expression of the confidence with which one data set may be compared to another. It provides an assessment of the equivalence of the analytical results to data obtained from other analyses. It is important that data sets be comparable if they are used in conjunction with other data sets. The factors affecting comparability include the following: sample collection and handling techniques, matrix type, and analytical method. If these aspects of sampling and analysis are carried out according to standard analytical procedures, the data are considered comparable. Comparability is also dependent upon other PARCCS criteria, because only when precision, accuracy, and representativeness are known can data sets be compared with confidence.

Completeness is defined as the percentage of acceptable sample results compared to the total number of sample results. Completeness is evaluated to determine if an acceptable amount of usable data were obtained so that a valid scientific site assessment can be completed. Completeness equals the total number of sample results for each fraction minus the total number of rejected sample results divided by the total number of sample results multiplied by 100. As specified in the project DQOs, the goal for completeness for target analytes in each analytical fraction is 90 percent.

Percent completeness is calculated using the following equation:

$$\%C = (T - R)/T \times 100$$

where:
%C = percent completeness
T = total number of sample results
R = total number of rejected sample results

Completeness is also determined by comparing the planned number of samples per method and matrix as specified in the QAPP, with the number determined above.

Sensitivity is the ability of an analytical method or instrument to discriminate between measurement responses representing different concentrations. This capability is established during the planning phase to meet the DQOs. It is important that calibration requirements, detection limits (DL), and PQLs presented in the QAPP are achieved and that target analytes can be detected at concentrations necessary to support the DQOs. The method detection limits (MDL) represent the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero. Sample quantitation limits (SQL) are adjusted MDL values that reflect sample specific actions, such as dilutions or varying aliquot sizes. PQLs are the lowest level at which the entire analytical system gives a recognizable signal and acceptable calibration point for the analyte. Specific determination of the MDL on which the SQL and PQL are based is provided in Attachment F. The laboratory is required to report detected analytes down to the SQL for this project. In addition, sample results are compared to method blank and field blank results to identify potential effects of laboratory background and field procedures on sensitivity.

The following sections present a review of QC data for each analytical method.

2.0 VOLATILE ORGANIC COMPOUNDS

A total of 80 water samples were analyzed for VOC by EPA SW 846 Method 8260B. All VOC data were assessed to be valid with the exception of one of the 4,800 total results which was rejected based on MS/MSD %R exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

2.1 Precision and Accuracy

2.1.1 Surrogates

Eleven results in sample WELL-D2-20190405 were qualified as detected estimated (J+) due to a surrogate %R above the laboratory acceptance criteria. The details regarding the qualification of results are presented in Attachment A.

2.1.2 MS/MSD Samples

Due to MS/MSD %Rs grossly outside the laboratory acceptance criteria (i.e. 0%), the styrene result for sample MC-114-20190408 was qualified as rejected (R). Additionally, the 1,2,4-trichlorobenzene result for sample PL-501-20190405 was qualified as detected estimated (J-) and the 1,2,4-trimethylbenzene and styrene results for sample MC-111-20190410 and the 1,1,2,2-tetrachloroethane result for sample AA-MW-13R-20190418 were qualified as non-detected estimated (UJ) due to MS/MSD %Rs below the laboratory acceptance criteria.

No data were qualified due to MS/MSD %Rs or RPDs above the laboratory acceptance criteria since the associated results were not detected.

The details regarding the qualification of results are presented in Attachment A.

2.1.3 LCS Samples

No data were qualified due to a LCS %R above the laboratory acceptance criteria since the associated results were not detected.

2.1.4 FD Samples

All RPDs for the field duplicate samples PL-506-20190409 and PC-031-20190409 and PL-510-20190415 and M-007B-20190415 were within the QAPP acceptance criteria.

The 1,2-dichloropropane results for field duplicate samples PL-501-20190405 and WELL-D3-20190405 were qualified as detected estimated (J) or non-detected estimated (UJ) due to a RPD above the QAPP acceptance criteria. The details regarding the qualification of results are provided in Attachment A.

2.2 Representativeness

2.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. Samples were properly received and stored at ≤ 6°C, but not frozen.

One hundred twenty compounds in samples AA-MW-13R-20190418 and MC-50-20190409 were qualified as detected estimated (J-) and non-detected estimated (UJ) due to technical holding time exceedance. The analysis holding time is 7 days for unpreserved samples.

The details regarding the qualification of results are presented in Attachment A.

2.2.2 Blanks

Method blanks, EBs, FBs and TBs were collected and analyzed to evaluate representativeness. The concentration for an individual target compound in any of the four types of QA/QC blanks was used for data qualification.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation based on the following criteria.

> Results Below the PQL Using professional judgment, if a sample result for the blank contaminant was less than the PQL and the sample result was less than or equal to 2 times the blank value, the sample result was qualified as detected estimated (J) at the reported concentration.
>
> Results Above the PQL Using professional judgment, if a sample result for the blank contaminant was greater than the PQL and the sample result was less than or equal to 2 times the blank value, the sample result was qualified as detected estimated (J+) at the reported concentration.
>
> No Action Using professional judgment, if a sample result for the blank contaminant was greater than 2 times the blank value, the result was not qualified.

2.2.2.1 Method Blanks

No contaminants were detected in the method blanks for this analysis.

2.2.2.2 TBs

Due to trip blank contaminations, the 1,2-dichlorobenzene result for sample MC-113-20190408 and the 1,2-dichlorobenzene and 1,4-dichlorobenzene results for sample MC-48-20190408 were qualified as detected estimated (J). The details regarding the qualification of results are presented in Attachment A.

2.2.2.3 EBs, and FBs

No contaminants were detected in the EBs and FBs for this analysis.

2.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQL. Target compounds detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

2.4 Completeness

The completeness level attained for VOC field samples was 99.9 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

2.5 Sensitivity
The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

3.0 2,2'/4,4'-DICHLOROBENZIL
A total of four water samples were analyzed for 2,2'/4,4'-dichlorobenzil by EPA SW 846 Method 8270C. All dichlorobenzil data were assessed to be valid since none of the four total results were rejected based on holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

3.1 Precision and Accuracy

3.1.1 Surrogates
All surrogate %Rs were within the laboratory acceptance criteria.

3.1.2 MS/MSD Samples
MS/MSDs were not performed for this analysis due to insufficient sample volume. Since the surrogate %Rs met the laboratory acceptance criteria for all samples, the absence of MS/MSD samples was judged to have no impact on the data quality and no qualifications were made.

3.1.3 LCS/LCSD Samples
All LCS/LCSD %Rs and RPDs met the laboratory acceptance criteria.

3.1.4 FD Samples
Field duplicate samples were not collected for this analysis.

3.2 Representativeness

3.2.1 Sample Preservation and Holding Times
The evaluation of holding times to verify compliance with the method was conducted. Samples were properly received and stored at $\leq 6^{o}C$, but not frozen. All samples met the 7-day extraction and 40-day analysis holding time criteria for water samples.

3.2.2 Blanks
Method blanks were analyzed to evaluate representativeness.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation based on the criteria presented in Section 2.2.2.

3.2.2.1 Method Blanks
No contaminants were detected in the method blanks for this analysis.

3.3 Comparability
The laboratory used standard analytical methods for all of the analyses. In all cases, the SQL attained were at or below the PQL. The comparability of the data is regarded as acceptable.

3.4 Completeness
The completeness level attained for 2,2'/4,4'-dichlorobenzil field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

3.5 Sensitivity
The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

4.0 CHLORINATED PESTICIDES
A total of 60 water samples were analyzed for chlorinated pesticides by EPA SW 846 Method 8081A. All chlorinated pesticide data were assessed to be valid since none of the 1,380 total results were rejected based on holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

4.1 Precision and Accuracy

4.1.1 Surrogates
Four results in sample MC-MW-32-20190411 were qualified as detected estimated (J+) due to a surrogate %R above the laboratory acceptance criteria. The details regarding the qualification of results are presented in Attachment C.

4.1.2 MS/MSD Samples
No data were qualified due to MS/MSD %Rs and RPDs above the laboratory acceptance criteria since the associated results were not detected.

4.1.3 LCS/LCSD Samples
All LCS/LCSD %Rs and RPDs were within the laboratory acceptance criteria.

4.1.4 FD Samples
All RPDs for the field duplicate samples PL-506-20190409 and PC-031-20190409 and PL-510-20190415 and M-007B-20190415 were within the QAPP acceptance criteria.

The 2,4'-DDE results for field duplicate samples PL-501-20190405 and WELL-D3-20190405 were qualified as detected estimated (J) due to a RPD above the QAPP acceptance criteria. The details regarding the qualification of results are provided in Attachment C.

4.2 Representativeness

4.2.1 Sample Preservation and Holding Times
The evaluation of holding times to verify compliance with the method was conducted. Samples were properly received and stored at $\leq 6^{\circ}C$, but not frozen. All samples met the 7-day extraction and 40-day analysis holding time criteria for water samples.

4.2.2 Blanks
Method blanks and EBs were collected and analyzed to evaluate representativeness.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation based on the criteria presented in Section 2.2.2.

4.2.2.1 Method Blanks
No data were qualified due to the contaminants found in one of the method blanks for this analysis.

4.2.2.2 EBs
No contaminants were detected in the EBs for this analysis.

4.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQL. Target compounds detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

4.4 Completeness

The completeness level attained for chlorinated pesticide field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

4.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

5.0 METALS

A total of 42 water samples were analyzed for metals by EPA SW 846 Methods 6020/7470A. All metal data were assessed to be valid with the exception of five of the 378 total results which were rejected based on MS/MSD %R exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

5.1 Precision and Accuracy

5.1.1 MS/MSD Samples

Due to MS/MSD %Rs grossly outside the laboratory acceptance criteria (e.g., ≤30%), five non-detected mercury results were qualified as rejected (R). Additionally, the mercury result for samples MC-114-20190408 and MC-47-20190408 were qualified as detected estimated (J-) due to MS/MSD %Rs below the laboratory acceptance criteria. Negative bias was removed for samples MC-114-20190408 and MC-47-20190408 since these two mercury results were also qualified as estimated (J) due to MS/MSD RPD above the laboratory acceptance criteria.

The barium result for sample MW-A-J-20190409 was qualified as detected estimated (J+) due to MS/MSD %Rs above the laboratory acceptance criteria.

The details regarding the qualification of results are presented in Attachment D.

5.1.2 LCS Samples

All LCS %Rs were within acceptance criteria.

5.1.3 FD Samples

The chromium results for field duplicate samples PL-506-20190409 and PC-031-20190409 and PL-510-20190415 and M-007B-20190415 were qualified as detected estimated (J) due to a RPD above the QAPP acceptance criteria. The details regarding the qualification of results are provided in Attachment D.

5.2 Representativeness

5.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 28-day analysis holding time criteria for mercury and 180-day analysis holding time criteria for all other metals.

5.2.2 Blanks

Method blanks, ICB/CCBs, and EBs were collected and analyzed to evaluate representativeness.
If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation based on the following criteria.

Results Below the PQL If a sample result and blank contaminant value were less than the PQL, the sample result was amended as estimated (J) at the reported concentration.

Results Above the PQL If a sample result and blank contaminant value were greater than the PQL and the sample result was less than 10 times the blank contaminant value, the sample result was qualified as detected estimated (J+) at the reported concentration.

No Action If blank contaminant values were less than the PQL and associated sample results were greater than the PQL, or if blank contaminant values were greater than the PQL and associated sample results were greater than 10 times the blank contaminant value, the result was not qualified.

5.2.2.1 Method and Calibration Blanks

Due to method blank contamination, the chromium result for sample MC-MW-32-20190411 and the barium and chromium results for samples PL-514-20190418 and PL-515-20190418 were qualified as detected estimated (J+,J). The details regarding the qualification of results are presented in Attachment D.

5.2.2.2 EBs

Due to EB contamination, the cadmium result for sample AA-MW-13R-20190418, the chromium result for sample MC-47-20190408, the lead result for samples MC-53-20190408 and MCF-BW-10A-20190418, the cadmium and lead results for sample MC-113-20190408, the lead and silver results for sample MC-49-20190408, and the cadmium, chromium, and silver results for sample MC-48-20190408 were qualified as detected estimated (J+,J). The details regarding the qualification of results are presented in Attachment D.

5.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQL. Target compounds detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

5.4 Completeness

The completeness level attained for metal field samples was 98.7 percent for mercury and 100 percent for all other metals. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

5.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

6.0 PERCHLORATE AND TOTAL DISSOLVED SOLIDS

A total of 42 water samples were analyzed for perchlorate by EPA Method 314.0 and TDS by Standard Method 2540C. All perchlorate and TDS data were assessed to be valid since none of the 84 total results were rejected based on holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

6.1 Precision and Accuracy

6.1.1 MS/MSD Samples

The perchlorate results for samples M-057A-20190415, M-149-20190415, M-092-20190416, M-136-20190416, M-150-20190416, and EC-10-20190417 were qualified as non-detected estimated (J-) due to MS/MSD %Rs below the laboratory acceptance criteria. The details regarding the qualification of results are presented in Attachment E.

All MS/MSD RPDs were within the laboratory acceptance criteria.

6.1.2 DUP Samples

All DUP RPDs were within the laboratory acceptance criteria.

6.1.3 LCS Samples

All LCS %Rs were within the laboratory acceptance criteria.

6.1.4 FD Samples

All RPDs for the field duplicate samples PL-506-20190409 and PC-031-20190409 were within the QAPP acceptance criteria.

The perchlorate results for field duplicate samples PL-510-20190415 and M-007B-20190415 were qualified as detected estimated (J) due to a RPD above the QAPP acceptance criteria. The details regarding the qualification of results are provided in Attachment E.

6.2 Representativeness

6.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 28-day analysis holding time criteria for perchlorate and the 7-day analysis holding time criteria for TDS.

6.2.2 Blanks

Method blanks, and EBs were collected and analyzed to evaluate representativeness.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation based on the criteria presented in Section 5.2.2.

6.2.2.1 Method Blanks

No contaminants were detected in the method blanks for this analysis.

6.2.2.2 EBs

No contaminants were detected in the EBs for this analysis.

6.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQL. Target compounds detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

6.4 Completeness

The completeness level attained for perchlorate and TDS field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

6.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

7.0 VARIANCES IN ANALYTICAL PERFORMANCE

The laboratory used standard analytical methods for all of the analyses throughout the project. No systematic variances in analytical performance were noted.

8.0 SUMMARY OF PARCCS CRITERIA

The validation reports present the PARCCS results for all SDGs. Each PARCCS criterion is discussed in detail in the following sections.

8.1 Precision and Accuracy

Precision and accuracy were evaluated using data quality indicators such as surrogates, MS/MSD, LCS/LCSD, and field duplicates. The precision and accuracy of the data set were considered acceptable after integration of qualification of estimated results as noted in Sections 2.1.1, 2.1.2, 2.1.4, 2.2.1, 4.1.1, 4.1.4, 5.1.1, 5.1.3, 6.1.1, and 6.1.4.

8.2 Representativeness

All samples for each method and matrix were evaluated for holding time compliance. All samples were associated with a method blank in each individual SDG. The representativeness of the project data is considered acceptable after integration of qualification of estimated results as noted in Sections 2.2.2.2, 5.2.2.1, and 5.2.2.2.

8.3 Comparability

Sampling frequency requirements were met in obtaining duplicates and necessary field blanks. The laboratory used a standard analytical method for the analysis. The analytical results were reported in correct standard units. Holding times, sample preservation, and sample integrity were within QC criteria. The overall comparability is considered acceptable.

8.4 Completeness

Of the 6,646 total analytes reported, six results were rejected. The completeness for the sampling event is as follows:

Parameter	Total Analytes	No. of Rejects	% Completeness
VOC	4,800	1	99.9
2,2'/4,4'-Dichlorobenzil	4	0	100
Chlorinated Pesticides	1,380	0	100
Metals	378	5	98.7
Perchlorate	42	0	100
TDS	42	0	100
Total	**6,646**	**6**	**99.9**

The completeness percentage based on rejected data met the 90 percent DQO goal.

8.5 Sensitivity

Sensitivity was achieved by the laboratory to support the DQOs. Calibration concentrations and PQLs met the project requirements and low level contamination in the method blanks, trip blanks, equipment blanks, and field blanks did not affect sensitivity.

9.0 CONCLUSIONS AND RECOMMENDATIONS

The data quality assessment for the laboratory analytical results generated for the Site-Wide Groundwater Monitoring Program, Spring 2019, in Henderson, Nevada, established that the overall project requirements and completeness levels were met. Sample results that were found to be rejected (R) are unusable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Stage 2A validation all other results are considered valid and usable for all purposes.

10.0 REFERENCES

American Public Health Association 2012. Standard Method for the Examination of Water and Wastewater (22nd ed.). Washington, DC: American Public Health Association; Rice, Baird, Eaton, and Clesceri.

Hargis + Associates, Inc., *Quality Assurance Project Plan Site-wide Soil and Groundwater Investigations Former Montrose and Stauffer Sites, Henderson, Nevada (*QAPP), Revision 1.0, October 26, 2006.

NDEP 2018. NDEP Data Validation Guidance. July.

USEPA 1996. EPA SW 846 Third Edition, Test Methods for Evaluating Solid Waste, update I, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IV, February 2007; update V, July 2014.+

USEPA 2017. *National Functional Guidelines for Organic Superfund Methods Data Review*, January.

USEPA 2017, *National Functional Guidelines for Inorganic Superfund Methods Data Review*, January.

TABLES

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	VOC (8260B)	2,2'/4,4'-Dichlorobenzil (8270C)	Pesticides (8081A)	Metals (6020/7470A)	Perchlorate (314.0)	TDS (2540C)
45058A	440-238127-1	TB-20190405	440-238127-01	Water	4/5/2019	TB	Stage 2A	X					
45058A	440-238127-1	PL-500-20190405	440-238127-02	Water	4/5/2019	FB	Stage 2A	X					
45058A	440-238127-1	PL-501-20190405	440-238127-03	Water	4/5/2019	FD1	Stage 2A	X		X			
45058A	440-238127-1	WELL-E3-20190405	440-238127-04	Water	4/5/2019		Stage 2A	X		X			
45058A	440-238127-1	WELL-F-20190405	440-238127-05	Water	4/5/2019		Stage 2A	X		X			
45058A	440-238127-1	WELL-G-20190405	440-238127-06	Water	4/5/2019		Stage 2A	X		X			
45058A	440-238127-1	WELL-D2-20190405	440-238127-07	Water	4/5/2019		Stage 2A	X		X			
45058A	440-238127-1	WELL-H2-20190405	440-238127-08	Water	4/5/2019		Stage 2A	X		X			
45058A	440-238127-1	WELL-I-20190405	440-238127-09	Water	4/5/2019		Stage 2A	X		X			
45058A	440-238127-1	WELL-J-20190405	440-238127-10	Water	4/5/2019		Stage 2A	X		X			
45058A	440-238127-1	WELL-K2-20190405	440-238127-11	Water	4/5/2019		Stage 2A	X		X			
45058A	440-238127-1	WELL-L-20190405	440-238127-12	Water	4/5/2019		Stage 2A	X		X			
45058A	440-238127-1	WELL-N-20190405	440-238127-13	Water	4/5/2019		Stage 2A	X		X			
45058A	440-238127-1	WELL-P-20190405	440-238127-14	Water	4/5/2019		Stage 2A	X		X			
45058A	440-238127-1	WELL-O-20190405	440-238127-15	Water	4/5/2019		Stage 2A	X		X			
45058A	440-238127-1	WELL-Q-20190405	440-238127-16	Water	4/5/2019		Stage 2A	X		X			
45058A	440-238127-1	WELL-J2-20190405	440-238127-17	Water	4/5/2019		Stage 2A	X		X			
45058A	440-238127-1	WELL-R-20190405	440-238127-18	Water	4/5/2019		Stage 2A	X		X			
45058A	440-238127-1	WELL-D3-20190405	440-238127-19	Water	4/5/2019	FD1	Stage 2A	X		X			
45058A	440-238127-1	WELL-M2-20190405	440-238127-20	Water	4/5/2019		Stage 2A	X		X			
45058B	440-238310-1	TB-20190408	440-238310-01	Water	4/8/2019	TB	Stage 2A	X					
45058B	440-238310-1	PL-502-20190408	440-238310-02	Water	4/8/2019	EB	Stage 2A	X		X	X	X	X
45058B	440-238310-1	PL-503-20190408	440-238310-03	Water	4/8/2019	EB	Stage 2A	X		X	X	X	X
45058B	440-238310-1	PL-504-20190408	440-238310-04	Water	4/8/2019	FB	Stage 2A	X					
45058B	440-238310-1	MC-113-20190408	440-238310-05	Water	4/8/2019		Stage 2A	X		X	X	X	X
45058B	440-238310-1	MC-114-20190408	440-238310-06	Water	4/8/2019		Stage 2A	X		X	X	X	X
45058B	440-238310-1	MC-53-20190408	440-238310-07	Water	4/8/2019		Stage 2A	X		X	X	X	X
45058B	440-238310-1	MC-47-20190408	440-238310-08	Water	4/8/2019		Stage 2A	X		X	X	X	X
45058B	440-238310-1	MC-48-20190408	440-238310-09	Water	4/8/2019		Stage 2A	X		X	X	X	X
45058B	440-238310-1	MC-49-20190408	440-238310-10	Water	4/8/2019		Stage 2A	X		X	X	X	X
45058C	440-238444-1	TB-20190409	440-238444-01	Water	4/9/2019	TB	Stage 2A	X					
45058C	440-238444-1	PL-505-20190409	440-238444-02	Water	4/9/2019	FB	Stage 2A	X					

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	VOC (8260B)	2,2'/4,4'-Dichlorobenzil (8270C)	Pesticides (8081A)	Metals (6020/7470A)	Perchlorate (314.0)	TDS (2540C)
45058C	440-238444-1	PL-506-20190409	440-238444-03	Water	4/9/2019	FD2	Stage 2A	X		X	X	X	X
45058C	440-238444-1	MW-R-20190409	440-238444-04	Water	4/9/2019		Stage 2A	X		X	X	X	X
45058C	440-238444-1	PC-028-20190409	440-238444-05	Water	4/9/2019		Stage 2A	X		X	X	X	X
45058C	440-238444-1	PC-031-20190409	440-238444-06	Water	4/9/2019	FD2	Stage 2A	X		X	X	X	X
45058C	440-238444-1	MW-A-J-20190409	440-238444-07	Water	4/9/2019		Stage 2A	X		X	X	X	X
45058C	440-238444-1	PC-064-20190409	440-238444-08	Water	4/9/2019		Stage 2A	X		X	X	X	X
45058D	440-238447-1	MC-50-20190409	440-238447-01	Water	4/9/2019		Stage 2A	X		X	X	X	X
45058E	440-238680-1	TB-20190410	440-238680-01	Water	4/10/2019	TB	Stage 2A	X					
45058E	440-238680-1	PL-507-20190410	440-238680-02	Water	4/10/2019	FB	Stage 2A	X					
45058E	440-238680-1	AA-MW-05-20190410	440-238680-03	Water	4/10/2019		Stage 2A	X		X	X	X	X
45058E	440-238680-1	H-55-20190410	440-238680-04	Water	4/10/2019		Stage 2A	X		X	X	X	X
45058E	440-238680-1	MC-111-20190410	440-238680-05	Water	4/10/2019		Stage 2A	X		X	X	X	X
45058E	440-238680-1	AGX-90-20190410	440-238680-06	Water	4/10/2019		Stage 2A	X		X	X	X	X
45058F	440-238734-1	MW-1-20190412	440-238734-01	Water	4/12/2019		Stage 2A				X	X	X
45058F	440-238734-1	MW-2-20190412	440-238734-02	Water	4/12/2019		Stage 2A				X	X	X
45058F	440-238734-1	MW-3-20190412	440-238734-03	Water	4/12/2019		Stage 2A				X	X	X
45058F	440-238734-1	MW-4-20190412	440-238734-04	Water	4/12/2019		Stage 2A				X	X	X
45058G	440-238791-1	MW-1-20190412	440-238791-01	Water	4/12/2019		Stage 2A	X	X	X			
45058G	440-238791-1	MW-2-20190412	440-238791-02	Water	4/12/2019		Stage 2A	X	X	X			
45058G	440-238791-1	MW-3-20190412	440-238791-03	Water	4/12/2019		Stage 2A	X	X	X			
45058G	440-238791-1	MW-4-20190412	440-238791-04	Water	4/12/2019		Stage 2A	X	X	X			
45058G	440-238791-1	TB-20190412	440-238791-05	Water	4/12/2019	TB	Stage 2A	X					
45058G	440-238791-1	PL-509-20190412	440-238791-06	Water	4/12/2019	FB	Stage 2A	X					
45058H	440-238800-1	TB-20190411	440-238800-01	Water	4/11/2019	TB	Stage 2A	X					
45058H	440-238800-1	PL-508-20190411	440-238800-02	Water	4/11/2019	FB	Stage 2A	X					
45058H	440-238800-1	MC-MW-35-20190411	440-238800-03	Water	4/11/2019		Stage 2A	X		X	X	X	X
45058H	440-238800-1	MC-MW-32-20190411	440-238800-04	Water	4/11/2019		Stage 2A	X		X	X	X	X
45058H	440-238800-1	AA-BW-03A-20190411	440-238800-05	Water	4/11/2019		Stage 2A	X		X	X	X	X
45058H	440-238800-1	H-11-20190411	440-238800-06	Water	4/11/2019		Stage 2A	X		X	X	X	X
45058I	440-239073-1	TB-20190415	440-239073-01	Water	4/15/2019	TB	Stage 2A	X					
45058I	440-239073-1	PL-509-20190415	440-239073-02	Water	4/15/2019	FB	Stage 2A	X					
45058I	440-239073-1	PL-510-20190415	440-239073-03	Water	4/15/2019	FD3	Stage 2A	X		X	X	X	X

Table I. Sample Cross-Reference

LDC	SDG	Client Sample ID	Lab Sample ID	Matrix	Sample Date	QC Type	Validation Level	VOC (8260B)	2,2'/4,4'-Dichlorobenzil (8270C)	Pesticides (8081A)	Metals (6020/7470A)	Perchlorate (314.0)	TDS (2540C)
45058I	440-239073-1	M-057A-20190415	440-239073-04	Water	4/15/2019		Stage 2A	X		X	X	X	X
45058I	440-239073-1	M-007B-20190415	440-239073-05	Water	4/15/2019	FD3	Stage 2A	X		X	X	X	X
45058I	440-239073-1	M-142-20190415	440-239073-06	Water	4/15/2019		Stage 2A	X		X	X	X	X
45058I	440-239073-1	M-149-20190415	440-239073-07	Water	4/15/2019		Stage 2A	X		X	X	X	X
45058J	440-239264-1	TB-20190416	440-239264-01	Water	4/16/2019	TB	Stage 2A	X					
45058J	440-239264-1	PL-511-20190416	440-239264-02	Water	4/16/2019	FB	Stage 2A	X					
45058J	440-239264-1	M-092-20190416	440-239264-03	Water	4/16/2019		Stage 2A	X		X	X	X	X
45058J	440-239264-1	M-136-20190416	440-239264-04	Water	4/16/2019		Stage 2A	X		X	X	X	X
45058J	440-239264-1	M-150-20190416	440-239264-05	Water	4/16/2019		Stage 2A	X		X	X	X	X
45058K	440-239292-1	TB-20190417	440-239292-01	Water	4/17/2019	TB	Stage 2A	X					
45058K	440-239292-1	PL-512-20190417	440-239292-02	Water	4/17/2019	FB	Stage 2A	X					
45058K	440-239292-1	EC-04-20190417	440-239292-03	Water	4/17/2019		Stage 2A	X		X	X	X	X
45058K	440-239292-1	EC-10-20190417	440-239292-04	Water	4/17/2019		Stage 2A	X		X	X	X	X
45058K	440-239292-1	EC-14-20190417	440-239292-05	Water	4/17/2019		Stage 2A	X		X	X	X	X
45058L	440-239435-1	TB-20190418	440-239435-01	Water	4/18/2019	TB	Stage 2A	X					
45058L	440-239435-1	PL-513-20190418	440-239435-02	Water	4/18/2019	FB	Stage 2A	X					
45058L	440-239435-1	PL-514-20190418	440-239435-03	Water	4/18/2019	EB	Stage 2A	X		X	X	X	X
45058L	440-239435-1	PL-515-20190418	440-239435-04	Water	4/18/2019	EB	Stage 2A	X		X	X	X	X
45058L	440-239435-1	AA-MW-13R-20190418	440-239435-05	Water	4/18/2019		Stage 2A	X		X	X	X	X
45058L	440-239435-1	MCF-BW-10A-20190418	440-239435-06	Water	4/18/2019		Stage 2A	X		X	X	X	X

Table II. Stage 2A Validation Elements

Quality Control Elements	Stage 2A				
	VOCs/SVOCs	Pesticides	Perchlorate	Metals	TDS
Sample Receipt & Technical Holding Time	√	√	√	√	√
Instrument Performance Check	-	-	-	-	N/A
Initial Calibration (ICAL)	-	-	-	-	-
Initial Calibration Verification (ICV)	-	-	-	-	-
Continuing Calibration Verification (CCV)	-	-	-	-	-
Laboratory Blanks	√	√	√	√	√
Initial Calibration Blank and Continuing Calibration Blank (ICB/CCB)	N/A	N/A	N/A	√	N/A
Field Blanks	√	√	√	√	√
Inductively Coupled Plasma (ICP) Interference Check Sample	N/A	N/A	N/A	√	N/A
Surrogate Spikes	√	√	N/A	N/A	N/A
Matrix Spike (MS), Matrix Spike Duplicate (MSD)	√	√	√	√	N/A
Laboratory Duplicate (DUP)	N/A	N/A	N/A	N/A	√
Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD)	√	√	√	√	√
Serial Dilution	N/A	N/A	N/A	√	N/A
Internal Standards	-	N/A	-	-	N/A
Field Duplicate	√	√	√	√	√
RPD Between Two Columns	N/A	-	N/A	N/A	N/A
Project Quantitation Limits (QL)	√	√	√	√	√
Multiple Results for One Sample	√	√	√	√	√
Target Compound Identification	-	-	-	-	-
Compound Quantitation	-	-	-	-	-
System Performance[1]	-	-	-	-	-
Overall Data Usability Assessment	√	√	√	√	√

√ = Reviewed for Stage 2A review
N/A = Not applicable to method or not performed during this sampling event
- = Not applicable for Stage 2A review
[1]System performance is a thorough review of the data acquisition that can yield indicators of degrading instrument performance affecting quality of data.

Table III. Stage 2A Validation Percentage

Parameter	Number of Samples (Water)		Validation Percentage (%)
	Stage 2A	Total	Stage 2A
VOCs	80	80	100
2,2'/4,4'-Dichlorobenzil	4	4	100
Chlorinated Pesticides	60	60	100
Metals	42	42	100
Perchlorate	42	42	100
TDS	42	42	100

Table IV. Reason Codes and Definitions

Reason Code	Definition
nd	Non-detected Target Analyte
1	Holding Times Exceeded
2	Sample Preservation (i.e. Headspace, Cooler Temp)
3	Sample Custody
4	Missing/Incomplete Deliverables
5	Calibration
6	Equipment/Field/Rinsate Blanks
7	Laboratory Blanks
8	Matrix Spike (%)
9	Matrix Spike Duplicate or Duplicate Sample (RPD)
10A	Laboratory Control Sample (%)
10B	Laboratory Control Sample Duplicate (RPD)
11	ICP Interference Check
12	RPD Between Two Columns
13	Surrogates
14	Field Duplicates
15	Peak Resolution
16	ICP Serial Dilution
17	Chemical Recoveries
18	Trip Blanks
19	Internal Standards
20	Linear Range Exceeded
21	Potential False Positives
22	Do not use, other result more technically sound
23	Estimated Maximum Possible Concentration
24	Other
25	Detected value less than the PQL and above SQL

Table V. Overall Qualified Results

SDG	Client Sample ID	Lab Sample ID	Sample Date	Method	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validation Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
440-238127-1	PL-501-20190405	440-238127-03	04/05/19	EPA-8260B	1,1-Dichloroethene	0.47	J	0.25	5.0	ug/L	J	25	< PQL			
440-238127-1	PL-501-20190405	440-238127-03	04/05/19	EPA-8260B	1,2,4-Trichlorobenzene	36	F1	0.40	5.0	ug/L	J-	8	MS/MSD %R	55,45	60-140	%
440-238127-1	PL-501-20190405	440-238127-03	04/05/19	EPA-8260B	1,2-Dichloropropane	2.4		0.25	2.0	ug/L	J	14	FD RPD	131	100	%
440-238127-1	PL-501-20190405	440-238127-03	04/05/19	EPA-8260B	Chloroform	0.38	J	0.25	2.0	ug/L	J	25	< PQL			
440-238127-1	PL-501-20190405	440-238127-03	04/05/19	EPA-8260B	cis-1,2-Dichloroethene	0.41	J	0.25	2.0	ug/L	J	25	< PQL			
440-238127-1	PL-501-20190405	440-238127-03	04/05/19	EPA-8260B	tert-Butylbenzene	0.31	J	0.25	5.0	ug/L	J	25	< PQL			
440-238127-1	PL-501-20190405	440-238127-03	04/05/19	EPA-8260B	Toluene	0.30	J	0.25	2.0	ug/L	J	25	< PQL			
440-238127-1	WELL-E3-20190405	440-238127-04	04/05/19	EPA-8260B	1,2,4-Trichlorobenzene	73	J	8.0	100	ug/L	J	25	< PQL			
440-238127-1	WELL-E3-20190405	440-238127-04	04/05/19	EPA-8260B	1,2-Dichloroethane	7.2	J	5.0	40	ug/L	J	25	< PQL			
440-238127-1	WELL-E3-20190405	440-238127-04	04/05/19	EPA-8260B	1,3-Dichlorobenzene	8.1	J	5.0	40	ug/L	J	25	< PQL			
440-238127-1	WELL-E3-20190405	440-238127-04	04/05/19	EPA-8260B	Benzene	32	J	5.0	40	ug/L	J	25	< PQL			
440-238127-1	WELL-E3-20190405	440-238127-04	04/05/19	EPA-8260B	Trichloroethene	17	J	5.0	40	ug/L	J	25	< PQL			
440-238127-1	WELL-F-20190405	440-238127-05	04/05/19	EPA-8260B	Trichloroethene	13	J	5.0	40	ug/L	J	25	< PQL			
440-238127-1	WELL-F-20190405	440-238127-05	04/05/19	EPA-8260B	1,2-Dichloroethane	17	J	5.0	40	ug/L	J	25	< PQL			
440-238127-1	WELL-F-20190405	440-238127-05	04/05/19	EPA-8260B	1,3-Dichlorobenzene	25	J	5.0	40	ug/L	J	25	< PQL			
440-238127-1	WELL-F-20190405	440-238127-05	04/05/19	EPA-8260B	1,1-Dichloroethane	9.4	J	5.0	40	ug/L	J	25	< PQL			
440-238127-1	WELL-G-20190405	440-238127-06	04/05/19	EPA-8260B	Chloroform	50	J	25	200	ug/L	J	25	< PQL			
440-238127-1	WELL-G-20190405	440-238127-06	04/05/19	EPA-8260B	1,2,4-Trichlorobenzene	130	J	40	500	ug/L	J	25	< PQL			
440-238127-1	WELL-G-20190405	440-238127-06	04/05/19	EPA-8260B	1,3-Dichlorobenzene	80	J	25	200	ug/L	J	25	< PQL			
440-238127-1	WELL-D2-20190405	440-238127-07	04/05/19	EPA-8260B	1,2-Dichloroethane	3.1	J	1.3	10	ug/L	J+	13,25	Surrogate %R; < PQL	134	76-132	%
440-238127-1	WELL-D2-20190405	440-238127-07	04/05/19	EPA-8260B	1,2-Dichlorobenzene	84		1.3	10	ug/L	J+	13	Surrogate %R	134	76-132	%
440-238127-1	WELL-D2-20190405	440-238127-07	04/05/19	EPA-8260B	1,2,4-Trichlorobenzene	48		2.0	25	ug/L	J+	13	Surrogate %R	134	76-132	%
440-238127-1	WELL-D2-20190405	440-238127-07	04/05/19	EPA-8260B	1,2-Dichloropropane	5.0	J	1.3	10	ug/L	J+	13,25	Surrogate %R; < PQL	134	76-132	%
440-238127-1	WELL-D2-20190405	440-238127-07	04/05/19	EPA-8260B	1,1-Dichloroethane	5.2	J	1.3	10	ug/L	J+	13,25	Surrogate %R; < PQL	134	76-132	%
440-238127-1	WELL-D2-20190405	440-238127-07	04/05/19	EPA-8260B	1,3-Dichlorobenzene	5.2	J	1.3	10	ug/L	J+	13,25	Surrogate %R; < PQL	134	76-132	%
440-238127-1	WELL-D2-20190405	440-238127-07	04/05/19	EPA-8260B	1,4-Dichlorobenzene	120		1.3	10	ug/L	J+	13	Surrogate %R	134	76-132	%
440-238127-1	WELL-D2-20190405	440-238127-07	04/05/19	EPA-8260B	1,2,3-Trichlorobenzene	12	J	2.0	25	ug/L	J+	13,25	Surrogate %R; < PQL	134	76-132	%
440-238127-1	WELL-D2-20190405	440-238127-07	04/05/19	EPA-8260B	Benzene	12		1.3	10	ug/L	J+	13	Surrogate %R	134	76-132	%
440-238127-1	WELL-D2-20190405	440-238127-07	04/05/19	EPA-8260B	Dimethyl disulfide	5.3	J	5.0	10	ug/L	J+	13,25	Surrogate %R; < PQL	134	76-132	%
440-238127-1	WELL-D2-20190405	440-238127-07	04/05/19	EPA-8260B	Trichloroethene	24		1.3	10	ug/L	J+	13	Surrogate %R	134	76-132	%
440-238127-1	WELL-H2-20190405	440-238127-08	04/05/19	EPA-8260B	1,1-Dichloroethane	99	J	25	200	ug/L	J	25	< PQL			
440-238127-1	WELL-H2-20190405	440-238127-08	04/05/19	EPA-8260B	1,2,4-Trichlorobenzene	200	J	40	500	ug/L	J	25	< PQL			
440-238127-1	WELL-H2-20190405	440-238127-08	04/05/19	EPA-8260B	1,3-Dichlorobenzene	61	J	25	200	ug/L	J	25	< PQL			
440-238127-1	WELL-H2-20190405	440-238127-08	04/05/19	EPA-8260B	Trichloroethene	49	J	25	200	ug/L	J	25	< PQL			
440-238127-1	WELL-I-20190405	440-238127-09	04/05/19	EPA-8260B	1,1-Dichloroethane	39	J	5.0	40	ug/L	J	25	< PQL			
440-238127-1	WELL-I-20190405	440-238127-09	04/05/19	EPA-8260B	1,2,4-Trichlorobenzene	10	J	8.0	100	ug/L	J	25	< PQL			
440-238127-1	WELL-I-20190405	440-238127-09	04/05/19	EPA-8260B	1,2-Dichloroethane	13	J	5.0	40	ug/L	J	25	< PQL			
440-238127-1	WELL-I-20190405	440-238127-09	04/05/19	EPA-8260B	1,3-Dichlorobenzene	9.3	J	5.0	40	ug/L	J	25	< PQL			
440-238127-1	WELL-I-20190405	440-238127-09	04/05/19	EPA-8260B	Benzene	33	J	5.0	40	ug/L	J	25	< PQL			
440-238127-1	WELL-J-20190405	440-238127-10	04/05/19	EPA-8260B	1,2,3-Trichlorobenzene	16	J	1.6	20	ug/L	J	25	< PQL			
440-238127-1	WELL-J-20190405	440-238127-10	04/05/19	EPA-8260B	1,1-Dichloroethene	1.4	J	1.0	20	ug/L	J	25	< PQL			
440-238127-1	WELL-J-20190405	440-238127-10	04/05/19	EPA-8260B	cis-1,2-Dichloroethene	1.2	J	1.0	8.0	ug/L	J	25	< PQL			
440-238127-1	WELL-J-20190405	440-238127-10	04/05/19	EPA-8260B	1,2-Dichloropropane	3.6	J	1.0	8.0	ug/L	J	25	< PQL			
440-238127-1	WELL-J-20190405	440-238127-10	04/05/19	EPA-8260B	1,2-Dichloroethane	2.9	J	1.0	8.0	ug/L	J	25	< PQL			
440-238127-1	WELL-J-20190405	440-238127-10	04/05/19	EPA-8260B	1,1-Dichloroethane	6.4	J	1.0	8.0	ug/L	J	25	< PQL			
440-238127-1	WELL-K2-20190405	440-238127-11	04/05/19	EPA-8260B	1,2,4-Trichlorobenzene	140	J	20	250	ug/L	J	25	< PQL			

Table V. Overall Qualified Results

SDG	Client Sample ID	Lab Sample ID	Sample Date	Method	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validation Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
440-238127-1	WELL-K2-20190405	440-238127-11	04/05/19	EPA-8260B	1,2-Dichloroethane	15	J	13	100	ug/L	J	25	< PQL			
440-238127-1	WELL-K2-20190405	440-238127-11	04/05/19	EPA-8260B	1,3-Dichlorobenzene	40	J	13	100	ug/L	J	25	< PQL			
440-238127-1	WELL-K2-20190405	440-238127-11	04/05/19	EPA-8260B	Trichloroethene	66	J	13	100	ug/L	J	25	< PQL			
440-238127-1	WELL-L-20190405	440-238127-12	04/05/19	EPA-8260B	1,2,3-Trichlorobenzene	18	J	16	200	ug/L	J	25	< PQL			
440-238127-1	WELL-L-20190405	440-238127-12	04/05/19	EPA-8260B	1,2,4-Trichlorobenzene	91	J	16	200	ug/L	J	25	< PQL			
440-238127-1	WELL-L-20190405	440-238127-12	04/05/19	EPA-8260B	1,2-Dichlorobenzene	77	J	10	80	ug/L	J	25	< PQL			
440-238127-1	WELL-L-20190405	440-238127-12	04/05/19	EPA-8260B	1,2-Dichloroethane	13	J	10	80	ug/L	J	25	< PQL			
440-238127-1	WELL-L-20190405	440-238127-12	04/05/19	EPA-8260B	1,3-Dichlorobenzene	15	J	10	80	ug/L	J	25	< PQL			
440-238127-1	WELL-L-20190405	440-238127-12	04/05/19	EPA-8260B	Benzene	49	J	10	80	ug/L	J	25	< PQL			
440-238127-1	WELL-L-20190405	440-238127-12	04/05/19	EPA-8260B	Trichloroethene	14	J	10	80	ug/L	J	25	< PQL			
440-238127-1	WELL-N-20190405	440-238127-13	04/05/19	EPA-8260B	1,1-Dichloroethane	2.1	J	1.3	10	ug/L	J	25	< PQL			
440-238127-1	WELL-N-20190405	440-238127-13	04/05/19	EPA-8260B	1,2,3-Trichlorobenzene	9.6	J	2.0	25	ug/L	J	25	< PQL			
440-238127-1	WELL-N-20190405	440-238127-13	04/05/19	EPA-8260B	1,2-Dichloroethane	1.3	J	1.3	10	ug/L	J	25	< PQL			
440-238127-1	WELL-N-20190405	440-238127-13	04/05/19	EPA-8260B	1,3-Dichlorobenzene	3.8	J	1.3	10	ug/L	J	25	< PQL			
440-238127-1	WELL-P-20190405	440-238127-14	04/05/19	EPA-8260B	1,2,3-Trichlorobenzene	3.0	J	0.40	5.0	ug/L	J	25	< PQL			
440-238127-1	WELL-P-20190405	440-238127-14	04/05/19	EPA-8260B	1,2-Dichloroethane	0.40	J	0.25	2.0	ug/L	J	25	< PQL			
440-238127-1	WELL-P-20190405	440-238127-14	04/05/19	EPA-8260B	Benzene	0.84	J	0.25	2.0	ug/L	J	25	< PQL			
440-238127-1	WELL-P-20190405	440-238127-14	04/05/19	EPA-8260B	Chloroform	0.55	J	0.25	2.0	ug/L	J	25	< PQL			
440-238127-1	WELL-O-20190405	440-238127-15	04/05/19	EPA-8260B	1,2,4-Trichlorobenzene	110	J	20	250	ug/L	J	25	< PQL			
440-238127-1	WELL-O-20190405	440-238127-15	04/05/19	EPA-8260B	1,3-Dichlorobenzene	44	J	13	100	ug/L	J	25	< PQL			
440-238127-1	WELL-Q-20190405	440-238127-16	04/05/19	EPA-8260B	1,1,2-Trichloroethane	0.94	J	0.25	2.0	ug/L	J	25	< PQL			
440-238127-1	WELL-Q-20190405	440-238127-16	04/05/19	EPA-8260B	1,1-Dichloroethene	1.4	J	0.25	5.0	ug/L	J	25	< PQL			
440-238127-1	WELL-Q-20190405	440-238127-16	04/05/19	EPA-8260B	1,2-Dichloroethane	1.1	J	0.25	2.0	ug/L	J	25	< PQL			
440-238127-1	WELL-Q-20190405	440-238127-16	04/05/19	EPA-8260B	2-Chlorotoluene	0.35	J	0.25	5.0	ug/L	J	25	< PQL			
440-238127-1	WELL-Q-20190405	440-238127-16	04/05/19	EPA-8260B	Chloroform	0.56	J	0.25	2.0	ug/L	J	25	< PQL			
440-238127-1	WELL-Q-20190405	440-238127-16	04/05/19	EPA-8260B	cis-1,2-Dichloroethene	1.2	J	0.25	2.0	ug/L	J	25	< PQL			
440-238127-1	WELL-Q-20190405	440-238127-16	04/05/19	EPA-8260B	Toluene	0.33	J	0.25	2.0	ug/L	J	25	< PQL			
440-238127-1	WELL-J2-20190405	440-238127-17	04/05/19	EPA-8260B	1,1-Dichloroethane	8.8	J	1.3	10	ug/L	J	25	< PQL			
440-238127-1	WELL-J2-20190405	440-238127-17	04/05/19	EPA-8260B	1,1-Dichloroethene	1.5	J	1.3	25	ug/L	J	25	< PQL			
440-238127-1	WELL-J2-20190405	440-238127-17	04/05/19	EPA-8260B	1,2,3-Trichlorobenzene	14	J	2.0	25	ug/L	J	25	< PQL			
440-238127-1	WELL-J2-20190405	440-238127-17	04/05/19	EPA-8260B	1,2-Dichloroethane	2.9	J	1.3	10	ug/L	J	25	< PQL			
440-238127-1	WELL-R-20190405	440-238127-18	04/05/19	EPA-8260B	1,2,3-Trichlorobenzene	11	J	1.6	20	ug/L	J	25	< PQL			
440-238127-1	WELL-R-20190405	440-238127-18	04/05/19	EPA-8260B	1,2-Dichloroethane	2.4	J	1.0	8.0	ug/L	J	25	< PQL			
440-238127-1	WELL-R-20190405	440-238127-18	04/05/19	EPA-8260B	Benzene	5.4	J	1.0	8.0	ug/L	J	25	< PQL			
440-238127-1	WELL-R-20190405	440-238127-18	04/05/19	EPA-8260B	cis-1,2-Dichloroethene	1.5	J	1.0	8.0	ug/L	J	25	< PQL			
440-238127-1	WELL-D3-20190405	440-238127-19	04/05/19	EPA-8260B	1,2,3-Trichlorobenzene	6.5	J	0.80	10	ug/L	J	25	< PQL			
440-238127-1	WELL-D3-20190405	440-238127-19	04/05/19	EPA-8260B	1,2-Dichloroethane	2.4	J	0.50	4.0	ug/L	J	25	< PQL			
440-238127-1	WELL-D3-20190405	440-238127-19	04/05/19	EPA-8260B	1,2-Dichloropropane	4.0	U	0.50	4.0	ug/L	UJ	14	FD RPD	131	100	%
440-238127-1	WELL-D3-20190405	440-238127-19	04/05/19	EPA-8260B	1,3-Dichlorobenzene	2.4	J	0.50	4.0	ug/L	J	25	< PQL			
440-238127-1	WELL-D3-20190405	440-238127-19	04/05/19	EPA-8260B	Benzene	3.4	J	0.50	4.0	ug/L	J	25	< PQL			
440-238127-1	WELL-D3-20190405	440-238127-19	04/05/19	EPA-8260B	cis-1,2-Dichloroethene	0.61	J	0.50	4.0	ug/L	J	25	< PQL			
440-238127-1	WELL-D3-20190405	440-238127-19	04/05/19	EPA-8260B	Dimethyl disulfide	2.3	J	2.0	4.0	ug/L	J	25	< PQL			
440-238127-1	WELL-D3-20190405	440-238127-19	04/05/19	EPA-8260B	tert-Butylbenzene	0.81	J	0.50	10	ug/L	J	25	< PQL			
440-238127-1	WELL-M2-20190405	440-238127-20	04/05/19	EPA-8260B	1,1-Dichloroethane	76	J	25	200	ug/L	J	25	< PQL			
440-238127-1	WELL-M2-20190405	440-238127-20	04/05/19	EPA-8260B	1,2,4-Trichlorobenzene	81	J	40	500	ug/L	J	25	< PQL			
440-238127-1	WELL-M2-20190405	440-238127-20	04/05/19	EPA-8260B	Trichloroethene	42	J	25	200	ug/L	J	25	< PQL			

Table V. Overall Qualified Results

SDG	Client Sample ID	Lab Sample ID	Sample Date	Method	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validation Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
440-238310-1	TB-20190408	440-238310-01	04/08/19	EPA-8260B	1,4-Dichlorobenzene	1.3	J	0.25	2.0	ug/L	J	25	< PQL			
440-238310-1	TB-20190408	440-238310-01	04/08/19	EPA-8260B	1,2-Dichlorobenzene	1.1	J	0.25	2.0	ug/L	J	25	< PQL			
440-238310-1	MC-113-20190408	440-238310-05	04/08/19	EPA-8260B	1,2,4-Trichlorobenzene	3.3	J	0.40	5.0	ug/L	J	25	< PQL			
440-238310-1	MC-113-20190408	440-238310-05	04/08/19	EPA-8260B	1,2,3-Trichlorobenzene	1.1	J	0.40	5.0	ug/L	J	25	< PQL			
440-238310-1	MC-113-20190408	440-238310-05	04/08/19	EPA-8260B	1,2-Dichlorobenzene	2.0		0.25	2.0	ug/L	J	18	TB contamination	1.1	2.2	ug/L
440-238310-1	MC-114-20190408	440-238310-06	04/08/19	EPA-8260B	1,2-Dichloroethane	0.92	J	0.25	2.0	ug/L	J	25	< PQL			
440-238310-1	MC-114-20190408	440-238310-06	04/08/19	EPA-8260B	Styrene	2.0	U	0.25	2.0	ug/L	R	8	MS/MSD %R	0,0	29-150	%
440-238310-1	MC-114-20190408	440-238310-06	04/08/19	EPA-8260B	Chloroform	0.27	J	0.25	2.0	ug/L	J	25	< PQL			
440-238310-1	MC-114-20190408	440-238310-06	04/08/19	EPA-8260B	1,3-Dichlorobenzene	1.1	J	0.25	2.0	ug/L	J	25	< PQL			
440-238310-1	MC-114-20190408	440-238310-06	04/08/19	EPA-8260B	1,2,3-Trichlorobenzene	0.68	J	0.40	5.0	ug/L	J	25	< PQL			
440-238310-1	MC-114-20190408	440-238310-06	04/08/19	EPA-8260B	1,2,4-Trichlorobenzene	1.6	J	0.40	5.0	ug/L	J	25	< PQL			
440-238310-1	MC-53-20190408	440-238310-07	04/08/19	EPA-8260B	Tetrachloroethene	1.7	J	0.25	2.0	ug/L	J	25	< PQL			
440-238310-1	MC-53-20190408	440-238310-07	04/08/19	EPA-8260B	Chloroform	0.82	J	0.25	2.0	ug/L	J	25	< PQL			
440-238310-1	MC-53-20190408	440-238310-07	04/08/19	EPA-8260B	1,2-Dichloroethane	0.35	J	0.25	2.0	ug/L	J	25	< PQL			
440-238310-1	MC-53-20190408	440-238310-07	04/08/19	EPA-8260B	1,1-Dichloroethane	1.1	J	0.25	2.0	ug/L	J	25	< PQL			
440-238310-1	MC-47-20190408	440-238310-08	04/08/19	EPA-8260B	Trichloroethene	0.28	J	0.25	2.0	ug/L	J	25	< PQL			
440-238310-1	MC-47-20190408	440-238310-08	04/08/19	EPA-8260B	1,1-Dichloroethane	0.26	J	0.25	2.0	ug/L	J	25	< PQL			
440-238310-1	MC-48-20190408	440-238310-09	04/08/19	EPA-8260B	1,2,4-Trichlorobenzene	0.72	J	0.40	5.0	ug/L	J	25	< PQL			
440-238310-1	MC-48-20190408	440-238310-09	04/08/19	EPA-8260B	1,4-Dichlorobenzene	1.1	J	0.25	2.0	ug/L	J	18,25	TB contamination; < PQL	1.3	2.6	ug/L
440-238310-1	MC-48-20190408	440-238310-09	04/08/19	EPA-8260B	1,2-Dichlorobenzene	0.54	J	0.25	2.0	ug/L	J	18,25	TB contamination; < PQL	1.1	2.2	ug/L
440-238310-1	MC-49-20190408	440-238310-10	04/08/19	EPA-8260B	1,2-Dichloroethane	0.39	J	0.25	2.0	ug/L	J	25	< PQL			
440-238310-1	MC-49-20190408	440-238310-10	04/08/19	EPA-8260B	1,2,4-Trichlorobenzene	4.0	J	0.40	5.0	ug/L	J	25	< PQL			
440-238310-1	MC-49-20190408	440-238310-10	04/08/19	EPA-8260B	1,1-Dichloroethane	1.3	J	0.25	2.0	ug/L	J	25	< PQL			
440-238310-1	MC-49-20190408	440-238310-10	04/08/19	EPA-8260B	1,2,3-Trichlorobenzene	0.61	J	0.40	5.0	ug/L	J	25	< PQL			
440-238310-1	MC-49-20190408	440-238310-10	04/08/19	EPA-8260B	Dimethyl disulfide	1.3	J	1.0	2.0	ug/L	J	25	< PQL			
440-238310-1	MC-49-20190408	440-238310-10	04/08/19	EPA-8260B	Trichloroethene	0.63	J	0.25	2.0	ug/L	J	25	< PQL			
440-238310-1	MC-49-20190408	440-238310-10	04/08/19	EPA-8260B	1,3-Dichlorobenzene	0.73	J	0.25	2.0	ug/L	J	25	< PQL			
440-238310-1	MC-49-20190408	440-238310-10	04/08/19	EPA-8260B	tert-Butylbenzene	0.27	J	0.25	5.0	ug/L	J	25	< PQL			
440-238444-1	PL-506-20190409	440-238444-03	04/09/19	EPA-8260B	Chloroform	0.66	J	0.25	2.0	ug/L	J	25	< PQL			
440-238444-1	PL-506-20190409	440-238444-03	04/09/19	EPA-8260B	Chlorobenzene	0.44	J	0.25	2.0	ug/L	J	25	< PQL			
440-238444-1	PL-506-20190409	440-238444-03	04/09/19	EPA-8260B	1,2-Dichloroethane	0.37	J	0.25	2.0	ug/L	J	25	< PQL			
440-238444-1	PL-506-20190409	440-238444-03	04/09/19	EPA-8260B	1,3-Dichlorobenzene	0.44	J	0.25	2.0	ug/L	J	25	< PQL			
440-238444-1	PL-506-20190409	440-238444-03	04/09/19	EPA-8260B	1,2,3-Trichlorobenzene	0.86	J	0.40	5.0	ug/L	J	25	< PQL			
440-238444-1	PL-506-20190409	440-238444-03	04/09/19	EPA-8260B	1,1-Dichloroethane	1.3	J	0.25	2.0	ug/L	J	25	< PQL			
440-238444-1	PL-506-20190409	440-238444-03	04/09/19	EPA-8260B	Tetrachloroethene	0.26	J	0.25	2.0	ug/L	J	25	< PQL			
440-238444-1	MW-R-20190409	440-238444-04	04/09/19	EPA-8260B	1,2,4-Trichlorobenzene	0.79	J	0.40	5.0	ug/L	J	25	< PQL			
440-238444-1	MW-R-20190409	440-238444-04	04/09/19	EPA-8260B	1,4-Dichlorobenzene	0.28	J	0.25	2.0	ug/L	J	25	< PQL			
440-238444-1	MW-R-20190409	440-238444-04	04/09/19	EPA-8260B	Chloroform	0.31	J	0.25	2.0	ug/L	J	25	< PQL			
440-238444-1	PC-028-20190409	440-238444-05	04/09/19	EPA-8260B	Tetrachloroethene	0.52	J	0.25	2.0	ug/L	J	25	< PQL			
440-238444-1	PC-031-20190409	440-238444-06	04/09/19	EPA-8260B	1,2-Dichloroethane	0.41	J	0.25	2.0	ug/L	J	25	< PQL			
440-238444-1	PC-031-20190409	440-238444-06	04/09/19	EPA-8260B	1,1-Dichloroethane	1.2	J	0.25	2.0	ug/L	J	25	< PQL			
440-238444-1	PC-031-20190409	440-238444-06	04/09/19	EPA-8260B	1,2,3-Trichlorobenzene	0.86	J	0.40	5.0	ug/L	J	25	< PQL			
440-238444-1	PC-031-20190409	440-238444-06	04/09/19	EPA-8260B	Chlorobenzene	0.39	J	0.25	2.0	ug/L	J	25	< PQL			
440-238444-1	PC-031-20190409	440-238444-06	04/09/19	EPA-8260B	Chloroform	0.68	J	0.25	2.0	ug/L	J	25	< PQL			
440-238444-1	PC-031-20190409	440-238444-06	04/09/19	EPA-8260B	1,3-Dichlorobenzene	0.49	J	0.25	2.0	ug/L	J	25	< PQL			
440-238444-1	MW-A-J-20190409	440-238444-07	04/09/19	EPA-8260B	1,1-Dichloroethane	0.74	J	0.25	2.0	ug/L	J	25	< PQL			

Table V. Overall Qualified Results

SDG	Client Sample ID	Lab Sample ID	Sample Date	Method	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validation Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
440-238444-1	MW-A-J-20190409	440-238444-07	04/09/19	EPA-8260B	1,2,3-Trichlorobenzene	0.83	J	0.40	5.0	ug/L	J	25	< PQL			
440-238444-1	MW-A-J-20190409	440-238444-07	04/09/19	EPA-8260B	1,2,4-Trichlorobenzene	2.1	J	0.40	5.0	ug/L	J	25	< PQL			
440-238444-1	MW-A-J-20190409	440-238444-07	04/09/19	EPA-8260B	1,4-Dichlorobenzene	1.3	J	0.25	2.0	ug/L	J	25	< PQL			
440-238444-1	MW-A-J-20190409	440-238444-07	04/09/19	EPA-8260B	1,2-Dichlorobenzene	0.99	J	0.25	2.0	ug/L	J	25	< PQL			
440-238444-1	MW-A-J-20190409	440-238444-07	04/09/19	EPA-8260B	Chloroform	0.58	J	0.25	2.0	ug/L	J	25	< PQL			
440-238444-1	PC-064-20190409	440-238444-08	04/09/19	EPA-8260B	1,4-Dichlorobenzene	0.85	J	0.25	2.0	ug/L	J	25	< PQL			
440-238444-1	PC-064-20190409	440-238444-08	04/09/19	EPA-8260B	Chloroform	1.4	J	0.25	2.0	ug/L	J	25	< PQL			
440-238444-1	PC-064-20190409	440-238444-08	04/09/19	EPA-8260B	Tetrachloroethene	1.2	J	0.25	2.0	ug/L	J	25	< PQL			
440-238444-1	PC-064-20190409	440-238444-08	04/09/19	EPA-8260B	Trichloroethene	0.50	J	0.25	2.0	ug/L	J	25	< PQL			
440-238444-1	PC-064-20190409	440-238444-08	04/09/19	EPA-8260B	1,2-Dichlorobenzene	1.1	J	0.25	2.0	ug/L	J	25	< PQL			
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	1,1,1,2-Tetrachloroethane	0.50	U	0.25	0.50	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	1,1,1-Trichloroethane	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	1,1,2,2-Tetrachloroethane	1.0	U	0.25	1.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	1,1,2-Trichloroethane	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	1,1-Dichloroethane	0.35	J	0.25	2.0	ug/L	J-	1,25	Holding time; < PQL	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	1,1-Dichloroethene	5.0	U	0.25	5.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	1,1-Dichloropropene	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	1,2,3-Trichlorobenzene	1.5	J	0.40	5.0	ug/L	J-	1,25	Holding time; < PQL	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	1,2,3-Trichloropropane	1.0	U	0.25	1.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	1,2,4-Trichlorobenzene	7.3		0.40	5.0	ug/L	J-	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	1,2,4-Trimethylbenzene	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	1,2-Dibromo-3-Chloropropane	1.0	U	0.50	1.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	1,2-Dibromoethane (EDB)	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	1,2-Dichlorobenzene	1.3	J	0.25	2.0	ug/L	J-	1,25	Holding time; < PQL	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	1,2-Dichloroethane	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	1,2-Dichloropropane	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	1,3,5-Trimethylbenzene	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	1,3-Dichlorobenzene	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	1,3-Dichloropropane	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	1,4-Dichlorobenzene	2.4		0.25	2.0	ug/L	J-	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	2,2-Dichloropropane	2.0	U	0.40	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	2-Chlorotoluene	5.0	U	0.25	5.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	4-Chlorotoluene	5.0	U	0.25	5.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Benzene	0.61	J	0.25	2.0	ug/L	J-	1,25	Holding time; < PQL	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Bromobenzene	5.0	U	0.25	5.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Bromochloromethane	5.0	U	0.25	5.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Bromodichloromethane	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Bromoform	5.0	U	0.40	5.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Bromomethane	5.0	U	0.25	5.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Carbon tetrachloride	1.0	U	0.25	1.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Chlorobenzene	21		0.25	2.0	ug/L	J-	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Chloroethane	5.0	U	0.40	5.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Chloroform	0.72	J	0.25	2.0	ug/L	J-	1,25	Holding time; < PQL	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Chloromethane	2.5	U	0.25	2.5	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	cis-1,2-Dichloroethene	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	cis-1,3-Dichloropropene	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days

Table V. Overall Qualified Results

SDG	Client Sample ID	Lab Sample ID	Sample Date	Method	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validation Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Dibromochloromethane	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Dibromomethane	1.0	U	0.25	1.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Dichlorodifluoromethane	5.0	U	0.25	5.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Dimethyl disulfide	2.0	U	1.0	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Ethylbenzene	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Hexachlorobutadiene	5.0	U	0.25	5.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Isopropylbenzene	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	m,p-Xylene	2.0	U	0.50	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Methylene Chloride	2.0	U	1.1	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Naphthalene	1.0	U	0.40	1.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	n-Butylbenzene	5.0	U	0.40	5.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	N-Propylbenzene	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	o-Xylene	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	p-Isopropyltoluene	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	sec-Butylbenzene	5.0	U	0.25	5.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Styrene	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	tert-Butylbenzene	5.0	U	0.25	5.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Tetrachloroethene	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Toluene	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	trans-1,2-Dichloroethene	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	trans-1,3-Dichloropropene	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Trichloroethene	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Trichlorofluoromethane	5.0	U	0.25	5.0	ug/L	UJ	1	Holding time	12	7	Days
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8260B	Vinyl chloride	2.0	U	0.25	2.0	ug/L	UJ	1	Holding time	12	7	Days
440-238680-1	MC-111-20190410	440-238680-05	04/10/19	EPA-8260B	Styrene	2.0	U,F1	0.25	2.0	ug/L	UJ	8	MS/MSD %R	10,8	29-150	%
440-238680-1	MC-111-20190410	440-238680-05	04/10/19	EPA-8260B	Chloroform	0.55	J	0.25	2.0	ug/L	J	25	< PQL			
440-238680-1	MC-111-20190410	440-238680-05	04/10/19	EPA-8260B	1,2,4-Trimethylbenzene	2.0	U,F1	0.25	2.0	ug/L	UJ	8	MS/MSD %R	58,52	70-130	%
440-238680-1	MC-111-20190410	440-238680-05	04/10/19	EPA-8260B	1,1-Dichloroethane	0.60	J	0.25	2.0	ug/L	J	25	< PQL			
440-238791-1	MW-2-20190412	440-238791-02	04/12/19	EPA-8260B	1,2-Dichlorobenzene	46	J	25	200	ug/L	J	25	< PQL			
440-238791-1	MW-2-20190412	440-238791-02	04/12/19	EPA-8260B	1,4-Dichlorobenzene	69	J	25	200	ug/L	J	25	< PQL			
440-238791-1	MW-2-20190412	440-238791-02	04/12/19	EPA-8260B	Carbon tetrachloride	97	J	25	100	ug/L	J	25	< PQL			
440-238791-1	MW-3-20190412	440-238791-03	04/12/19	EPA-8260B	Methylene Chloride	120	J	110	200	ug/L	J	25	< PQL			
440-238791-1	MW-3-20190412	440-238791-03	04/12/19	EPA-8260B	1,2,4-Trichlorobenzene	58	J	40	500	ug/L	J	25	< PQL			
440-238791-1	MW-4-20190412	440-238791-04	04/12/19	EPA-8260B	Chlorobenzene	2.2	J	0.50	4.0	ug/L	J	25	< PQL			
440-238791-1	MW-4-20190412	440-238791-04	04/12/19	EPA-8260B	Carbon tetrachloride	0.93	J	0.50	2.0	ug/L	J	25	< PQL			
440-238800-1	MC-MW-32-20190411	440-238800-04	04/11/19	EPA-8260B	Benzene	0.47	J	0.25	2.0	ug/L	J	25	< PQL			
440-238800-1	MC-MW-32-20190411	440-238800-04	04/11/19	EPA-8260B	1,1-Dichloroethane	1.3	J	0.25	2.0	ug/L	J	25	< PQL			
440-238800-1	MC-MW-32-20190411	440-238800-04	04/11/19	EPA-8260B	1,2-Dichloroethane	1.0	J	0.25	2.0	ug/L	J	25	< PQL			
440-238800-1	MC-MW-32-20190411	440-238800-04	04/11/19	EPA-8260B	Chlorobenzene	1.3	J	0.25	2.0	ug/L	J	25	< PQL			
440-238800-1	MC-MW-32-20190411	440-238800-04	04/11/19	EPA-8260B	Chloroform	1.2	J	0.25	2.0	ug/L	J	25	< PQL			
440-238800-1	AA-BW-03A-20190411	440-238800-05	04/11/19	EPA-8260B	Benzene	1.3	J	0.50	4.0	ug/L	J	25	< PQL			
440-238800-1	AA-BW-03A-20190411	440-238800-05	04/11/19	EPA-8260B	1,2-Dichloroethane	2.9	J	0.50	4.0	ug/L	J	25	< PQL			
440-238800-1	H-11-20190411	440-238800-06	04/11/19	EPA-8260B	Chlorobenzene	0.35	J	0.25	2.0	ug/L	J	25	< PQL			
440-239073-1	PL-510-20190415	440-239073-03	04/15/19	EPA-8260B	Chloroform	1.3	J	0.25	2.0	ug/L	J	25	< PQL			
440-239073-1	PL-510-20190415	440-239073-03	04/15/19	EPA-8260B	1,2-Dichloroethane	1.1	J	0.25	2.0	ug/L	J	25	< PQL			
440-239073-1	M-057A-20190415	440-239073-04	04/15/19	EPA-8260B	Tetrachloroethene	0.49	J	0.25	2.0	ug/L	J	25	< PQL			

Table V. Overall Qualified Results

SDG	Client Sample ID	Lab Sample ID	Sample Date	Method	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validation Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
440-239073-1	M-057A-20190415	440-239073-04	04/15/19	EPA-8260B	1,2-Dichloroethane	0.33	J	0.25	2.0	ug/L	J	25	< PQL			
440-239073-1	M-057A-20190415	440-239073-04	04/15/19	EPA-8260B	Trichloroethene	1.0	J	0.25	2.0	ug/L	J	25	< PQL			
440-239073-1	M-007B-20190415	440-239073-05	04/15/19	EPA-8260B	1,2-Dichloroethane	1.0	J	0.25	2.0	ug/L	J	25	< PQL			
440-239073-1	M-007B-20190415	440-239073-05	04/15/19	EPA-8260B	Chloroform	1.5	J	0.25	2.0	ug/L	J	25	< PQL			
440-239073-1	M-142-20190415	440-239073-06	04/15/19	EPA-8260B	1,4-Dichlorobenzene	0.29	J	0.25	2.0	ug/L	J	25	< PQL			
440-239073-1	M-142-20190415	440-239073-06	04/15/19	EPA-8260B	Carbon tetrachloride	0.73	J	0.25	1.0	ug/L	J	25	< PQL			
440-239073-1	M-142-20190415	440-239073-06	04/15/19	EPA-8260B	1,2-Dichlorobenzene	0.29	J	0.25	2.0	ug/L	J	25	< PQL			
440-239073-1	M-142-20190415	440-239073-06	04/15/19	EPA-8260B	1,1-Dichloroethene	0.51	J	0.25	5.0	ug/L	J	25	< PQL			
440-239073-1	M-149-20190415	440-239073-07	04/15/19	EPA-8260B	Benzene	0.25	J	0.25	2.0	ug/L	J	25	< PQL			
440-239073-1	M-149-20190415	440-239073-07	04/15/19	EPA-8260B	Chlorobenzene	1.5	J	0.25	2.0	ug/L	J	25	< PQL			
440-239264-1	M-092-20190416	440-239264-03	04/16/19	EPA-8260B	1,1-Dichloroethene	1.8	J	0.25	5.0	ug/L	J	25	< PQL			
440-239292-1	EC-04-20190417	440-239292-03	04/17/19	EPA-8260B	1,4-Dichlorobenzene	0.69	J	0.25	2.0	ug/L	J	25	< PQL			
440-239292-1	EC-04-20190417	440-239292-03	04/17/19	EPA-8260B	1,2-Dichlorobenzene	0.55	J	0.25	2.0	ug/L	J	25	< PQL			
440-239292-1	EC-10-20190417	440-239292-04	04/17/19	EPA-8260B	1,2,3-Trichlorobenzene	3.8	J	0.40	5.0	ug/L	J	25	< PQL			
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	1,1,1,2-Tetrachloroethane	1000	U	50	1000	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	1,1,1-Trichloroethane	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	1,1,2,2-Tetrachloroethane	400	U	50	400	ug/L	UJ	1,8	Holding time; MS/MSD %R	10; 40,28	7; 63-130	Days; %
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	1,1,2-Trichloroethane	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	1,1-Dichloroethane	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	1,1-Dichloroethene	1000	U	50	1000	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	1,1-Dichloropropene	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	1,2,3-Trichlorobenzene	98	J	80	1000	ug/L	J-	1,25	Holding time; < PQL	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	1,2,3-Trichloropropane	2000	U	50	2000	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	1,2,4-Trichlorobenzene	530	J	80	1000	ug/L	J-	1,25	Holding time; < PQL	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	1,2,4-Trimethylbenzene	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	1,2-Dibromo-3-Chloropropane	1000	U	100	1000	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	1,2-Dibromoethane (EDB)	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	1,2-Dichlorobenzene	1700		50	400	ug/L	J-	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	4-Chlorotoluene	1000	U	50	1000	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Benzene	38000	F1	500	4000	ug/L	J-	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Bromobenzene	1000	U	50	1000	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Bromochloromethane	1000	U	50	1000	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Bromodichloromethane	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Bromoform	1000	U	80	1000	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Dibromomethane	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Dichlorodifluoromethane	1000	U	50	1000	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Dimethyl disulfide	400	U	200	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Ethylbenzene	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Hexachlorobutadiene	1000	U	50	1000	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Isopropylbenzene	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	tert-Butylbenzene	1000	U	50	1000	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Tetrachloroethene	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Toluene	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	trans-1,2-Dichloroethene	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	trans-1,3-Dichloropropene	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Trichloroethene	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days

Table V. Overall Qualified Results

SDG	Client Sample ID	Lab Sample ID	Sample Date	Method	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validation Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	1,2-Dichloroethane	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	1,2-Dichloropropane	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	1,3,5-Trimethylbenzene	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	1,3-Dichlorobenzene	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	1,3-Dichloropropane	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	1,4-Dichlorobenzene	2100		50	400	ug/L	J-	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	2,2-Dichloropropane	400	U	80	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	2-Chlorotoluene	1000	U	50	1000	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Bromomethane	1000	U	50	1000	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Carbon tetrachloride	200	U	50	200	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Chlorobenzene	9300		50	400	ug/L	J-	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Chloroethane	1000	U	80	1000	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Chloroform	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Chloromethane	1000	U	50	1000	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	cis-1,2-Dichloroethene	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	cis-1,3-Dichloropropene	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Dibromochloromethane	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	m,p-Xylene	400	U	100	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Methylene Chloride	400	U	220	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Naphthalene	1000	U	80	1000	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	n-Butylbenzene	1000	U	80	1000	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	N-Propylbenzene	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	o-Xylene	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	p-Isopropyltoluene	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	sec-Butylbenzene	1000	U	50	1000	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Styrene	400	U	50	400	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Trichlorofluoromethane	1000	U	50	1000	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8260B	Vinyl chloride	1000	U	50	1000	ug/L	UJ	1	Holding time	10	7	Days
440-239435-1	MCF-BW-10A-20190418	440-239435-06	04/18/19	EPA-8260B	Chlorobenzene	0.59	J	0.25	2.0	ug/L	J	25	< PQL			
440-239435-1	MCF-BW-10A-20190418	440-239435-06	04/18/19	EPA-8260B	Benzene	1.1	J	0.25	2.0	ug/L	J	25	< PQL			
440-239435-1	MCF-BW-10A-20190418	440-239435-06	04/18/19	EPA-8260B	Chloroform	1.8	J	0.25	2.0	ug/L	J	25	< PQL			
440-238127-1	PL-501-20190405	440-238127-03	04/05/19	EPA-8081A	gamma-BHC (Lindane)	0.013	J p	0.0030	0.10	ug/L	J	25	< PQL			
440-238127-1	PL-501-20190405	440-238127-03	04/05/19	EPA-8081A	2,4'-DDE	0.025	J p	0.020	0.10	ug/L	J	14,25	FD RPD; < PQL	157	100	%
440-238127-1	WELL-E3-20190405	440-238127-04	04/05/19	EPA-8081A	gamma-BHC (Lindane)	0.044	J p	0.0030	0.099	ug/L	J	25	< PQL			
440-238127-1	WELL-F-20190405	440-238127-05	04/05/19	EPA-8081A	4,4'-DDD	0.017	J	0.0039	0.097	ug/L	J	25	< PQL			
440-238127-1	WELL-F-20190405	440-238127-05	04/05/19	EPA-8081A	gamma-BHC (Lindane)	0.036	J p	0.0029	0.097	ug/L	J	25	< PQL			
440-238127-1	WELL-F-20190405	440-238127-05	04/05/19	EPA-8081A	Methoxychlor	0.0091	J	0.0034	0.097	ug/L	J	25	< PQL			
440-238127-1	WELL-F-20190405	440-238127-05	04/05/19	EPA-8081A	4,4'-DDT	0.074	J B	0.0039	0.097	ug/L	J	25	< PQL			
440-238127-1	WELL-G-20190405	440-238127-06	04/05/19	EPA-8081A	Methoxychlor	0.0096	J	0.0034	0.097	ug/L	J	25	< PQL			
440-238127-1	WELL-D2-20190405	440-238127-07	04/05/19	EPA-8081A	gamma-BHC (Lindane)	0.0062	J p	0.0029	0.098	ug/L	J	25	< PQL			
440-238127-1	WELL-H2-20190405	440-238127-08	04/05/19	EPA-8081A	Endosulfan I	0.077	J	0.0030	0.10	ug/L	J	25	< PQL			
440-238127-1	WELL-I-20190405	440-238127-09	04/05/19	EPA-8081A	Methoxychlor	0.0042	J	0.0034	0.098	ug/L	J	25	< PQL			
440-238127-1	WELL-J-20190405	440-238127-10	04/05/19	EPA-8081A	Endosulfan I	0.046	J p	0.0030	0.10	ug/L	J	25	< PQL			
440-238127-1	WELL-J-20190405	440-238127-10	04/05/19	EPA-8081A	Endrin aldehyde	0.0021	J	0.0020	0.10	ug/L	J	25	< PQL			
440-238127-1	WELL-J-20190405	440-238127-10	04/05/19	EPA-8081A	gamma-BHC (Lindane)	0.035	J p	0.0030	0.10	ug/L	J	25	< PQL			
440-238127-1	WELL-K2-20190405	440-238127-11	04/05/19	EPA-8081A	Endosulfan I	0.035	J	0.0029	0.096	ug/L	J	25	< PQL			

Table V. Overall Qualified Results

SDG	Client Sample ID	Lab Sample ID	Sample Date	Method	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validation Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
440-238127-1	WELL-K2-20190405	440-238127-11	04/05/19	EPA-8081A	Methoxychlor	0.0068	J	0.0034	0.096	ug/L	J	25	< PQL			
440-238127-1	WELL-L-20190405	440-238127-12	04/05/19	EPA-8081A	gamma-BHC (Lindane)	0.044	J p	0.0029	0.095	ug/L	J	25	< PQL			
440-238127-1	WELL-N-20190405	440-238127-13	04/05/19	EPA-8081A	gamma-BHC (Lindane)	0.012	J p	0.0030	0.10	ug/L	J	25	< PQL			
440-238127-1	WELL-P-20190405	440-238127-14	04/05/19	EPA-8081A	gamma-BHC (Lindane)	0.025	J p	0.0030	0.10	ug/L	J	25	< PQL			
440-238127-1	WELL-O-20190405	440-238127-15	04/05/19	EPA-8081A	delta-BHC	1.7	J	0.035	2.0	ug/L	J	25	< PQL			
440-238127-1	WELL-O-20190405	440-238127-15	04/05/19	EPA-8081A	Methoxychlor	0.012	J	0.0035	0.099	ug/L	J	25	< PQL			
440-238127-1	WELL-O-20190405	440-238127-15	04/05/19	EPA-8081A	Dieldrin	0.0024	J	0.0020	0.0050	ug/L	J	25	< PQL			
440-238127-1	WELL-O-20190405	440-238127-15	04/05/19	EPA-8081A	gamma-BHC (Lindane)	0.061	J	0.0030	0.099	ug/L	J	25	< PQL			
440-238127-1	WELL-Q-20190405	440-238127-16	04/05/19	EPA-8081A	gamma-BHC (Lindane)	0.057	J p	0.0031	0.10	ug/L	J	25	< PQL			
440-238127-1	WELL-Q-20190405	440-238127-16	04/05/19	EPA-8081A	Methoxychlor	0.019	J	0.0036	0.10	ug/L	J	25	< PQL			
440-238127-1	WELL-Q-20190405	440-238127-16	04/05/19	EPA-8081A	Endosulfan I	0.026	J p	0.0031	0.10	ug/L	J	25	< PQL			
440-238127-1	WELL-J2-20190405	440-238127-17	04/05/19	EPA-8081A	gamma-BHC (Lindane)	0.034	J p	0.0030	0.099	ug/L	J	25	< PQL			
440-238127-1	WELL-R-20190405	440-238127-18	04/05/19	EPA-8081A	2,4'-DDT	0.042	J	0.021	0.10	ug/L	J	25	< PQL			
440-238127-1	WELL-R-20190405	440-238127-18	04/05/19	EPA-8081A	delta-BHC	1.7	J	0.073	4.1	ug/L	J	25	< PQL			
440-238127-1	WELL-R-20190405	440-238127-18	04/05/19	EPA-8081A	4,4'-DDE	0.029	J	0.0031	0.10	ug/L	J	25	< PQL			
440-238127-1	WELL-R-20190405	440-238127-18	04/05/19	EPA-8081A	4,4'-DDT	0.021	J	0.0041	0.10	ug/L	J	25	< PQL			
440-238127-1	WELL-R-20190405	440-238127-18	04/05/19	EPA-8081A	gamma-BHC (Lindane)	0.043	J p	0.0031	0.10	ug/L	J	25	< PQL			
440-238127-1	WELL-D3-20190405	440-238127-19	04/05/19	EPA-8081A	gamma-BHC (Lindane)	0.032	J p	0.0029	0.097	ug/L	J	25	< PQL			
440-238127-1	WELL-D3-20190405	440-238127-19	04/05/19	EPA-8081A	2,4'-DDT	0.047	J	0.019	0.097	ug/L	J	25	< PQL			
440-238127-1	WELL-D3-20190405	440-238127-19	04/05/19	EPA-8081A	2,4'-DDE	0.21		0.019	0.097	ug/L	J	14	FD RPD	157	100	%
440-238127-1	WELL-D3-20190405	440-238127-19	04/05/19	EPA-8081A	Endosulfan I	0.0069	J	0.0029	0.097	ug/L	J	25	< PQL			
440-238127-1	WELL-M2-20190405	440-238127-20	04/05/19	EPA-8081A	delta-BHC	3.3	J	0.068	3.9	ug/L	J	25	< PQL			
440-238310-1	MC-113-20190408	440-238310-05	04/08/19	EPA-8081A	2,4'-DDE	0.035	J p	0.020	0.099	ug/L	J	25	< PQL			
440-238310-1	MC-113-20190408	440-238310-05	04/08/19	EPA-8081A	gamma-BHC (Lindane)	0.015	J	0.0030	0.099	ug/L	J	25	< PQL			
440-238310-1	MC-113-20190408	440-238310-05	04/08/19	EPA-8081A	delta-BHC	0.18	J	0.0034	0.20	ug/L	J	25	< PQL			
440-238310-1	MC-114-20190408	440-238310-06	04/08/19	EPA-8081A	2,4'-DDE	0.023	J p	0.019	0.095	ug/L	J	25	< PQL			
440-238310-1	MC-114-20190408	440-238310-06	04/08/19	EPA-8081A	gamma-BHC (Lindane)	0.0055	J p	0.0028	0.095	ug/L	J	25	< PQL			
440-238310-1	MC-53-20190408	440-238310-07	04/08/19	EPA-8081A	delta-BHC	0.11	J	0.0036	0.20	ug/L	J	25	< PQL			
440-238310-1	MC-53-20190408	440-238310-07	04/08/19	EPA-8081A	gamma-BHC (Lindane)	0.0071	J	0.0030	0.10	ug/L	J	25	< PQL			
440-238310-1	MC-47-20190408	440-238310-08	04/08/19	EPA-8081A	gamma-BHC (Lindane)	0.0035	J	0.0030	0.10	ug/L	J	25	< PQL			
440-238310-1	MC-48-20190408	440-238310-09	04/08/19	EPA-8081A	gamma-BHC (Lindane)	0.013	J p	0.0028	0.095	ug/L	J	25	< PQL			
440-238310-1	MC-48-20190408	440-238310-09	04/08/19	EPA-8081A	delta-BHC	0.13	J p	0.0033	0.19	ug/L	J	25	< PQL			
440-238444-1	MW-R-20190409	440-238444-04	04/09/19	EPA-8081A	gamma-BHC (Lindane)	0.0046	J p	0.0030	0.10	ug/L	J	25	< PQL			
440-238444-1	MW-A-J-20190409	440-238444-07	04/09/19	EPA-8081A	gamma-BHC (Lindane)	0.0063	J p	0.0029	0.096	ug/L	J	25	< PQL			
440-238444-1	PC-064-20190409	440-238444-08	04/09/19	EPA-8081A	gamma-BHC (Lindane)	0.0046	J	0.0030	0.099	ug/L	J	25	< PQL			
440-238444-1	PC-064-20190409	440-238444-08	04/09/19	EPA-8081A	delta-BHC	0.0068	J p	0.0035	0.20	ug/L	J	25	< PQL			
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8081A	Dieldrin	0.0020	J p	0.0020	0.0041	ug/L	J	25	< PQL			
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8081A	delta-BHC	0.18	J	0.0036	0.20	ug/L	J	25	< PQL			
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-8081A	gamma-BHC (Lindane)	0.046	J	0.0030	0.10	ug/L	J	25	< PQL			
440-238680-1	H-55-20190410	440-238680-04	04/10/19	EPA-8081A	delta-BHC	0.055	J	0.0037	0.21	ug/L	J	25	< PQL			
440-238680-1	MC-111-20190410	440-238680-05	04/10/19	EPA-8081A	delta-BHC	0.0041	J p	0.0036	0.20	ug/L	J	25	< PQL			
440-238680-1	MC-111-20190410	440-238680-05	04/10/19	EPA-8081A	beta-BHC	0.0099	J	0.0041	0.010	ug/L	J	25	< PQL			
440-238680-1	MC-111-20190410	440-238680-05	04/10/19	EPA-8081A	gamma-BHC (Lindane)	0.018	J	0.0030	0.10	ug/L	J	25	< PQL			
440-238791-1	MW-2-20190412	440-238791-02	04/12/19	EPA-8081A	gamma-BHC (Lindane)	0.0047	J	0.0029	0.098	ug/L	J	25	< PQL			
440-238791-1	MW-4-20190412	440-238791-04	04/12/19	EPA-8081A	alpha-BHC	0.0030	J	0.0025	0.0051	ug/L	J	25	< PQL			
440-238800-1	MC-MW-32-20190411	440-238800-04	04/11/19	EPA-8081A	delta-BHC	0.031	J p	0.0034	0.20	ug/L	J+	13,25	Surrogate %R; < PQL	377	10-123	%

Table V. Overall Qualified Results

SDG	Client Sample ID	Lab Sample ID	Sample Date	Method	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validation Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
440-238800-1	MC-MW-32-20190411	440-238800-04	04/11/19	EPA-8081A	beta-BHC	0.068	p	0.0039	0.0098	ug/L	J+	13	Surrogate %R	377	10-123	%
440-238800-1	MC-MW-32-20190411	440-238800-04	04/11/19	EPA-8081A	alpha-BHC	0.021	p	0.0025	0.0049	ug/L	J+	13	Surrogate %R	377	10-123	%
440-238800-1	MC-MW-32-20190411	440-238800-04	04/11/19	EPA-8081A	gamma-BHC (Lindane)	0.0082	J p	0.0029	0.098	ug/L	J+	13,25	Surrogate %R; < PQL	377	10-123	%
440-238800-1	AA-BW-03A-20190411	440-238800-05	04/11/19	EPA-8081A	gamma-BHC (Lindane)	0.020	J	0.0030	0.10	ug/L	J	25	< PQL			
440-238800-1	AA-BW-03A-20190411	440-238800-05	04/11/19	EPA-8081A	delta-BHC	0.010	J p	0.0035	0.20	ug/L	J	25	< PQL			
440-239073-1	M-007B-20190415	440-239073-05	04/15/19	EPA-8081A	delta-BHC	0.0037	J p	0.0034	0.19	ug/L	J	25	< PQL			
440-239292-1	EC-04-20190417	440-239292-03	04/17/19	EPA-8081A	4,4'-DDE	0.0043	J	0.0029	0.096	ug/L	J	25	< PQL			
440-239292-1	EC-04-20190417	440-239292-03	04/17/19	EPA-8081A	beta-BHC	0.0041	J	0.0038	0.0096	ug/L	J	25	< PQL			
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-8081A	Methoxychlor	0.0035	J	0.0031	0.089	ug/L	J	25	< PQL			
440-238310-1	PL-502-20190408	440-238310-02	04/08/19	EPA-6020	Arsenic	0.10	J	0.10	0.20	ug/L	J	25	< PQL			
440-238310-1	PL-503-20190408	440-238310-03	04/08/19	EPA-6020	Silver	0.15	J	0.10	0.20	ug/L	J	25	< PQL			
440-238310-1	MC-113-20190408	440-238310-05	04/08/19	EPA-6020	Cadmium	1.1	J	1.0	2.0	ug/L	J	6,25	EB contamination ; < PQL	0.10	2.0	ug/L
440-238310-1	MC-113-20190408	440-238310-05	04/08/19	EPA-6020	Lead	1.3	J	1.0	2.0	ug/L	J	6,25	EB contamination ; < PQL	0.14	2.0	ug/L
440-238310-1	MC-53-20190408	440-238310-07	04/08/19	EPA-6020	Lead	1.6	J	1.0	2.0	ug/L	J	6,25	EB contamination ; < PQL	0.14	2.0	ug/L
440-238310-1	MC-47-20190408	440-238310-08	04/08/19	EPA-6020	Chromium	4.5		1.3	2.5	ug/L	J+	6	EB contamination	0.82; 0.70	2.5	ug/L
440-238310-1	MC-48-20190408	440-238310-09	04/08/19	EPA-6020	Chromium	7.2	J	5.0	10	ug/L	J	6,25	EB contamination ; < PQL	0.82; 0.70	10	ug/L
440-238310-1	MC-48-20190408	440-238310-09	04/08/19	EPA-6020	Cadmium	1.1	J	1.0	2.0	ug/L	J	6,25	EB contamination ; < PQL	0.10	2.0	ug/L
440-238310-1	MC-48-20190408	440-238310-09	04/08/19	EPA-6020	Silver	2.7	J	2.0	4.0	ug/L	J	6,25	EB contamination ; < PQL	0.32; 0.15	4.0	ug/L
440-238310-1	MC-49-20190408	440-238310-10	04/08/19	EPA-6020	Silver	2.3	J	2.0	4.0	ug/L	J	6,25	EB contamination ; < PQL	0.32; 0.15	4.0	ug/L
440-238310-1	MC-49-20190408	440-238310-10	04/08/19	EPA-6020	Lead	1.2	J	1.0	2.0	ug/L	J	6,25	EB contamination ; < PQL	0.14	2.0	ug/L
440-238444-1	PL-506-20190409	440-238444-03	04/09/19	EPA-6020	Chromium	16		0.25	0.50	ug/L	J	14	FD RPD	32	30	%
440-238444-1	MW-R-20190409	440-238444-04	04/09/19	EPA-6020	Chromium	1.4	J	1.3	2.5	ug/L	J	25	< PQL			
440-238444-1	PC-028-20190409	440-238444-05	04/09/19	EPA-6020	Lead	0.36	J	0.25	0.50	ug/L	J	25	< PQL			
440-238444-1	PC-031-20190409	440-238444-06	04/09/19	EPA-6020	Selenium	3.1	J	3.0	6.0	ug/L	J	25	< PQL			
440-238444-1	PC-031-20190409	440-238444-06	04/09/19	EPA-6020	Chromium	22		2.5	5.0	ug/L	J	14	FD RPD	32	30	%
440-238444-1	MW-A-J-20190409	440-238444-07	04/09/19	EPA-6020	Barium	91	F1 B	1.0	2.0	ug/L	J+	8	MS/MSD %R	173,203	80-120	%
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-6020	Lead	0.94	J	0.50	1.0	ug/L	J	25	< PQL			
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-6020	Silver	1.6	J	1.0	2.0	ug/L	J	25	< PQL			
440-238680-1	H-55-20190410	440-238680-04	04/10/19	EPA-6020	Lead	0.25	J	0.25	0.50	ug/L	J	25	< PQL			
440-238680-1	MC-111-20190410	440-238680-05	04/10/19	EPA-6020	Silver	0.14	J	0.10	0.20	ug/L	J	25	< PQL			
440-238734-1	MW-1-20190412	440-238734-01	04/12/19	EPA-6020	Lead	0.077	J	0.050	0.10	ug/L	J	25	< PQL			
440-238734-1	MW-2-20190412	440-238734-02	04/12/19	EPA-6020	Lead	0.051	J	0.050	0.10	ug/L	J	25	< PQL			
440-238734-1	MW-2-20190412	440-238734-02	04/12/19	EPA-6020	Selenium	0.59	J	0.30	0.60	ug/L	J	25	< PQL			
440-238734-1	MW-3-20190412	440-238734-03	04/12/19	EPA-6020	Chromium	0.31	J	0.25	0.50	ug/L	J	25	< PQL			
440-238800-1	MC-MW-35-20190411	440-238800-03	04/11/19	EPA-6020	Silver	0.13	J	0.10	0.20	ug/L	J	25	< PQL			
440-238800-1	MC-MW-32-20190411	440-238800-04	04/11/19	EPA-6020	Chromium	3.9	J B	2.5	5.0	ug/L	J	7,25	MB contamination; < PQL	0.310	5.0	ug/L
440-238800-1	H-11-20190411	440-238800-06	04/11/19	EPA-6020	Arsenic	0.11	J	0.10	0.20	ug/L	J	25	< PQL			
440-239073-1	PL-510-20190415	440-239073-03	04/15/19	EPA-6020	Chromium	8.8		0.25	0.50	ug/L	J	14	FD RPD	46	30	%
440-239073-1	M-057A-20190415	440-239073-04	04/15/19	EPA-6020	Cadmium	0.088	J	0.050	0.10	ug/L	J	25	< PQL			
440-239073-1	M-007B-20190415	440-239073-05	04/15/19	EPA-6020	Chromium	5.5		0.25	0.50	ug/L	J	14	FD RPD	46	30	%
440-239073-1	M-149-20190415	440-239073-07	04/15/19	EPA-6020	Cadmium	0.055	J	0.050	0.10	ug/L	J	25	< PQL			
440-239292-1	EC-04-20190417	440-239292-03	04/17/19	EPA-6020	Cadmium	0.056	J	0.050	0.10	ug/L	J	25	< PQL			
440-239435-1	PL-514-20190418	440-239435-03	04/18/19	EPA-6020	Arsenic	0.11	J	0.10	0.20	ug/L	J	25	< PQL			
440-239435-1	PL-514-20190418	440-239435-03	04/18/19	EPA-6020	Barium	0.54		0.10	0.20	ug/L	J+	7	MB contamination	0.318	0.20	ug/L
440-239435-1	PL-514-20190418	440-239435-03	04/18/19	EPA-6020	Cadmium	0.056	J	0.050	0.10	ug/L	J	25	< PQL			
440-239435-1	PL-514-20190418	440-239435-03	04/18/19	EPA-6020	Chromium	0.74		0.25	0.50	ug/L	J+	7	MB contamination	0.632	0.50	ug/L

Table V. Overall Qualified Results

SDG	Client Sample ID	Lab Sample ID	Sample Date	Method	Analyte	Lab Result	Lab Qualifier	SQL	PQL	Units	Validation Qualifier	Reason Code	Data Quality Indicator	Qualification Finding	Acceptance Criteria	
440-239435-1	PL-515-20190418	440-239435-04	04/18/19	EPA-6020	Barium	0.36		0.10	0.20	ug/L	J+	7	MB contamination	0.318	0.20	ug/L
440-239435-1	PL-515-20190418	440-239435-04	04/18/19	EPA-6020	Chromium	0.44	J	0.25	0.50	ug/L	J	7,25	MB contamination; < PQL	0.632	0.50	ug/L
440-239435-1	AA-MW-13R-20190418	440-239435-05	04/18/19	EPA-6020	Cadmium	0.50	J	0.50	1.0	ug/L	J	6,25	EB contamination ; < PQL	0.056	1.0	ug/L
440-239435-1	MCF-BW-10A-20190418	440-239435-06	04/18/19	EPA-6020	Lead	0.18		0.050	0.10	ug/L	J+	6	EB contamination	0.12	0.10	ug/L
440-238310-1	MC-113-20190408	440-238310-05	04/08/19	EPA-7470A	Mercury	0.00020	U	0.00010	0.00020	mg/L	R	8	MS/MSD %R	12,8	75-125	%
440-238310-1	MC-114-20190408	440-238310-06	04/08/19	EPA-7470A	Mercury	0.00029		0.00010	0.00020	mg/L	J	8,9	MS/MSD %R;RPD	12,8; 40	75-125	%
440-238310-1	MC-53-20190408	440-238310-07	04/08/19	EPA-7470A	Mercury	0.00020	U	0.00010	0.00020	mg/L	R	8	MS/MSD %R	12,8	75-125	%
440-238310-1	MC-47-20190408	440-238310-08	04/08/19	EPA-7470A	Mercury	0.00040		0.00010	0.00020	mg/L	J	8,9	MS/MSD %R;RPD	12,8; 40	75-125; 20	%
440-238310-1	MC-48-20190408	440-238310-09	04/08/19	EPA-7470A	Mercury	0.00020	U	0.00010	0.00020	mg/L	R	8	MS/MSD %R	12,8	75-125	%
440-238310-1	MC-49-20190408	440-238310-10	04/08/19	EPA-7470A	Mercury	0.00020	U	0.00010	0.00020	mg/L	R	8	MS/MSD %R	12,8	75-125	%
440-238447-1	MC-50-20190409	440-238447-01	04/09/19	EPA-7470A	Mercury	0.00020	U,F1 F2	0.00010	0.00020	mg/L	R	8	MS/MSD %R	16,12	75-125	%
440-238734-1	MW-3-20190412	440-238734-03	04/12/19	EPA-7470A	Mercury	0.00016	J	0.00010	0.00020	mg/L	J	25	< PQL			
440-239073-1	PL-510-20190415	440-239073-03	04/15/19	EPA-314.0	Perchlorate	24000		950	4000	ug/L	J	14	FD RPD	53	50	%
440-239073-1	M-057A-20190415	440-239073-04	04/15/19	EPA-314.0	Perchlorate	10000		950	4000	ug/L	J-	8	MS/MSD %R	57,76	80-120	%
440-239073-1	M-007B-20190415	440-239073-05	04/15/19	EPA-314.0	Perchlorate	14000		950	4000	ug/L	J	14	FD RPD	53	50	%
440-239073-1	M-149-20190415	440-239073-07	04/15/19	EPA-314.0	Perchlorate	290000		9500	40000	ug/L	J-	8	MS/MSD %R	57,76	80-120	%
440-239264-1	M-092-20190416	440-239264-03	04/16/19	EPA-314.0	Perchlorate	1700		95	400	ug/L	J-	8	MS/MSD %R	57,76	80-120	%
440-239264-1	M-136-20190416	440-239264-04	04/16/19	EPA-314.0	Perchlorate	46000		950	4000	ug/L	J-	8	MS/MSD %R	57,76	80-120	%
440-239264-1	M-150-20190416	440-239264-05	04/16/19	EPA-314.0	Perchlorate	25		4.8	20	ug/L	J-	8	MS/MSD %R	57,76	80-120	%
440-239292-1	EC-10-20190417	440-239292-04	04/17/19	EPA-314.0	Perchlorate	99000	F1	4800	20000	ug/L	J-	8	MS/MSD %R	57,76	80-120	%
440-239292-1	EC-14-20190417	440-239292-05	04/17/19	EPA-314.0	Perchlorate	1.8	J	0.95	4.0	ug/L	J	25	< PQL			

ATTACHMENT A

VOC DVR

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) SW 846 Method 8260B

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met with the following exceptions:

SDG	Sample	Compound	Total Days From Sample Collection Until Analysis	Required Holding Time (in Days) From Sample Collection Until Analysis	Flag	A or P
440-238447-1	MC-50-20190409	All compounds	12	7	J- (all detects) UJ (all non-detects)	A
440-239435-1	AA-MW-13R-20190418	All compounds	10	7	J- (all detects) UJ (all non-detects)	A

II. GC/MS Instrument Performance Check

Instrument performance check data were not reviewed for Stage 2A validation.

III. Initial Calibration and Initial Calibration Verification

Initial calibration data were not reviewed for Stage 2A validation.

IV. Continuing Calibration

Continuing calibration data were not reviewed for Stage 2A validation.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

Samples TB-20190405 (from SDG 440-238127-1), TB-20190408 (from SDG 440-238310-1), TB-20190409 (from SDG 440-238444-1), TB-20190410 (from SDG 440-238680-1), TB-20190412 (from SDG 440-238791-1), TB-20190411 (from SDG 440-238800-1), TB-20190415 (from SDG 440-239073-1), TB-20190416 (from SDG 440-239264-1) TB-20190417 (from SDG 440-239292-1), and TB-20190418 (from SDG 440-239435-1) were identified as trip blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Compound	Concentration	Associated Samples
440-238310-1	TB-20190408	04/08//19	1,2-Dichlorobenzene 1,4-Dichlorobenzene	1.1 ug/L 1.3 ug/L	PL-502-20190408 PL-503-20190408 PL-504-20190408 MC-113-20190408 MC-114-20190408 MC-53-20190408 MC-47-20190408 MC-48-20190408 MC-49-20190408

Samples PL-502-20190408 (from SDG 440-238310-1), PL-503-20190408 (from SDG 440-238310-1), PL-514-20190418 (from SDG 440-239435-1), and PL-515-20190418 (from SDG 440-239435-1) were identified as equipment blanks. No contaminants were found.

Samples PL-500-20190405 (from SDG 440-238127-1), PL-504-20190408 (from SDG 440-238310-1), PL-505-20190409 (from SDG 440-238444-1), PL-507-20190410 (from SDG 440-238680-1), PL-509-20190412 (from SDG 440-238791-1), PL-508-20190411 (from SDG 440-238800-1), PL-509-20190415 (from SDG 440-239073-1), PL-511-20190416 (from SDG 440-239264-1), PL-512-20190417 (from SDG 440-239292-1), and PL-513-20190418 (from SDG 440-239435-1) were identified as field blanks. No contaminants were found.

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater than the concentrations found in the associated field blanks with the following exceptions:

SDG	Sample	Compound	Reported Concentration	Modified Final Concentration
440-238310-1	MC-113-20190408	1,2-Dichlorobenzene	2.0 ug/L	2.0J ug/L
440-238310-1	MC-48-20190408	1,2-Dichlorobenzene 1,4-Dichlorobenzene	0.54 ug/L 1.1 ug/L	0.54J ug/L 1.1J ug/L

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

SDG	Sample	Surrogate	%R (Limits)	Affected Compound	Flag	A or P
440-238127-1	WELL-D2-20190405	Dibromofluoromethane	134 (76-132)	All compounds except Chlorobenzene	J+ (all detects)	A

VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits with the following exceptions:

SDG	Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-238127-1	PL-501-20190405MS/MSD (PL-501-20190405)	1,1,1-Trichloroethane	138 (70-130)	132 (70-130)	NA	-
440-238127-1	PL-501-20190405MS/MSD (PL-501-20190405)	1,2,4-Trichlorobenzene	55 (60-140)	45 (60-140)	J- (all detects)	A
440-238310-1	MC-114-20190408MS/MSD (MC-114-20190408)	Styrene	0 (29-150)	0 (29-150)	R (all non-detects)	A
440-238680-1	MC-111-20190410MS/MSD (MC-111-20190410)	1,2,4-Trimethylbenzene Styrene	58 (70-130) 10 (29-150)	52 (70-130) 8 (29-150)	UJ (all non-detects) UJ (all non-detects)	A
440-239435-1	AA-MW-13R-20190418MS/MSD (AA-MW-13R-20190418)	1,1,2,2-Tetrachloroethane	40 (63-130)	28 (63-130)	UJ (all non-detects)	A
440-239435-1	AA-MW-13R-20190418MS/MSD (AA-MW-13R-20190418)	Trichloroethene	161 (70-130)	170 (70-130)	NA	-

For PL-501-20190405MS/MSD and WELL-R-20190405MS/MSD (both from SDG 440-238127-1), no data were qualified for 1,2-dichlorobenzene, 1,4-dichlorobenzene, and chlorobenzene percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration.

For MC-114-20190408MS/MSD (from SDG 440-238310-1), no data were qualified for chlorobenzene percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration.

For M-057A-20190415MS/MSD and M-142-20190415MS/MSD (both from SDG 440-239073-1), no data were qualified for chloroform percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration.

Relative percent differences (RPD) were within QC limits with the following exceptions:

SDG	Spike ID (Associated Samples)	Compound	RPD (Limits)	Flag	A or P
440-239435-1	AA-MW-13R-20190418MS/MSD (AA-MW-13R-20190418)	1,1,2,2-Tetrachloroethane	35 (≤30)	NA	-

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits with the following exceptions:

SDG	LCS ID (Associated Samples)	Compound	%R (Limits)	Flag	A or P
440-238127-1	LCS 440-541083/8 (PL-501-20190405 WELL-E3-20190405 WELL-F-20190405 WELL-G-20190405 WELL-D2-20190405 WELL-H2-20190405 WELL-I-20190405 WELL-J-20190405 WELL-K2-20190405)	1,1,1-Trichloroethane	134 (70-130)	NA	-

X. Field Duplicates

Samples PL-501-20190405 and WELL-D3-20190405 (both from SDG 440-238127-1), samples PL-506-20190409 and PC-031-20190409 (both from SDG 440-238444-1), and samples PL-510-20190415 and M-007B-20190415 (both from SDG 440-239073-1) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		PL-501-20190405	WELL-D3-20190405			
440-238127-1	1,1-Dichloroethane	4.5	4.3	5 (≤100)	-	-
	1,1-Dichloroethene	0.47	0.50U	6 (≤100)	-	-
	1,2,3-Trichlorobenzene	10	6.5	42 (≤100)	-	-
	1,2,4-Trichlorobenzene	36	27	29 (≤100)	-	-
	1,2-Dichlorobenzene	45	43	5 (≤30)	-	-
	1,2-Dichloroethane	2.8	2.4	15 (≤100)	-	-
	1,2-Dichloropropane	2.4	0.50U	131 (≤100)	J (all detects) UJ (all non-detects)	A
	1,3-Dichlorobenzene	3.6	2.4	40 (≤100)	-	-
	Benzene	3.4	3.4	0 (≤100)	-	-
	Chloroform	0.38	0.50U	27 (≤100)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		PL-501-20190405	WELL-D3-20190405			
440-238127-1	cis-1,2-Dichloroethene	0.41	0.61	39 (≤100)	-	-
	tert-Butylbenzene	0.31	0.81	89 (≤100)	-	-
	Toluene	0.30	0.50U	50 (≤100)	-	-
	Trichloroethene	11	8.1	30 (≤100)	-	-
	1,4-Dichlorobenzene	84	60	33 (≤100)	-	-
	Chlorobenzene	450	460	2 (≤30)	-	-
	Dimethyl disulfide	1.0U	2.3	79 (≤100)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		PL-506-20190409	PC-031-20190409			
440-238444-1	1,1-Dichloroethane	1.3	1.2	8 (≤100)	-	-
	1,2,3-Trichlorobenzene	0.86	0.86	0 (≤100)	-	-
	1,2,4-Trichlorobenzene	7.1	6.9	3 (≤100)	-	-
	1,2-Dichlorobenzene	5.9	5.8	2 (≤100)	-	-
	1,2-Dichloroethane	0.37	0.41	10 (≤100)	-	-
	1,3-Dichlorobenzene	0.44	0.49	11 (≤100)	-	-
	1,4-Dichlorobenzene	8.7	9.2	6 (≤100)	-	-
	Chlorobenzene	0.44	0.39	12 (≤100)	-	-
	Chloroform	0.66	0.68	3 (≤100)	-	-
	Tetrachloroethene	0.26	0.25U	4 (≤100)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		PL-510-20190415	M-007B-20190415			
440-239073-1	1,1-Dichloroethane	2.3	2.3	0 (≤100)	-	-
	1,2-Dichloroethane	1.1	1.0	10 (≤100)	-	-
	Chloroform	1.3	1.5	14 (≤100)	-	-

XI. Internal Standards

Internal standard data were not reviewed for Stage 2A validation.

XII. Compound Quantitation

Raw data were not reviewed for Stage 2A validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Stage 2A validation.

XIV. System Performance

Raw data were not reviewed for Stage 2A validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method.

Due to MS/MSD %R, data were rejected in one sample.

Due to technical holding time, surrogate %R, MS/MSD %R, and field duplicate RPD, data were qualified as estimated in six samples.

Due to trip blank contamination, data were qualified as estimated in two samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be rejected (R) are unusable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

Site-Wide Groundwater Monitoring Program, Spring 2019
Volatiles - Data Qualification Summary - SDGs 440-238127-1, 440-238310-1, 440-238444-1, 440-238447-1, 440-238680-1, 440-238791-1, 440-238800-1, 440-239073-1, 440-239264-1, 440-239292-1, 440-239435-1

SDG	Sample	Compound	Flag	A or P	Reason (Code)
440-238447-1	MC-50-20190409	All compounds	J- (all detects) UJ (all non-detects)	A	Technical holding times (1)
440-239435-1	AA-MW-13R-20190418	All compounds	J- (all detects) UJ (all non-detects)	A	Technical holding times (1)
440-238127-1	WELL-D2-20190405	All compounds except Chlorobenzene	J+ (all detects)	A	Surrogates (%R) (13)
440-238127-1	PL-501-20190405	1,2,4-Trichlorobenzene	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (8)
440-238310-1	MC-114-20190408	Styrene	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (8)
440-238680-1	MC-111-20190410	1,2,4-Trimethylbenzene Styrene	UJ (all non-detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (8)
440-239435-1	AA-MW-13R-20190418	1,1,2,2-Tetrachloroethane	UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (8)
440-238127-1	PL-501-20190405 WELL-D3-20190405	1,2-Dichloropropane	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (14)

Site-Wide Groundwater Monitoring Program, Spring 2019
Volatiles - Laboratory Blank Data Qualification Summary - SDGs 440-238127-1, 440-238310-1, 440-238444-1, 440-238447-1, 440-238680-1, 440-238791-1, 440-238800-1, 440-239073-1, 440-239264-1, 440-239292-1, 440-239435-1

No Sample Data Qualified in these SDGs

Site-Wide Groundwater Monitoring Program, Spring 2019
Volatiles - Field Blank Data Qualification Summary - SDGs 440-238127-1, 440-238310-1, 440-238444-1, 440-238447-1, 440-238680-1, 440-238791-1, 440-238800-1, 440-239073-1, 440-239264-1, 440-239292-1, 440-239435-1

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
440-238310-1	MC-113-20190408	1,2-Dichlorobenzene	2.0J ug/L	A	18

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
440-238310-1	MC-48-20190408	1,2-Dichlorobenzene 1,4-Dichlorobenzene	0.54J ug/L 1.1J ug/L	A	18

ATTACHMENT B

2,2'/4,4'-DICHLOROBENZIL DVR

2,2'/4,4'-Dichlorobenzil by Environmental Protection Agency (EPA) SW 846 Method 8270C

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

Instrument performance check data were not reviewed for Stage 2A validation.

III. Initial Calibration and Initial Calibration Verification

Initial calibration data were not reviewed for Stage 2A validation.

IV. Continuing Calibration

Continuing calibration data were not reviewed for Stage 2A validation.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VIII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there was insufficient sample volume for analysis of the matrix spike and matrix spike duplicate.

IX. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

Internal standard data were not reviewed for Stage 2A validation.

XII. Compound Quantitation

Raw data were not reviewed for Stage 2A validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Stage 2A validation.

XIV. System Performance

Raw data were not reviewed for Stage 2A validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

Site-Wide Groundwater Monitoring Program, Spring 2019
2,2'/4,4'-Dichlorobenzil - Data Qualification Summary - SDG 440-238791-1

No Sample Data Qualified in this SDG

Site-Wide Groundwater Monitoring Program, Spring 2019
2,2'/4,4'-Dichlorobenzil - Laboratory Blank Data Qualification Summary - SDG 440-238791-1

No Sample Data Qualified in this SDG

Site-Wide Groundwater Monitoring Program, Spring 2019
2,2'/4,4'-Dichlorobenzil - Field Blank Data Qualification Summary - SDG 440-238791-1

No Sample Data Qualified in this SDG

ATTACHMENT C

Chlorinated Pesticides DVR

Chlorinated Pesticides by Environmental Protection Agency (EPA) SW 846 Method 8081A

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. GC Instrument Performance Check

Instrument performance check data were not reviewed for Stage 2A validation.

III. Initial Calibration and Initial Calibration Verification

Initial calibration data were not reviewed for Stage 2A validation.

IV. Continuing Calibration

Continuing calibration data were not reviewed for Stage 2A validation.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks with the following exceptions:

SDG	Blank ID	Extraction Date	Compound	Concentration	Associated Samples
440-238127-1	MB 440-539097/1-A	04/09/19	4,4'-DDE 4,4'-DDT	0.00670 ug/L 0.00488 ug/L	PL-501-20190405 WELL-E3-20190405 WELL-F-20190405 WELL-G-20190405 WELL-D2-20190405 WELL-H2-20190405 WELL-I-20190405 WELL-J-20190405 WELL-K2-20190405 WELL-L-20190405 WELL-N-20190405 WELL-P-20190405 WELL-O-20190405 WELL-Q-20190405 WELL-J2-20190405

Sample concentrations were compared to concentrations detected in the laboratory blanks. The sample concentrations were either not detected or were significantly greater than the concentrations found in the associated laboratory blanks.

VI. Field Blanks

Samples PL-502-20190408 (from SDG 440-238310-1), PL-503-20190408 (from SDG 440-238310-1), PL-514-20190418 (from SDG 440-239435-1), and PL-515-20190418 (from SDG 440-239435-1) were identified as equipment blanks. No contaminants were found.

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

SDG	Sample	Surrogate	%R (Limits)	Affected Compound	Flag	A or P
440-238800-1	MC-MW-32-20190411	Tetrachloro-m-xylene	377 (10-123)	All compounds	J+ (all detects)	P

Additionally, surrogate recoveries (%R) were not within QC limits for samples WELL-H2-20190405 and WELL-K2-20190405 (both from SDG 440-238127-1). No data were qualified for samples analyzed at greater than or equal to 5X dilution.

VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits with the following exceptions:

SDG	Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-238127-1	WELL-R-20190405MS/MSD (WELL-R-20190405)	2,4'-DDD	598 (50-125)	428 (50-125)	NA	-
440-238447-1	MC-50-20190409MS/MSD (MC-50-20190409)	2,4'-DDE	211 (45-125)	211 (45-125)	NA	-

For WELL-N-20190405MS/MSD and WELL-R-20190405MS/MSD (both from SDG 440238127-1), no data were qualified for alpha-BHC, beta-BHC, and delta-BHC percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration.

For MC-50-20190409MS/MSD (from SDG 440-238447-1), no data were qualified for beta-BHC percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration.

Relative percent differences (RPD) were within QC limits with the following exceptions:

SDG	Spike ID (Associated Samples)	Compound	RPD (Limits)	Flag	A or P
440-238127-1	WELL-R-20190405MS/MSD (WELL-R-20190405)	2,4'-DDD	33 (≤30)	NA	-

IX. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

X. Field Duplicates

Samples PL-501-20190405 and WELL-D3-20190405 (both from SDG 440-238127-1), samples PL-506-20190409 and PC-031-20190409 (both from SDG 440-238444-1), and samples PL-510-20190415 and M-007B-20190415 (both from SDG 440-239073-1) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		PL-501-20190405	WELL-D3-20190405			
440-238127-1	2,4'-DDE	0.025	0.21	157 (≤100)	J (all detects)	A
	gamma-BHC	0.013	0.032	84 (≤100)	-	-
	alpha-BHC	2.7	2.2	20 (≤30)	-	-
	delta-BHC	1.3	1.2	8 (≤100)	-	-
	2,4'-DDT	0.020U	0.047	81 (≤100)	-	-
	Endosulfan I	0.0030U	0.0069	79 (≤100)	-	-
	beta-BHC	6.0	5.4	11 (≤50)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		PL-506-20190409	PC-031-20190409			
440-238444-1	alpha-BHC	0.16	0.16	0 (≤30)	-	-
	delta-BHC	0.38	0.38	0 (≤100)	-	-
	beta-BHC	3.4	3.8	11 (≤30)	-	-

SDG	Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		PL-510-20190415	M-007B-20190415			
440-239073-1	alpha-BHC	0.015	0.016	6 (≤100)	-	-
	gamma-BHC	0.10	0.11	10 (≤100)	-	-
	delta-BHC	0.0034U	0.0037	8 (≤100)	-	-

XI. Compound Quantitation

Raw data were not reviewed for Stage 2A validation.

XII. Target Compound Identification

Raw data were not reviewed for Stage 2A validation.

XIII. System Performance

Raw data were not reviewed for Stage 2A validation.

XIII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in these SDGs.

Due to surrogate %R and field duplicate RPD, data were qualified as estimated in three samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

Site-Wide Groundwater Monitoring Program, Spring 2019
Chlorinated Pesticides - Data Qualification Summary - SDGs 440-238127-1, 440-238310-1, 440-238444-1, 440-238447-1, 440-238680-1, 440-238791-1, 440-238800-1, 440-239073-1, 440-239264-1, 440-239292-1, 440-239435-1

SDG	Sample	Compound	Flag	A or P	Reason (Code)
440-238800-1	MC-MW-32-20190411	All compounds	J+ (all detects)	P	Surrogates (%R) (13)
440-238127-1	PL-501-20190405 WELL-D3-20190405	2,4'-DDE	J (all detects)	A	Field duplicates (RPD) (14)

Site-Wide Groundwater Monitoring Program, Spring 2019
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDGs 440-238127-1, 440-238310-1, 440-238444-1, 440-238447-1, 440-238680-1, 440-238791-1, 440-238800-1, 440-239073-1, 440-239264-1, 440-239292-1, 440-239435-1

No Sample Data Qualified in these SDGs

Site-Wide Groundwater Monitoring Program, Spring 2019
Chlorinated Pesticides - Field Blank Data Qualification Summary - SDGs 440-238127-1, 440-238310-1, 440-238444-1, 440-238447-1, 440-238680-1, 440-238791-1, 440-238800-1, 440-239073-1, 440-239264-1, 440-239292-1, 440-239435-1

No Sample Data Qualified in this SDG

ATTACHMENT D

Metals DVR

Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver, and Uranium by Environmental Protection Agency (EPA) SW 846 Method 6020
Mercury by EPA SW 846 Method 7470A

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

ICP-MS tune data were not reviewed for Stage 2A validation.

III. Instrument Calibration

Instrument calibration data were not reviewed for Stage 2A validation.

IV. ICP Interference Check Sample Analysis

Interference check sample (ICS) analysis data were not reviewed for Stage 2A validation.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks with the following exceptions:

SDG	Blank ID	Analyte	Maximum Concentration	Associated Samples
440-238444-1	PB (prep blank)	Barium Chromium	0.443 ug/L 0.651 ug/L	MW-A-J-20190409
440-238800-1	PB (prep blank)	Barium Chromium	0.171 ug/L 0.310 ug/L	All samples in SDG 440-238800-1
440-239264-1	PB (prep blank)	Barium Chromium	0.234 ug/L 0.413 ug/L	All samples in SDG 440-239264-1
440-239292-1	PB (prep blank)	Chromium	0.505 ug/L	All samples in SDG 440-239292-1
440-239435-1	PB (prep blank)	Barium Chromium	0.318 ug/L 0.632 ug/L	PL-514-20190418 PL-515-20190418 MCF-BW-10A-20190418
440-239435-1	PB (prep blank)	Barium Chromium	0.234 ug/L 0.413 ug/L	AA-MW-13R-20190418

Data qualification by the laboratory blanks was based on the maximum contaminant concentration in the laboratory blanks in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater than the concentrations found in the associated laboratory blanks with the following exceptions:

SDG	Sample	Compound	Reported Concentration	Modified Final Concentration
440-238800-1	MC-MW-32-20190411	Chromium	3.9 ug/L	3.9J ug/L
440-239435-1	PL-514-20190418	Barium Chromium	0.54 ug/L 0.74 ug/L	0.54J+ ug/L 0.74J+ ug/L
440-239435-1	PL-515-20190418	Barium Chromium	0.36 ug/L 0.44 ug/L	0.36J+ ug/L 0.44J ug/L

VI. Field Blanks

Samples PL-502-20190408 (from SDG 44-238310-1), PL-503-20190408 (from SDG 44-238310-1), PL-514-20190418 (from SDG 440-239435-1), and PL-515-20190418 (from SDG 440-239435-1) were identified as equipment blanks. No contaminants were found with the following exceptions:

SDG	Blank ID	Collection Date	Analyte	Concentration	Associated Samples
440-238310-1	PL-502-20190408	04/08/19	Arsenic Barium Cadmium Chromium Lead Silver Uranium	0.1 ug/L 0.69 ug/L 0.10 ug/L 0.82 ug/L 0.14 ug/L 0.32 ug/L 0.13 ug/L	MC-113-20190408 MC-114-20190408 MC-53-20190408 MC-47-20190408 MC-48-20190408 MC-49-20190408
440-238310-1	PL-503-20190408	04/08/19	Barium Chromium Silver	0.41 ug/L 0.70 ug/L 0.15 ug/L	MC-113-20190408 MC-114-20190408 MC-53-20190408 MC-47-20190408 MC-48-20190408 MC-49-20190408
440-239435-1	PL-514-20190418	04/18/19	Arsenic Barium Cadmium Chromium Lead Uranium	0.11 ug/L 0.54 ug/L 0.056 ug/L 0.74 ug/L 0.12 ug/L 0.11 ug/L	AA-MW-13R-20190418 MCF-BW-10A-20190418
440-239435-1	PL-515-20190418	04/18/19	Barium Chromium	0.36 ug/L 0.44 ug/L	AA-MW-13R-20190418 MCF-BW-10A-20190418

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater than the concentrations found in the associated field blanks with the following exceptions:

SDG	Sample	Analyte	Reported Concentration	Modified Final Concentration
440-238310-1	MC-113-20190408	Cadmium Lead	1.1 ug/L 1.3 ug/L	1.1J ug/L 1.3J ug/L
440-238310-1	MC-53-20190408	Lead	1.6 ug/L	1.6J ug/L
440-238310-1	MC-47-20190408	Chromium	4.5 ug/L	4.5J+ ug/L
440-238310-1	MC-48-20190408	Cadmium Chromium Silver	1.1 ug/L 7.2 ug/L 2.7 ug/L	1.1J ug/L 7.2J ug/L 2.7J ug/L
440-238310-1	MC-49-20190408	Lead Silver	1.2 ug/L 2.3 ug/L	1.2J ug/L 2.3J ug/L
440-239435-1	AA-MW-13R-20190418	Cadmium	0.50 ug/L	0.50J ug/L
440-239435-1	MCF-BW-10A-20190418	Lead	0.18 ug/L	0.18J+ ug/L

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits with the following exceptions:

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-238310-1 (04/17/19)	MC-50-20190409MS/MSD (MC-114-20190408 MC-47-20190408)	Mercury	12 (75-125)	8 (75-125)	J- (all detects)	A
440-238310-1 (04/17/19)	MC-50-20190409MS/MSD (MC-113-20190408 MC-53-20190408 MC-48-20190408 MC-49-20190408)	Mercury	12 (75-125)	8 (75-125)	R (all non-detects)	A
440-238444-1	MW-A-J-20190409MS/MSD (MW-A-J-20190409)	Barium	173 (80-120)	203 (80-120)	J+ (all detects)	A
440-238447-1 (04/18/19)	MC-50-20190409MS/MSD (MC-50-20190409)	Mercury	16 (75-125)	12 (75-125)	R (all non-detects)	A

Relative percent differences (RPD) were within QC limits with the following exceptions:

SDG	Spike ID (Associated Samples)	Analyte	RPD (Limits)	Flag	A or P
440-238310-1 (04/17/19)	MC-50-20190409MS/MSD (MC-113-20190408 MC-114-20190408 MC-53-20190408 MC-47-20190408 MC-48-20190408 MC-49-20190408)	Mercury	42 (≤20)	J (all detects) UJ (all non-detects)	A
440-238447-1 (04/18/19)	MC-50-20190409MS/MSD (MC-50-20190409)	Mercury	26 (≤20)	UJ (all non-detects)	A

VIII. Duplicate Sample Analysis

The laboratory has indicated that there were no duplicate (DUP) analyses specified for the samples in these SDGs, and therefore duplicate analyses were not performed for these SDGs.

IX. Serial Dilution

Serial dilution was not performed for these SDGs.

X. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits.

XI. Field Duplicates

Samples PL-506-20190409 and PC-031-20190409 (both from SDG 440-238444-1) and samples PL-510-20190415 and M-007B-20190415 (both from SDG 440-239073-1) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

SDG	Analyte	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		PL-506-20190409	PC-031-20190409			
440-238444-1	Arsenic	86	91	6 (≤50)	-	-
	Barium	160	190	17 (≤50)	-	-
	Cadmium	0.27	0.10U	92 (≤100)	-	-
	Chromium	16	22	32 (≤30)	J (all detects)	A

SDG	Analyte	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		PL-506-20190409	PC-031-20190409			
	Lead	3.6	4.3	18 (≤30)	-	-
440-238444-1	Selenium	3.4	3.1	9 (≤100)	-	-
	Uranium	19	20	5 (≤50)	-	-

SDG	Analyte	Concentration (ug/L)		RPD (Limits)	Flag	A or P
		PL-510-20190415	M-007B-20190415			
440-239073-1	Arsenic	76	78	3 (≤50)	-	-
	Barium	41	54	27 (≤50)	-	-
	Cadmium	0.14	0.22	44 (≤100)	-	-
	Chromium	8.8	5.5	46 (≤30)	J (all detects)	A
	Lead	0.62	1.4	77 (≤100)	-	-
	Selenium	4.6	4.5	2 (≤100)	-	-
	Uranium	47	49	4 (≤50)	-	-

XII. Internal Standards (ICP-MS)

Internal standard data were not reviewed for Stage 2A validation.

XIII. Sample Result Verification

Raw data were not reviewed for Stage 2A validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the methods.

Due to MS/MSD %R, data were rejected in five samples.

Due to MS/MSD %R and RPD and field duplicate RPD, data were qualified as estimated in seven samples.

Due to laboratory blank contamination, data were qualified as estimated in three samples.

Due to equipment blank contamination, data were qualified as estimated in seven samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be rejected (R) are unusable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

Site-Wide Groundwater Monitoring Program, Spring 2019
Metals - Data Qualification Summary - SDGs 440-238310-1, 440-238444-1, 440-238447-1, 440-238680-1, 440-238734-1, 440-238800-1, 440-239073-1, 440-239264-1, 440-239292-1, 440-239435-1

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-238310-1	MC-114-20190408 MC-47-20190408	Mercury	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (8)
440-238310-1	MC-113-20190408 MC-53-20190408 MC-48-20190408 MC-49-20190408	Mercury	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (8)
440-238444-1	MW-A-J-20190409	Barium	J+ (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (8)
440-238447-1	MC-50-20190409	Mercury	R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (8)
440-238310-1	MC-114-20190408 MC-47-20190408	Mercury	J (all detects)	A	Matrix spike/Matrix spike duplicate (RPD) (9)
440-238444-1	PL-506-20190409 PC-031-20190409	Chromium	J (all detects)	A	Field duplicates (RPD) (14)
440-239073-1	PL-510-20190415 M-007B-20190415	Chromium	J (all detects)	A	Field duplicates (RPD) (14)

Site-Wide Groundwater Monitoring Program, Spring 2019
Metals - Laboratory Blank Data Qualification Summary - SDGs 440-238310-1, 440-238444-1, 440-238447-1, 440-238680-1, 440-238734-1, 440-238800-1, 440-239073-1, 440-239264-1, 440-239292-1, 440-239435-1

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
440-238800-1	MC-MW-32-20190411	Chromium	3.9J ug/L	A	7
440-239435-1	PL-514-20190418	Barium Chromium	0.54J+ ug/L 0.74J+ ug/L	A	7
440-239435-1	PL-515-20190418	Barium Chromium	0.36J+ ug/L 0.44J ug/L	A	7

Site-Wide Groundwater Monitoring Program, Spring 2019
Metals - Field Blank Data Qualification Summary - SDGs 440-238310-1, 440-238444-1, 440-238447-1, 440-238680-1, 440-238734-1, 440-238800-1, 440-239073-1, 440-239264-1, 440-239292-1, 440-239435-1

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
440-238310-1	MC-113-20190408	Cadmium Lead	1.1J ug/L 1.3J ug/L	A	6
440-238310-1	MC-53-20190408	Lead	1.6J ug/L	A	6
440-238310-1	MC-47-20190408	Chromium	4.5J+ ug/L	A	6
440-238310-1	MC-48-20190408	Cadmium Chromium Silver	1.1J ug/L 7.2J ug/L 2.7J ug/L	A	6
440-238310-1	MC-49-20190408	Lead Silver	1.2J ug/L 2.3J ug/L	A	6
440-239435-1	AA-MW-13R-20190418	Cadmium	0.50J ug/L	A	6
440-239435-1	MCF-BW-10A-20190418	Lead	0.18J+ ug/L	A	6

ATTACHMENT E

Perchlorate and TDS DVR

Perchlorate by Environmental Protection Agency (EPA) Method 314.0
Total Dissolved Solids by Standard Method 2540C

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Initial Calibration

Initial calibration data were not reviewed for Stage 2A validation.

III. Continuing Calibration

Continuing calibration data were not reviewed for Stage 2A validation.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks.

V. Field Blanks

Samples PL-502-20190408 (from SDG 440-238310-1), PL-503-20190408 (from SDG 440-238310-1), PL-514-20190418 (from SDG 440-239435-1), and PL-515-20190418 (from SDG 440-239435-1) were identified as equipment blanks. No contaminants were found.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits with the following exceptions:

SDG	Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
440-239073-1	EC10-20190417MS/MSD (M-057A-20190415 M-149-20190415)	Perchlorate	57 (80-120)	76 (80-120)	J- (all detects)	A
440-239264-1	EC-10-20190417MS/MSD (All samples in SDG 440-239264-1)	Perchlorate	57 (80-120)	76 (80-120)	J- (all detects)	A
440-239292-1	EC-10-20190417MS/MSD (EC-10-20190417)	Perchlorate	57 (80-120)	76 (80-120)	J- (all detects)	A

Relative percent differences (RPD) were within QC limits.

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

Samples PL-506-20190409 and PC-031-20190409 (both from SDG 440-238444-1) and samples samples PL-510-20190415 and M-007B-20190415 (both from SDG 440-239073-1) were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PL-506-20190409	PC-031-20190409			
440-238444-1	Perchlorate	37000 ug/L	37000 ug/L	0 (≤50)	-	-
	Total dissolved solids	4100 mg/L	4100 mg/L	0 (≤30)	-	-

SDG	Analyte	Concentration		RPD (Limits)	Flag	A or P
		PL-510-20190415	M-007B-20190415			
440-239073-1	Perchlorate	24000 ug/L	14000 ug/L	53 (≤50)	J (all detects)	A
	Total dissolved solids	7700 mg/L	7900 mg/L	3 (≤30)	-	-

X. Sample Result Verification

Raw data were not reviewed for Stage 2A validation.

XI. Overall Assessment of Data

The analysis was conducted within all specifications of the methods. No results were rejected in this SDG.

Due to MS/MSD %R and field duplicate RPD, data were qualified as estimated in eight samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

Site-Wide Groundwater Monitoring Program, Spring 2019
Wet Chemistry - Data Qualification Summary - SDGs 440-238310-1, 440-238444-1, 440-238447-1, 440-238680-1, 440-238734-1, 440-238800-1, 440-239073-1, 440-239264-1, 440-239292-1, 440-239435-1

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
440-239073-1	M-057A-20190415 M-149-20190415	Perchlorate	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (8)
440-239264-1	M-092-20190416 M-136-20190416 M-150-20190416	Perchlorate	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (8)
440-239292-1	EC-10-20190417	Perchlorate	J- (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (8)
440-239073-1	PL-510-20190415 M-007B-20190415	Perchlorate	J (all detects)	A	Field duplicates (RPD) (14)

Site-Wide Groundwater Monitoring Program, Spring 2019
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDGs 440-238310-1, 440-238444-1, 440-238447-1, 440-238680-1, 440-238734-1, 440-238800-1, 440-239073-1, 440-239264-1, 440-239292-1, 440-239435-1

No Sample Data Qualified in these SDGs

Site-Wide Groundwater Monitoring Program, Spring 2019
Wet Chemistry - Field Blank Data Qualification Summary - SDGs 440-238310-1, 440-238444-1, 440-238447-1, 440-238680-1, 440-238734-1, 440-238800-1, 440-239073-1, 440-239264-1, 440-239292-1, 440-239435-1

No Sample Data Qualified in these SDGs

ATTACHMENT F

Laboratory Standard Operating Procedure (SOP) for Determination of Method Detection Limits

Title: Determination of Method Detection Limits

Approvals (Signature/Date):

Maria Friedman Quality Assurance Manager	11-3-2014 Date	Kirk Miltimore Laboratory Director	11/3/14 Date

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1.0 PURPOSE

1.1 This document describes the procedures, calculations, and acceptance criteria to be followed and used when conducting Method Detection Limit (MDL) studies and MDL verifications (MDLVs).

1.2 An MDL study shall be performed for each matrix-method (preparative and analytical) combination when new or existing analytical methods are expected to be analyzed in either a newly installed or existing analytical instrument, and when there is a significant change in the existing analytical procedure that may affect method sensitivity such as, but not limited to, changes in extraction solvent, extraction method, calibration levels, detector, and type of analytical columns used. The MDL study is repeated annually or at a frequency specified in the published methods, regulatory programs, or project-specific requirements.

2.0 SCOPE

2.1 MDL studies and MDLVs shall include all target analytes that the laboratory reports.

2.2 Surrogates and internal standards are not required to have MDL studies.

2.3 An MDL study is not required for methods not reported below the RL, except for Drinking Water methods.

2.4 For multi-component analytes that have similar congeners, a representative analyte can be used for the MDL study (e.g., Aroclors 1016 and 1260 can represent other Aroclors), unless specified otherwise by method (e.g., Method 505 requires an MDL study for each of the multi-component analytes), project requirements, or regulatory program.

2.5 An MDL study for a method cannot be performed if the analyte cannot be added in a known quantity (i.e., cannot be accurately prepared at low level) to a test matrix. Examples of affected methods are pH, TVS, Settleable Solids, BOD, Flashpoint, Turbidity, Residual Chlorine, Color, Specific Conductance, and Specific Gravity determination. See Attachment 5.

2.6 For gravimetric methods, the sensitivity of the balance limits the sensitivity of the MDL. For example, a calculated MDL of 0.020 mg/L for TSS cannot be used. Since the nominal sample volume for TSS is 1000 mL and the sensitivity of the analytical balance is 0.10 mg, the lowest concentration that can be determined is 0.10 mg/L. The MDL cannot be below this concentration.

2.7 For titrimetric methods, the detection limits are defined by the smallest amount of reagent that can be added during a titration to cause a chemical change. A typical drop from a burette can be considered to be 0.050 mL. Therefore, a calculated MDL value cannot be smaller than the concentration calculated using this volume.

2.8 For calculated analytes (e.g., Total Xylenes and Hardness), MDLs generally do not apply. However, if required in a project or program, the MDL will be based on the component with the **highest MDL**.

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3.0 SAFETY

There are no specific safety hazards associated with this SOP. During the course of performing this procedure, it may be necessary to go into laboratory areas to consult with appropriate staff members, therefore. employees performing this procedure must be familiar with the Laboratory Health & Safety Plan, and take appropriate precautions and wear appropriate attire and safety glasses.

4.0 DEFINITIONS

4.1 Method Detction Limit (MDL)

The MDL is defined as: "...the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix containing the analyte." (*Definition and Procedure for the Determination of the Method Detection Limit*, F.R. 43430, Oct. 26, 1984).

4.2 Method Detection Limit Verification (MDLV)

The MDLV is a standard prepared in the same manner as the MDL replicates, containing the analytes at a concentration between the calculated MDL and the RL.

The MDLV is used to confirm the MDL though (a) detection of a minimum response greater than 3 times the average noise; or (b) detection of a response distinguishable from the blank.

Note that the MDLV must meet all qualitative identification criteria appropriate for the method, such as ion ratios for GC/MS, peak patterns for PCBs, and number of peaks used for multi-component analytes (e.g., PCBs and Chlordane).

4.3 Reporting Limit (RL)

The RL is the minimum quantity of a substance that can be reported with a specified degree of confidence. The RL must be supported by a low-level calibration standard. Results below the RL are considered to be estimated values where qualitative detection is reliable, but the reliability of quantitative values is unknown. Therefore, the RL must be greater than the MDL and set to an amount that can be reliably distinguished from the MDL (typically based on uncertainty of +/-25%). At a minimum, the RL must be at least two times the MDL.

4.4 Matrix

Unless otherwise specified by special projects or programs, the following media shall be used in MDL studies:

- Water: Laboratory Grade Reagent water
- Soil/Solid (Organic and some Wet Chemistry methods): Ottawa sand or Sodium Sulfate)

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- Soil/Solid (Metals and some Wet Chemistry methods): Teflon chips or glass beads
- Wipes: MDLs are based on water MDLs using the nominal sample analysis volume to determine an equivalent MDL in total ug (or mg) per wipe.
- Leachates: MDLS are based on water MDLs factored for the actual sample volume used compared to the nominal water volume.
- Wastes: MDLs are based on soil MDLs factored for the actual sample weight used compared to the nominal soil weight.
- Air: MDLs are based on water MDLs factored for the actual sample volume used compared to the nominal water volume.

4.5 95% Confidence

The confidence interval is a measure of the limitation of the accuracy (i.e. statistical significance) of the calculated MDL compared to the LIMS MDL. If the calculated MDL is less than or equal to the 95% confidence interval, the MDL can be deemed acceptable even if it is greater than the current LIMS MDL.

5.0 PROCEDURE

5.1 MDL Determination

MDL studies shall be conducted according to the procedures defined in 40 CFR Part 136 Appendix B. Alternatively, MDLs may be determined by the statistical analysis of method blank results over time, provided the analytical system produces a numeric result for blanks (e.g., ICP).

5.1.1 Replicates
Prepare seven replicates of MDL solutions according to the preparative method in use. For extraction and digestion methods, document the preparation in an extraction bench sheet, with each replicate named as an "MDLS" and the spike concentration/amount specified. For analytical methods without extraction or digestion, document all of the spike amounts in the analytical batch.

5.1.2 Spike concentration
Spike concentration for MDL determination must be selected based on published limits, prior experience, or the lowest calibration point. Spikes must be two to five times the expected MDL, and the MDL spiking concentration must not exceed the target RL.

5.1.3 All MDL replicates must be used for calculation, unless there is an injection or instrument problem. In the event of an injection or instrument problem, the reason for rejecting the replicate must be clearly documented (e.g., mis-spiking, mis-injection, contamination, etc.). MDL replicates must not be simply rejected in order to generate a lower MDL value.

5.1.4 Accompanying Quality Control (QC)
MDL samples must be treated the same way as client samples and, therefore, must be run with acceptable instrument calibration and QC (e.g., ICV/CCV, ICB/CCB, Method Blank, tuning, etc.).

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5.1.5 Manual integration of MDL peaks must not be performed to produce lower MDLs. Manual integration may be used only to correct peaks that are poorly integrated, as would be done for client samples.

5.1.6 If an analyte is detected in the Method Blank, the Method Blank level must not be subtracted from the MDL results.

5.1.7 Although it is acceptable to prepare and analyze the MDL replicates at the same time (in one day), a more representative MDL value will be obtained if the replicates are processed over a period of two or more days in order to take into account day-to-day fluctuations. If replicates are processed over multiple days, none may be excluded during this period unless there is an injection or instrument problem.

5.1.8 Dual detection
For instruments that have dual columns / dual detectors, the MDL study must be performed on both channels and the results pooled to report the higher value. The MDL study must be acceptable on both channels.

5.1.9 Multiple instruments for one method
The following options are acceptable for multiple instruments with identical configurations:

- Conduct a full MDL study on one or more of the instruments (preferably the less sensitive ones) and confirm the attainability of the single instrument MDL (or multiple instruments pooled MDL) on all other instruments, using an MDLV. The highest verified MDL will be used for all instruments.
- Conduct full MDL studies on all instruments and pool the results. The highest calculated MDL must still be successfully verified on all instruments.

5.1.10 Frequency
MDLs (and verifications) are determined annually, unless otherwise specified by the method, regulatory programs or special projects.

5.1.11 Long-Term Method Blanks
For analyses that produce numeric blank results (e.g., ICP, ICP/MS), an evaluation of long-term Method Blank results may be used in lieu of a full MDL study. At least three months of Method Blank results are required if this option is used. Furthermore, MDLs calculated using long-term Method Blanks may be compared with the 40 CFR MDL, and the higher of the two values used as the reporting MDL.

5.2 MDL Verification

An MDLV shall be analyzed, immediately after an MDL study, in each analytical instrument that will be used for the analytical method that is the subject of the MDL study.

5.2.1 Immediately after the MDL study, perform the MDL verification by analyzing a standard spiked at one of the following levels:

- The concentration of the MDLV must be no more than 4-times **the calculated**

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MDL for methods with multiple analytes; and no more than 3-times **the calculated MDL** for methods with single analytes.

- MDLV concentrations must be **less** that the laboratory reporting limit.
- Project-specific requirements may dictate that the MDL be verified at **the LIMS MDL**.

5.2.2 Note that for multiple-instrument methods, the MDL verification for all instruments must be performed no later than 3 months after the full MDL study was run.

5.2.3 The MDL study is not valid and shall not be used until the verification has been completed.

5.3 MDL Calculation

5.3.1 Standard Deviation

$$SD = \sqrt{\frac{n\sum x^2 - (\sum x)^2}{n(n-1)}}$$

Where SD = standard deviation
x = individual replicate measurement – average measurement of all replicates
n = number of replicates

This is equivalent to the "STDEV" function in Microsoft Excel

5.3.2 The 40 CFR MDL

The 40 CFR MDL is calculated as follow:

$$MDL = SD \times t$$

Where, SD: standard deviation from replicate analysis of MDL solutions

t: Student's t value (see Attachment 1)

5.3.3 The long-term Method Blank MDL

The long-term MDL is calculated as follows:

$$MDL = m + SD \times t$$

Where, m: mean concentration for blank results (use zero if negative).

SD: standard deviation from replicate analysis of MB solutions

t: Student's t value (see Attachment 1)

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5.4 MDL Acceptance Criteria

5.4.1 Completeness

Verify that the MDL record includes all the replicates that are processed, prepared, and analyzed per acceptable procedures, and the statistical calculations are correct. Additionally, ensure the MDL record contains information on the method (preparatory and analytical), the applicable LIMS Method Limit Group, the instrument used, the analysis date, all of the analytes in the list, the matrix, the analyst, and any comments.

5.4.2 Recovery for MDL/MDLV

Verify that the MDL/MDLV solutions are detectable (preferably within 50-150% recovery) and positively identified. If not, they have to be re-verified at higher spike concentration.

5.4.2.1 Note that extremely low or high recoveries are probably indicative of poor instrument performance, poor calibration curve fit, or contamination, and that the resulting calculated MDL may not be realistic.

5.4.2.2 Investigation of these extremely low or high recoveries should include the inspection of the type of calibration curve used, consideration of the possibility of contamination from the extraction, digestion, instrumentation, etc.

5.4.2.3 Any deviation from these criteria may be accepted upon QA Manager approval. Legally defensible reasons must be submitted for these approvals.

5.4.3 MDL Rejection

Verify that the MDL solutions are consistently detected and free of contamination or mis-injection. Extreme outlier MDL replicates must be rejected or re-run. If a systematic error is suspected (e.g. mis-injection), the specific replicate must be rejected for all analytes and the remaining replicates must number at least 7. For example, some analytes may be more vulnerable to contamination than others (e.g., Zinc in ICP/MS and alpha-BHC in pesticides), but selective rejection of data points to achieve a lower MDL is not acceptable. If a replicate is rejected, document the reason in the comment section of the MDL review checklist.

5.4.4 Calculated MDL

Verify that the calculated MDL is greater than 10% of the spike concentration. If the calculated MDL is less that 10% of the spike concentration, the MDL is too small relative to the spike concentration; the spike may have to be repeated at lower concentration, unless it can no longer be detected above the noise level. For multi-analyte MDL solutions, it is acceptable that up to 10% of all analytes (in a chart) may have calculated MDLs lower than 10% of the spike concentration, provided that the MDL verifications for these analytes are done at the reporting MDL.

If the calculated MDL is less than 10% of the spike concentration, but there are historical data showing that spiking at lower concentration cannot yield detections above the noise level, then the MDL study will be approved at the higher concentration. There must be documentation to support this situation.

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5.4.5 MDL verifications

The MDLV must be spiked at a level at or above the LIMS MDL, but below the RL. Verify that the ratio of the spike concentration of the MDLV to the reporting MDL is between 1:1 and 3:1 (provided the spike concentration is less than one-half the RL). See criteria described above.

5.5 Documentation and Reporting

5.5.1 For single instrument methods, the verified MDL is used for reporting purposes. For multi-instrument methods, pool the verified MDLs (if applicable) and use the highest for reporting.

5.5.2 MDL study documentation consists of the worklist report (from Chrom, if applicable), and the MDL/MDLV summary forms. See Attachment 2.

5.5.3 Due to the fluctuating nature of MDL values from study to study, final MDL concentrations are generally rounded to no more than two significant figures and always set to no more that ½ the RL. This eliminates the need to continually update MDLs for minor variations.

5.5.4 Note that MDLs are updated only when the new calculated MDL is higher than the current reporting MDL .

5.6 Processing MDL and MDLV summaries in TALS

5.6.1 MDL charts are generated using the Control Chart module in TALS. The charts include the following information for each analyte: the spike level, each replicate result, the calculated mean, the standard deviation, the calculated MDL, the current reporting limit, and the analysis dates. The summary report also identifies the sample preparation method (if applicable), analytical method and the instrument. See Attachment 3 for instructions on how to generate MDL/MDLV summaries.

6.0 RESPONSIBILITIES

6.1 QA Manager or designee

- Maintains database of MDLs by department, method, matrix, instrument, and data performed.
- Provides monthly summaries to department managers on MDLs due.
- Reviews MDL for completeness and approves MDL studies.
- Updates LIMS to new MDL values.

6.2 Department Manager or designee

- Ensures MDL studies are performed correctly and in a timely manner.
- Generates MDL studies, MDL verifications (charts), and reviews them prior to forwarding to QA for final approval. **Only MDL studies and MDL verification summaries that meet the established criteria can be submitted to the QA group**. See Attachment 4 for the MDL Data Review Checklist.

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7.0 REFERENCE

7.1 40 CFR Part 136, Appendix B

7.2 Corporate Quality SOP # CA-Q-S-006, current revision

8.0 ATTACHMENTS

8.1 Attachment 1: Student's t-value table

8.2 Attachment 2: Example MDL summary report

8.3 Attachment 3: LIMS Instructions for MDL and MDLV Charts

8.4 Attachment 4: MDL Data Review Checklist

8.5 Attachment 5: Methods that do not require MDL studies

9.0 REVISION HISTORY

This section has been added beginning with Revision 0. Only details of the last two revisions are incorporated into this SOP. Prior revisions are documented in the QA files.

9.1 Revision 2, dated 11 May 2012

- Added IDL and LOQ definitions
- Added attachment 3 – LIMS Instructions for MDL and MDLV Charts
- Added attachment 4 - MDL data review checklist
- Prepared by AS and DD

9.2 Revision 3, dated 3 November 2014

- Clarify that the spike to MDL ratio in an MDL verification must be no greater than the LIMS MDL
- Updated MDL data review checklist
- Updated Example of MDL summary report
- Prepared by AS, DD, and WJD

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Attachment 1
Student's t-value table

# of Replicates (n)	Degree of Freedom (n-1)	t Value (99% upper confidence)
7	6	**3.143**
8	7	**2.998**
9	8	2.896
10	9	2.821
11	10	2.764
12	11	2.718
13	12	2.681
14	13	2.65
15	14	2.624
16	15	2.602
17	16	2.583
18	17	2.567
19	18	2.552
20	19	2.539
21	20	2.528
22	21	2.518
23	22	2.508
24	23	2.5
25	24	2.492
26	25	2.485
27	26	2.479
28	27	2.473
29	28	2.467
30	29	2.462
31	30	2.457
41	40	2.423
51	50	2.403
61	60	2.39
71	70	2.381
81	80	2.374
91	90	2.368
101	100	2.364
121	120	2.358

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Attachment 2
Example MDL Summary

Detection Limit Study **Method 8081A**

Type: 40 CFR 136 App B MDL Analysis Dates: 3/3/2012 to 3/3/2012

Laboratory TestAmerica Irvine Method Description: Organochlorine Pesticides (GC)

Preparation Method: 3546

Limit Group GC - 8081A - Pest - Solid - RL/MDL

GC - 8081A - Pest - Solid - RL/MDL

Method 8081A **Detection Limit Study**

Type: 40 CFR 136 App B MDL

Laboratory TestAmerica Irvine Preparation Method: 3546 Equipment: GC52 Signal: 0

Limit Group GC - 8081A - Pest - Solid - RL/MDL Analysis Dates: 3/3/2012 to 3/3/2012

Analyte	Spike Amount **	Replicate Measurements 1	2	3	4	5	6	7	8	AVG ug/Kg	% Rec Recov	Std Dev	Calc MDL	Current MDL	Current RL
Heptachlor epoxide	1.3333333	1.029333	1.033333	1.034666	0.968	0.932	0.849333	1.10533		0.996	74.700	0.083816	0.27	2.0	5.0
Endosulfan sulfate	1.3333333	1.156	1.166666	1.14	1.098666	1.054666	1.021333	1.21466		1.12171	84.128	0.067421	0.21	2.0	10
Aldrin	1.3333333	1.165333	1.181333	1.186666	1.110666	1.093333	1.038666	1.252		1.14685	86.014	0.070769	0.22	1.5	5.0
alpha-BHC	1.3333333	1.272	1.241333	1.237333	1.197333	1.205333	1.110666	1.32533		1.23561	92.671	0.070627	0.22	1.5	5.0
beta-BHC	1.3333333	1.126666	1.164	1.186666	1.074666	1.054666	0.958666	1.23733		1.11466	83.600	0.093403	0.29	1.5	5.0
delta-BHC	1.3333333	1.281333	1.305333	1.333333	1.244	1.213333	1.142666	1.37333		1.29047	97.285	0.077637	0.24	1.5	10
Endosulfan II	1.3333333	1.073333	1.110666	1.077333	1.04	0.969333	0.886666	1.144		1.04303	78.228	0.088274	0.28	1.5	5.0
4,4'-DDT	1.3333333	1.310666	1.36	1.329333	1.292	1.236	1.16	1.4		1.29828	97.371	0.079910	0.25	1.5	5.0
alpha-Chlordane	1.3333333	1.068	1.090666	1.090666	1.005333	0.978666	0.893333	1.14266		1.07047	77.983	0.084574	0.26	2.0	5.0
gamma-Chlordane	1.3333333	1.261333	1.292	1.273333	1.218666	1.18	1.108	1.34666		1.24	93.000	0.078662	0.25	1.5	5.0
Endrin ketone	1.3333333	1.146666	1.250666	1.277333	1.208	1.216	1.12	1.34666		1.22361	91.771	0.077135	0.24	2.0	5.0
gamma-BHC (Lindane)	1.3333333	1.246666	1.270666	1.26	1.193333	1.184666	1.094666	1.33		1.22114	91.583	0.074553	0.23	1.5	5.0
Dieldrin	1.3333333	1.281333	1.310666	1.277333	1.242666	1.198666	1.122666	1.34666		1.25428	94.071	0.074732	0.23	1.5	5.0
Endrin	1.3333333	1.285333	1.324	1.293333	1.216	1.209333	1.133333	1.36		1.26390	94.942	0.075534	0.24	1.5	5.0
Methoxychlor	1.3333333	1.245333	1.286666	1.289333	1.233333	1.173333	1.102666	1.36		1.24152	93.114	0.084036	0.26	1.5	5.0
4,4'-DDD	1.3333333	1.289333	1.346666	1.318666	1.304	1.248	1.184	1.38666		1.29676	97.257	0.066148	0.21	1.5	5.0
4,4'-DDE	1.3333333	1.328	1.36	1.333333	1.281	1.264	1.192	1.4		1.30876	98.157	0.068524	0.22	1.5	5.0
Endrin aldehyde	1.3333333	1.077333	1.102666	1.08	1.009333	0.949333	0.872	1.13733		1.032	77.400	0.094932	0.30	1.5	5.0
Heptachlor	1.3333333	1.030666	1.04	1.012	0.949333	0.929333	0.84	1.10266		0.98628	73.971	0.086669	0.27	2.0	5.0
Endosulfan I	1.3333333	1.033333	1.070666	1.042666	0.986666	0.94	0.852	1.11466		1.00571	75.428	0.088059	0.28	1.5	5.0

Batch-Sample List: 10818-33 10818-34 10818-35 10818-36 10818-37 10818-38 10818-39

Batch List (Cont):

**The spike amount must always be less than or equal to the RL of the analyte for a passing MDL study.

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Attachment 2
Example MDL Summary (continued)

Laboratory TestAmerica Irvine **Method Description:** Organochlorine Pesticides (GC)

Preparation Method: 3546

Limit Group GC - 8081A - Pest - Solid - RL/MDL

Analyte	Reps	StudT	3 2x MDL ≤RL	RL/MDL Ratio	Mean/MDL Ratio	MDL Evaluation 4 Calc MDL >10 % Amt	5 Recovery 50-150%	Calc MDL/ ActiveMDL	6 95% Conf	Edit	Edit Reason
Heptachlor epoxide	7	3.143	Pass	18.5	3.7	Pass	Pass	.135	<	N	
Endosulfan sulfate	7	3.143	Pass	47.6	5.3	Pass	Pass	.105	<	N	
Aldrin	7	3.143	Pass	22.7	5.2	Pass	Pass	.147	<	N	
alpha-BHC	7	3.143	Pass	22.7	5.6	Pass	Pass	.147	<	N	
beta-BHC	7	3.143	Pass	17.2	3.8	Pass	Pass	.193	<	N	
delta-BHC	7	3.143	Pass	41.7	5.3	Pass	Pass	.16	<	N	
Endosulfan II	7	3.143	Pass	17.9	3.7	Pass	Pass	.187	<	N	
4,4'-DDT	7	3.143	Pass	20	5.2	Pass	Pass	.167	<	N	
alpha-Chlordane	7	3.143	Pass	19.2	4	Pass	Pass	.13	<	N	
gamma-Chlordane	7	3.143	Pass	20	5	Pass	Pass	.147	<	N	
Endrin ketone	7	3.143	Pass	20.8	5.1	Pass	Pass	.12	<	N	
gamma-BHC (Lindane)	7	3.143	Pass	21.7	5.3	Pass	Pass	.153	<	N	
Dieldrin	7	3.143	Pass	21.7	5.5	Pass	Pass	.153	<	N	
Endrin	7	3.143	Pass	20.8	5.3	Pass	Pass	.16	<	N	
Methoxychlor	7	3.143	Pass	19.2	4.8	Pass	Pass	.173	<	N	
4,4'-DDD	7	3.143	Pass	23.8	6.2	Pass	Pass	.14	<	N	
4,4'-DDE	7	3.143	Pass	22.7	5.9	Pass	Pass	.147	<	N	
Endrin aldehyde	7	3.143	Pass	16.7	3.4	Pass	Pass	.2	<	N	
Heptachlor	7	3.143	Pass	18.5	3.7	Pass	Pass	.135	<	N	
Endosulfan I	7	3.143	Pass	17.9	3.6	Pass	Pass	.187	<	N	

1. For dual channels signal 0 equals to channel A and signal 4 equals to channel B.

2. Values currently in LIMS.

3. This column compares the calculated MDL and the current LIMS reporting limit. The calculated MDL must be less than or equal 1/2RL in a passing MDL study. If this is not meet, then the calculated MDL is too close to the RL and the MDL study must be re-run/re-extracted or the LIMS MDL/RL increased.

4. The calculated MDL must be greater than 10% the spike amount in a passing MDL study.

Example, in this MDL study the replicates were spiked @ 1.33 ppb, the calculated MDL must be greater than 0.133 for a passing MDL study.
If the calculated MDLs is less than the 10% of the spike amount then the MDL study must be repeated @ lower spike concentration.

5. Percent recovery of average MDL concentration compared to spiked amount. Extremely low or high recoveries are not acceptable.

6. Comparison of the calculated MDL to current MDL using 95% confidence. If the 95% confidence is '<' or '=', then there is no need to update the LIMS MDL. If the 95% confidence is ">", then the LIMS MDL will need to be updated/increased (note that the RL might also need to be increased)

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Attachment 3
LIMS Instructions for MDL and MDLV Charts

In order to generate a MDL/MDLS summary report the following general steps are required:

1) Create and save a chart
2) View chart
3) Collect data

To Start:

1. From the main menu, select Lab Method Data or Analyst
2. From Lab Method Data (or Analyst), select the application - Control Chart

1) To Create a Chart:

New Chart:

1. If not displayed, Select tab [Setup Selection Criteria]
2. From the Main Toolbar, Click [New] button.
3. Follow the prompts and questions –
   - select analytical methods
   - select the sublists (normally enter the default location sublist)
   - select QC types (select MDLS for MDL study and MDLV for MDL verification).
4. If combining analysis methods; enter only the primary method initially – this should be the method with the most comprehensive analyte list. After other selections are made, click [Add] under the Analysis Methods section to add another method. Note the method entered first will be assigned order =1 in the methods grid. This can be changed while in edit mode. Prep methods may be added in a similar way.
5. When prompted for 'Normal Analytes Spikes?'. Click on yes to include only analytes in normal spike mix.
6. If the method has a Prep method, answer 'Yes' and select the Prep method.
7. If the Prep method has a Prep method, answer 'Yes' and select the Pre Prep method. Otherwise, click on 'NO'
8. Select a Container Matrix for the Prep (or Analysis if no prep specified). If uncertain of the correct matrix, check the container matrix assigned to the method (in Methods application – Analytical setup).
9. The application then searches for Method limit Groups that match the selections. Select the best match – if no matches, check your selections. If a method Limit Group is selected, that MLG name is entered in the Control Chart Description.

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Attachment 3
LIMS Instructions for MDL and MDLV Charts (continued)

10. Description: Default value is the MLG Description plus the QC types entered. Enter another description if desired or your initial at the end of the description. The MGL description for MDLs/MDLV will always end with RL/MRL. Example: GC – 8081 – Pest – Solid – RL/MDL MDLS (MDLV). All charts created for generation of MDL studies and MDL verification will be deleted within one month of being created by the QA staff, as it would be easier to recreate a chart for a MDL study or MDLV from scratch than modifying an existing chart.

11. 'Chart Type' (lower right corner) is used to specify the chart style, select 40CFR 136 App B.

12. Select tab [Options]. Select 'Fixed' or 'Floating' date Range – enter either fixed dates, or a floating range (last x Weeks, months, etc.).
13. In the Result Status box, the default setting is to include Primary, Secondary and Acceptable results.
14. Do not check anything in the 'Chart Details', 'Fixed Chart Values' and 'Warning Triggers' sections.
15. In Detection Limits section, check 'Calculate DLs' and select '40 CFR 136 App B' as DL Type
16. Do not check anything in the [More Options] tab.
17. Select tab [Chart Run Configuration]. Add the batch (prep batch, if applicable), the equipment and detector (if applicable)
18. When all selections are complete, Click [Save] on Top Toolbar.

2 and 3) To View a Chart and collect data

1. Click on 'View Chart' (upper right corner).
2. After clicking [View Chart], a new window will open – click [Collect data]. The progress bar displays as data is collected and sorted. If no data is collected, use AD to determine that bacthes exist with the QC type and sample/container matrices within the date range. Make sure that the MDLS samples are at 2nd level review. If using same MDLs samples in different instruments, set the samples to 2nd level review only in one instruments, generate the MDL sudy or MDLV and then set them to 1erst level so the MDLS of the next instrument can be evaluates.
3. Click on 'Print' (upper left corner).
4. Select 'Control Chart Report"
5. Select '40 CRF MDL'
6. Click on 'Print Preview'.

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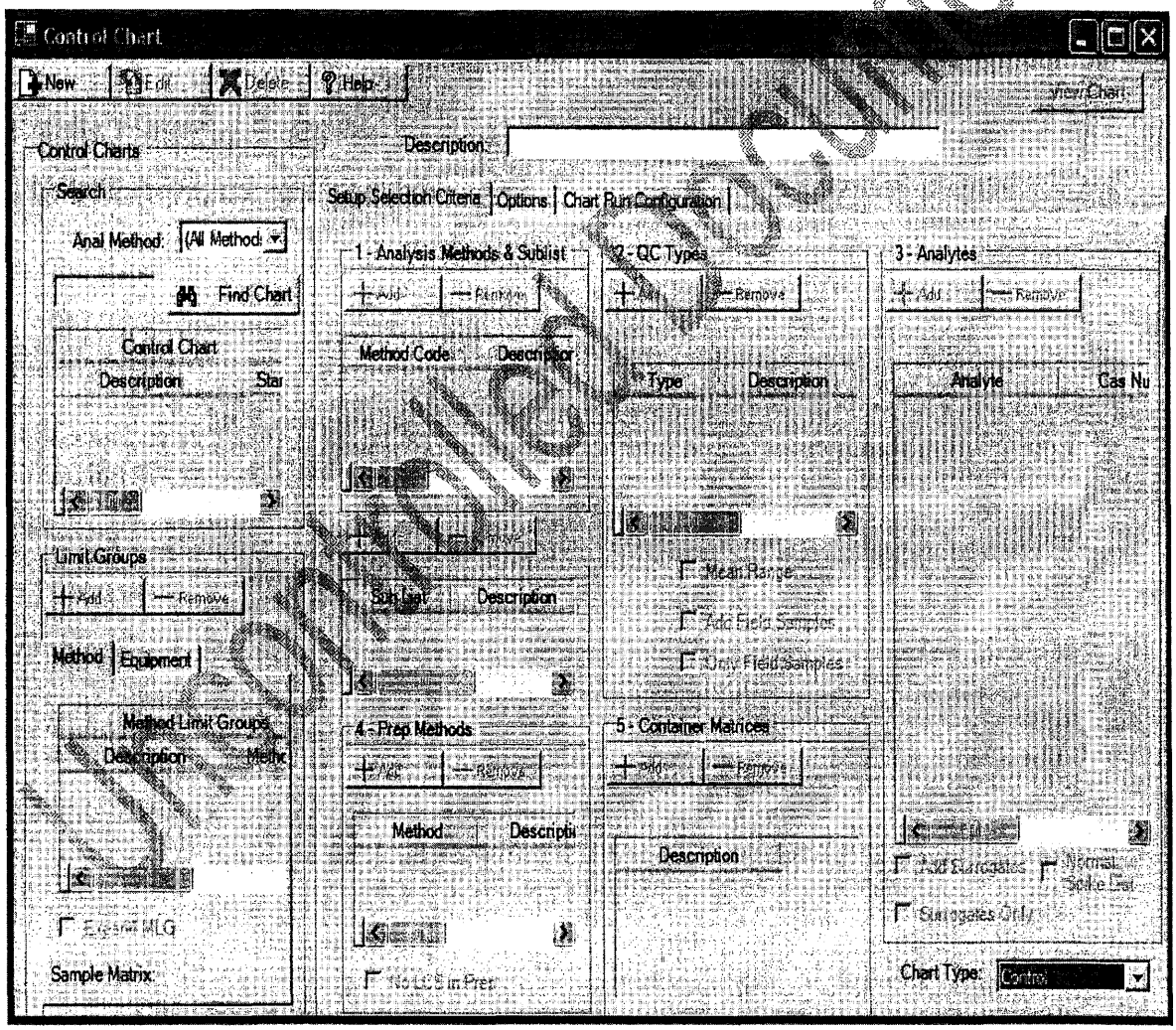
Attachment 3
LIMS Instructions for MDL and MDLV Charts (continued)

7. Print the MDLS or MDLS summary
8. Review the MDLS or MDLS summary completely before it is submitted to the QA group. Use the MDL data review checklist.



Attachment 4
MDL data review checklist

MDL Data Review Checklist

Instrument ID: _____ Method: _____ Matrix: _____ Analyst: _____ Analysis Dates: _____

Requirements	Yes	No	NA
MDL / MDL VERIFICATION (MDLV) CHECK PREPARATION			
MDL determined using at least 7 replicates.			
The replicates or verification check taken through all steps in the process, including cleanup when applicable.			
A method blank was prepared with each set of MDL replicates or MDLV.			
For soil MDL and MDLV, an appropriate purified matrix was used for the MDL replicates and the method blank? (i.e. sodium sulfate or Ottawa sand for organics, Teflon chips or glass bead for inorganics.			
The prep logs are complete (e.g., date, initial amount, final volume, spike ID, spike amount, etc).			
MDL ANALYSIS			
Associated CCVs within acceptance limits.			
All of the prepared replicates used in the MDL determination.			
If a point was rejected, there is still at least 7 replicates available for the MDL determination.			
The replicates and their spike levels identified on the raw data.			
Each replicate analyzed within the holding time.			
The method blank is free of any positive results (< one-half the MRL).			
Review chromatography. Are all integrations proper and the baselines are not forced to detect?			
The analyte peaks within the calculated RRT windows.			
All positive results confirmed (e.g., detected on both column, peak patterns present, quantative & quality ions present)?			
Any non-detects in any of the replicates?			
Review the MDL summary. Is the header information correct (e.g., instrument, method, method limit group, matrix, units, dates)?			
The reported results correctly calculated. Check amount extracted & extract volume.			
MDL spike appropriate for ALL analytes. (No MDL spiked @ higher that the RL)			
RL at least 2X the MDL.			
All of the analytes in the list/method accounted for (analyts must write the total of number of analytes in the MDL chart, Example, for an 8260 Henderson list should indicate 12 analytes)			
MDL VERIFICATION ANALYSIS			
MDLV analyzed within holding ltime.			
MDLV and their spike levels identified on the raw data.			
The method blank is free of any positive results (< one-half the MRL)?			
Review chrometography. Is the intergration proper and the baseline correctly drawn?			
The analyte peaks within the calculated RRT windows.			
All positive results confirmed (e.g., detected on both column, peak patterns present, quantitative & qualitative ions present)?			
MDLV prepared at approximately from 1 - 4X the calculated MDL to below the RL or at the LIMS MDL (when applicable)			
All of the analytes in the list/method accounted for and matches the number of analytes in the chart of the MDL study			

Comment: _____

Analyst Signature: _____

Reviewer Signature: _____

MDL Summary Received by QA on: _____

MDL review checklist_r0_ Jan 2014

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Attachment 5
Methods that do not require MDL studies

Method Code	Description	Technique	Local Lab Group
2120B	Color, Colorimetric	Manual	Inorganics
1010	Ignitability, Pensky-Martens Closed-Cup Method	Flash	Inorganics
7.1.2	Ignitablity,Solids	Manual	Inorganics
3500_F+2_D_Calc	Iron, Ferrous	Manual	Inorganics
SM2150_Odor_B	Odor	Manual	Inorganics
SM2540F	Solids, Settleable	Manual	Inorganics
9040B	pH	pH	Inorganics
9041A	pH	pH	Inorganics
9045C	pH	pH	Inorganics
SM4500_H+	pH	pH	Inorganics
150.1	pH (Electrometric)	pH	Inorganics
2580B	Reduction-Oxidation (REDOX) Potential	ISE	Inorganics
Moisture	Percent Moisture	Grav	Wet Chemisty Analysis
2540E	Solids, Fixed and Volatile	Grav	Wet Chemisty Analysis
SM2540B	Solids, Total	Grav	Wet Chemisty Analysis
160.3	Solids, Total (TS)	Grav	Wet Chemisty Analysis
160.4	Solids, Total Volatile (TVS)	Grav	Wet Chemisty Analysis
160.4_VDS	Solids, Volatile Dissolved (VDS)	Grav	Wet Chemisty Analysis
2540G	Total, Fixed, and Volatile Solids	Grav	Wet Chemisty Analysis
120.1	Conductivity, Specific Conductance	ISE	Wet Chemisty Analysis
2510B	Conductivity, Specific Conductance	ISE	Wet Chemisty Analysis
SM4500_CO2_C	Free Carbon Dioxide	ISE	Wet Chemisty Analysis
SM4500_O_G	Oxygen, Dissolved	ISE	Wet Chemisty Analysis
SM2520_B	Salinity	ISE	Wet Chemisty Analysis
9095A	Paint Filter	Manual	Wet Chemisty Analysis
9095B	Paint Filter	Manual	Wet Chemisty Analysis
SM2710F_Calc	Specific Gravity	Manual	Wet Chemisty Analysis
9034_Calc	Sulfide, Acid soluble and Insoluble (Titrimetric)	Titr	Wet Chemisty Analysis
SM2310B	Acidity	Titr	Wet Chemisty Analysis
2320B	Alkalinity	Titr	Wet Chemisty Analysis
2340C	Hardness, Total	Titr	Wet Chemisty Analysis

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