2015 ANNUAL CLOSED PONDS POST-CLOSURE MONITORING REPORT

FORMER MONTROSE FACILITY
HENDERSON, NEVADA

Prepared for:

Montrose Chemical Corporation
of California
600 Ericksen Avenue NE, Suite 360
Bainbridge Island, WA 98110

Converse Project No. 89-43133-20

June 30, 2015

Converse Consultants
Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

June 30, 2015 89-43133-20

Mr. Carlton Parker
Nevada Division of Environmental Protection
Special Projects Branch
2030 East Flamingo Road, Suite 230
Las Vegas, NV 89119

Subject: **2015 Annual Post Closure Monitoring Report**
Closed Ponds Area - Former Montrose Facility
Henderson, Nevada

Dear Mr. Parker:

Converse Consultants (Converse) is pleased to present the Closed Ponds Area Annual Post Closure Monitoring Report for the 2015 monitoring event conducted for Montrose Chemical Corporation of California.

This report covers the sampling and analyses of four monitoring wells located near the closed ponds at the former Henderson, Nevada facility. Well MW-1 is located upgradient from the closed ponds, while MW-2, MW-3, and MW-4 are situated in a downgradient direction. Also included is an evaluation of the well concentration trends over time. As with past reports, the field work and report have been completed in accordance with the *Amended Closure/Post-Closure Plan* approved by the Nevada Division of Environmental Protection (NDEP) and the 2010 version of the *Sampling and Analysis Plan*.

Please also note that the data discussed in this report has been transferred to the OSSM joint groundwater project team for use in the 2015 Comprehensive Groundwater Data Evaluation Report that will be issued in the fourth quarter of this year. The comprehensive report provides a regional context to this data not provided in this report.

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If you have any questions concerning information contained in this report, please contact us at your convenience.

Respectfully submitted,

CONVERSE CONSULTANTS

Douglas Bell
Senior Project Manager

DRB:ls

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Limitations

Conclusions in this report are based on monitoring and sampling completed for the annual monitoring program performed in April 2015 for the closed ponds area of the former Montrose Chemical Corporation of California site in Henderson, Nevada. Groundwater sampling was intended to confirm the presence or absence of target contaminants at selected locations. Contaminant levels observed may not be representative of site-wide conditions. It is the intent of this monitoring event to detect only contaminants for which laboratory analyses were performed. Therefore, conclusions may be drawn only on the presence or absence of reported analytes. Observed contaminants may change with relation to time, on-site activities, and adjacent site activities.

This report is for the use of Montrose Chemical Corporation as it applies to the subject site in Henderson, Nevada. Its preparation has been in accordance with generally accepted practices in geotechnical engineering, environmental and engineering geology, and hydrogeology. No other warranty, either expressed or implied, is made.

Certified Environmental Manager (CEM) Statement

For the services provided and described in this document, the following language is from NAC 459.

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state, and local statutes, regulations, and ordinances.

A Converse Certified Environmental Manager was in responsible charge during the collection of the field sampling data, as described in this report, and also during the compilation of this report.

CONVERSE CONSULTANTS

Douglas R. Bell
Senior Project Manager
Nevada CEM 1767 (Exp. 8/31/15)
Dated July 1 2015

This report covers the 2015 annual monitoring and sampling of four monitoring wells located near the closed ponds of the former Montrose facility in Henderson, Nevada. Well MW-1 is located upgradient from the former ponds, while MW-2, MW-3, and MW-4 are arrayed in an east-west transect across the downgradient edge of the ponds area. A site map depicting the locations of these wells is provided in Appendix D.

This report has been prepared in accordance with the *Amended Closure/Post-Closure Plan* approved by the Nevada Division of Environmental Protection (NDEP). All aspects of the field sampling were performed in accordance with the current version of the *Sampling and Analysis Plan* dated May 21, 2010.

1.0 Sampling and Analysis Procedures and Report Organization

Sampling Procedures

Micro-purge sampling techniques in accordance with the 2010 Sampling and Analysis Plan procedures were used during this event to ensure that consistent groundwater sampling techniques are used across all sampling programs being performed at the Montrose site.

Sampling data for each well was recorded on Low-Flow Purge/Sampling Forms as presented in Appendix C. Water samples were logged and tracked using *Chain-of-Custody* forms and shipped to TestAmerica Laboratories of Irvine, California for analysis.

2.0 Analytical Data Evaluation

Analytical Procedures

The groundwater samples were analyzed by TestAmerica Analytical Testing Corporation, a Nevada certified laboratory. The samples were analyzed for the following chemical parameters:

- Volatile organic compounds (VOCs) using EPA Method SW8260B
- Organochlorine pesticides using EPA Method 3510C/8081A
- 2,2/4,4-Dichlorobenzil using EPA Method SW8270C

Reporting Procedures

In accordance with the March 20, 1989 NDEP letter to Mr. Daniel Greeno of Montrose Chemical Corporation, seven compounds as listed below were identified as "indicator compounds" for evaluation by this report.

- Carbon Tetrachloride
- DDT
- Dichlorobenzil
- Ethylbenzene
- Methylene Chloride
- Toluene
- Total Xylenes

The analytical suite used to analyze these indicator compounds also identifies other compounds that, for the purposes of this report, are referred to as "non-indicator" compounds. During several years of non-indicator compound monitoring, the five chemicals listed below have been commonly quantified:

- Benzene
- Chloroform
- 1,4 – Dichlorobenzene
- Chlorobenzene
- 1,2 – Dichlorobenzene

This report therefore also provides detailed information on these five non-indicator compounds.

Report Organization

Results of the analysis of both indicator and non-indicator compounds from the March 1990 through April 2015 sampling events (listed by sample date) are summarized in Tables A1 through A4 in Appendix A of this report. In addition, graphs of the historical data for selected non-indicator compounds are also included for each well. Water level data collected from all wells during the monitoring event is presented in Table A5 in Appendix A of this report.

2.1 Evaluation of Concentration Data

This report provides an evaluation of concentration data for indicator and commonly observed non-indicator compounds in each well. The evaluation typically identifies the change in concentration from the preceding sampling period (June 2014), notes the historical concentration range observed over all monitoring periods since 1990, and provides an assessment of trends over either the total time period or, in the case of data sets that have shown multiple trends over the total monitoring time period, identifies the presence of trends occurring over the last five years (October 2011 to April 2015 monitoring events).

2.1.1 Indicator Compounds

For the April 2015 monitoring event, carbon tetrachloride and methylene chloride were the only indicator compounds detected above their respective method detection limits (MDL).

Carbon tetrachloride was detected in monitoring well MW-2 at a concentration of 150 µg/L (above the EPA MCL of 5.0 µg/L) and in monitoring well MW-4 at a concentration of 3.0 µg/L (below the EPA MCL of 5.0 µg/L).

Carbon tetrachloride has historically been found in MW-2 at concentrations ranging from the analytical detection level to 1,500 ug/L. Within the last five years, the concentration range has been 150 to 300 ug/L, indicating that the concentration of 150 ug/L observed during this sampling event is at the low end of the range for the five year period.

Carbon tetrachloride has also historically been found in MW-4 at concentrations ranging from 3.4 to 80 ug/L while concentrations over the last five years have ranged from 3.0 to 9.1 ug/L. The April 2015 concentration of 3.0 ug/L is at the low end of this well's five year historic range and is below the EPA MCL of 5.0 µg/L.

Methylene chloride was detected in monitoring well MW-2 at a concentration of 240 µg/L and in monitoring well MW-3 at a concentration of 110 µg/L.

Methylene chloride has historically been found in MW-2 at concentrations ranging from the analytical detection level to 690 ug/L. Within the last five years, the concentration range has been 190 to 690 ug/L, indicating that the concentration of 240 ug/L observed during this sampling event is near the low end for the five year period.

Methylene chloride has also historically been found in MW-3 at concentrations which range from the analytical detection limit to 330 ug/L. Concentrations over the last five years have ranged from the analytical detection limit to 170 ug/L. The April 2015 concentration of 110 ug/L is within this well's historic range and is approximately at the middle of the 5 year range.

Overall, concentrations of methylene chloride in MW-2 and MW-3 both exceed the NDEP BCL of 5.0 µg/L. There is no EPA MCL for methylene chloride.

2.1.2 Non-Indicator Compounds

Data Presentation Conventions

The following presentation of the concentrations and trends for non-indicator compounds focuses on those compounds having MCLs and for which historic long term data is available. Concentration data for these compounds are plotted against time on the graphs presented in Appendix A for each well and the concentration scales on the graphs are displayed logarithmically, as requested by the NDEP. Note that for wells with non-detectable chemical quantifications, concentrations of ½ the MDL were used to prevent trend lines from merging with their respective X-axis.

Data Evaluation and Trends

In the following report section, the concentrations of benzene, chloroform, chlorobenzene, 1,2-Dichlorobenzene and 1,4-Dichlorobenzene observed during this monitoring event are first summarized along with their respective MCLs in Table 1 below. Secondly, the compound concentrations are discussed relative to historic observations in each well. Finally, Table 2 which is presented after the narrative, summarizes the

findings of each compound and identifies trends in each well over the preceding five year time period. The full analytical report is provided in Appendix B.

Table 1 - Quantified Non-Indicator Compounds April 2015 Monitoring Event

Constituent	MCL	MW-1	MW-2	MW-3	MW-4
Benzene	5	ND/0.25	1,700	970	ND/1.3
Chloroform	80	2.3	110,000	30,000	1,500
Chlorobenzene	100	0.43	2,400	24,000	1.3
1,2-Dichlorobenzene	600	0.73	81	27,000	ND/1.3
1,4-Dichlorobenzene	75	0.64	160	28,000	ND/1.3

Note: All concentrations are listed in micrograms per liter (µg/L). The MCL for Total Trihalomethanes has been utilized for chloroform. Constituents which were not detected are expressed as ND followed by the method detection limit (MDL) for that parameter. MDLs are also expressed in µg/L.

Benzene

MW-1

The April 2015 benzene concentration in MW-1 remained non-detectable. Historically, concentrations of benzene in MW-1 have ranged from <0.25 µg/L recorded during this event to a high concentration of 10 µg/L recorded during the April 2004 monitoring event. Benzene concentrations in this well are stable and continue to remain at the low end of this well's historic range.

MW-2

The benzene concentration in MW-2 for the April 2015 monitoring event, (1,700 ug/L), remained unchanged for that observed in 2014. Historically, concentrations of benzene in MW-2 have ranged from <100 µg/L, recorded during the April 1994 monitoring event, to 24,000 µg/L recorded during the September 1990 monitoring event. Benzene concentrations in MW-2 have shown a significant decline since the inception of monitoring (refer to Figure 2 in Appendix A) and have currently fluctuated during the last five years between 1,400 µg/L and 2,100 µg/L. Overall, benzene concentrations in 2015 remain near the mid-point of this well's five year range.

MW-3

The benzene concentration in MW-3 increased to 970 µg/L during the April 2015 event from 850 µg/L observed in 2014. Historic benzene concentrations observed in this well have ranged between 740 µg/L observed during the October 2010 event (refer to Figure 4 in Appendix A) and 15,000 µg/L (recorded during the September 1990 monitoring event). Overall, benzene concentrations in MW-3 continue to remain stable near the low end of this well's historic range.

MW-4

The benzene concentration in MW-4 was <1.3 µg/L during the April 2015 event, as compared to <2.5 µg/L during the 2014 event. Historically, benzene detections in MW-4 have ranged from 8.1 µg/L recorded during the April 2012 event and 15,000 µg/L recorded during March 1990. During the last five years, benzene concentrations have ranged from <1.3 µg/L during the April 2015 event (refer to Figure 6 in Appendix A) to 9.2 ug/L in April 2013. Overall, benzene concentrations in MW-4 have shown a steady decline over time and are remaining stable near the low end of this well's historic range.

Benzene Summary

The benzene concentrations in MW-1 and MW-4 remained below the USEPA MCL of 5 µg/L, while benzene concentrations in MW-2 and MW-3 were above the MCL, but are at the low end of these wells' historic benzene range.

Chloroform

Chloroform concentrations have varied widely over the course of the 50+ monitoring events which have been performed on these wells. Hence, for wells where the chloroform concentrations have been exceptionally variable, the trend analyses presented below focused on the most recent five years to provide a relevant evaluation.

MW-1

The chloroform concentration in MW-1 decreased slightly to 2.3 µg/L during the April 2015 event from 2.9 µg/L observed during the June 2014 event. Historically, concentrations of chloroform in MW-1 have ranged

from 0.69 µg/L recorded during the April 2007 sampling event to 150 µg/L recorded during the October 1995 sampling event. Chloroform concentrations during the most recent five year period have shown limited variability, remaining stable in a range of 4.8 µg/L to 2.3 µg/L (refer to Figure 1 in Appendix A). Hence, chloroform concentrations are currently at the low end of this well's five year range.

MW-2

The chloroform concentration in MW-2 decreased to 110,000 µg/L during the April 2015 event from 120,000 µg/L observed during the June 2014 event. However, chloroform has been highly variable in this well ranging from 2,600 µg/L recorded during the July 1991 monitoring event to 120,000 µg/L during the June 2014 event. Chloroform concentrations in MW-2 over the most recent five year period have fluctuated between 120,000 µg/L and 82,000 µg/L (refer to Figure 2 in Appendix A). Presently, chloroform in MW-2 remains near the top of its 5-year range.

MW-3

The chloroform concentration in MW-3 decreased to 30,000 µg/L during April 2015 from 43,000 µg/L observed in June 2014. Historical concentrations of chloroform in MW-3 have ranged from 7,500 µg/L recorded during the December 2002 monitoring event to 43,200 µg/L recorded during the September 1990 monitoring event. Concentrations during the most recent five year period have ranged from 18,000 µg/L observed during the April 2011 event (refer to Figure 4 in Appendix A) to 43,000 µg/L during the June 2014 event. Therefore, while showing a decrease from 2014, chloroform concentrations for 2015 are near the top of their 5-year range.

MW-4

The chloroform concentration in MW-4 decreased to 1,500 µg/L during the April 2015 event from 1,800 µg/L observed during the June 2014 event. . Chloroform concentrations in MW-4 have historically ranged from 97,000 µg/L recorded during the October 1998 monitoring event to the current 1,500 ug/L, while chloroform concentrations during the last five year period have ranged from 1,500 µg/L observed during this event (refer

to Figure 6 in Appendix A) to 3,900 µg/L in April 2010.Therefore, the 2015 chloroform concentration is the lowest concentration observed in this well since the inception of sampling.

Chloroform Summary

The chloroform concentration in MW-1 remained near the low end of its historic range, while chloroform in MW-4 is at its lowest concentration since the inception of sampling. Chloroform concentrations in wells MW-2 and MW-3 remain at the upper end of their historic ranges. Chloroform concentrations in wells MW-2, MW-3, and MW-4 remained above the total trihalomethane MCL of 80 ug/L.

Chlorobenzene

MW-1

The chlorobenzene concentration in MW-1 during April 2015 increased to 0.43 µg/L from the <0.25 ug/L observed in June 2014. Chlorobenzene concentrations during the previous five year period have ranged from <0.25 µg/L during June 2014 to 0.43 µg/L recorded during this event. Concentrations of chlorobenzene in MW-1 are, therefore, stable at the low end of this well's five year range (refer to Figure 1 in Appendix A).

MW-2

The chlorobenzene concentration in MW-2 decreased to 2,400 µg/L during this event from 2,600 µg/L observed during June 2014. Historic concentrations of chlorobenzene in MW-2 have ranged from 110 µg/L recorded during the October 1999 monitoring event to a high concentration of 78,000 µg/L recorded during the April 1993 monitoring event. Within the most recent five year period, chlorobenzene concentrations in MW-2 have fluctuated between 2,000 µg/L and 3,100. Chlorobenzene concentrations continue to remain near the middle of this well's five-year range (refer to Figure 2 in Appendix A).

MW-3

The chlorobenzene concentration in MW-3 decreased to 24,000 µg/L during this event from 26,000 µg/L observed during the June 2014 event. Historic concentrations of chlorobenzene in MW-3 have ranged from 14,000 µg/L recorded during the June 1990 monitoring event to 38,000

µg/L recorded during October 2003. Over the previous five year period, chlorobenzene concentrations have fluctuated between 15,000 and 26,000 µg/L (refer to Figure 4 in Appendix A). Therefore, while considerably lower than the well's historic high, the chlorobenzene concentration in MW-3 is at the upper end of the five year range.

MW-4

The chlorobenzene concentration in MW-4 was 1.3 µg/L during this event as compared to <2.5 µg/L observed during the June 2014 event. Because of the differences in detection limits, the reported concentrations for the two years are essentially the same. Historically, chlorobenzene concentrations in MW-4 have ranged from 1.3 µg/L to 43,000 µg/L while during the most recent five year period, chlorobenzene concentrations in MW-4 have ranged between 1.3 µg/L to 78 µg/L. Hence, there has been a long term decrease in chlorobenzene concentrations in MW-4 and the 1.3 ug/L concentration observed in 2015 is the lowest chlorobenzene detection in MW-4 since the inception of sampling (refer to Figure 6 in Appendix A).

Chlorobenzene Summary

Overall, chlorobenzene concentrations in MW-1, MW-2, and MW-4 have remained near the low end of their historical ranges while MW-3 has fluctuated near the upper end of its five year range. Chlorobenzene concentrations in MW-1 and MW-4 remain below the MCL of 100 µg/L while concentrations in MW-2 and MW-3 exceeded the MCL.

1,2-Dichlorobenzene

MW-1

The concentration of 1,2-Dichlorobenzene in MW-1 increased slightly to 0.73 µg/L as compared to the concentration of <0.25 observed in June 2014. Over the past five years, 1,2-Dichlorobenzene concentrations in MW-1 have ranged from 0.16 to 3.8 ug/L. Hence, concentrations of 1,2-Dichlorobenzene in MW-1 remain stable at the low end of the well's five year range.

MW-2

The concentration of 1,2-Dichlorobenzene in MW-2 during the April 2015 event was 81 ug/L compared to the June 2014 concentration of <130 ug/L. Because of the heightened detection limit experienced in 2014, it is likely that the two concentrations are essentially the same. Historically, 1,2-Dichlorobenzene in MW-2 has ranged from 13 µg/L observed during April 2003 to 520 µg/L observed during the April 1992 event. During the previous five year period, 1,2-Dichlorobenzene detections in MW-2 have ranged between 80 µg/L and 87 µg/L. Hence, concentrations of 1,2-Dichlorobenzene remain near the low end of this well's narrow five year range (refer to Figure 3 in Appendix A).

MW-3

The concentration of 1,2-Dichlorobenzene in MW-3 decreased to 27,000 µg/L during the April 2015 event from 28,000 µg/L observed during the June 2014 event. Historically, concentrations of 1,2-Dichlorobenzene in MW-3 have been highly variable ranging from 12,000 µg/L recorded during the June 1990 monitoring event to 43,000 µg/L recorded during the October 1996 monitoring event. Over the previous five year period, concentrations have ranged from 21,000 µg/L to 32,000 µg/L. Therefore, the 1,2-Dichlorobenzene concentration remains roughly at the mid-point of this well's five year range (refer to Figure 5 in Appendix A).

MW-4

The concentration of 1,2-Dichlorobenzene in MW-4 decreased to a low of <1.3 µg/L during this event from <2.5 µg/L during the June 2014 event. Historic concentrations of 1,2-Dichlorobenzene in MW-4 have ranged from the current <1.3 ug/L to 8,900 µg/L recorded during the April 1999 monitoring event. During the previous five year period, concentrations have ranged from the current <1.3 ug/L to 120 µg/L. Therefore, concentrations of 1,2-Dichlorobenzene in MW-4 are at the low end of this well's historic and five year range (refer to Figure 7 in Appendix A).

1,2-Dichlorobenzene Summary

Concentrations of 1,2-Dichlorobenzene in wells MW-1, MW-2, and MW-4 remain near the low end of their respective historic ranges and are also below the MCL of 600 µg/L. The concentration of 1,2-Dichlorobenzene in MW-3 is in the middle of its five year range and remains above the MCL.

1,4-Dichlorobenzene

MW-1

1,4-Dichlorobenzene was detected in MW-1 during the April 2015 event at a concentration of 0.64 µg/L. Historically, concentrations of 1,4-Dichlorobenzene in MW-1 have ranged between this year's 0.64 ug/L and 200 µg/L (recorded during the April 2004 monitoring event). Hence, this year's concentration is the lowest concentration of 1,4-Dichlorobenzene detected in MW-1 since the inception of sampling.

MW-2

The concentration of 1,4-Dichlorobenzene in MW-2 increased to 160 µg/L during the April 2015 event from the <130 ug/L observed during the June 2014 event. Historically, 1,4-Dichlorobenzene concentrations have ranged from 20 ug/L in April 2003 to 650 ug/L in April 1992. During the past five year period, 1,4-Dichlorobenzene has ranged between 140 ug/L and 160 ug/L. Therefore, the concentration of 1,4-Dichlorobenzene detected in MW-2 during the April 2015 event, while significantly lower than the maximum concentration observed in this well, remains at the high end of the five year concentration range (refer to Figure 3 in Appendix A).

MW-3

The concentration of 1,4-Dichlorobenzene in MW-3 increased to 28,000 µg/L during the April 2015 event from 27,000 µg/L observed in June 2014. Historical concentrations of 1,4-Dichlorobenzene in MW-3 have ranged from 17,000 µg/L recorded during the June 1990 monitoring event to 48,000 µg/L recorded during the October 1996 monitoring event. 1,4-Dichlorobenzene has ranged between 19,000 ug/L and 33,000 ug/L during the most recent five year period. Concentrations of 1,4-Dichlorobenzene in MW-3, therefore, remain at the upper end of the well's five year range (refer to Figure 5 in Appendix A).

MW-4

The concentration of 1,4-Dichlorobenzene in MW-4 during this event was <1.3 µg/L. The concentration of 1,4-Dichlorobezene during the June 2014 event was <2.5 µg/L. Historical concentrations have ranged from the current <1.3 ug/L to 21,000 µg/L, with concentrations ranging between <1.3 ug/L to 100 ug/L during the most recent five year period. Overall, concentrations of 1,4-Dichlorobenzene are at low end of this well's five year and historical concentration range (refer to Figure 7 in Appendix A).

1,4-Dichlorobenzene Summary

Concentrations of 1,4-Dichlorobenzene are at the low end or within their historically observed ranges for all four wells. Concentrations of 1,4-Dichlorobenzene in wells MW-1 and MW-4 are below the MCL of 75 µg/L while the concentrations in MW-2 and MW-3 exceeded the MCL.

Table 2 - Commonly Observed Non-Indicator Compounds
5 Year Trends / April 2015 Monitoring Event

Parameter	MW-1	MW-2	MW-3	MW-4
Benzene	**Benzene MCL = 5 µg/L**			
Historic Range	**<0.25-10**	**1,100-24,000**	**740-15,000**	**<1.3-15,000**
4/11	<0.28	1,400	1,000	<2.8
10/11	<0.28	1,800	1,000	<2.8
4/12	<0.28	1,700	940	8.1
4/13	<0.28	2,100	1,100	9.2
6/14	<0.25	1,700	850	<2.5
4/15	<0.25	1,700	970	<1.3
5 yr General Trend	**Stable Low End**	**Stable Low End**	**Stable Low End**	**Stable Low End**
Chlorobenzene	**Chlorobenzene MCL = 100 µg/L**			
Historic Range	**0.4-180**	**110-78,000**	**14,000-38,000**	**1.3-43,000**
4/11	<0.36	2,000	15,000	<3.6
10/11	0.42	2,600	24,000	<3.6
4/12	<0.36	2,200	16,000	73
4/13	<0.36	3,100	21,000	78
6/14	<0.25	2,600	26,000	<2.5
4/15	0.43	2,400	24,000	1.3
5 yr General Trend	**Stable Low End**	**Variable Low End**	**Variable Mid Range**	**Stable Low End**
Chloroform	**Chloroform MCL = 80 µg/L**			
Historic Range	**0.69-150**	**2,600-120,000**	**7,500-43,200**	**1,500-97,000**
4/11	3.2	82,000	18,000	2,700
10/11	4.8	110,000	32,000	2,700
4/12	2.3	86,000	25,000	2,400
4/13	3.2	120,000	38,000	2,800
6/14	2.9	120,000	43,000	1,800
4/15	2.3	110,000	30,000	1,500
5 yr General Trend	**Stable Low End**	**Variable High End**	**Variable High End**	**Decreasing Low End**
1,2-Dichlorobenzene	**1,2-Dichlorobenzene MCL = 600 µg/L**			
Historic Range	**0.67-180**	**13-520**	**12,000-43,000**	**<1.3-8,900**
4/11	0.67	80	22,000	6.2
10/11	<0.32	84	32,000	5.9
4/12	<0.32	87	21,000	120
4/13	<0.32	<130	25,000	80
6/14	<0.25	<130	28,000	<2.5
4/15	0.73	81	27,000	<1.3
5 yr General Trend	**Stable Low End**	**Stable Low End**	**Variable High End**	**Stable Low End**

Parameter	MW-1	MW-2	MW-3	MW-4
1,4-Dichlorobenzene	1,4-Dichlorobenzene MCL = 75 µg/L			
Historic Range	0.64-200	20-650	17,000-48,000	<1.3-21,000
4/11	<0.37	140	22,000	6.0
10/11	<0.37	160	33,000	<3.7
4/12	<0.37	160	19,000	100
4/13	<0.37	<150	26,000	73
6/14	<0.25	<130	27,000	<2.5
4/15	0.64	160	28,000	<1.3
5 yr General Trend	Stable Low End	Stable High End	Variable Mid Range	Stable Low End

Note: All concentrations are listed in micrograms per liter (µg/L). This data is also available in the tables in Appendix A.

2.1.3 Miscellaneous Organic Compounds

In addition to the indicator and non-indicator compounds discussed above, four additional organic compounds were quantified during this monitoring event. These compounds are listed by well and concentration in Table 3 below and the following is a summary of the detections relative to MCLs or BCLs.

Table 3 - Quantified Miscellaneous Compounds April 2015 Monitoring Event

Constituent	MCL	BCL	MW-1	MW-2	MW-3	MW-4
1,3-Dichlorobenzene	NA	86.7	ND/0.25	ND/50	1,100	ND/1.3
1,2,4-Trichlorobenzene	70	70	ND/0.40	ND/80	61	ND/1.3
2-Chlorotoluene	NA	91.3	ND/0.25	ND/50	26	ND/1.3
alpha-BHC	NA	11	ND/0.0024	0.074	0.56	ND/0.0024
gamma-BHC (Lindane)	0.20	0.20	ND/0.0029	0.019	ND/0.0029	ND/0.0029

Note: All concentrations are listed in micrograms per liter (µg/L). MCLs and BCLs which are not available for specific constituents are identified as NA. Constituents which were not detected are expressed as ND followed by the minimum detectable limit (MDL) for that parameter. MDLs are also expressed in µg/L.

- 1,3-Dichlorobenzene was not detected in MW-1, MW-2, and MW-4, but was detected in MW-3 above the BCL of 86.7 µg/L. 1,3-Dichlorobenzene does not have an MCL.

- 1,2,4-Trichlorobenzene was not detected in MW-1, MW-2, and MW-4, but was detected in MW-3 at a concentration (61 ug/L) below the MCL and BCL of 70 µg/L.
- 2-Chlorotoluene was not detected in MW-1, MW-2, and MW-4 but was detected in MW-3 at a concentration (26 ug/L) below the BCL of 91.3 µg/L.
- Alpha-BHC was not detected in wells MW-1 and MW-4. However, alpha-BHC was detected in MW-2 and MW-3 at concentrations below the BCL of 11 µg/L. Alpha-BHC does not have an MCL. Lindane was not detected in wells MW-1, MW-3, and MW-4. However gamma-BHC (Lindane) was detected in monitoring well MW-2 below the MCL and BCL of 0.20 µg/L.

2.1.4 Groundwater Monitoring Parameters

When compared to the June 2014 monitoring event, the static water level elevations during April 2015 increased in the closed pond area as follows:

- MW-1 increased by 0.62 feet
- MW-2 increased by 0.81 feet
- MW-3 increased by 0.96 feet
- MW-4 increased by 0.87 feet

Since the inception of monitoring in 1989, static groundwater elevations have risen as follows:

- 21.82 feet in MW-1
- 11.25 feet in MW-2
- 11.44 feet in MW-3
- 11.09 feet in MW-4

A graph displaying the overall rise in groundwater elevations for these wells over time is provided as Figure 8 in Appendix A.

Conductivity, pH, and temperature readings collected from MW-1, MW-2, MW-3, and MW-4 were within normal ranges during the April 2015 event (refer to the Low-Flow Purge Sampling Forms in Appendix C).

3.0 Conclusions

Compared to the previous monitoring event, which was performed during June 2014, VOC concentrations in wells MW-1 through MW-4 during the April 2015 event generally decreased or remained stable as compared to their respective historic ranges.

4.0 Path Forward

This annual closed pond post-closure monitoring event was conducted concurrently with the annual site-wide groundwater monitoring event that covers the entire Olin-Stauffer-Syngenta-Montrose (OSSM) site.

Unless otherwise planned through discussions with NDEP, the next monitoring event will be conducted in April 2016 and the analytical suite for the monitoring event will utilize the same, standard post-closure monitoring suite of VOCs, 4-4' dichlorobenzil, and organochlorine pesticides as used during this 2015 monitoring event.

The data generated by each monitoring event will continue to be presented in a format similar to that used for this report, and will also be evaluated as part of the OSSM annual site-wide comprehensive groundwater evaluation report to provide a site-wide context to the data.

Appendix A

Tables and Graphs

Table A1 - Montrose Water Quality Analyses

Monitoring Well MW-1

PARAMETER/DATE	5/24/1989	8/28/1989	12/4/1989	3/5/1990	6/7/1990	9/11/1990	12/6/1990	4/15/1991	7/11/1991	10/10/1991	1/3/1992	4/24/1992	10/5/1992	4/19/1993	10/7/1993	4/5/1994	MCL (ug/L)	BCL (ug/L)
INDICATOR COMPOUNDS																		
Carbon tetrachloride ug/L				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5	5
DDT ug/L				<0.04	<0.05	<0.04	<0.04	<0.04	<0.03	<0.03	0.30	0.03	<0.10	<0.04	<0.40	<0.02	No MCL	0.20
4,4 - Dichlorobenzil µg/L				<10	<10	<20	<20	<20	<20	<20	<10	<10	<20	<20	<5	<10	No MCL	11
Ethylbenzene µg/L				<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	700	700
Methylene Chloride µg/L	-1	-1	-1	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	No MCL	5
Toluene µg/L				<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	1000	1000
Total Xylenes µg/L				<5	<5	<5	<5	<25	<1	<1	<1	<1	<1	<2	<3	<3	10000	10000
NON-INDICATOR COMPOUNDS																		
Benzene µg/L				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5	5
Chloroform µg/L				2	38	25	38	64	<9	<11	<34	<5	<17	<5	150	<4	80	0.19
Chlorobenzene µg/L				<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	100	100
1,2 - Dichlorobenzene µg/L				<1	<1	<10	<1	<5	<1	<5	<1	<1	<1	<1	<1	<1	600	600
1,4 - Dichlorobenzene µg/L				<1	<1	<10	<1	<5	<1	<5	<1	<1	<1	<1	<1	<1	75	75
GROUNDWATER PARAMETERS																		
pH				6.75	6.54	6.93	7.26	7.04	NA	8.20	7.50	8	7.60	7.90	8.13	8.10	6.50-8.50	No BCL
Conductivity				1250	1067	1069	1540	1296	NA	631	1150	1410	1060	1000	1100	1050	No MCL	No BCL

Pre 1990 analytical data can be found in reports pre-dating 1999.

Table A1 - Montrose Water Quality Analyses

Monitoring Well MW-1

PARAMETER/DATE	9/30/1994	4/18/1995	10/31/1995	4/2/1996	10/2/1996	4/29/1997	10/29/1997	4/28/1998	10/26/1998	4/27/1999	10/28/99	4/27/2000	10/30/2000	4/30/2001	MCL (ug/L)	BCL (ug/L)
INDICATOR COMPOUNDS																
Carbon tetrachloride ug/L	<1	<1	<1	<1	<3	<1	<5	<5	<5	<5	<5	<5	<5	<5	5	5
DDT ug/L	<0.02	<0.02	<0.02	<0.02	<0.04	<0.04	<0.04	<0.0001	<0.0001	<0.0001	<0.0001	<0.10	<0.0002	<0.10	No MCL	0.20
4,4 - Dichlorobenzil µg/L	<5	<10	<0.20	<10	<10	<20	<10	<10	<10	<50	<50	<25	<25	<20	No MCL	11
Ethylbenzene µg/L	<1	<1	<1	<1	<3	<3	<0.50	<5	<5	<5	<5	<5	<5	<5	700	700
Methylene Chloride µg/L	<1	<1	<2	<2	<5	<2	<2	<5	<5	<10	<10	<5	<5	<5	No MCL	5
Toluene µg/L	<1	<1	<1	<1	<3	<1	0.66	<5	<5	<5	<5	<5	<5	<5	1000	1000
Total Xylenes µg/L	<3	<3	<3	<3	<8	<3	<1	<5	<5	<5	<5	<5	<5	<5	10000	10000
NON-INDICATOR COMPOUNDS																
Benzene µg/L	<1	<1	<1	<1	<3	<1	0.51	<5.10	<5	<5	<5	<5	<5	<5	5	5
Chloroform µg/L	130	2.60	150	11	68	4.80	2.90	<5	32	23	20	<5	<5	<5	80	0.19
Chlorobenzene µg/L	<1	<1	<1	<1	<3	<1	<0.50	<5	<5	<5	8	<5	<5	<5	100	100
1,2 - Dichlorobenzene µg/L	<1	<1	<1	<1	<3	<1	<0.50	<5	<5	<5	19	<5	<5	<5	600	600
1,4 - Dichlorobenzene µg/L	<1	<1	<1	<1	<3	<1	<0.50	<5	<5	<5	26	<5	<5	<5	75	75
GROUNDWATER PARAMETERS																
pH	7.33	7.36	7.85	7.87	7.37	6.90	6.80	7.92	7.38	7.66	7.47	7.09	7.04	7.36	6.50-8.50	No BCL
Conductivity	833	1350	1223	1250	1190	1220	1290	1315	1160	1300	1220	1230	1300	1220	No MCL	No BCL

Pre 1990 analytical data can be found in reports pre-dating 1999.

Table A1 - Montrose Water Quality Analyses

Monitoring Well MW-1

PARAMETER/DATE	10/3/2001	4/30/2002	12/23/2002	4/8/2003	10/27/2003	4/29/2004	10/22/2004	4/26/2005	10/21/2005	4/25/2006	10/30/2006	4/24/2007	10/16/2007	4/8/2008	10/27/2008	MCL (ug/L)	BCL (ug/L)
INDICATOR COMPOUNDS																	
Carbon tetrachloride ug/L	<5	<5	<5	<5	<5		<5	<5	<5	<5	<5	<0.28	<0.28	<0.28	<0.28	5	5
DDT ug/L	0.15	<0.10	<0.10	<0.10	<0.10		<0.05	<0.10	<0.12	<0.11	<0.10	<0.028	<0.028	<0.028	0.049	No MCL	0.20
4,4 - Dichlorobenzil µg/L	<20	<5	<5	<5	<5	<5	<5	<5	<5	<5.20	<5	<2.40	<2.40	<4.30	<4.30	No MCL	11
Ethylbenzene µg/L	<5	<5	<5	<5	<5	<1	<5	<5	<5	<5	<5	<0.25	<0.25	<0.25	<0.25	700	700
Methylene Chloride µg/L	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	<0.95	<0.95	<0.95	<0.95	No MCL	5
Toluene µg/L	<5	<5	<5	<5	<5	27	<5	<5	<5	<5	<5	<0.36	<0.36	<0.36	<0.36	1000	1000
Total Xylenes µg/L	<10	<10	<10	<10	<10	59	<5	<10	<10	<10	<10	<0.60	<0.60	<0.60	<0.60	10000	10000
NON-INDICATOR COMPOUNDS																	
Benzene µg/L	<5	<5	<5	<5	<5	10	<4	<5	<5	<5	<5	<0.28	<0.28	<0.28	<0.28	5	5
Chloroform µg/L	<5	<5	<5	11	<5	66	13	<5	5.40	<5	<5	0.69	1.70	1.60	5.60	80	0.19
Chlorobenzene µg/L	<5	<5	<5	<5	<5	180	<5	<5	<5	<5	<5	0.40	<0.36	<0.36	<0.36	100	100
1,2 - Dichlorobenzene µg/L	<5	<5	<5	<5	<5	180	<5	<5	<5	<5	<5	<0.32	<0.32	<0.32	<0.32	600	600
1,4 - Dichlorobenzene µg/L	<5	<5	<5	<5	<5	200	<5	<5	<5	<5	<5	<0.37	<0.37	<0.37	<0.37	75	75
GROUNDWATER PARAMETERS																	
pH	7.78	7.28	7.78	7.30	7.29	7.73	8.50	8.09	8.10	8.27	7.62	8.07	7.59	7.54	8.04	6.50-8.50	No BCL
Conductivity	1240	1350	1222	1480	1470	1110	1230	1230	1220	1260	1280	1200	1200	1100	1320	No MCL	No BCL

Pre 1990 analytical data can be found in reports pre-dating 1999.

Table A1 - Montrose Water Quality Analyses

Monitoring Well MW-1

PARAMETER/DATE	4/28/2009	10/30/2009	4/23/2010	10/27/2010	4/20/2011	10/13/2011	4/26/2012	4/23/2013	6/3/2014	4/29/2015	MCL (ug/L)	BCL (ug/L)
INDICATOR COMPOUNDS												
Carbon tetrachloride ug/L	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.25	<0.25	5	5
DDT ug/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.019	<0.019	No MCL	0.20
4,4 - Dichlorobenzil µg/L	<4.30	<4.20	<4.20	<4.3	<4.2	<4.3	<4.2	<4.3	<4.3	<4.3	No MCL	11
Ethylbenzene µg/L	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	700	700
Methylene Chloride µg/L	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<1.1	<1.1	<1.1	No MCL	5
Toluene µg/L	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.25	<0.25	1000	1000
Total Xylenes µg/L	<0.60	<0.60	<0.50	<0.60	<0.60	<0.60	<0.60	<0.60	<0.50	<0.50	10000	10000
NON-INDICATOR COMPOUNDS												
Benzene µg/L	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.25	<0.25	5	5
Chloroform µg/L	1.20	4.40	2.30	3.30	3.20	4.80	2.30	3.20	2.90	2.30	80	0.19
Chlorobenzene µg/L	2	2.2	0.64	<0.36	<0.36	0.42	<0.36	<0.36	<0.25	0.43	100	100
1,2 - Dichlorobenzene µg/L	5.7	8.6	3.8	1.4	0.67	<0.32	<0.32	<0.32	<0.25	0.73	600	600
1,4 - Dichlorobenzene µg/L	6.3	8.3	1.7	1	<0.37	<0.37	<0.37	<0.37	<0.25	0.64	75	75
GROUNDWATER PARAMETERS												
pH	4.67	5.49	7.45	4.84	5.77	7.75	5.42	7.24	7.39	7.94	6.50-8.50	No BCL
Conductivity	1380	1310	1350	1320	1260	1240	1040	1300	1460	1390	No MCL	No BCL

Pre 1990 analytical data can be found in reports pre-dating 1999.

Table A2 - Montrose Water Quality Analyses

Monitoring Well MW-2

PARAMETER/ DATE	3/5/1990	6/7/1990	9/11/1990	12/6/1990	4/15/1991	7/11/1991	10/10/1991	1/3/1992	4/24/1992	10/5/1992	4/19/1993	10/7/1993	4/5/1994	9/30/1994	MCL (ug/L)	BCL (ug/L)
INDICATOR COMPOUNDS																
Carbon tetrachloride µg/L	500	<50	<500	<100	500	280	470	400	280	<300	<100	83	<100	65	5	5
DDT ug/L	<0.04	<0.10	<0.04	<0.04	<0.04	<0.03	<0.03	<0.20	<0.03	<0.10	<0.04	<0.04	<0.02	<0.02	No MCL	0.20
4,4 - Dichlorobenzil µg/L	<20	<20	<20	<2000	<20	<10	<50	<10	<10	<100	<20	<100	<10	<5	No MCL	11
Ethylbenzene µg/L	<200	<50	<500	<100	<200	<50	<100	<100	<200	<300	<100	<30	<100	<10	700	700
Methylene Chloride µg/L	<200	<100	<400	<200	<400	<50	<100	200	210	<300	<100	<30	<100	19	No MCL	5
Toluene µg/L	<200	<50	<200	<100	<200	<50	<100	<100	<200	<300	<100	<30	<100	<10	1000	1000
Total Xylenes µg/L	<1000	<200	<1000	<500	<1000	<50	<100	<100	<200	<300	<200	<80	<300	<40	10000	10000
NON-INDICATOR COMPOUNDS																
Benzene µg/L	22000	10000	24000	19250	16000	8600	17000	16000	12000	<300	11000	6000	<100	4000	5	5
Chloroform µg/L	6200	6400	6800	5500	5000	2600	5000	4900	3500	4200	3900	3100	3500	2900	80	0.19
Chlorobenzene µg/L	19000	7600	26300	19500	17000	75000	16000	15000	11000	11000	78000	4600	3700	2900	100	100
1,2 - Dichlorobenzene µg/L	400	180	300	300	300	140	<1000	300	520	<300	170	160	100	110	600	600
1,4 - Dichlorobenzene µg/L	600	260	500	500	400	210	<1000	400	650	410	220	220	160	160	75	75
GROUNDWATER PARAMETERS																
pH	6.80	6.58	7.08	7.20	6.97	NA	7.50	7.50	7.60	7.50	7.70	7.99	7.79	7.49	6.50-8.50	No BCL
Conductivity	4730	4030	3950	5060	4930	NA	1942	4110	4260	3370	4250	3400	3820	2625	No MCL	No BCL

Pre 1990 analytical data can be found in reports pre-dating 1999.

Table A2 - Montrose Water Quality Analyses

Monitoring Well MW-2

PARAMETER/ DATE	4/13/1995	10/31/1995	4/2/1996	10/2/1996	4/29/1997	10/29/1997	4/28/1998	10/26/1998	4/27/1999	10/28/1999	4/27/2000	10/30/2000	4/30/2001	10/30/2001	MCL (ug/L)	BCL (ug/L)
INDICATOR COMPOUNDS																
Carbon tetrachloride µg/L	<50	<50	<50	<50	28	39	<50	<5	61	33	<50	53	50	58	5	5
DDT ug/L	<0.02	<0.02	<0.02	<0.04	<0.04	<0.04	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.15	No MCL	0.20
4,4 - Dichlorobenzil µg/L	<10	<0.20	<10	<10	<20	<10	<10	<10	<50	<50	<50	<50	<20	<20	No MCL	11
Ethylbenzene µg/L	<50	<50	<50	<50	<1	<0.50	<0.05	<5	<5	<5	<5	<5	<5	<5	700	700
Methylene Chloride µg/L	<50	<100	<100	<100	4.30	9.30	<50	<5	<15	<15	6.60	<15	15	16	No MCL	5
Toluene µg/L	<50	<50	<50	<50	<1	<0.50	<50	<5	<5	<5	<5	<5	<5	<5	1000	1000
Total Xylenes µg/L	<200	<200	<200	<200	<3	<1	<50	<5	<5	<5	<5	<5	<5	<10	10000	10000
NON-INDICATOR COMPOUNDS																
Benzene µg/L	5500	7300	4500	3400	2800	5700	3300	3900	4000	2200	1700	2600	1100	2100	5	5
Chloroform µg/L	6200	8800	5300	6200	7800	10000	16000	16000	15000	18000	19000	22000	13000	32000	80	0.19
Chlorobenzene µg/L	3100	4600	2000	1500	1200	2400	1400	1500	1800	110	800	1200	560	890	100	100
1,2 - Dichlorobenzene µg/L	66	200	53	50	84	100	140	41	180	91	29	<100	120	23	600	600
1,4 - Dichlorobenzene µg/L	100	300	81	74	110	140	160	61	200	110	39	<100	130	32	75	75
GROUNDWATER PARAMETERS																
pH	7.42	7.50	7.45	7.20	7.33	7.39	7.44	7.21	7.40	6.80	7.36	7.33	6.73	6.87	6.50-8.50	No BCL
Conductivity	3818	3988	3818	3952	4220	4100	3868	4260	5190	5580	6010	6030	5550	6930	No MCL	No BCL

Pre 1990 analytical data can be found in reports pre-dating 1999.

Table A2 - Montrose Water Quality Analyses

Monitoring Well MW-2

PARAMETER/ DATE	4/30/2002	12/23/2002	4/8/2003	10/27/03	4/29/2004	10/22/2004	4/26/2005	10/21/2005	4/25/2006	10/30/2006	4/24/2007	10/17/2007	4/8/2008	10/27/2008	MCL (ug/L)	BCL (ug/L)
INDICATOR COMPOUNDS																
Carbon tetrachloride µg/L	73	<5	99	99	210	147	140	130	730	1500	310	470	470	640	5	5
DDT ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.028	<0.028	<0.028	<0.019	No MCL	0.20
4,4 - Dichlorobenzil µg/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<2.40	<2.40	<4.30	<4.30	No MCL	11
Ethylbenzene µg/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<250	<5	<250	<25	700	700
Methylene Chloride µg/L	<5	18	26	82	67	61	110	67	62	37	<950	110	<950	190	No MCL	5
Toluene µg/L	<5	<5	<5	<5	6.10	<5	<5	<5	<5	<5	<360	<7.20	<360	<36	1000	1000
Total Xylenes µg/L	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10	<600	<12	<600	<60	10000	10000
NON-INDICATOR COMPOUNDS																
Benzene µg/L	1700	1800	1600	2200	1500	1300	1400	1300	1500	2000	2000	2600	2900	3500	5	5
Chloroform µg/L	32000	27000	28000	50000	56000	53000	120000	61000	55000	97000	75000	100000	96000	92000	80	0.19
Chlorobenzene µg/L	720	820	680	1000	1800	680	720	970	880	1400	2000	2500	2900	4700	100	100
1,2 - Dichlorobenzene µg/L	17	<100	13	18	22	15	17	21	19	29	160	67	<320	160	600	600
1,4 - Dichlorobenzene µg/L	29	<100	20	24	31	22	26	37	30	41	160	98	<370	250	75	75
GROUNDWATER PARAMETERS																
pH	7.48	7.30	7.01	7.03	7.33	7.60	7.60	7.59	7.61	7.16	7.54	7.26	6.95	7.34	6.50-8.50	No BCL
Conductivity	6830	7160	6790	6830	8260	9540	9740	9900	10000	10100	8900	9100	8300	10700	No MCL	No BCL

Pre 1990 analytical data can be found in reports pre-dating 1999.

Table A2 - Montrose Water Quality Analyses

Monitoring Well MW-2

PARAMETER/ DATE	4/27/2009	10/30/2009	4/23/2010	10/28/2010	4/20/2011	10/14/2011	4/26/2012	4/23/2013	6/3/2014	4/29/2015	MCL (ug/L)	BCL (ug/L)
INDICATOR COMPOUNDS												
Carbon tetrachloride µg/L	<280	410	270	<280	220	280	180	300	210	150	5	5
DDT ug/L	<0.021	<0.020	<0.020	<0.019	<0.019	<0.19	<0.019	<0.019	<0.020	<0.020	No MCL	0.20
4,4 - Dichlorobenzil µg/L	<4.30	<4.20	<4.30	<4.30	<4.30	<4.30	<4.30	<4.30	<4.4	<4.3	No MCL	11
Ethylbenzene µg/L	<250	<100	<50	<250	<50	<50	<50	<100	<130	<50	700	700
Methylene Chloride µg/L	<950	<380	220	<950	190	280	<190	690	<550	240	No MCL	5
Toluene µg/L	<360	<140	<72	<360	<72	<72	<72	<140	<130	<50	1000	1000
Total Xylenes µg/L	<600	<240	<120	<600	<120	<120	<120	<240	<250	<100	10000	10000
NON-INDICATOR COMPOUNDS												
Benzene µg/L	2000	2000	1800	1400	1400	1800	1700	2100	1700	1700	5	5
Chloroform µg/L	83000	93000	96000	97000	82000	110000	86000	120000	120000	110000	80	0.19
Chlorobenzene µg/L	3000	2700	2000	1700	2000	2600	2200	3100	2600	2400	100	100
1,2 - Dichlorobenzene µg/L	<320	<130	92	<320	80	84	87	<130	<130	81	600	600
1,4 - Dichlorobenzene µg/L	<370	230	160	<370	140	160	160	<150	<130	160	75	75
GROUNDWATER PARAMETERS												
pH	5.41	7.51	7.06	5.00	5.54	7.36	5.56	7.01	6.82	7.02	6.50-8.50	No BCL
Conductivity	9000	10200	18100	9900	9960	8930	10900	11300	13200	10100	No MCL	No BCL

Pre 1990 analytical data can be found in reports pre-dating 1999.

Table A3 - Montrose Quality Analysis

Monitoring Well MW-3

PARAMETER/ DATE	3/5/1990	6/7/1990	9/11/1990	12/6/1990	4/15/1991	7/11/1991	10/10/1991	1/3/1992	4/24/1992	10/5/1992	4/19/1993	10/7/1993	4/5/1994	MCL (ug/L)	BCL (ug/L)
INDICATOR COMPOUNDS															
Carbon tetrachloride µg/L	<500	<100	<500	<200	<200	<250	<500	<200	<200	<300	<500	<100	<500	5	5
DDT ug/L	<0.04	<0.80	<0.80	<0.04	<0.20	<0.30	<0.60	<0.60	<0.30	<1	<0.80	<0.20	<1	No MCL	0.20
4,4-Dichlorobenzil µg/L	<50	<20	<20	<10000	<20	<20	<100	<10	<10	<200	<200	<100	<5	No MCL	11
Ethylbenzene µg/L	<500	<100	<500	<200	<200	<250	<500	<200	<200	<300	<500	<100	<500	700	700
Methylene Chloride µg/L	<1000	<200	<1000	<400	<400	<250	<500	300	<200	<300	<500	<100	<500	No MCL	5
Toluene µg/L	<500	<100	<500	<200	<200	<250	<500	<200	<200	<300	<500	<100	<500	1000	1000
Total Xylenes µg/L	<2000	<5000	<2500	<1000	<1000	<2500	<500	<200	<200	<300	<1000	<30	<2000	10000	10000
NON-INDICATOR COMPOUNDS															
Benzene µg/L	12000	11000	15000	13000	13000	12000	13000	12000	12000	11000	14000	9000	7200	5	5
Chloroform µg/L	37000	19000	43200	36800	38000	31000	32000	32000	30000	29000	24000	20000	24000	80	0.19
Chlorobenzene µg/L	27000	14000	37500	31000	32000	29000	26000	32000	30000	32000	29000	34000	30000	100	100
1,2 - Dichlorobenzene µg/L	22000	12000	24750	24000	21000	18000	14000	28000	22000	30000	23000	35000	27000	600	600
1,4 - Dichlorobenzene µg/L	29000	17000	35250	33000	29000	25000	20000	33000	25000	37000	27000	46000	34000	75	75
GROUNDWATER PARAMETERS															
pH	6.38	6.33	6.66	6.75	6.65	NA	7.30	7.10	7.10	6.90	7.65	7.29	6.59	6.50-8.50	No BCL
Conductivity	9950	8610	8130	10110	9760	NA	4540	8100	8360	6900	7800	6200	6950	No MCL	No BCL

Pre 1990 analytical data can be found in reports pre-dating 1999.

Table A3 - Montrose Quality Analysis

Monitoring Well MW-3

PARAMETER/ DATE	9/30/1994	4/13/1995	10/31/1995	4/2/1996	10/2/1996	4/29/1997	10/29/1997	4/28/1998	10/26/1998	4/27/1999	10/28/1999	4/27/2000	10/30/2000	4/30/2001	10/3/2001	MCL (ug/L)	BCL (ug/L)
INDICATOR COMPOUNDS																	
Carbon tetrachloride µg/L	<200	<500	<500	<500	<500	3	4.30	<50	<50	<5000	<5000	<50	6.40	<50	<500	5	5
DDT ug/L	<1	<0.20	<0.40	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	No MCL	0.20
4,4-Dichlorobenzil µg/L	<5	<10	<0.20	<0.20	<10	<20	<10	<500	<100	<50	<50	<25	<25	<20	<20	No MCL	11
Ethylbenzene µg/L	<200	<500	<500	<500	<500	<1	<0.50	<50	<50	<5	<5	<50	<5	<50	<500	700	700
Methylene Chloride µg/L	260	<500	<100	<1000	<1000	8.10	11	<50	<50	<10	9.80	<50	<5	<50	<500	No MCL	5
Toluene µg/L	<200	<500	<500	<500	<500	<1	1	<50	<50	<5	<5	<50	<50	<50	<500	1000	1000
Total Xylenes µg/L	<600	<2000	<2000	<2000	<2000	<3	4.10	<50	<50	<5000	<5000	<50	<5	<50	<1000	10000	10000
NON-INDICATOR COMPOUNDS																	
Benzene µg/L	9900	8400	7500	8800	7300	6300	6200	6000	6900	2500	5100	4700	3700	4000	3500	5	5
Chloroform µg/L	22000	21000	20000	16000	12000	9100	9300	9100	12000	15000	9900	8900	9700	10000	9500	80	0.19
Chlorobenzene µg/L	37000	37000	34000	32000	32000	31000	33000	22000	28000	25000	30000	26000	27000	34000	27000	100	100
1,2 - Dichlorobenzene µg/L	35000	36000	40000	30000	43000	42000	38000	25000	41000	15000	33000	30000	35000	40000	27000	600	600
1,4 - Dichlorobenzene µg/L	42000	45000	48000	37000	48000	48000	45000	23000	46000	16000	39000	33000	40000	48000	31000	75	75
GROUNDWATER PARAMETERS																	
pH	6.96	6.83	7.08	6.93	6.87	7.06	7.43	7.14	6.76	7.03	6.57	7.20	7.19	6.54	7.03	6.50-8.50	No BCL
Conductivity	4535	5630	6552	5558	5160	4660	4730	5645	4800	5700	5760	6020	6070	5910	6170	No MCL	No BCL

Pre 1990 analytical data can be found in reports pre-dating 1999.

Table A3 - Montrose Quality Analysis

Monitoring Well MW-3

PARAMETER/ DATE	4/30/2002	12/23/2002	4/8/2003	10/27/2003	4/29/2004	10/22/2004	4/26/2005	10/21/2005	4/25/2006	10/30/2006	4/25/2007	10/17/2007	4/8/2008	10/27/2008	MCL (ug/L)	BCL (ug/L)
INDICATOR COMPOUNDS																
Carbon tetrachloride µg/L	8.20	15	<5	<5	<5	<5	<5	14	40	76	<28	<56	<280	<28	5	5
DDT ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.10	<0.10	0.14	<0.10	0.035	<0.057	<0.14	<0.019	No MCL	0.20
4,4-Dichlorobenzil µg/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<48	<12	<110	<210	No MCL	11
Ethylbenzene µg/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25	<50	<250	<25	700	700
Methylene Chloride µg/L	7.10	<5	<5	<5	11	<5	5	<10	<10	<10	<95	<190	<950	110	No MCL	5
Toluene µg/L	<5	<5	<5	<5	15	<5	<5	<5	<5	<5	<36	<72	<360	<36	1000	1000
Total Xylenes µg/L	<10	<10	<10	<10	67	<5	<10	<10	<10	<10	<60	<120	<600	<60	10000	10000
NON-INDICATOR COMPOUNDS																
Benzene µg/L	2400	2700	3800	1900	2500	2400	2700	2700	1900	2200	1800	1900	1900	1900	5	5
Chloroform µg/L	9000	7500	37000	11000	9300	9400	9600	13000	15000	25000	23000	35000	41000	32000	80	0.19
Chlorobenzene µg/L	22000	17000	25000	38000	30000	32000	31000	36000	21000	25000	25000	27000	29000	22000	100	100
1,2 - Dichlorobenzene µg/L	24000	17000	20000	33000	36000	34000	33000	36000	20000	22000	27000	32000	35000	32000	600	600
1,4 - Dichlorobenzene µg/L	26000	20000	24000	36000	41000	43000	40000	44000	26000	25000	28000	35000	37000	32000	75	75
GROUNDWATER PARAMETERS																
pH	7.48	6.88	7.04	7.03	7.15	7.40	7.35	7.41	7.40	6.86	7.42	7.07	6.68	7.09	6.50-8.50	No BCL
Conductivity	6830	5910	6160	6180	6570	6800	6800	7510	8659	8460	8300	8400	8000	9370	No MCL	No BCL

Pre 1990 analytical data can be found in reports pre-dating 1999.

Table A3 - Montrose Quality Analysis

Monitoring Well MW-3

PARAMETER/ DATE	4/28/2009	10/30/2009	4/23/2010	10/25/2010	4/21/2011	10/14/2011	4/26/2012	4/23/2013	6/3/2014	4/29/2015	MCL (ug/L)	BCL (ug/L)
INDICATOR COMPOUNDS												
Carbon tetrachloride µg/L	<110	<56	<28	<56	<56	<28	<28	<28	<50	<25	5	5
DDT ug/L	<0.020	<0.020	<0.019	<0.057	<0.019	<0.19	<0.019	<0.019	<0.020	<0.019	No MCL	0.20
4,4-Dichlorobenzil µg/L	<43	<4.3	<21	<85	<42	<540	<21	<8.5	<4.3	<43	No MCL	11
Ethylbenzene µg/L	<100	<50	<25	<50	<50	<25	<25	<25	<50	<25	700	700
Methylene Chloride µg/L	<380	<190	<95	<190	<190	170	<95	<38	<220	110	No MCL	5
Toluene µg/L	<140	<70	<36	<72	<72	<36	<36	<36	<50	<25	1000	1000
Total Xylenes µg/L	<240	<120	<60	<120	<120	<60	<60	<60	<100	<50	10000	10000
NON-INDICATOR COMPOUNDS												
Benzene µg/L	1400	1200	1200	740	1000	1000	940	1100	850	970	5	5
Chloroform µg/L	30000	26000	23000	23000	18000	32000	25000	38000	43000	30000	80	0.19
Chlorobenzene µg/L	26000	20000	18000	16000	15000	24000	16000	21000	26000	24000	100	100
1,2 - Dichlorobenzene µg/L	35000	29000	26000	29000	22000	32000	21000	25000	28000	27000	600	600
1,4 - Dichlorobenzene µg/L	38000	39000	25000	29000	22000	33000	21000	26000	27000	28000	75	75
GROUNDWATER PARAMETERS												
pH	6.95	6.78	6.91	5.41	6.24	6.83	6.25	6.66	6.62	6.85	6.50-8.50	No BCL
Conductivity	9000	9760	17100	10600	105000	11700	11800	12300	14300	11200	No MCL	No BCL

Pre 1990 analytical data can be found in reports pre-dating 1999.

Table A4 - Montrose Water Quality Analyses

Monitoring Well MW-4

PARAMETER/ DATE	3/5/1990	6/7/1990	9/11/1990	12/6/1990	4/15/1991	7/11/1991	10/10/1991	1/3/1992	4/24/1992	10/5/1992	4/19/1993	10/7/1993	4/5/1994	9/30/1994	MCL (ug/L)	BCL (ug/L)
INDICATOR COMPOUNDS																
Carbon tetrachloride µg/L	<500	<50	<500	<200	<250	<250	<50	<500	<200	<300	<1000	<100	<500	<10	5	5
DDT ug/L	<0.04	<0.80	<0.40	0.04	<0.20	<0.20	<0.03	0.09	<0.03	<0.10	<0.04	<0.08	<0.04	<0.20	No MCL	0.20
4,4 - Dichlorobenzil µg/L	<1000	<2000	<20	<2000	<20	<20	<50	<10	NA	<200	<20	<30	<500	<5	No MCL	11
Ethylbenzene µg/L	<500	<50	<500	<200	<250	<250	<500	<500	<200	<300	<1000	<100	<500	<10	700	700
Methylene Chloride µg/L	<1000	<200	<1000	<400	<500	<250	<500	<500	300	<300	<1000	<100	<500	92	No MCL	5
Toluene µg/L	<500	<50	<500	<200	<250	<250	<500	<500	<200	<300	<1000	<100	<500	<10	1000	1000
Total Xylenes µg/L	<2000	<200	<250	<100	<250	<250	<500	<500	<200	<300	<2000	<300	<2000	<10	10000	10000
NON-INDICATOR COMPOUNDS																
Benzene µg/L	15000	9100	11000	14000	9700	10000	10000	8900	8400	3800	5600	3800	3900	2500	5	5
Chloroform µg/L	34000	5000	43800	35250	34000	43000	42000	43000	55000	41000	75000	7300	82000	46000	80	0.19
Chlorobenzene µg/L	43000	3000	7800	38000	26000	27000	24000	23000	22000	13000	16000	12000	13000	8700	100	100
1,2 - Dichlorobenzene µg/L	6200	4300	5600	5500	5300	6400	4300	5900	6600	4700	7600	6900	5300	4000	600	600
1,4 - Dichlorobenzene µg/L	7000	9700	6500	6400	5900	7100	4800	5800	6300	4900	7200	7100	5500	4300	75	75
GROUNDWATER PARAMETERS																
pH	6.50	6.49	6.82	6.73	6.65	NA	7	7.10	7.50	7.30	7.10	7.62	7.33	7.10	6.50-8.50	No BCL
Conductivity	8060	7600	7380	9010	9540	NA	4630	8620	8640	7290	10000	8600	8900	5723	No MCL	No BCL

Pre 1990 analytical data can be found in reports pre-dating 1999

Table A4 - Montrose Water Quality Analyses

Monitoring Well MW-4

PARAMETER/ DATE	4/13/1995	10/31/1995	4/2/1996	10/2/1996	4/29/1997	10/29/1997	4/28/1998	10/26/1998	4/27/1999	10/28/1999	10/30/2000	4/30/2001	10/3/2001	MCL (ug/L)	BCL (ug/L)
INDICATOR COMPOUNDS															
Carbon tetrachloride µg/L	<800	<1000	<500	<500	<1	3.40	<50	<50	<500	<50	<5	<5	<0.25	5	5
DDT ug/L	<0.02	<0.04	<0.02	<0.04	<0.04	<0.04	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	No MCL	0.20
4,4 - Dichlorobenzil µg/L	<10	<0.20	<10	<10	<20	<10	<500	<10	<50	<25	<25	<20	<20	No MCL	11
Ethylbenzene µg/L	<800	<1000	<500	<500	<1	<0.5	<5	<50	<500	<50	<5	<5	<250	700	700
Methylene Chloride µg/L	<800	<2000	<1000	<1000	67	8.20	<50	90		<50	<35	28	<250	No MCL	5
				.											
Toluene µg/L	<800	<1000	<500	<500	<1	0.64	<50	<50	<500	<50	<5	<5	<250	1000	1000
Total Xylenes µg/L	<3000	<2000	<2000	<2000	<3	<1	<50	<50	<500	<50	<5	<5	<500	10000	10000
NON-INDICATOR COMPOUNDS															
Benzene µg/L	2600	2800	3200	3000	2500	1400	3400	2900	3900	1400	1500	800	900	5	5
Chloroform µg/L	79000	57000	66000	60000	60000	42000	44000	97000	62000	28000	24000	12000	23000	80	0.19
Chlorobenzene µg/L	6800	9200	8500	8000	6900	4000	8800	21000	20000	4300	4300	2200	2200	100	100
1,2 - Dichlorobenzene µg/L	4900	4800	4600	5100	3600	3300	4800	2400	8900	2200	1900	1000	1200	600	600
1,4 - Dichlorobenzene µg/L	4900	4800	4400	5000	3700	3300	4700	21000	8900	2400	2200	1100	1400	75	75
GROUNDWATER PARAMETERS															
pH	6.95	7.04	6.96	6.92	7.18	7.27	6.74	7.15	7.15	7.36	7.38	6.70	7.27	6.50-8.50	No BCL
Conductivity	8600	8788	8248	7990	7900	8040	8258	7300	8460	8350	8390	8190	7460	No MCL	No BCL

Pre 1990 analytical data can be found in reports pre-dating 1999

Table A4 - Montrose Water Quality Analyses

Monitoring Well MW-4

PARAMETER/ DATE	4/30/2002	12/23/2002	4/8/2003	10/27/2003	4/29/2004	10/22/2004	4/26/2005	10/21/2005	4/25/2006	10/30/2006	4/25/2007	10/17/2007	4/8/2008	MCL (ug/L)	BCL (ug/L)
INDICATOR COMPOUNDS															
Carbon tetrachloride µg/L	10	5	<250	10	13	9.70	12	12	40	80	18	<56	<28	5	5
DDT ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	0.035	<0.028	<0.028	No MCL	0.20
4,4 - Dichlorobenzil µg/L	<5	<5	<5	<5	<5	<5.10	<5.20	<5	<5	<5	<2.40	<2.40	<4.30	No MCL	11
Ethylbenzene µg/L	<5	<5	<250	<5	<5	<5	<5	<5	<5	<5	<5	<50	<25	700	700
Methylene Chloride µg/L	8.40	9.10	<250	10	<5	8.30	<5	<10	<10	<10	<19	<190	<95	No MCL	5
Toluene µg/L	<5	<5	<250	<5	8	<5	<5	<5	<5	<5	<7.20	<72	<36	1000	1000
Total Xylenes µg/L	<10	<10	<250	<5	20	<5	<10	<10	<10	<10	<12	<120	<60	10000	10000
NON-INDICATOR COMPOUNDS															
Benzene µg/L	390	910	760	550	290	360	82	50	34	35	46	<56	<28	5	5
Chloroform µg/L	16000	16000	17000	17000	13000	13000	12000	11000	10000	12000	12000	12000	8500	80	0.19
Chlorobenzene µg/L	1100	2300	7500	1800	2100	900	190	150	88	86	110	100	67	100	100
1,2 - Dichlorobenzene µg/L	650	160	190	900	290	400	180	140	86	97	94	<64	34	600	600
1,4 - Dichlorobenzene µg/L	710	1700	17000	940	3400	500	210	160	95	100	110	110	<37	75	75
GROUNDWATER PARAMETERS															
pH	6.94	7.28	7.11	6.98	7.31	7.60	7.56	7.70	7.70	7.09	7.65	7.29	7.07	6.50-8.50	No BCL
Conductivity	6870	7020	7310	7100	6750	6540	6730	6530	6740	6530	5900	5800	5100	No MCL	No BCL

Pre 1990 analytical data can be found in reports pre-dating 1999

Table A4 - Montrose Water Quality Analyses

Monitoring Well MW-4

PARAMETER/ DATE	10/27/2008	4/28/2009	10/29/2009	4/23/2010	10/26/2010	4/21/2011	10/14/2011	4/26/2012	4/23/2013	6/3/2014	4/29/2015	MCL (ug/L)	BCL (ug/L)
INDICATOR COMPOUNDS													
Carbon tetrachloride µg/L	27	<14	<28	10	<14	7.8	9.1	5.2	5.8	3.0	3.0	5	5
DDT ug/L	<0.019	<0.020	<0.020	<0.19	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.020	No MCL	0.20
4,4 - Dichlorobenzil µg/L	<4.30	<4.30	<4.30	<4.20	<4.30	<4.30	<4.20	<4.20	<4.30	<4.30	<4.3	No MCL	11
Ethylbenzene µg/L	<5	<12	<25	<5	<12	<2.5	<2.5	<2.5	<1.3	<2.5	<1.3	700	700
Methylene Chloride µg/L	21	<48	<95	<19	<48	<9.5	14	<9.5	8.2	<11	<5.5	No MCL	5
Toluene µg/L	<7.2	<18	<36	<7.2	<18	<3.6	<3.6	<3.6	<1.8	<2.5	<1.3	1000	1000
Total Xylenes µg/L	<12	<30	<60	<12	<30	<6.0	<6.0	<6.0	<3.0	<5.0	<2.5	10000	10000
NON-INDICATOR COMPOUNDS													
Benzene µg/L	12	<14	<28	<5.6	<14	<2.8	<2.8	8.1	9.2	<2.5	<1.3	5	5
Chloroform µg/L	9800	5700	4900	3900	3100	2700	2700	2400	2800	1800	1500	80	0.19
Chlorobenzene µg/L	41	<18	<36	<7.2	<18	<3.6	<3.6	73	78	<2.5	1.3	100	100
1,2 - Dichlorobenzene µg/L	64	16	<32	9.4	<16	6.2	5.9	120	80	<2.5	<1.3	600	600
1,4 - Dichlorobenzene µg/L	70	22	<37	<7.4	<18	6.0	<3.7	100	73	<2.5	<1.3	75	75
GROUNDWATER PARAMETERS													
pH	7.49	7.19	6.46	7.37	5.24	6.01	7.37	7.00	6.81	7.18	7.47	6.50-8.50	No BCL
Conductivity	5860	5760	5.38	5080	5480	4820	4330	5550	5010	5480	5460	No MCL	No BCL

Pre 1990 analytical data can be found in reports pre-dating 1999

Table A5
Montrose Facility
Groundwater Elevation Data

Well I.D.	MW-1	MW-2	MW-3	MW-4
M.P.E.	1851.18	1825.26	1826.31	1826.20
Date				
May-89	1775.66	1771.37	1770.99	1771.77
Aug-89	1775.94	1771.16	1770.91	1770.58
Dec-89	1774.85	1771.14	1771.34	1771.02
Jan-90		1771.18		
Mar-90	1774.65	1771.88	1770.81	1770.52
Jun-90	1775.60	1771.22	1770.80	1770.53
Sep-90	1775.55	1771.24	1770.77	1770.33
Dec-90	1775.38	1772.16	1771.81	1771.37
Apr-91	1775.60	1771.68	1771.28	1771.26
Jul-91	1775.38	1770.81	1770.49	1770.12
Oct-91	1775.48	1771.30	1770.95	1770.90
Jan-92	1774.46	1770.24	1770.79	1769.58
Apr-92	1775.66	1770.22	1770.79	1769.59
Oct-92	1776.02	1771.16	1770.48	1770.00
Apr-93	1776.34	1771.94	1771.43	1771.32
Oct-93	1776.63	1771.14	1770.53	1770.64
Apr-94	1776.21	1770.56	1769.72	1769.44
Sep-94	1776.15	1770.22	1769.36	1769.13
Apr-95	1776.35	1771.38	1771.04	1770.67
Oct-95	1776.15	1771.24	1770.70	1770.27
Apr-96	1776.88	1770.96	1769.77	1769.52
Oct-96	1776.75	1769.94	1769.09	1768.30
Apr-97	1776.64	1769.38	1768.03	1767.72
Oct-97	1776.82	1769.30	1768.03	1767.83
Apr-98	1777.42	1769.81	1768.67	1768.47
Nov-98	1778.53	1770.94	1769.40	1769.11
Apr-99	1775.93	1771.41	1770.69	1770.82
Oct-99	1779.18	1770.41	1770.69	1770.82
Apr-00	1779.52	1771.21	1769.43	1770.48
Oct-00	1779.62	1770.79	1769.88	1769.76
Apr-01	1780.79	1772.01	1771.39	1771.47
Oct-01	1780.44	1771.56	1770.67	1770.68
Apr-02	1781.04	1773.57	1772.91	1772.47
Dec-02	1782.75	1773.03	1772.41	1772.53
Apr-03	1780.37	1772.06	1770.80	1770.72
Oct-03	1781.04	1772.83	1771.58	1771.07
Apr-04	1783.88	1773.99	1773.52	1773.74
Oct-04	1784.73	1774.46	1773.01	1773.10
Apr-05	1786.51	1776.56	1776.56	1776.70
Oct-05	1786.99	1777.31	1777.08	1776.73
Apr-06	1788.48	1778.25	1777.81	1778.10
Oct-07	1788.61	1778.51	1778.50	1778.68
Apr-07	1789.31	1778.26	1778.12	1778.50
Oct-07	1789.74	1778.14	1778.12	1778.42
Apr-08	1790.57	1779.10	1779.30	1779.47
Oct-08	1790.72	1778.88	1778.62	1778.97
Apr-09	1792.01	1778.71	1778.26	1778.67
Oct-09	1792,57	1779.32	1778.89	1779.22
Apr-10	1793.02	1779.76	1779.51	1779.85
Oct-10	1793.10	1779.96	1779.64	1779.95
Apr-11	1793.42	1780.70	1780.59	1780.90
Oct-11	1793.73	1780.75	1780.61	1780.92
Apr-12	1793.53	1780.21	1780.14	1780.70
Apr-13	1795.23	1782.11	1782.06	1782.60
Jun-14	1796.86	1781.81	1781.47	1781.99
Apr-15	1797.48	1782.62	1782.43	1782.86

<- new su

Notes:
All data in feet above mean sea level (msl) calculated from depth to water measurements and 2004 top-of-casing Nevada State Plane elevation survey.

M.P.E. = Measuring Point Elevation

Figure 1 - Water Quality Analyses - Montrose Monitoring Well MW-1

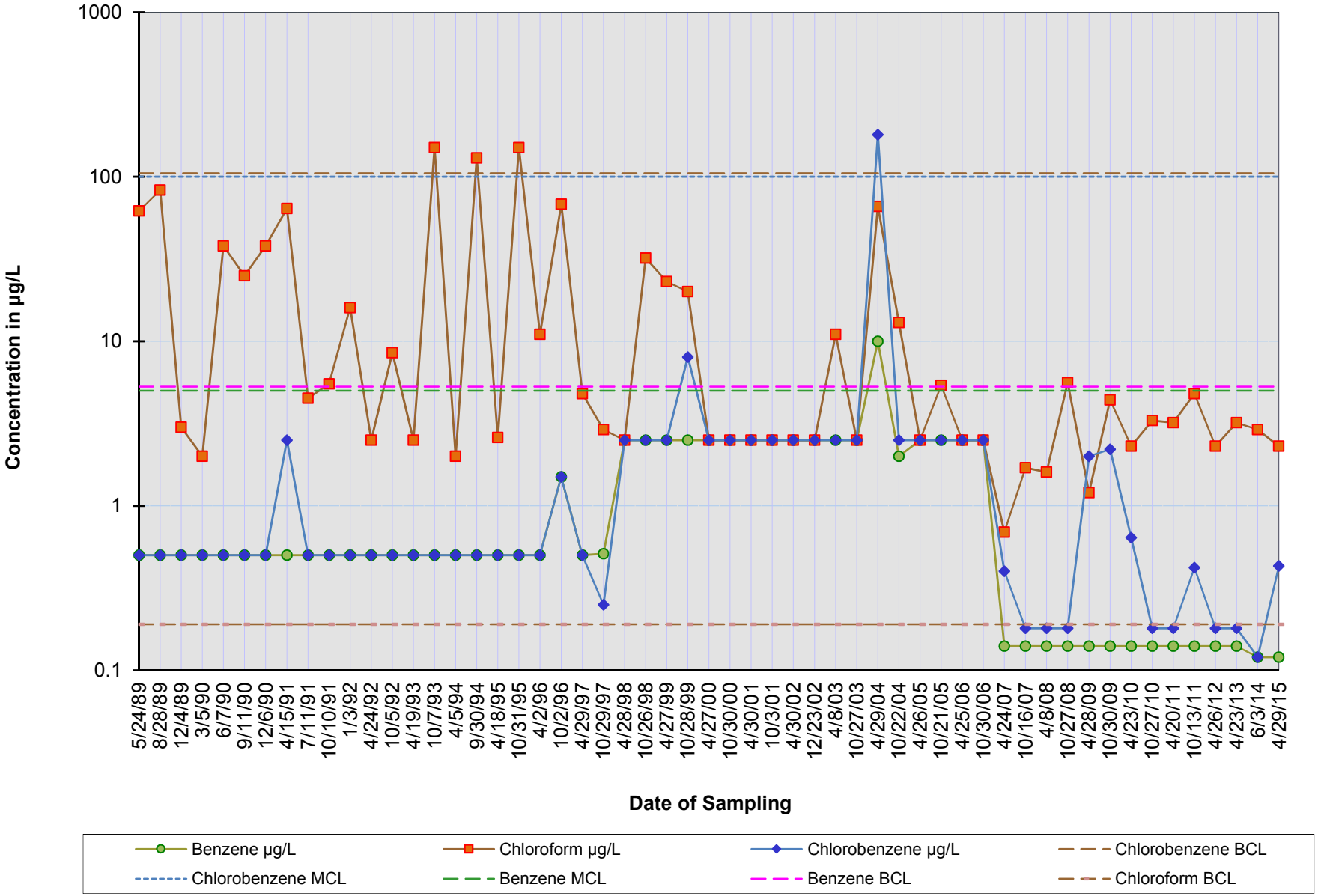


Figure 2 - Water Quality Analyses - Montrose Monitoring Well MW-2

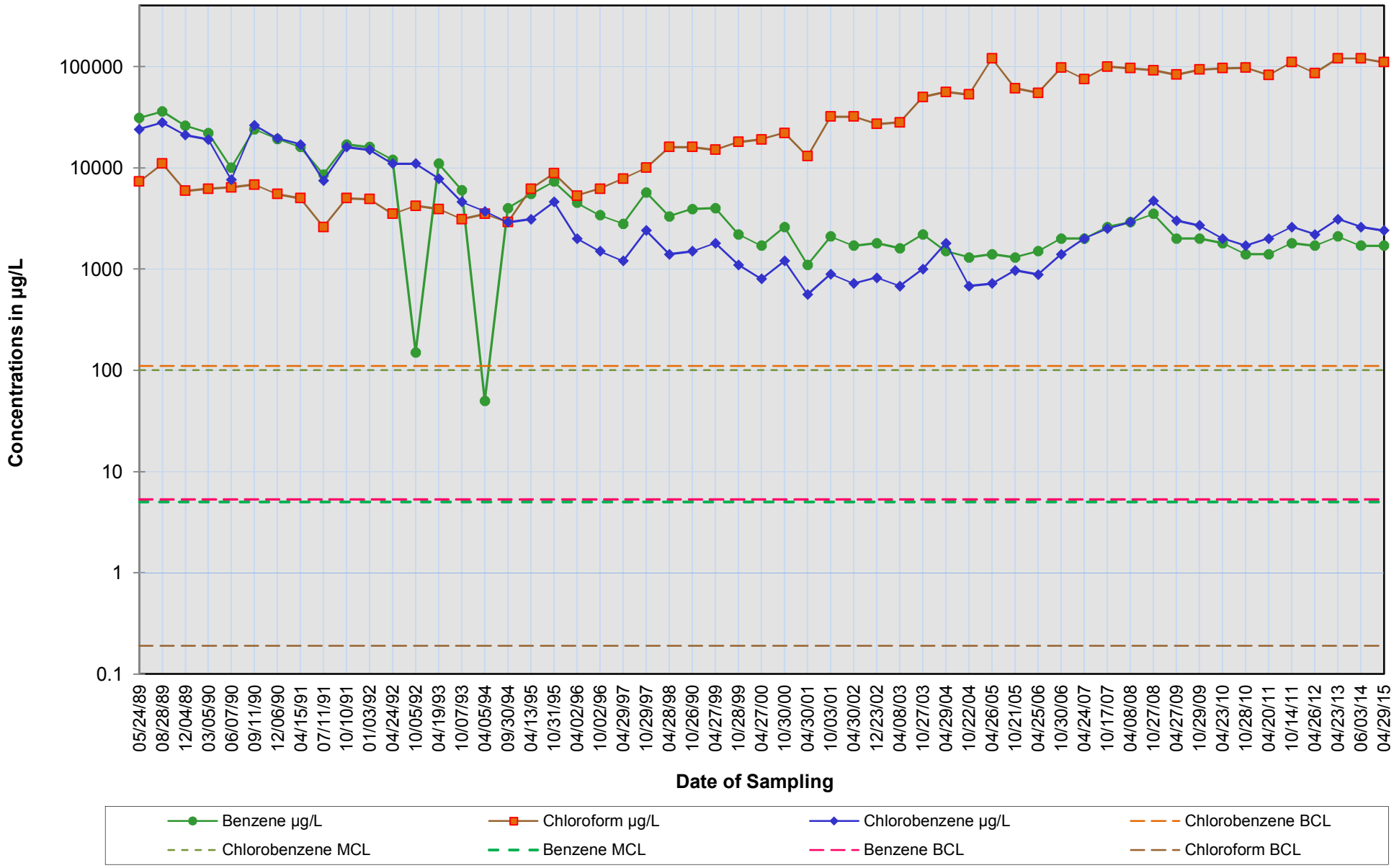


Figure 3 - Water Quality Analyses - Montrose Monitoring Well MW-2

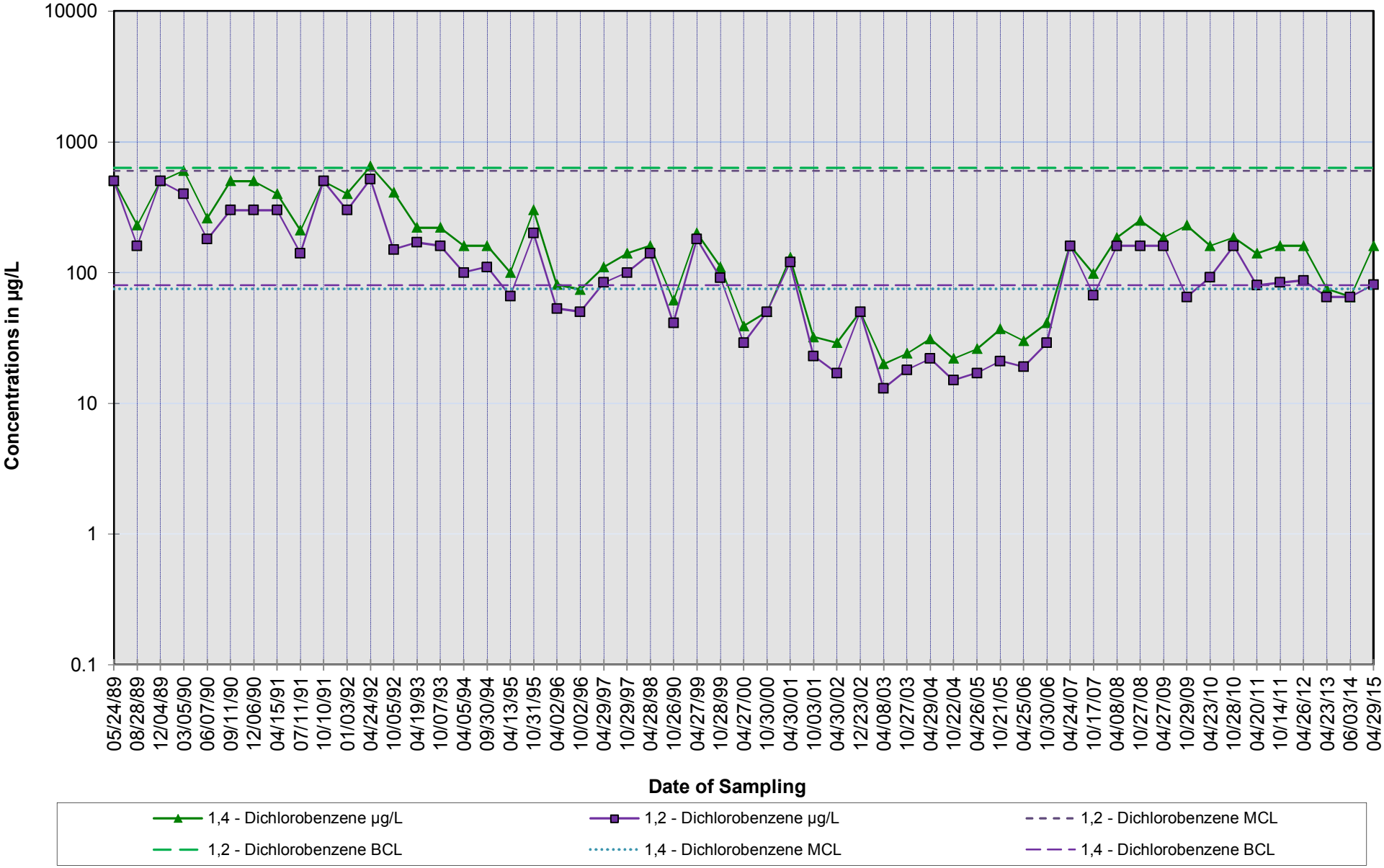


Figure 4 - Water Quality Analyses - Montrose Monitoring Well MW-3

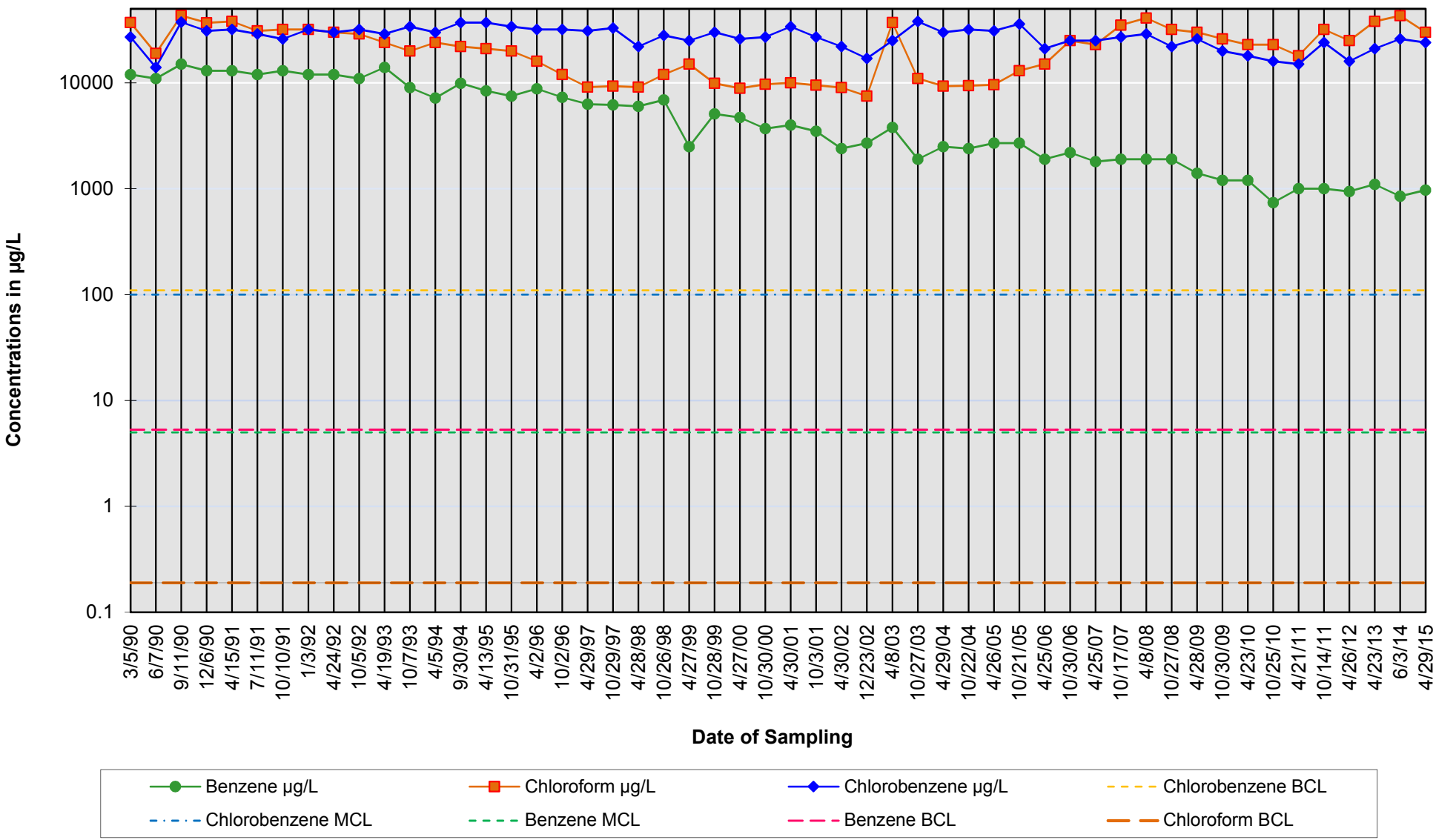


Figure 5 - Water Quality Analyses - Montrose Monitoring Well MW-3

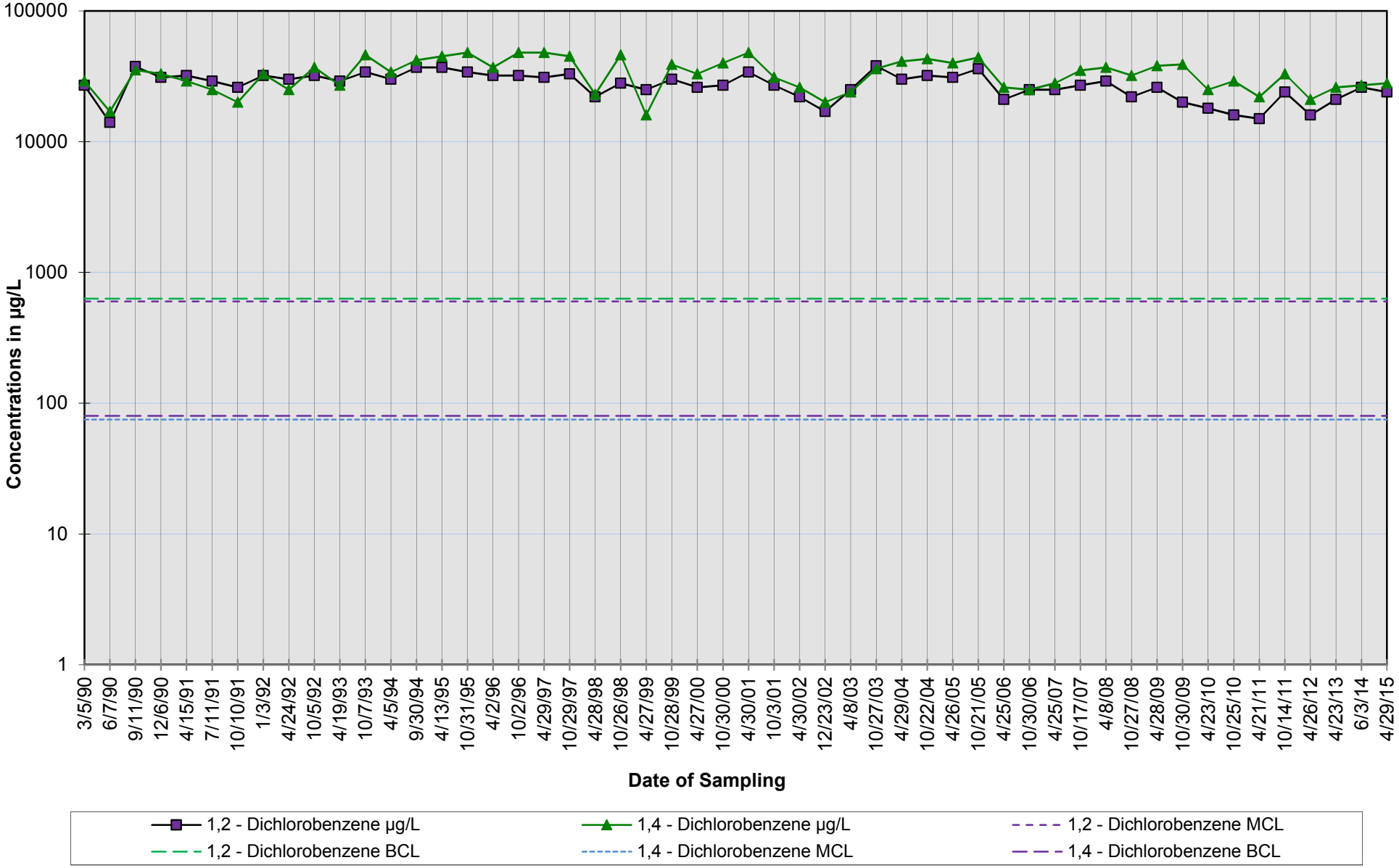


Figure 6 - Water Quality Analyses - Montrose Monitoring Well MW-4

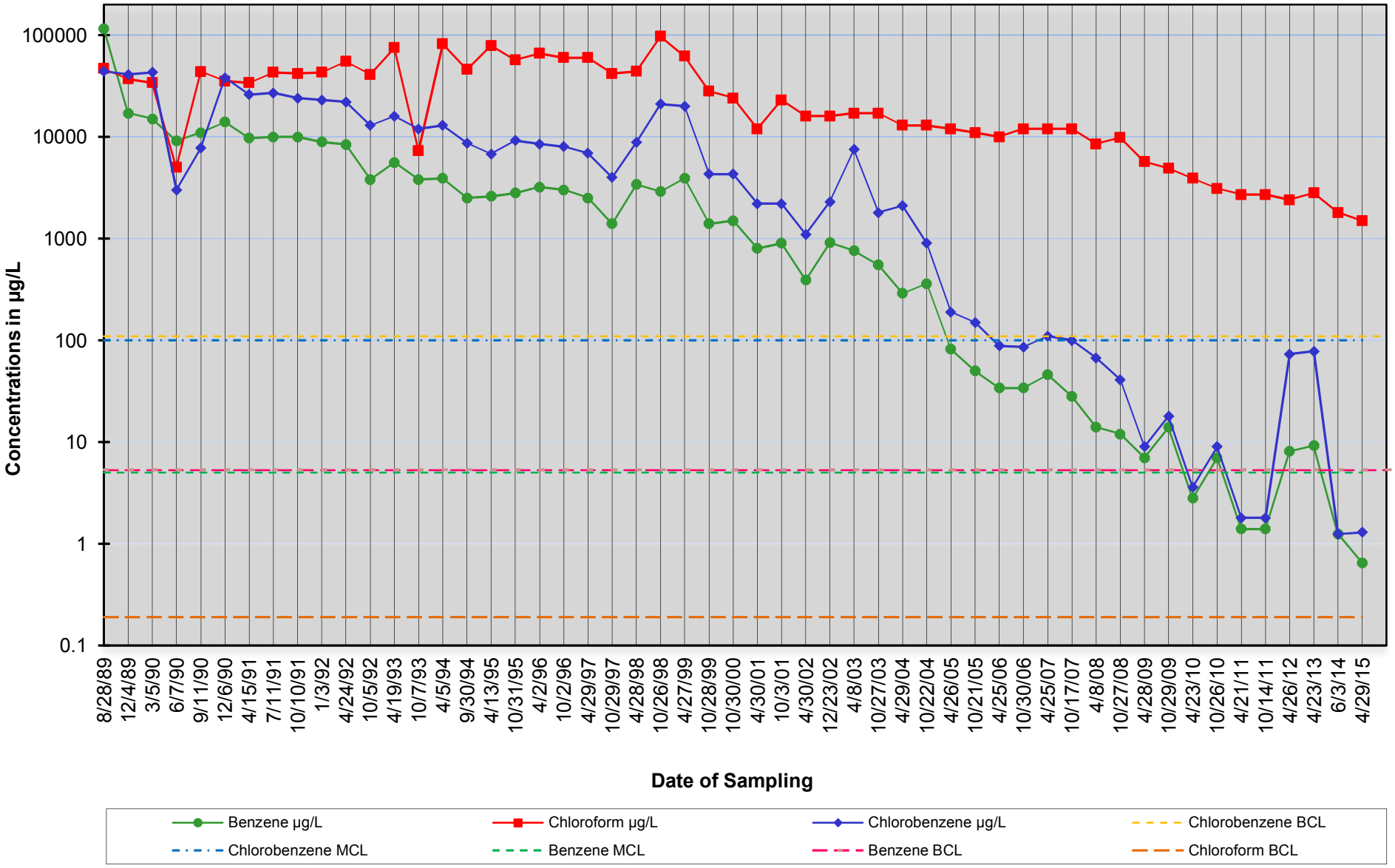


Figure 7 - Water Quality Analyses - Montrose Monitoring Well MW-4

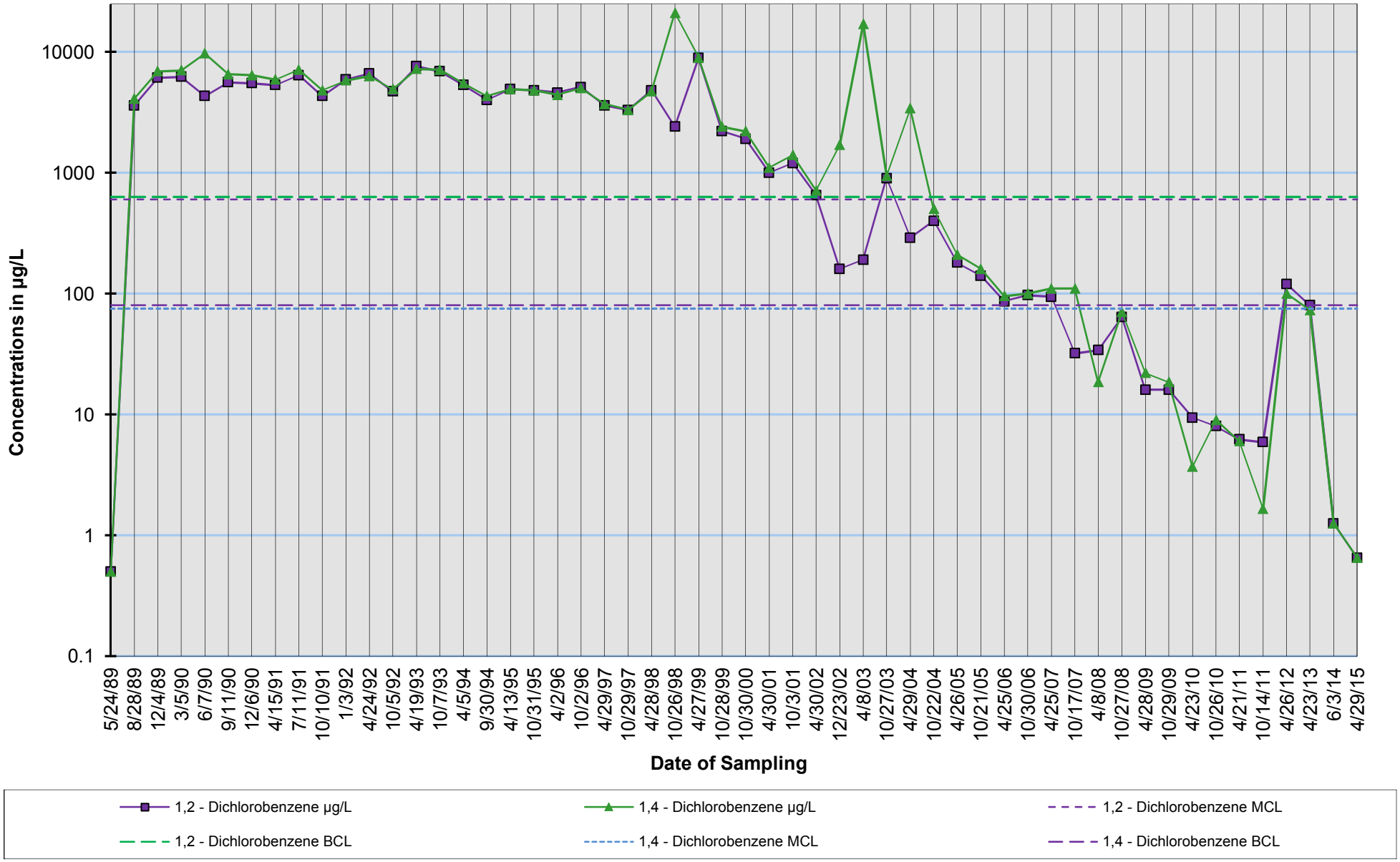
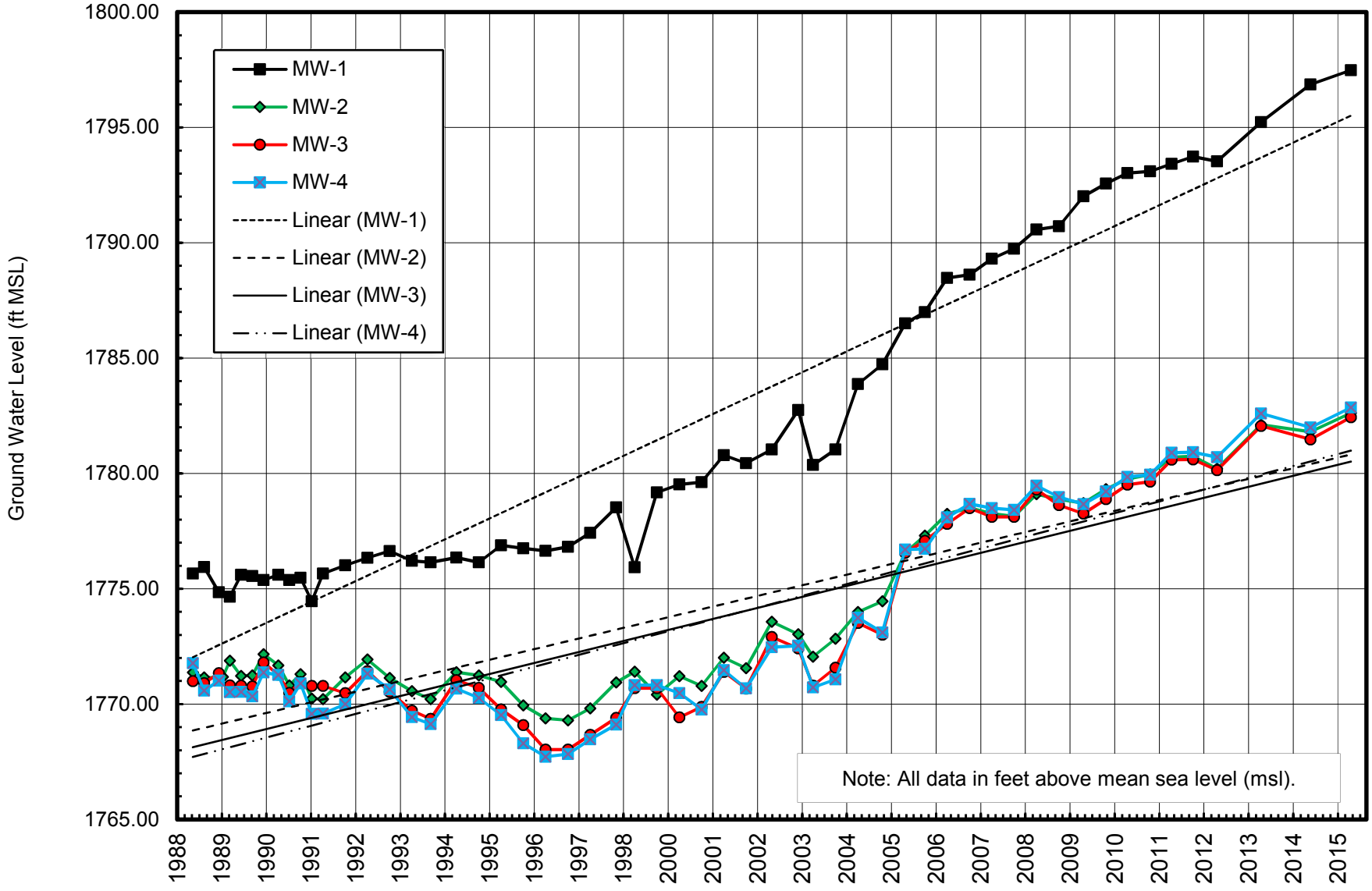


Figure 8 - Montrose Facility Groundwater Elevations Over Time



Appendix B

April 2015 Laboratory Report

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 440-108353-1
Client Project/Site: Montrose GW

For:
Converse Consultants
731 Pilot Road, Suite H
Las Vegas, Nevada 89119

Attn: Doug Bell

Authorized for release by:
5/14/2015 4:03:05 PM

Urvashi Patel, Project Manager I
(949)261-1022
urvashi.patel@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.

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Sample Summary

Client: Converse Consultants
Project/Site: Montrose GW

TestAmerica Job ID: 440-108353-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-108353-1	MW-1	Water	04/29/15 11:40	04/30/15 07:45
440-108353-2	MW-2	Water	04/29/15 10:15	04/30/15 07:45
440-108353-3	MW-3	Water	04/29/15 09:00	04/30/15 07:45
440-108353-4	MW-4	Water	04/29/15 07:55	04/30/15 07:45

Job ID: 440-108353-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-108353-1

Comments
No additional comments.

Receipt
The samples were received on 4/30/2015 7:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.5° C, 2.6° C and 3.6° C.

GC/MS VOA
No analytical or quality issues were noted, other than those described 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 (440-108353-3). 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 (440-108353-3). 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.

Method(s) 8270C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 253320. The laboratory control sample was performed in duplicate to provide precision data for the batch.

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: Surrogate recovery for the following sample was outside control limits: MW-3 (440-108353-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8081A: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 252941 recovered outside control limits for the following analytes: Aldrin.

Method(s) 8081A: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for 252941 recovered outside control limits for the following analytes: 2,4 DDE. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8081A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with 252941. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method(s) 8081A: The continuing calibration verification (CCV) associated with batch 253257 recovered above the upper control limit for 2,4 DDT. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-1 (440-108353-1) and (CCV 440-253257/16).

Method(s) 8081A: The continuing calibration verification (CCV) associated with batch 252965 recovered above the upper control limit for toxaphene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-2 (440-108353-2), MW-3 (440-108353-3), MW-4 (440-108353-4), (CCV 440-252965/32)

Method(s) 8081A: The continuing calibration verification (CCV) associated with batch 252965 recovered above the upper control limit for toxaphene, chlordane, 4,4 DDD, DDE and DDT, Aldrin, delta BHC, Endrin, gamma BHC, and Heptachlor. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCV 440-252965/32).

Job ID: 440-108353-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

Method(s) 8081A: The continuing calibration verification (CCV) associated with batch 253257 recovered above the upper control limit for Methoxychlor. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-1 (440-108353-1) and (CCV 440-253257/26).

Method(s) 8081A: The continuing calibration verification (CCV) associated with batch 253257 recovered outside acceptance criteria, low biased, for Endrin aldehyde. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. MW-1 (440-108353-1) and (CCV 440-253257/26)

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.

Client Sample Results

Client: Converse Consultants
Project/Site: Montrose GW

TestAmerica Job ID: 440-108353-1

Client Sample ID: MW-1

Date Collected: 04/29/15 11:40
Date Received: 04/30/15 07:45

Lab Sample ID: 440-108353-1

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			05/05/15 02:18	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			05/05/15 02:18	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			05/05/15 02:18	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			05/05/15 02:18	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			05/05/15 02:18	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			05/05/15 02:18	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			05/05/15 02:18	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			05/05/15 02:18	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			05/05/15 02:18	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			05/05/15 02:18	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			05/05/15 02:18	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			05/05/15 02:18	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			05/05/15 02:18	1
1,2-Dichlorobenzene	**0.73**	**J**	2.0	0.25	ug/L			05/05/15 02:18	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			05/05/15 02:18	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			05/05/15 02:18	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			05/05/15 02:18	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			05/05/15 02:18	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			05/05/15 02:18	1
1,4-Dichlorobenzene	**0.64**	**J**	2.0	0.25	ug/L			05/05/15 02:18	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			05/05/15 02:18	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			05/05/15 02:18	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			05/05/15 02:18	1
Acetone	ND		10	4.5	ug/L			05/05/15 02:18	1
Benzene	ND		2.0	0.25	ug/L			05/05/15 02:18	1
Bromobenzene	ND		5.0	0.25	ug/L			05/05/15 02:18	1
Bromochloromethane	ND		5.0	0.25	ug/L			05/05/15 02:18	1
Bromodichloromethane	ND		2.0	0.25	ug/L			05/05/15 02:18	1
Bromoform	ND		5.0	0.40	ug/L			05/05/15 02:18	1
Bromomethane	ND		5.0	0.25	ug/L			05/05/15 02:18	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			05/05/15 02:18	1
Chlorobenzene	**0.43**	**J**	2.0	0.25	ug/L			05/05/15 02:18	1
Chloroethane	ND		5.0	0.40	ug/L			05/05/15 02:18	1
Chloroform	**2.3**		2.0	0.25	ug/L			05/05/15 02:18	1
Chloromethane	ND		5.0	0.25	ug/L			05/05/15 02:18	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			05/05/15 02:18	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			05/05/15 02:18	1
Dibromochloromethane	ND		2.0	0.25	ug/L			05/05/15 02:18	1
Dibromomethane	ND		2.0	0.25	ug/L			05/05/15 02:18	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			05/05/15 02:18	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			05/05/15 02:18	1
Ethylbenzene	ND		2.0	0.25	ug/L			05/05/15 02:18	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			05/05/15 02:18	1
Isopropylbenzene	ND		2.0	0.25	ug/L			05/05/15 02:18	1
m,p-Xylene	ND		2.0	0.50	ug/L			05/05/15 02:18	1
Methylene Chloride	ND		2.0	1.1	ug/L			05/05/15 02:18	1
Naphthalene	ND		5.0	0.40	ug/L			05/05/15 02:18	1
n-Butylbenzene	ND		5.0	0.40	ug/L			05/05/15 02:18	1
N-Propylbenzene	ND		2.0	0.25	ug/L			05/05/15 02:18	1

Client Sample ID: MW-1
Date Collected: 04/29/15 11:40
Date Received: 04/30/15 07:45

Lab Sample ID: 440-108353-1
Matrix: Water

5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0	0.25	ug/L			05/05/15 02:18	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			05/05/15 02:18	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			05/05/15 02:18	1
Styrene	ND		2.0	0.25	ug/L			05/05/15 02:18	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			05/05/15 02:18	1
Tetrachloroethene	ND		2.0	0.25	ug/L			05/05/15 02:18	1
Toluene	ND		2.0	0.25	ug/L			05/05/15 02:18	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			05/05/15 02:18	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			05/05/15 02:18	1
Trichloroethene	ND		2.0	0.25	ug/L			05/05/15 02:18	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			05/05/15 02:18	1
Vinyl chloride	ND		5.0	0.25	ug/L			05/05/15 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*05/05/15 02:18*	*1*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*05/05/15 02:18*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*05/05/15 02:18*	*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		9.5	4.3	ug/L		05/06/15 14:39	05/08/15 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*40 - 120*	*05/06/15 14:39*	*05/08/15 19:45*	*1*
2-Fluorobiphenyl	*60*		*50 - 120*	*05/06/15 14:39*	*05/08/15 19:45*	*1*
2-Fluorophenol (Surr)	*58*		*30 - 120*	*05/06/15 14:39*	*05/08/15 19:45*	*1*
Nitrobenzene-d5 (Surr)	*62*		*45 - 120*	*05/06/15 14:39*	*05/08/15 19:45*	*1*
Phenol-d6 (Surr)	*62*		*35 - 120*	*05/06/15 14:39*	*05/08/15 19:45*	*1*
Terphenyl-d14 (Surr)	*77*		*10 - 150*	*05/06/15 14:39*	*05/08/15 19:45*	*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		05/05/15 10:09	05/06/15 16:24	1
2,4'-DDE	ND	*	0.095	0.019	ug/L		05/05/15 10:09	05/06/15 16:24	1
2,4'-DDT	ND		0.095	0.019	ug/L		05/05/15 10:09	05/06/15 16:24	1
4,4'-DDD	ND		0.095	0.0038	ug/L		05/05/15 10:09	05/06/15 16:24	1
4,4'-DDE	ND		0.095	0.0029	ug/L		05/05/15 10:09	05/06/15 16:24	1
4,4'-DDT	ND		0.095	0.0038	ug/L		05/05/15 10:09	05/06/15 16:24	1
Aldrin	ND	*	0.0048	0.0014	ug/L		05/05/15 10:09	05/06/15 16:24	1
alpha-BHC	ND		0.0048	0.0024	ug/L		05/05/15 10:09	05/06/15 16:24	1
beta-BHC	ND		0.0095	0.0038	ug/L		05/05/15 10:09	05/06/15 16:24	1
Chlordane	ND		0.095	0.076	ug/L		05/05/15 10:09	05/06/15 16:24	1
delta-BHC	ND		0.19	0.0033	ug/L		05/05/15 10:09	05/06/15 16:24	1
Dieldrin	ND		0.0048	0.0019	ug/L		05/05/15 10:09	05/06/15 16:24	1
Endosulfan I	ND		0.095	0.0029	ug/L		05/05/15 10:09	05/06/15 16:24	1
Endosulfan II	ND		0.095	0.0019	ug/L		05/05/15 10:09	05/06/15 16:24	1
Endosulfan sulfate	ND		0.19	0.0029	ug/L		05/05/15 10:09	05/06/15 16:24	1
Endrin	ND		0.095	0.0019	ug/L		05/05/15 10:09	05/06/15 16:24	1
Endrin aldehyde	ND		0.095	0.0019	ug/L		05/05/15 10:09	05/06/15 16:24	1
Endrin ketone	ND		0.095	0.0067	ug/L		05/05/15 10:09	05/06/15 16:24	1

Client Sample ID: MW-1

Date Collected: 04/29/15 11:40
Date Received: 04/30/15 07:45

Lab Sample ID: 440-108353-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		0.095	0.0029	ug/L		05/05/15 10:09	05/06/15 16:24	1
Heptachlor	ND		0.0095	0.0029	ug/L		05/05/15 10:09	05/06/15 16:24	1
Heptachlor epoxide	ND		0.0048	0.0024	ug/L		05/05/15 10:09	05/06/15 16:24	1
Methoxychlor	ND		0.095	0.0033	ug/L		05/05/15 10:09	05/06/15 16:24	1
Toxaphene	ND		4.8	0.24	ug/L		05/05/15 10:09	05/06/15 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*10 - 150*	*05/05/15 10:09*	*05/06/15 16:24*	*1*
Tetrachloro-m-xylene	*56*		*10 - 139*	*05/05/15 10:09*	*05/06/15 16:24*	*1*

Client Sample ID: MW-2

Date Collected: 04/29/15 10:15
Date Received: 04/30/15 07:45

Lab Sample ID: 440-108353-2
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		1000	50	ug/L			05/05/15 02:46	200
1,1,1-Trichloroethane	ND		400	50	ug/L			05/05/15 02:46	200
1,1,2,2-Tetrachloroethane	ND		400	50	ug/L			05/05/15 02:46	200
1,1,2-Trichloroethane	ND		400	50	ug/L			05/05/15 02:46	200
1,1-Dichloroethane	ND		400	50	ug/L			05/05/15 02:46	200
1,1-Dichloroethene	ND		1000	50	ug/L			05/05/15 02:46	200
1,1-Dichloropropene	ND		400	50	ug/L			05/05/15 02:46	200
1,2,3-Trichlorobenzene	ND		1000	80	ug/L			05/05/15 02:46	200
1,2,3-Trichloropropane	ND		2000	50	ug/L			05/05/15 02:46	200
1,2,4-Trichlorobenzene	ND		1000	80	ug/L			05/05/15 02:46	200
1,2,4-Trimethylbenzene	ND		400	50	ug/L			05/05/15 02:46	200
1,2-Dibromo-3-Chloropropane	ND		1000	100	ug/L			05/05/15 02:46	200
1,2-Dibromoethane (EDB)	ND		400	50	ug/L			05/05/15 02:46	200
1,2-Dichlorobenzene	**81**	**J**	400	50	ug/L			05/05/15 02:46	200
1,2-Dichloroethane	ND		400	50	ug/L			05/05/15 02:46	200
1,2-Dichloropropane	ND		400	50	ug/L			05/05/15 02:46	200
1,3,5-Trimethylbenzene	ND		400	50	ug/L			05/05/15 02:46	200
1,3-Dichlorobenzene	ND		400	50	ug/L			05/05/15 02:46	200
1,3-Dichloropropane	ND		400	50	ug/L			05/05/15 02:46	200
1,4-Dichlorobenzene	**160**	**J**	400	50	ug/L			05/05/15 02:46	200
2,2-Dichloropropane	ND		400	80	ug/L			05/05/15 02:46	200
2-Chlorotoluene	ND		1000	50	ug/L			05/05/15 02:46	200
4-Chlorotoluene	ND		1000	50	ug/L			05/05/15 02:46	200
Acetone	ND		2000	900	ug/L			05/05/15 02:46	200
Benzene	**1700**		400	50	ug/L			05/05/15 02:46	200
Bromobenzene	ND		1000	50	ug/L			05/05/15 02:46	200
Bromochloromethane	ND		1000	50	ug/L			05/05/15 02:46	200
Bromodichloromethane	ND		400	50	ug/L			05/05/15 02:46	200
Bromoform	ND		1000	80	ug/L			05/05/15 02:46	200
Bromomethane	ND		1000	50	ug/L			05/05/15 02:46	200
Carbon tetrachloride	**150**	**J**	200	50	ug/L			05/05/15 02:46	200
Chlorobenzene	**2400**		400	50	ug/L			05/05/15 02:46	200
Chloroethane	ND		1000	80	ug/L			05/05/15 02:46	200
Chloromethane	ND		1000	50	ug/L			05/05/15 02:46	200

Client Sample Results

Client: Converse Consultants
Project/Site: Montrose GW

TestAmerica Job ID: 440-108353-1

Client Sample ID: MW-2
Date Collected: 04/29/15 10:15
Date Received: 04/30/15 07:45

Lab Sample ID: 440-108353-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		400	50	ug/L			05/05/15 02:46	200
cis-1,3-Dichloropropene	ND		400	50	ug/L			05/05/15 02:46	200
Dibromochloromethane	ND		400	50	ug/L			05/05/15 02:46	200
Dibromomethane	ND		400	50	ug/L			05/05/15 02:46	200
Dichlorodifluoromethane	ND		1000	50	ug/L			05/05/15 02:46	200
Dimethyl disulfide	ND		400	200	ug/L			05/05/15 02:46	200
Ethylbenzene	ND		400	50	ug/L			05/05/15 02:46	200
Hexachlorobutadiene	ND		1000	50	ug/L			05/05/15 02:46	200
Isopropylbenzene	ND		400	50	ug/L			05/05/15 02:46	200
m,p-Xylene	ND		400	100	ug/L			05/05/15 02:46	200
Methylene Chloride	**240**	J	400	220	ug/L			05/05/15 02:46	200
Naphthalene	ND		1000	80	ug/L			05/05/15 02:46	200
n-Butylbenzene	ND		1000	80	ug/L			05/05/15 02:46	200
N-Propylbenzene	ND		400	50	ug/L			05/05/15 02:46	200
o-Xylene	ND		400	50	ug/L			05/05/15 02:46	200
p-Isopropyltoluene	ND		400	50	ug/L			05/05/15 02:46	200
sec-Butylbenzene	ND		1000	50	ug/L			05/05/15 02:46	200
Styrene	ND		400	50	ug/L			05/05/15 02:46	200
tert-Butylbenzene	ND		1000	50	ug/L			05/05/15 02:46	200
Tetrachloroethene	ND		400	50	ug/L			05/05/15 02:46	200
Toluene	ND		400	50	ug/L			05/05/15 02:46	200
trans-1,2-Dichloroethene	ND		400	50	ug/L			05/05/15 02:46	200
trans-1,3-Dichloropropene	ND		400	50	ug/L			05/05/15 02:46	200
Trichloroethene	ND		400	50	ug/L			05/05/15 02:46	200
Trichlorofluoromethane	ND		1000	50	ug/L			05/05/15 02:46	200
Vinyl chloride	ND		1000	50	ug/L			05/05/15 02:46	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*05/05/15 02:46*	*200*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*05/05/15 02:46*	*200*
Toluene-d8 (Surr)	*103*		*80 - 128*		*05/05/15 02:46*	*200*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	**110000**		2000	250	ug/L			05/05/15 11:27	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/05/15 11:27*	*1000*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*05/05/15 11:27*	*1000*
Toluene-d8 (Surr)	*101*		*80 - 128*		*05/05/15 11:27*	*1000*

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		9.7	4.3	ug/L		05/06/15 14:39	05/08/15 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*71*		*40 - 120*	*05/06/15 14:39*	*05/08/15 20:06*	*1*
2-Fluorobiphenyl	*52*		*50 - 120*	*05/06/15 14:39*	*05/08/15 20:06*	*1*
2-Fluorophenol (Surr)	*45*		*30 - 120*	*05/06/15 14:39*	*05/08/15 20:06*	*1*
Nitrobenzene-d5 (Surr)	*47*		*45 - 120*	*05/06/15 14:39*	*05/08/15 20:06*	*1*

Client Sample ID: MW-2

Lab Sample ID: 440-108353-2
Matrix: Water

Date Collected: 04/29/15 10:15
Date Received: 04/30/15 07:45

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Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d6 (Surr)	53		35 - 120	05/06/15 14:39	05/08/15 20:06	1
Terphenyl-d14 (Surr)	72		10 - 150	05/06/15 14:39	05/08/15 20:06	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		05/01/15 09:59	05/06/15 04:28	1
2,4'-DDE	ND		0.10	0.020	ug/L		05/01/15 09:59	05/06/15 04:28	1
2,4'-DDT	ND		0.10	0.020	ug/L		05/01/15 09:59	05/06/15 04:28	1
4,4'-DDD	ND		0.10	0.0040	ug/L		05/01/15 09:59	05/06/15 04:28	1
4,4'-DDE	ND		0.10	0.0030	ug/L		05/01/15 09:59	05/06/15 04:28	1
4,4'-DDT	ND		0.10	0.0040	ug/L		05/01/15 09:59	05/06/15 04:28	1
Aldrin	ND		0.0050	0.0015	ug/L		05/01/15 09:59	05/06/15 04:28	1
alpha-BHC	0.074		0.0050	0.0025	ug/L		05/01/15 09:59	05/06/15 04:28	1
beta-BHC	ND		0.010	0.0040	ug/L		05/01/15 09:59	05/06/15 04:28	1
Chlordane	ND		0.10	0.080	ug/L		05/01/15 09:59	05/06/15 04:28	1
delta-BHC	ND		0.20	0.0035	ug/L		05/01/15 09:59	05/06/15 04:28	1
Dieldrin	ND		0.0050	0.0020	ug/L		05/01/15 09:59	05/06/15 04:28	1
Endosulfan I	ND		0.10	0.0030	ug/L		05/01/15 09:59	05/06/15 04:28	1
Endosulfan II	ND		0.10	0.0020	ug/L		05/01/15 09:59	05/06/15 04:28	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		05/01/15 09:59	05/06/15 04:28	1
Endrin	ND		0.10	0.0020	ug/L		05/01/15 09:59	05/06/15 04:28	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		05/01/15 09:59	05/06/15 04:28	1
Endrin ketone	ND		0.10	0.0070	ug/L		05/01/15 09:59	05/06/15 04:28	1
gamma-BHC (Lindane)	0.019	J	0.10	0.0030	ug/L		05/01/15 09:59	05/06/15 04:28	1
Heptachlor	ND		0.010	0.0030	ug/L		05/01/15 09:59	05/06/15 04:28	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		05/01/15 09:59	05/06/15 04:28	1
Methoxychlor	ND		0.10	0.0035	ug/L		05/01/15 09:59	05/06/15 04:28	1
Toxaphene	ND		5.0	0.25	ug/L		05/01/15 09:59	05/06/15 04:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	89		10 - 150	05/01/15 09:59	05/06/15 04:28	1
Tetrachloro-m-xylene	35		10 - 139	05/01/15 09:59	05/06/15 04:28	1

Client Sample ID: MW-3

Lab Sample ID: 440-108353-3
Matrix: Water

Date Collected: 04/29/15 09:00
Date Received: 04/30/15 07:45

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			05/05/15 03:13	100
1,1,1-Trichloroethane	ND		200	25	ug/L			05/05/15 03:13	100
1,1,2,2-Tetrachloroethane	ND		200	25	ug/L			05/05/15 03:13	100
1,1,2-Trichloroethane	ND		200	25	ug/L			05/05/15 03:13	100
1,1-Dichloroethane	ND		200	25	ug/L			05/05/15 03:13	100
1,1-Dichloroethene	ND		500	25	ug/L			05/05/15 03:13	100
1,1-Dichloropropene	ND		200	25	ug/L			05/05/15 03:13	100
1,2,3-Trichlorobenzene	ND		500	40	ug/L			05/05/15 03:13	100
1,2,3-Trichloropropane	ND		1000	25	ug/L			05/05/15 03:13	100
1,2,4-Trichlorobenzene	61	J	500	40	ug/L			05/05/15 03:13	100
1,2,4-Trimethylbenzene	ND		200	25	ug/L			05/05/15 03:13	100

Client Sample ID: MW-3
Date Collected: 04/29/15 09:00
Date Received: 04/30/15 07:45

Lab Sample ID: 440-108353-3
Matrix: Water

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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		500	50	ug/L			05/05/15 03:13	100
1,2-Dibromoethane (EDB)	ND		200	25	ug/L			05/05/15 03:13	100
1,2-Dichloroethane	ND		200	25	ug/L			05/05/15 03:13	100
1,2-Dichloropropane	ND		200	25	ug/L			05/05/15 03:13	100
1,3,5-Trimethylbenzene	ND		200	25	ug/L			05/05/15 03:13	100
1,3-Dichlorobenzene	**1100**		200	25	ug/L			05/05/15 03:13	100
1,3-Dichloropropane	ND		200	25	ug/L			05/05/15 03:13	100
2,2-Dichloropropane	ND		200	40	ug/L			05/05/15 03:13	100
2-Chlorotoluene	**26**	J	500	25	ug/L			05/05/15 03:13	100
4-Chlorotoluene	ND		500	25	ug/L			05/05/15 03:13	100
Acetone	ND		1000	450	ug/L			05/05/15 03:13	100
Benzene	**970**		200	25	ug/L			05/05/15 03:13	100
Bromobenzene	ND		500	25	ug/L			05/05/15 03:13	100
Bromochloromethane	ND		500	25	ug/L			05/05/15 03:13	100
Bromodichloromethane	ND		200	25	ug/L			05/05/15 03:13	100
Bromoform	ND		500	40	ug/L			05/05/15 03:13	100
Bromomethane	ND		500	25	ug/L			05/05/15 03:13	100
Carbon tetrachloride	ND		100	25	ug/L			05/05/15 03:13	100
Chloroethane	ND		500	40	ug/L			05/05/15 03:13	100
Chloromethane	ND		500	25	ug/L			05/05/15 03:13	100
cis-1,2-Dichloroethene	ND		200	25	ug/L			05/05/15 03:13	100
cis-1,3-Dichloropropene	ND		200	25	ug/L			05/05/15 03:13	100
Dibromochloromethane	ND		200	25	ug/L			05/05/15 03:13	100
Dibromomethane	ND		200	25	ug/L			05/05/15 03:13	100
Dichlorodifluoromethane	ND		500	25	ug/L			05/05/15 03:13	100
Dimethyl disulfide	ND		200	100	ug/L			05/05/15 03:13	100
Ethylbenzene	ND		200	25	ug/L			05/05/15 03:13	100
Hexachlorobutadiene	ND		500	25	ug/L			05/05/15 03:13	100
Isopropylbenzene	ND		200	25	ug/L			05/05/15 03:13	100
m,p-Xylene	ND		200	50	ug/L			05/05/15 03:13	100
Methylene Chloride	**110**	J	200	110	ug/L			05/05/15 03:13	100
Naphthalene	ND		500	40	ug/L			05/05/15 03:13	100
n-Butylbenzene	ND		500	40	ug/L			05/05/15 03:13	100
N-Propylbenzene	ND		200	25	ug/L			05/05/15 03:13	100
o-Xylene	ND		200	25	ug/L			05/05/15 03:13	100
p-Isopropyltoluene	ND		200	25	ug/L			05/05/15 03:13	100
sec-Butylbenzene	ND		500	25	ug/L			05/05/15 03:13	100
Styrene	ND		200	25	ug/L			05/05/15 03:13	100
tert-Butylbenzene	ND		500	25	ug/L			05/05/15 03:13	100
Tetrachloroethene	ND		200	25	ug/L			05/05/15 03:13	100
Toluene	ND		200	25	ug/L			05/05/15 03:13	100
trans-1,2-Dichloroethene	ND		200	25	ug/L			05/05/15 03:13	100
trans-1,3-Dichloropropene	ND		200	25	ug/L			05/05/15 03:13	100
Trichloroethene	ND		200	25	ug/L			05/05/15 03:13	100
Trichlorofluoromethane	ND		500	25	ug/L			05/05/15 03:13	100
Vinyl chloride	ND		500	25	ug/L			05/05/15 03:13	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*05/05/15 03:13*	*100*
Dibromofluoromethane (Surr)	*97*		*76 - 132*		*05/05/15 03:13*	*100*

Client Sample ID: MW-3

Date Collected: 04/29/15 09:00
Date Received: 04/30/15 07:45

Lab Sample ID: 440-108353-3

Matrix: Water

5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 128		05/05/15 03:13	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	27000		1000	130	ug/L			05/05/15 11:55	500
1,4-Dichlorobenzene	28000		1000	130	ug/L			05/05/15 11:55	500
Chlorobenzene	24000		1000	130	ug/L			05/05/15 11:55	500
Chloroform	30000		1000	130	ug/L			05/05/15 11:55	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		05/05/15 11:55	500
Dibromofluoromethane (Surr)	101		76 - 132		05/05/15 11:55	500
Toluene-d8 (Surr)	102		80 - 128		05/05/15 11:55	500

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		95	43	ug/L		05/06/15 14:39	05/12/15 21:14	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		40 - 120	05/06/15 14:39	05/12/15 21:14	10
2-Fluorobiphenyl	60		50 - 120	05/06/15 14:39	05/12/15 21:14	10
2-Fluorophenol (Surr)	50		30 - 120	05/06/15 14:39	05/12/15 21:14	10
Nitrobenzene-d5 (Surr)	56		45 - 120	05/06/15 14:39	05/12/15 21:14	10
Phenol-d6 (Surr)	52		35 - 120	05/06/15 14:39	05/12/15 21:14	10
Terphenyl-d14 (Surr)	79		10 - 150	05/06/15 14:39	05/12/15 21:14	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		05/01/15 09:59	05/06/15 04:56	1
2,4'-DDE	ND		0.097	0.019	ug/L		05/01/15 09:59	05/06/15 04:56	1
2,4'-DDT	ND		0.097	0.019	ug/L		05/01/15 09:59	05/06/15 04:56	1
4,4'-DDD	ND		0.097	0.0039	ug/L		05/01/15 09:59	05/06/15 04:56	1
4,4'-DDE	ND		0.097	0.0029	ug/L		05/01/15 09:59	05/06/15 04:56	1
4,4'-DDT	ND		0.097	0.0039	ug/L		05/01/15 09:59	05/06/15 04:56	1
Aldrin	ND		0.0048	0.0014	ug/L		05/01/15 09:59	05/06/15 04:56	1
alpha-BHC	0.56		0.0048	0.0024	ug/L		05/01/15 09:59	05/06/15 04:56	1
beta-BHC	ND		0.0097	0.0039	ug/L		05/01/15 09:59	05/06/15 04:56	1
Chlordane	ND		0.097	0.077	ug/L		05/01/15 09:59	05/06/15 04:56	1
delta-BHC	ND		0.19	0.0034	ug/L		05/01/15 09:59	05/06/15 04:56	1
Dieldrin	ND		0.0048	0.0019	ug/L		05/01/15 09:59	05/06/15 04:56	1
Endosulfan I	ND		0.097	0.0029	ug/L		05/01/15 09:59	05/06/15 04:56	1
Endosulfan II	ND		0.097	0.0019	ug/L		05/01/15 09:59	05/06/15 04:56	1
Endosulfan sulfate	ND		0.19	0.0029	ug/L		05/01/15 09:59	05/06/15 04:56	1
Endrin	ND		0.097	0.0019	ug/L		05/01/15 09:59	05/06/15 04:56	1
Endrin aldehyde	ND		0.097	0.0019	ug/L		05/01/15 09:59	05/06/15 04:56	1
Endrin ketone	ND		0.097	0.0068	ug/L		05/01/15 09:59	05/06/15 04:56	1
gamma-BHC (Lindane)	ND		0.097	0.0029	ug/L		05/01/15 09:59	05/06/15 04:56	1
Heptachlor	ND		0.0097	0.0029	ug/L		05/01/15 09:59	05/06/15 04:56	1
Heptachlor epoxide	ND		0.0048	0.0024	ug/L		05/01/15 09:59	05/06/15 04:56	1

Client Sample ID: MW-3

Lab Sample ID: 440-108353-3
Matrix: Water

Date Collected: 04/29/15 09:00
Date Received: 04/30/15 07:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		0.097	0.0034	ug/L		05/01/15 09:59	05/06/15 04:56	1
Toxaphene	ND		4.8	0.24	ug/L		05/01/15 09:59	05/06/15 04:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*10 - 150*	*05/01/15 09:59*	*05/06/15 04:56*	*1*
Tetrachloro-m-xylene	*2314*	*X*	*10 - 139*	*05/01/15 09:59*	*05/06/15 04:56*	*1*

Client Sample ID: MW-4

Lab Sample ID: 440-108353-4
Matrix: Water

Date Collected: 04/29/15 07:55
Date Received: 04/30/15 07:45

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			05/06/15 09:45	5
1,1,1-Trichloroethane	ND		10	1.3	ug/L			05/06/15 09:45	5
1,1,2,2-Tetrachloroethane	ND		10	1.3	ug/L			05/06/15 09:45	5
1,1,2-Trichloroethane	ND		10	1.3	ug/L			05/06/15 09:45	5
1,1-Dichloroethane	ND		10	1.3	ug/L			05/06/15 09:45	5
1,1-Dichloroethene	ND		25	1.3	ug/L			05/06/15 09:45	5
1,1-Dichloropropene	ND		10	1.3	ug/L			05/06/15 09:45	5
1,2,3-Trichlorobenzene	ND		25	2.0	ug/L			05/06/15 09:45	5
1,2,3-Trichloropropane	ND		50	1.3	ug/L			05/06/15 09:45	5
1,2,4-Trichlorobenzene	ND		25	2.0	ug/L			05/06/15 09:45	5
1,2,4-Trimethylbenzene	ND		10	1.3	ug/L			05/06/15 09:45	5
1,2-Dibromo-3-Chloropropane	ND		25	2.5	ug/L			05/06/15 09:45	5
1,2-Dibromoethane (EDB)	ND		10	1.3	ug/L			05/06/15 09:45	5
1,2-Dichlorobenzene	ND		10	1.3	ug/L			05/06/15 09:45	5
1,2-Dichloroethane	ND		10	1.3	ug/L			05/06/15 09:45	5
1,2-Dichloropropane	ND		10	1.3	ug/L			05/06/15 09:45	5
1,3,5-Trimethylbenzene	ND		10	1.3	ug/L			05/06/15 09:45	5
1,3-Dichlorobenzene	ND		10	1.3	ug/L			05/06/15 09:45	5
1,3-Dichloropropane	ND		10	1.3	ug/L			05/06/15 09:45	5
1,4-Dichlorobenzene	ND		10	1.3	ug/L			05/06/15 09:45	5
2,2-Dichloropropane	ND		10	2.0	ug/L			05/06/15 09:45	5
2-Chlorotoluene	ND		25	1.3	ug/L			05/06/15 09:45	5
4-Chlorotoluene	ND		25	1.3	ug/L			05/06/15 09:45	5
Acetone	ND		50	23	ug/L			05/06/15 09:45	5
Benzene	ND		10	1.3	ug/L			05/06/15 09:45	5
Bromobenzene	ND		25	1.3	ug/L			05/06/15 09:45	5
Bromochloromethane	ND		25	1.3	ug/L			05/06/15 09:45	5
Bromodichloromethane	ND		10	1.3	ug/L			05/06/15 09:45	5
Bromoform	ND		25	2.0	ug/L			05/06/15 09:45	5
Bromomethane	ND		25	1.3	ug/L			05/06/15 09:45	5
Carbon tetrachloride	**3.0**	**J**	5.0	1.3	ug/L			05/06/15 09:45	5
Chlorobenzene	**1.3**	**J**	10	1.3	ug/L			05/06/15 09:45	5
Chloroethane	ND		25	2.0	ug/L			05/06/15 09:45	5
Chloromethane	ND		25	1.3	ug/L			05/06/15 09:45	5
cis-1,2-Dichloroethene	ND		10	1.3	ug/L			05/06/15 09:45	5
cis-1,3-Dichloropropene	ND		10	1.3	ug/L			05/06/15 09:45	5
Dibromochloromethane	ND		10	1.3	ug/L			05/06/15 09:45	5

Client Sample ID: MW-4
Date Collected: 04/29/15 07:55
Date Received: 04/30/15 07:45

Lab Sample ID: 440-108353-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		10	1.3	ug/L			05/06/15 09:45	5
Dichlorodifluoromethane	ND		25	1.3	ug/L			05/06/15 09:45	5
Dimethyl disulfide	ND		10	5.0	ug/L			05/06/15 09:45	5
Ethylbenzene	ND		10	1.3	ug/L			05/06/15 09:45	5
Hexachlorobutadiene	ND		25	1.3	ug/L			05/06/15 09:45	5
Isopropylbenzene	ND		10	1.3	ug/L			05/06/15 09:45	5
m,p-Xylene	ND		10	2.5	ug/L			05/06/15 09:45	5
Methylene Chloride	ND		10	5.5	ug/L			05/06/15 09:45	5
Naphthalene	ND		25	2.0	ug/L			05/06/15 09:45	5
n-Butylbenzene	ND		25	2.0	ug/L			05/06/15 09:45	5
N-Propylbenzene	ND		10	1.3	ug/L			05/06/15 09:45	5
o-Xylene	ND		10	1.3	ug/L			05/06/15 09:45	5
p-Isopropyltoluene	ND		10	1.3	ug/L			05/06/15 09:45	5
sec-Butylbenzene	ND		25	1.3	ug/L			05/06/15 09:45	5
Styrene	ND		10	1.3	ug/L			05/06/15 09:45	5
tert-Butylbenzene	ND		25	1.3	ug/L			05/06/15 09:45	5
Tetrachloroethene	ND		10	1.3	ug/L			05/06/15 09:45	5
Toluene	ND		10	1.3	ug/L			05/06/15 09:45	5
trans-1,2-Dichloroethene	ND		10	1.3	ug/L			05/06/15 09:45	5
trans-1,3-Dichloropropene	ND		10	1.3	ug/L			05/06/15 09:45	5
Trichloroethene	ND		10	1.3	ug/L			05/06/15 09:45	5
Trichlorofluoromethane	ND		25	1.3	ug/L			05/06/15 09:45	5
Vinyl chloride	ND		25	1.3	ug/L			05/06/15 09:45	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*05/06/15 09:45*	*5*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*05/06/15 09:45*	*5*
Toluene-d8 (Surr)	*102*		*80 - 128*		*05/06/15 09:45*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	**1500**		50	6.3	ug/L			05/06/15 10:14	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*05/06/15 10:14*	*25*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*05/06/15 10:14*	*25*
Toluene-d8 (Surr)	*103*		*80 - 128*		*05/06/15 10:14*	*25*

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		9.6	4.3	ug/L		05/06/15 14:39	05/08/15 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*40 - 120*	*05/06/15 14:39*	*05/08/15 20:27*	*1*
2-Fluorobiphenyl	*61*		*50 - 120*	*05/06/15 14:39*	*05/08/15 20:27*	*1*
2-Fluorophenol (Surr)	*56*		*30 - 120*	*05/06/15 14:39*	*05/08/15 20:27*	*1*
Nitrobenzene-d5 (Surr)	*63*		*45 - 120*	*05/06/15 14:39*	*05/08/15 20:27*	*1*
Phenol-d6 (Surr)	*63*		*35 - 120*	*05/06/15 14:39*	*05/08/15 20:27*	*1*
Terphenyl-d14 (Surr)	*77*		*10 - 150*	*05/06/15 14:39*	*05/08/15 20:27*	*1*

Client Sample Results

Client: Converse Consultants
Project/Site: Montrose GW

TestAmerica Job ID: 440-108353-1

Client Sample ID: MW-4
Date Collected: 04/29/15 07:55
Date Received: 04/30/15 07:45

Lab Sample ID: 440-108353-4
Matrix: Water

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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		05/01/15 09:59	05/06/15 10:04	1
2,4'-DDE	ND		0.098	0.020	ug/L		05/01/15 09:59	05/06/15 10:04	1
2,4'-DDT	ND		0.098	0.020	ug/L		05/01/15 09:59	05/06/15 10:04	1
4,4'-DDD	ND		0.098	0.0039	ug/L		05/01/15 09:59	05/06/15 10:04	1
4,4'-DDE	ND		0.098	0.0029	ug/L		05/01/15 09:59	05/06/15 10:04	1
4,4'-DDT	ND		0.098	0.0039	ug/L		05/01/15 09:59	05/06/15 10:04	1
Aldrin	ND		0.0049	0.0015	ug/L		05/01/15 09:59	05/06/15 10:04	1
alpha-BHC	ND		0.0049	0.0024	ug/L		05/01/15 09:59	05/06/15 10:04	1
beta-BHC	ND		0.0098	0.0039	ug/L		05/01/15 09:59	05/06/15 10:04	1
Chlordane	ND		0.098	0.078	ug/L		05/01/15 09:59	05/06/15 10:04	1
delta-BHC	ND		0.20	0.0034	ug/L		05/01/15 09:59	05/06/15 10:04	1
Dieldrin	ND		0.0049	0.0020	ug/L		05/01/15 09:59	05/06/15 10:04	1
Endosulfan I	ND		0.098	0.0029	ug/L		05/01/15 09:59	05/06/15 10:04	1
Endosulfan II	ND		0.098	0.0020	ug/L		05/01/15 09:59	05/06/15 10:04	1
Endosulfan sulfate	ND		0.20	0.0029	ug/L		05/01/15 09:59	05/06/15 10:04	1
Endrin	ND		0.098	0.0020	ug/L		05/01/15 09:59	05/06/15 10:04	1
Endrin aldehyde	ND		0.098	0.0020	ug/L		05/01/15 09:59	05/06/15 10:04	1
Endrin ketone	ND		0.098	0.0068	ug/L		05/01/15 09:59	05/06/15 10:04	1
gamma-BHC (Lindane)	ND		0.098	0.0029	ug/L		05/01/15 09:59	05/06/15 10:04	1
Heptachlor	ND		0.0098	0.0029	ug/L		05/01/15 09:59	05/06/15 10:04	1
Heptachlor epoxide	ND		0.0049	0.0024	ug/L		05/01/15 09:59	05/06/15 10:04	1
Methoxychlor	ND		0.098	0.0034	ug/L		05/01/15 09:59	05/06/15 10:04	1
Toxaphene	ND		4.9	0.24	ug/L		05/01/15 09:59	05/06/15 10:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*10 - 150*	*05/01/15 09:59*	*05/06/15 10:04*	*1*
Tetrachloro-m-xylene	*50*		*10 - 139*	*05/01/15 09:59*	*05/06/15 10:04*	*1*

Method Summary

Client: Converse Consultants
Project/Site: Montrose GW

TestAmerica Job ID: 440-108353-1

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

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Converse Consultants
Project/Site: Montrose GW

TestAmerica Job ID: 440-108353-1

Client Sample ID: MW-1

Date Collected: 04/29/15 11:40
Date Received: 04/30/15 07:45

Lab Sample ID: 440-108353-1
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	252794	05/05/15 02:18	MP	TAL IRV
Total/NA	Prep	3520C			1055 mL	2 mL	253320	05/06/15 14:39	IVA	TAL IRV
Total/NA	Analysis	8270C		1	1055 mL	2 mL	253894	05/08/15 19:45	VS	TAL IRV
Total/NA	Prep	3510C			1050 mL	2 mL	252941	05/05/15 10:09	MMT	TAL IRV
Total/NA	Analysis	8081A		1	1050 mL	2 mL	253257	05/06/15 16:24	KS	TAL IRV

Client Sample ID: MW-2

Date Collected: 04/29/15 10:15
Date Received: 04/30/15 07:45

Lab Sample ID: 440-108353-2
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		200	10 mL	10 mL	252794	05/05/15 02:46	MP	TAL IRV
Total/NA	Analysis	8260B	DL	1000	10 mL	10 mL	252856	05/05/15 11:27	MM1	TAL IRV
Total/NA	Prep	3520C			1035 mL	2 mL	253320	05/06/15 14:39	IVA	TAL IRV
Total/NA	Analysis	8270C		1	1035 mL	2 mL	253894	05/08/15 20:06	VS	TAL IRV
Total/NA	Prep	3510C			995 mL	2 mL	252388	05/01/15 09:59	MMT	TAL IRV
Total/NA	Analysis	8081A		1	995 mL	2 mL	252965	05/06/15 04:28	KS	TAL IRV

Client Sample ID: MW-3

Date Collected: 04/29/15 09:00
Date Received: 04/30/15 07:45

Lab Sample ID: 440-108353-3
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		100	10 mL	10 mL	252794	05/05/15 03:13	MP	TAL IRV
Total/NA	Analysis	8260B	DL	500	10 mL	10 mL	252856	05/05/15 11:55	MM1	TAL IRV
Total/NA	Prep	3520C			1050 mL	2 mL	253320	05/06/15 14:39	IVA	TAL IRV
Total/NA	Analysis	8270C		10	1050 mL	2 mL	254486	05/12/15 21:14	VS	TAL IRV
Total/NA	Prep	3510C			1035 mL	2 mL	252388	05/01/15 09:59	MMT	TAL IRV
Total/NA	Analysis	8081A		1	1035 mL	2 mL	252965	05/06/15 04:56	KS	TAL IRV

Client Sample ID: MW-4

Date Collected: 04/29/15 07:55
Date Received: 04/30/15 07:45

Lab Sample ID: 440-108353-4
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		5	10 mL	10 mL	253157	05/06/15 09:45	RM	TAL IRV
Total/NA	Analysis	8260B	DL	25	10 mL	10 mL	253157	05/06/15 10:14	RM	TAL IRV
Total/NA	Prep	3520C			1045 mL	2 mL	253320	05/06/15 14:39	IVA	TAL IRV
Total/NA	Analysis	8270C		1	1045 mL	2 mL	253894	05/08/15 20:27	VS	TAL IRV
Total/NA	Prep	3510C			1025 mL	2 mL	252388	05/01/15 09:59	MMT	TAL IRV
Total/NA	Analysis	8081A		1	1025 mL	2 mL	252965	05/06/15 10:04	KS	TAL IRV

Lab Chronicle

Client: Converse Consultants
Project/Site: Montrose GW

TestAmerica Job ID: 440-108353-1

Laboratory References:

TAL IRV = 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 440-252794/4
Matrix: Water
Analysis Batch: 252794

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			05/04/15 19:28	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			05/04/15 19:28	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			05/04/15 19:28	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			05/04/15 19:28	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			05/04/15 19:28	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			05/04/15 19:28	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			05/04/15 19:28	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			05/04/15 19:28	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			05/04/15 19:28	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			05/04/15 19:28	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			05/04/15 19:28	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			05/04/15 19:28	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			05/04/15 19:28	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			05/04/15 19:28	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			05/04/15 19:28	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			05/04/15 19:28	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			05/04/15 19:28	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			05/04/15 19:28	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			05/04/15 19:28	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			05/04/15 19:28	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			05/04/15 19:28	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			05/04/15 19:28	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			05/04/15 19:28	1
Acetone	ND		10	4.5	ug/L			05/04/15 19:28	1
Benzene	ND		2.0	0.25	ug/L			05/04/15 19:28	1
Bromobenzene	ND		5.0	0.25	ug/L			05/04/15 19:28	1
Bromochloromethane	ND		5.0	0.25	ug/L			05/04/15 19:28	1
Bromodichloromethane	ND		2.0	0.25	ug/L			05/04/15 19:28	1
Bromoform	ND		5.0	0.40	ug/L			05/04/15 19:28	1
Bromomethane	ND		5.0	0.25	ug/L			05/04/15 19:28	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			05/04/15 19:28	1
Chlorobenzene	ND		2.0	0.25	ug/L			05/04/15 19:28	1
Chloroethane	ND		5.0	0.40	ug/L			05/04/15 19:28	1
Chloroform	ND		2.0	0.25	ug/L			05/04/15 19:28	1
Chloromethane	ND		5.0	0.25	ug/L			05/04/15 19:28	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			05/04/15 19:28	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			05/04/15 19:28	1
Dibromochloromethane	ND		2.0	0.25	ug/L			05/04/15 19:28	1
Dibromomethane	ND		2.0	0.25	ug/L			05/04/15 19:28	1
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			05/04/15 19:28	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			05/04/15 19:28	1
Ethylbenzene	ND		2.0	0.25	ug/L			05/04/15 19:28	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			05/04/15 19:28	1
Isopropylbenzene	ND		2.0	0.25	ug/L			05/04/15 19:28	1
m,p-Xylene	ND		2.0	0.50	ug/L			05/04/15 19:28	1
Methylene Chloride	ND		2.0	1.1	ug/L			05/04/15 19:28	1
Naphthalene	ND		5.0	0.40	ug/L			05/04/15 19:28	1
n-Butylbenzene	ND		5.0	0.40	ug/L			05/04/15 19:28	1

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

Lab Sample ID: MB 440-252794/4
Matrix: Water
Analysis Batch: 252794

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		2.0	0.25	ug/L			05/04/15 19:28	1
o-Xylene	ND		2.0	0.25	ug/L			05/04/15 19:28	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			05/04/15 19:28	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			05/04/15 19:28	1
Styrene	ND		2.0	0.25	ug/L			05/04/15 19:28	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			05/04/15 19:28	1
Tetrachloroethene	ND		2.0	0.25	ug/L			05/04/15 19:28	1
Toluene	ND		2.0	0.25	ug/L			05/04/15 19:28	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			05/04/15 19:28	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			05/04/15 19:28	1
Trichloroethene	ND		2.0	0.25	ug/L			05/04/15 19:28	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			05/04/15 19:28	1
Vinyl chloride	ND		5.0	0.25	ug/L			05/04/15 19:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*05/04/15 19:28*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*05/04/15 19:28*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*05/04/15 19:28*	*1*

Lab Sample ID: LCS 440-252794/5
Matrix: Water
Analysis Batch: 252794

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	25.0	25.7		ug/L		103	60 - 141
1,1,1-Trichloroethane	25.0	26.5		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	25.0	27.3		ug/L		109	63 - 130
1,1,2-Trichloroethane	25.0	25.2		ug/L		101	70 - 130
1,1-Dichloroethane	25.0	26.1		ug/L		104	64 - 130
1,1-Dichloroethene	25.0	28.5		ug/L		114	70 - 130
1,1-Dichloropropene	25.0	28.2		ug/L		113	70 - 130
1,2,3-Trichlorobenzene	25.0	28.3		ug/L		113	60 - 140
1,2,3-Trichloropropane	25.0	26.5		ug/L		106	63 - 130
1,2,4-Trichlorobenzene	25.0	27.3		ug/L		109	60 - 140
1,2,4-Trimethylbenzene	25.0	26.0		ug/L		104	70 - 135
1,2-Dibromo-3-Chloropropane	25.0	27.7		ug/L		111	52 - 140
1,2-Dibromoethane (EDB)	25.0	26.7		ug/L		107	70 - 130
1,2-Dichlorobenzene	25.0	25.9		ug/L		104	70 - 130
1,2-Dichloroethane	25.0	26.4		ug/L		106	57 - 138
1,2-Dichloropropane	25.0	26.2		ug/L		105	67 - 130
1,3,5-Trimethylbenzene	25.0	26.7		ug/L		107	70 - 136
1,3-Dichlorobenzene	25.0	25.9		ug/L		104	70 - 130
1,3-Dichloropropane	25.0	25.9		ug/L		104	70 - 130
1,4-Dichlorobenzene	25.0	25.8		ug/L		103	70 - 130
2,2-Dichloropropane	25.0	24.5		ug/L		98	68 - 141
2-Chlorotoluene	25.0	25.8		ug/L		103	70 - 130
4-Chlorotoluene	25.0	25.8		ug/L		103	70 - 130
Acetone	25.0	31.9		ug/L		127	10 - 150

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

Lab Sample ID: LCS 440-252794/5
Matrix: Water
Analysis Batch: 252794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	25.9		ug/L		104	68 - 130
Bromobenzene	25.0	26.7		ug/L		107	70 - 130
Bromochloromethane	25.0	26.5		ug/L		106	70 - 130
Bromodichloromethane	25.0	24.3		ug/L		97	70 - 132
Bromoform	25.0	22.8		ug/L		91	60 - 148
Bromomethane	25.0	25.1		ug/L		101	64 - 139
Carbon tetrachloride	25.0	27.4		ug/L		110	60 - 150
Chlorobenzene	25.0	24.8		ug/L		99	70 - 130
Chloroethane	25.0	25.9		ug/L		104	64 - 135
Chloroform	25.0	26.1		ug/L		104	70 - 130
Chloromethane	25.0	27.8		ug/L		111	47 - 140
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	70 - 133
cis-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 133
Dibromochloromethane	25.0	24.0		ug/L		96	69 - 145
Dibromomethane	25.0	26.3		ug/L		105	70 - 130
Dichlorodifluoromethane	25.0	25.8		ug/L		103	29 - 150
Ethylbenzene	25.0	24.9		ug/L		100	70 - 130
Hexachlorobutadiene	25.0	28.0		ug/L		112	10 - 150
Isopropylbenzene	25.0	24.8		ug/L		99	70 - 136
m,p-Xylene	25.0	25.4		ug/L		102	70 - 130
Methylene Chloride	25.0	26.4		ug/L		106	52 - 130
Naphthalene	25.0	29.1		ug/L		116	60 - 140
n-Butylbenzene	25.0	27.0		ug/L		108	65 - 150
N-Propylbenzene	25.0	26.6		ug/L		106	67 - 139
o-Xylene	25.0	25.6		ug/L		103	70 - 130
p-Isopropyltoluene	25.0	26.7		ug/L		107	70 - 132
sec-Butylbenzene	25.0	26.7		ug/L		107	70 - 138
Styrene	25.0	25.3		ug/L		101	70 - 134
tert-Butylbenzene	25.0	26.7		ug/L		107	70 - 130
Tetrachloroethene	25.0	27.0		ug/L		108	70 - 130
Toluene	25.0	25.1		ug/L		100	70 - 130
trans-1,2-Dichloroethene	25.0	27.1		ug/L		109	70 - 130
trans-1,3-Dichloropropene	25.0	26.1		ug/L		104	70 - 132
Trichloroethene	25.0	27.9		ug/L		112	70 - 130
Trichlorofluoromethane	25.0	26.9		ug/L		107	60 - 150
Vinyl chloride	25.0	25.3		ug/L		101	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*76 - 132*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 440-108437-A-4 MS
Matrix: Water
Analysis Batch: 252794

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		25.0	28.3		ug/L		113	60 - 149

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

Lab Sample ID: 440-108437-A-4 MS
Matrix: Water
Analysis Batch: 252794

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		25.0	28.0		ug/L		112	70 - 130
1,1,2,2-Tetrachloroethane	ND		25.0	26.8		ug/L		107	63 - 130
1,1,2-Trichloroethane	ND		25.0	27.4		ug/L		110	70 - 130
1,1-Dichloroethane	ND		25.0	28.4		ug/L		113	65 - 130
1,1-Dichloroethene	1.0	J	25.0	30.7		ug/L		119	70 - 130
1,1-Dichloropropene	ND		25.0	29.7		ug/L		119	64 - 130
1,2,3-Trichlorobenzene	ND		25.0	29.4		ug/L		117	60 - 140
1,2,3-Trichloropropane	ND		25.0	25.9		ug/L		104	60 - 130
1,2,4-Trichlorobenzene	ND		25.0	28.9		ug/L		116	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	25.9		ug/L		104	70 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	27.4		ug/L		109	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	28.8		ug/L		115	70 - 131
1,2-Dichlorobenzene	ND		25.0	27.0		ug/L		108	70 - 130
1,2-Dichloroethane	ND		25.0	29.1		ug/L		116	56 - 146
1,2-Dichloropropane	ND		25.0	28.0		ug/L		112	69 - 130
1,3,5-Trimethylbenzene	ND		25.0	26.6		ug/L		106	70 - 130
1,3-Dichlorobenzene	ND		25.0	27.1		ug/L		108	70 - 130
1,3-Dichloropropane	ND		25.0	27.9		ug/L		111	70 - 130
1,4-Dichlorobenzene	ND		25.0	26.8		ug/L		107	70 - 130
2,2-Dichloropropane	ND		25.0	28.2		ug/L		113	69 - 138
2-Chlorotoluene	ND		25.0	25.7		ug/L		103	70 - 130
4-Chlorotoluene	ND		25.0	26.1		ug/L		104	70 - 130
Acetone	ND		25.0	30.1		ug/L		120	10 - 150
Benzene	ND		25.0	28.0		ug/L		112	66 - 130
Bromobenzene	ND		25.0	27.2		ug/L		109	70 - 130
Bromochloromethane	ND		25.0	29.3		ug/L		117	70 - 130
Bromodichloromethane	ND		25.0	26.5		ug/L		106	70 - 138
Bromoform	ND		25.0	25.4		ug/L		101	59 - 150
Bromomethane	ND		25.0	27.7		ug/L		111	62 - 131
Carbon tetrachloride	0.56	J	25.0	30.2		ug/L		118	60 - 150
Chlorobenzene	ND		25.0	26.5		ug/L		106	70 - 130
Chloroethane	ND		25.0	27.8		ug/L		111	68 - 130
Chloroform	46		25.0	73.4		ug/L		111	70 - 130
Chloromethane	ND		25.0	29.8		ug/L		119	39 - 144
cis-1,2-Dichloroethene	ND		25.0	26.9		ug/L		108	70 - 130
cis-1,3-Dichloropropene	ND		25.0	28.4		ug/L		113	70 - 133
Dibromochloromethane	ND		25.0	26.4		ug/L		106	70 - 148
Dibromomethane	ND		25.0	28.3		ug/L		113	70 - 130
Dichlorodifluoromethane	ND		25.0	27.1		ug/L		109	25 - 142
Ethylbenzene	ND		25.0	26.5		ug/L		106	70 - 130
Hexachlorobutadiene	ND		25.0	28.3		ug/L		113	10 - 150
Isopropylbenzene	ND		25.0	27.1		ug/L		108	70 - 132
m,p-Xylene	ND		25.0	27.4		ug/L		110	70 - 133
Methylene Chloride	ND		25.0	29.6		ug/L		119	52 - 130
Naphthalene	ND		25.0	29.3		ug/L		117	60 - 140
n-Butylbenzene	ND		25.0	26.8		ug/L		107	61 - 149
N-Propylbenzene	ND		25.0	26.1		ug/L		104	66 - 135
o-Xylene	ND		25.0	27.6		ug/L		110	70 - 133

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

Lab Sample ID: 440-108437-A-4 MS
Matrix: Water
Analysis Batch: 252794

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
p-Isopropyltoluene	ND		25.0	27.0		ug/L		108	70 - 130
sec-Butylbenzene	ND		25.0	27.0		ug/L		108	67 - 134
Styrene	ND		25.0	26.8		ug/L		107	29 - 150
tert-Butylbenzene	ND		25.0	26.7		ug/L		107	70 - 130
Tetrachloroethene	ND		25.0	28.3		ug/L		113	70 - 137
Toluene	ND		25.0	26.8		ug/L		107	70 - 130
trans-1,2-Dichloroethene	ND		25.0	29.1		ug/L		116	70 - 130
trans-1,3-Dichloropropene	ND		25.0	29.1		ug/L		116	70 - 138
Trichloroethene	2.1		25.0	31.7		ug/L		119	70 - 130
Trichlorofluoromethane	ND		25.0	28.4		ug/L		113	60 - 150
Vinyl chloride	ND		25.0	27.0		ug/L		108	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*76 - 132*
Toluene-d8 (Surr)	*99*		*80 - 128*

Lab Sample ID: 440-108437-A-4 MSD
Matrix: Water
Analysis Batch: 252794

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		25.0	28.6		ug/L		114	60 - 149	1	20
1,1,1-Trichloroethane	ND		25.0	27.4		ug/L		109	70 - 130	2	20
1,1,2,2-Tetrachloroethane	ND		25.0	26.1		ug/L		105	63 - 130	3	30
1,1,2-Trichloroethane	ND		25.0	27.6		ug/L		110	70 - 130	1	25
1,1-Dichloroethane	ND		25.0	27.9		ug/L		112	65 - 130	2	20
1,1-Dichloroethene	1.0	J	25.0	30.1		ug/L		117	70 - 130	2	20
1,1-Dichloropropene	ND		25.0	29.4		ug/L		117	64 - 130	1	20
1,2,3-Trichlorobenzene	ND		25.0	29.1		ug/L		116	60 - 140	1	20
1,2,3-Trichloropropane	ND		25.0	26.2		ug/L		105	60 - 130	1	30
1,2,4-Trichlorobenzene	ND		25.0	28.8		ug/L		115	60 - 140	0	20
1,2,4-Trimethylbenzene	ND		25.0	26.1		ug/L		104	70 - 130	1	25
1,2-Dibromo-3-Chloropropane	ND		25.0	26.3		ug/L		105	48 - 140	4	30
1,2-Dibromoethane (EDB)	ND		25.0	28.7		ug/L		115	70 - 131	0	25
1,2-Dichlorobenzene	ND		25.0	26.5		ug/L		106	70 - 130	2	20
1,2-Dichloroethane	ND		25.0	28.9		ug/L		115	56 - 146	1	20
1,2-Dichloropropane	ND		25.0	28.1		ug/L		112	69 - 130	0	20
1,3,5-Trimethylbenzene	ND		25.0	26.3		ug/L		105	70 - 130	1	20
1,3-Dichlorobenzene	ND		25.0	26.5		ug/L		106	70 - 130	2	20
1,3-Dichloropropane	ND		25.0	28.0		ug/L		112	70 - 130	1	25
1,4-Dichlorobenzene	ND		25.0	26.7		ug/L		107	70 - 130	1	20
2,2-Dichloropropane	ND		25.0	24.8		ug/L		99	69 - 138	13	25
2-Chlorotoluene	ND		25.0	25.7		ug/L		103	70 - 130	0	20
4-Chlorotoluene	ND		25.0	26.0		ug/L		104	70 - 130	0	20
Acetone	ND		25.0	30.0		ug/L		120	10 - 150	0	35
Benzene	ND		25.0	27.2		ug/L		109	66 - 130	3	20
Bromobenzene	ND		25.0	26.9		ug/L		108	70 - 130	1	20

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

Lab Sample ID: 440-108437-A-4 MSD
Matrix: Water
Analysis Batch: 252794

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
Bromochloromethane	ND		25.0	28.8		ug/L		115	70 - 130	1	25
Bromodichloromethane	ND		25.0	26.6		ug/L		106	70 - 138	0	20
Bromoform	ND		25.0	25.5		ug/L		102	59 - 150	1	25
Bromomethane	ND		25.0	26.4		ug/L		106	62 - 131	5	25
Carbon tetrachloride	0.56	J	25.0	29.4		ug/L		115	60 - 150	3	25
Chlorobenzene	ND		25.0	26.9		ug/L		107	70 - 130	1	20
Chloroethane	ND		25.0	27.0		ug/L		108	68 - 130	3	25
Chloroform	46		25.0	71.2		ug/L		102	70 - 130	3	20
Chloromethane	ND		25.0	28.9		ug/L		116	39 - 144	3	25
cis-1,2-Dichloroethene	ND		25.0	26.4		ug/L		106	70 - 130	2	20
cis-1,3-Dichloropropene	ND		25.0	28.7		ug/L		115	70 - 133	1	20
Dibromochloromethane	ND		25.0	26.5		ug/L		106	70 - 148	0	25
Dibromomethane	ND		25.0	27.8		ug/L		111	70 - 130	2	25
Dichlorodifluoromethane	ND		25.0	26.6		ug/L		106	25 - 142	2	30
Ethylbenzene	ND		25.0	26.7		ug/L		107	70 - 130	1	20
Hexachlorobutadiene	ND		25.0	28.3		ug/L		113	10 - 150	0	20
Isopropylbenzene	ND		25.0	26.8		ug/L		107	70 - 132	1	20
m,p-Xylene	ND		25.0	26.7		ug/L		107	70 - 133	3	25
Methylene Chloride	ND		25.0	28.6		ug/L		115	52 - 130	3	20
Naphthalene	ND		25.0	28.9		ug/L		116	60 - 140	1	30
n-Butylbenzene	ND		25.0	26.6		ug/L		106	61 - 149	1	20
N-Propylbenzene	ND		25.0	26.0		ug/L		104	66 - 135	1	20
o-Xylene	ND		25.0	27.5		ug/L		110	70 - 133	0	20
p-Isopropyltoluene	ND		25.0	26.9		ug/L		108	70 - 130	0	20
sec-Butylbenzene	ND		25.0	26.4		ug/L		106	67 - 134	2	20
Styrene	ND		25.0	26.6		ug/L		107	29 - 150	1	35
tert-Butylbenzene	ND		25.0	26.6		ug/L		106	70 - 130	0	20
Tetrachloroethene	ND		25.0	28.1		ug/L		112	70 - 137	1	20
Toluene	ND		25.0	26.7		ug/L		107	70 - 130	0	20
trans-1,2-Dichloroethene	ND		25.0	27.9		ug/L		112	70 - 130	4	20
trans-1,3-Dichloropropene	ND		25.0	28.9		ug/L		116	70 - 138	1	25
Trichloroethene	2.1		25.0	30.9		ug/L		115	70 - 130	3	20
Trichlorofluoromethane	ND		25.0	27.5		ug/L		110	60 - 150	3	25
Vinyl chloride	ND		25.0	25.9		ug/L		104	50 - 137	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*76 - 132*
Toluene-d8 (Surr)	*101*		*80 - 128*

Lab Sample ID: MB 440-252856/4
Matrix: Water
Analysis Batch: 252856

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			05/05/15 08:02	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			05/05/15 08:02	1
Chlorobenzene	ND		2.0	0.25	ug/L			05/05/15 08:02	1

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

Lab Sample ID: MB 440-252856/4
Matrix: Water
Analysis Batch: 252856

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			05/05/15 08:02	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			05/05/15 08:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*05/05/15 08:02*	*1*
Dibromofluoromethane (Surr)	*94*		*76 - 132*		*05/05/15 08:02*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*05/05/15 08:02*	*1*

Lab Sample ID: LCS 440-252856/5
Matrix: Water
Analysis Batch: 252856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	25.0	24.6		ug/L		98	70 - 130
1,4-Dichlorobenzene	25.0	24.4		ug/L		98	70 - 130
Chlorobenzene	25.0	24.9		ug/L		100	70 - 130
Chloroform	25.0	25.2		ug/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: 440-108175-B-2 MS
Matrix: Water
Analysis Batch: 252856

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-Dichlorobenzene	ND		25.0	25.3		ug/L		101	70 - 130
1,4-Dichlorobenzene	ND		25.0	25.7		ug/L		103	70 - 130
Chlorobenzene	ND		25.0	24.2		ug/L		97	70 - 130
Chloroform	2.6		25.0	28.4		ug/L		103	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*76 - 132*
Toluene-d8 (Surr)	*97*		*80 - 128*

Lab Sample ID: 440-108175-B-2 MSD
Matrix: Water
Analysis Batch: 252856

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
1,2-Dichlorobenzene	ND		25.0	26.1		ug/L		104	70 - 130	3	20
1,4-Dichlorobenzene	ND		25.0	26.6		ug/L		106	70 - 130	3	20
Chlorobenzene	ND		25.0	25.7		ug/L		103	70 - 130	6	20
Chloroform	2.6		25.0	29.3		ug/L		107	70 - 130	3	20

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

Lab Sample ID: 440-108175-B-2 MSD
Matrix: Water
Analysis Batch: 252856

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	95		76 - 132
Toluene-d8 (Surr)	100		80 - 128

Lab Sample ID: MB 440-253157/4
Matrix: Water
Analysis Batch: 253157

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			05/06/15 08:15	1
1,1,1-Trichloroethane	ND		2.0	0.25	ug/L			05/06/15 08:15	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.25	ug/L			05/06/15 08:15	1
1,1,2-Trichloroethane	ND		2.0	0.25	ug/L			05/06/15 08:15	1
1,1-Dichloroethane	ND		2.0	0.25	ug/L			05/06/15 08:15	1
1,1-Dichloroethene	ND		5.0	0.25	ug/L			05/06/15 08:15	1
1,1-Dichloropropene	ND		2.0	0.25	ug/L			05/06/15 08:15	1
1,2,3-Trichlorobenzene	ND		5.0	0.40	ug/L			05/06/15 08:15	1
1,2,3-Trichloropropane	ND		10	0.25	ug/L			05/06/15 08:15	1
1,2,4-Trichlorobenzene	ND		5.0	0.40	ug/L			05/06/15 08:15	1
1,2,4-Trimethylbenzene	ND		2.0	0.25	ug/L			05/06/15 08:15	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.50	ug/L			05/06/15 08:15	1
1,2-Dibromoethane (EDB)	ND		2.0	0.25	ug/L			05/06/15 08:15	1
1,2-Dichlorobenzene	ND		2.0	0.25	ug/L			05/06/15 08:15	1
1,2-Dichloroethane	ND		2.0	0.25	ug/L			05/06/15 08:15	1
1,2-Dichloropropane	ND		2.0	0.25	ug/L			05/06/15 08:15	1
1,3,5-Trimethylbenzene	ND		2.0	0.25	ug/L			05/06/15 08:15	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L			05/06/15 08:15	1
1,3-Dichloropropane	ND		2.0	0.25	ug/L			05/06/15 08:15	1
1,4-Dichlorobenzene	ND		2.0	0.25	ug/L			05/06/15 08:15	1
2,2-Dichloropropane	ND		2.0	0.40	ug/L			05/06/15 08:15	1
2-Chlorotoluene	ND		5.0	0.25	ug/L			05/06/15 08:15	1
4-Chlorotoluene	ND		5.0	0.25	ug/L			05/06/15 08:15	1
Acetone	ND		10	4.5	ug/L			05/06/15 08:15	1
Benzene	ND		2.0	0.25	ug/L			05/06/15 08:15	1
Bromobenzene	ND		5.0	0.25	ug/L			05/06/15 08:15	1
Bromochloromethane	ND		5.0	0.25	ug/L			05/06/15 08:15	1
Bromodichloromethane	ND		2.0	0.25	ug/L			05/06/15 08:15	1
Bromoform	ND		5.0	0.40	ug/L			05/06/15 08:15	1
Bromomethane	ND		5.0	0.25	ug/L			05/06/15 08:15	1
Carbon tetrachloride	ND		1.0	0.25	ug/L			05/06/15 08:15	1
Chlorobenzene	ND		2.0	0.25	ug/L			05/06/15 08:15	1
Chloroethane	ND		5.0	0.40	ug/L			05/06/15 08:15	1
Chloroform	ND		2.0	0.25	ug/L			05/06/15 08:15	1
Chloromethane	ND		5.0	0.25	ug/L			05/06/15 08:15	1
cis-1,2-Dichloroethene	ND		2.0	0.25	ug/L			05/06/15 08:15	1
cis-1,3-Dichloropropene	ND		2.0	0.25	ug/L			05/06/15 08:15	1
Dibromochloromethane	ND		2.0	0.25	ug/L			05/06/15 08:15	1
Dibromomethane	ND		2.0	0.25	ug/L			05/06/15 08:15	1

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

Lab Sample ID: MB 440-253157/4
Matrix: Water
Analysis Batch: 253157

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		5.0	0.25	ug/L			05/06/15 08:15	1
Dimethyl disulfide	ND		2.0	1.0	ug/L			05/06/15 08:15	1
Ethylbenzene	ND		2.0	0.25	ug/L			05/06/15 08:15	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L			05/06/15 08:15	1
Isopropylbenzene	ND		2.0	0.25	ug/L			05/06/15 08:15	1
m,p-Xylene	ND		2.0	0.50	ug/L			05/06/15 08:15	1
Methylene Chloride	ND		2.0	1.1	ug/L			05/06/15 08:15	1
Naphthalene	ND		5.0	0.40	ug/L			05/06/15 08:15	1
n-Butylbenzene	ND		5.0	0.40	ug/L			05/06/15 08:15	1
N-Propylbenzene	ND		2.0	0.25	ug/L			05/06/15 08:15	1
o-Xylene	ND		2.0	0.25	ug/L			05/06/15 08:15	1
p-Isopropyltoluene	ND		2.0	0.25	ug/L			05/06/15 08:15	1
sec-Butylbenzene	ND		5.0	0.25	ug/L			05/06/15 08:15	1
Styrene	ND		2.0	0.25	ug/L			05/06/15 08:15	1
tert-Butylbenzene	ND		5.0	0.25	ug/L			05/06/15 08:15	1
Tetrachloroethene	ND		2.0	0.25	ug/L			05/06/15 08:15	1
Toluene	ND		2.0	0.25	ug/L			05/06/15 08:15	1
trans-1,2-Dichloroethene	ND		2.0	0.25	ug/L			05/06/15 08:15	1
trans-1,3-Dichloropropene	ND		2.0	0.25	ug/L			05/06/15 08:15	1
Trichloroethene	ND		2.0	0.25	ug/L			05/06/15 08:15	1
Trichlorofluoromethane	ND		5.0	0.25	ug/L			05/06/15 08:15	1
Vinyl chloride	ND		5.0	0.25	ug/L			05/06/15 08:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*05/06/15 08:15*	*1*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*05/06/15 08:15*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*05/06/15 08:15*	*1*

Lab Sample ID: LCS 440-253157/5
Matrix: Water
Analysis Batch: 253157

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	25.0	25.6		ug/L		102	60 - 141
1,1,1-Trichloroethane	25.0	26.1		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	25.0	22.7		ug/L		91	63 - 130
1,1,2-Trichloroethane	25.0	23.5		ug/L		94	70 - 130
1,1-Dichloroethane	25.0	25.1		ug/L		100	64 - 130
1,1-Dichloroethene	25.0	26.0		ug/L		104	70 - 130
1,1-Dichloropropene	25.0	26.1		ug/L		104	70 - 130
1,2,3-Trichlorobenzene	25.0	25.9		ug/L		104	60 - 140
1,2,3-Trichloropropane	25.0	23.2		ug/L		93	63 - 130
1,2,4-Trichlorobenzene	25.0	26.2		ug/L		105	60 - 140
1,2,4-Trimethylbenzene	25.0	25.5		ug/L		102	70 - 135
1,2-Dibromo-3-Chloropropane	25.0	22.5		ug/L		90	52 - 140
1,2-Dibromoethane (EDB)	25.0	24.3		ug/L		97	70 - 130
1,2-Dichlorobenzene	25.0	24.9		ug/L		100	70 - 130
1,2-Dichloroethane	25.0	28.8		ug/L		115	57 - 138

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

Lab Sample ID: LCS 440-253157/5
Matrix: Water
Analysis Batch: 253157

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	25.9		ug/L		104	67 - 130
1,3,5-Trimethylbenzene	25.0	25.3		ug/L		101	70 - 136
1,3-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130
1,3-Dichloropropane	25.0	24.3		ug/L		97	70 - 130
1,4-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130
2,2-Dichloropropane	25.0	26.1		ug/L		104	68 - 141
2-Chlorotoluene	25.0	24.6		ug/L		99	70 - 130
4-Chlorotoluene	25.0	25.3		ug/L		101	70 - 130
Acetone	25.0	23.3		ug/L		93	10 - 150
Benzene	25.0	24.8		ug/L		99	68 - 130
Bromobenzene	25.0	24.7		ug/L		99	70 - 130
Bromochloromethane	25.0	26.6		ug/L		106	70 - 130
Bromodichloromethane	25.0	27.6		ug/L		110	70 - 132
Bromoform	25.0	24.1		ug/L		96	60 - 148
Bromomethane	25.0	26.1		ug/L		104	64 - 139
Carbon tetrachloride	25.0	27.5		ug/L		110	60 - 150
Chlorobenzene	25.0	23.9		ug/L		96	70 - 130
Chloroethane	25.0	24.0		ug/L		96	64 - 135
Chloroform	25.0	26.9		ug/L		108	70 - 130
Chloromethane	25.0	25.2		ug/L		101	47 - 140
cis-1,2-Dichloroethene	25.0	26.6		ug/L		106	70 - 133
cis-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 133
Dibromochloromethane	25.0	25.6		ug/L		103	69 - 145
Dibromomethane	25.0	26.3		ug/L		105	70 - 130
Dichlorodifluoromethane	25.0	25.0		ug/L		100	29 - 150
Ethylbenzene	25.0	23.7		ug/L		95	70 - 130
Hexachlorobutadiene	25.0	24.8		ug/L		99	10 - 150
Isopropylbenzene	25.0	24.3		ug/L		97	70 - 136
m,p-Xylene	25.0	24.8		ug/L		99	70 - 130
Methylene Chloride	25.0	26.4		ug/L		106	52 - 130
Naphthalene	25.0	24.3		ug/L		97	60 - 140
n-Butylbenzene	25.0	24.7		ug/L		99	65 - 150
N-Propylbenzene	25.0	23.5		ug/L		94	67 - 139
o-Xylene	25.0	24.6		ug/L		98	70 - 130
p-Isopropyltoluene	25.0	24.5		ug/L		98	70 - 132
sec-Butylbenzene	25.0	23.5		ug/L		94	70 - 138
Styrene	25.0	25.7		ug/L		103	70 - 134
tert-Butylbenzene	25.0	24.1		ug/L		96	70 - 130
Tetrachloroethene	25.0	23.6		ug/L		94	70 - 130
Toluene	25.0	24.3		ug/L		97	70 - 130
trans-1,2-Dichloroethene	25.0	26.1		ug/L		104	70 - 130
trans-1,3-Dichloropropene	25.0	26.7		ug/L		107	70 - 132
Trichloroethene	25.0	26.0		ug/L		104	70 - 130
Trichlorofluoromethane	25.0	25.3		ug/L		101	60 - 150
Vinyl chloride	25.0	24.7		ug/L		99	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

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

Lab Sample ID: LCS 440-253157/5
Matrix: Water
Analysis Batch: 253157

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	107		76 - 132
Toluene-d8 (Surr)	97		80 - 128

Lab Sample ID: 440-108353-4 MS
Matrix: Water
Analysis Batch: 253157

Client Sample ID: MW-4
Prep Type: Total/NA

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Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		625	725		ug/L		116	60 - 149
1,1,1-Trichloroethane	ND		625	696		ug/L		111	70 - 130
1,1,2,2-Tetrachloroethane	ND		625	573		ug/L		92	63 - 130
1,1,2-Trichloroethane	ND		625	643		ug/L		103	70 - 130
1,1-Dichloroethane	ND		625	672		ug/L		108	65 - 130
1,1-Dichloroethene	ND		625	662		ug/L		106	70 - 130
1,1-Dichloropropene	ND		625	690		ug/L		110	64 - 130
1,2,3-Trichlorobenzene	ND		625	683		ug/L		109	60 - 140
1,2,3-Trichloropropane	ND		625	606		ug/L		97	60 - 130
1,2,4-Trichlorobenzene	ND		625	698		ug/L		112	60 - 140
1,2,4-Trimethylbenzene	ND		625	670		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	ND		625	564		ug/L		90	48 - 140
1,2-Dibromoethane (EDB)	ND		625	661		ug/L		106	70 - 131
1,2-Dichlorobenzene	ND		625	663		ug/L		106	70 - 130
1,2-Dichloroethane	ND		625	787		ug/L		126	56 - 146
1,2-Dichloropropane	ND		625	701		ug/L		112	69 - 130
1,3,5-Trimethylbenzene	ND		625	663		ug/L		106	70 - 130
1,3-Dichlorobenzene	ND		625	667		ug/L		107	70 - 130
1,3-Dichloropropane	ND		625	675		ug/L		108	70 - 130
1,4-Dichlorobenzene	ND		625	665		ug/L		106	70 - 130
2,2-Dichloropropane	ND		625	707		ug/L		113	69 - 138
2-Chlorotoluene	ND		625	638		ug/L		102	70 - 130
4-Chlorotoluene	ND		625	662		ug/L		106	70 - 130
Acetone	ND		625	537		ug/L		86	10 - 150
Benzene	ND		625	677		ug/L		108	66 - 130
Bromobenzene	ND		625	655		ug/L		105	70 - 130
Bromochloromethane	ND		625	713		ug/L		114	70 - 130
Bromodichloromethane	ND		625	739		ug/L		118	70 - 138
Bromoform	ND		625	665		ug/L		106	59 - 150
Bromomethane	ND		625	668		ug/L		107	62 - 131
Carbon tetrachloride	ND		625	748		ug/L		120	60 - 150
Chlorobenzene	ND		625	683		ug/L		109	70 - 130
Chloroethane	ND		625	613		ug/L		98	68 - 130
Chloroform	1500		625	2240		ug/L		118	70 - 130
Chloromethane	ND		625	672		ug/L		108	39 - 144
cis-1,2-Dichloroethene	ND		625	708		ug/L		113	70 - 130
cis-1,3-Dichloropropene	ND		625	734		ug/L		117	70 - 133
Dibromochloromethane	ND		625	725		ug/L		116	70 - 148
Dibromomethane	ND		625	730		ug/L		117	70 - 130
Dichlorodifluoromethane	ND		625	674		ug/L		108	25 - 142

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

Lab Sample ID: 440-108353-4 MS
Matrix: Water
Analysis Batch: 253157

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	ND		625	669		ug/L		107	70 - 130
Hexachlorobutadiene	ND		625	645		ug/L		103	10 - 150
Isopropylbenzene	ND		625	679		ug/L		109	70 - 132
m,p-Xylene	ND		625	687		ug/L		110	70 - 133
Methylene Chloride	ND		625	683		ug/L		109	52 - 130
Naphthalene	ND		625	630		ug/L		101	60 - 140
n-Butylbenzene	ND		625	640		ug/L		102	61 - 149
N-Propylbenzene	ND		625	613		ug/L		98	66 - 135
o-Xylene	ND		625	686		ug/L		110	70 - 133
p-Isopropyltoluene	ND		625	643		ug/L		103	70 - 130
sec-Butylbenzene	ND		625	611		ug/L		98	67 - 134
Styrene	ND		625	718		ug/L		115	29 - 150
tert-Butylbenzene	ND		625	634		ug/L		101	70 - 130
Tetrachloroethene	ND		625	647		ug/L		104	70 - 137
Toluene	ND		625	673		ug/L		108	70 - 130
trans-1,2-Dichloroethene	ND		625	698		ug/L		112	70 - 130
trans-1,3-Dichloropropene	ND		625	758		ug/L		121	70 - 138
Trichloroethene	ND		625	696		ug/L		111	70 - 130
Trichlorofluoromethane	ND		625	638		ug/L		102	60 - 150
Vinyl chloride	ND		625	650		ug/L		104	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*76 - 132*
Toluene-d8 (Surr)	*98*		*80 - 128*

Lab Sample ID: 440-108353-4 MSD
Matrix: Water
Analysis Batch: 253157

Client Sample ID: MW-4
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		625	684		ug/L		109	60 - 149	6	20
1,1,1-Trichloroethane	ND		625	677		ug/L		108	70 - 130	3	20
1,1,2,2-Tetrachloroethane	ND		625	564		ug/L		90	63 - 130	2	30
1,1,2-Trichloroethane	ND		625	601		ug/L		96	70 - 130	7	25
1,1-Dichloroethane	ND		625	663		ug/L		106	65 - 130	1	20
1,1-Dichloroethene	ND		625	655		ug/L		105	70 - 130	1	20
1,1-Dichloropropene	ND		625	673		ug/L		108	64 - 130	3	20
1,2,3-Trichlorobenzene	ND		625	696		ug/L		111	60 - 140	2	20
1,2,3-Trichloropropane	ND		625	562		ug/L		90	60 - 130	8	30
1,2,4-Trichlorobenzene	ND		625	688		ug/L		110	60 - 140	2	20
1,2,4-Trimethylbenzene	ND		625	658		ug/L		105	70 - 130	2	25
1,2-Dibromo-3-Chloropropane	ND		625	555		ug/L		89	48 - 140	2	30
1,2-Dibromoethane (EDB)	ND		625	610		ug/L		98	70 - 131	8	25
1,2-Dichlorobenzene	ND		625	655		ug/L		105	70 - 130	1	20
1,2-Dichloroethane	ND		625	760		ug/L		122	56 - 146	4	20
1,2-Dichloropropane	ND		625	689		ug/L		110	69 - 130	2	20
1,3,5-Trimethylbenzene	ND		625	652		ug/L		104	70 - 130	2	20

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

Lab Sample ID: 440-108353-4 MSD
Matrix: Water
Analysis Batch: 253157

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichlorobenzene	ND		625	656		ug/L		105	70 - 130	2	20
1,3-Dichloropropane	ND		625	610		ug/L		98	70 - 130	10	25
1,4-Dichlorobenzene	ND		625	651		ug/L		104	70 - 130	2	20
2,2-Dichloropropane	ND		625	692		ug/L		111	69 - 138	2	25
2-Chlorotoluene	ND		625	627		ug/L		100	70 - 130	2	20
4-Chlorotoluene	ND		625	653		ug/L		105	70 - 130	1	20
Acetone	ND		625	490		ug/L		78	10 - 150	9	35
Benzene	ND		625	656		ug/L		105	66 - 130	3	20
Bromobenzene	ND		625	649		ug/L		104	70 - 130	1	20
Bromochloromethane	ND		625	697		ug/L		112	70 - 130	2	25
Bromodichloromethane	ND		625	713		ug/L		114	70 - 138	4	20
Bromoform	ND		625	626		ug/L		100	59 - 150	6	25
Bromomethane	ND		625	698		ug/L		112	62 - 131	4	25
Carbon tetrachloride	ND		625	709		ug/L		114	60 - 150	5	25
Chlorobenzene	ND		625	633		ug/L		101	70 - 130	8	20
Chloroethane	ND		625	642		ug/L		103	68 - 130	5	25
Chloroform	1500		625	2190		ug/L		111	70 - 130	2	20
Chloromethane	ND		625	715		ug/L		114	39 - 144	6	25
cis-1,2-Dichloroethene	ND		625	699		ug/L		112	70 - 130	1	20
cis-1,3-Dichloropropene	ND		625	685		ug/L		110	70 - 133	7	20
Dibromochloromethane	ND		625	674		ug/L		108	70 - 148	7	25
Dibromomethane	ND		625	686		ug/L		110	70 - 130	6	25
Dichlorodifluoromethane	ND		625	690		ug/L		110	25 - 142	2	30
Ethylbenzene	ND		625	618		ug/L		99	70 - 130	8	20
Hexachlorobutadiene	ND		625	646		ug/L		103	10 - 150	0	20
Isopropylbenzene	ND		625	630		ug/L		101	70 - 132	7	20
m,p-Xylene	ND		625	649		ug/L		104	70 - 133	6	25
Methylene Chloride	ND		625	699		ug/L		112	52 - 130	2	20
Naphthalene	ND		625	624		ug/L		100	60 - 140	1	30
n-Butylbenzene	ND		625	634		ug/L		101	61 - 149	1	20
N-Propylbenzene	ND		625	602		ug/L		96	66 - 135	2	20
o-Xylene	ND		625	646		ug/L		103	70 - 133	6	20
p-Isopropyltoluene	ND		625	634		ug/L		101	70 - 130	1	20
sec-Butylbenzene	ND		625	605		ug/L		97	67 - 134	1	20
Styrene	ND		625	671		ug/L		107	29 - 150	7	35
tert-Butylbenzene	ND		625	620		ug/L		99	70 - 130	2	20
Tetrachloroethene	ND		625	589		ug/L		94	70 - 137	9	20
Toluene	ND		625	633		ug/L		101	70 - 130	6	20
trans-1,2-Dichloroethene	ND		625	687		ug/L		110	70 - 130	2	20
trans-1,3-Dichloropropene	ND		625	698		ug/L		112	70 - 138	8	25
Trichloroethene	ND		625	687		ug/L		110	70 - 130	1	20
Trichlorofluoromethane	ND		625	649		ug/L		104	60 - 150	2	25
Vinyl chloride	ND		625	667		ug/L		107	50 - 137	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*76 - 132*
Toluene-d8 (Surr)	*95*		*80 - 128*

QC Sample Results

Client: Converse Consultants
Project/Site: Montrose GW

TestAmerica Job ID: 440-108353-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-253320/1-A
Matrix: Water
Analysis Batch: 254486

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 253320

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		05/06/15 14:39	05/12/15 15:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		40 - 120	05/06/15 14:39	05/12/15 15:59	1
2-Fluorobiphenyl	69		50 - 120	05/06/15 14:39	05/12/15 15:59	1
2-Fluorophenol (Surr)	60		30 - 120	05/06/15 14:39	05/12/15 15:59	1
Nitrobenzene-d5 (Surr)	68		45 - 120	05/06/15 14:39	05/12/15 15:59	1
Phenol-d6 (Surr)	62		35 - 120	05/06/15 14:39	05/12/15 15:59	1
Terphenyl-d14 (Surr)	81		10 - 150	05/06/15 14:39	05/12/15 15:59	1

Lab Sample ID: LCS 440-253320/23-A
Matrix: Water
Analysis Batch: 254486

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253320

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2'-Dichlorobenzil & 4,4'-Dichlorobenzil	100	81.9		ug/L		82	43 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	92		40 - 120
2-Fluorobiphenyl	74		50 - 120
2-Fluorophenol (Surr)	60		30 - 120
Nitrobenzene-d5 (Surr)	69		45 - 120
Phenol-d6 (Surr)	63		35 - 120
Terphenyl-d14 (Surr)	79		10 - 150

Lab Sample ID: LCSD 440-253320/24-A
Matrix: Water
Analysis Batch: 254486

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 253320

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,2'-Dichlorobenzil & 4,4'-Dichlorobenzil	100	74.3		ug/L		74	43 - 121	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	89		40 - 120
2-Fluorobiphenyl	73		50 - 120
2-Fluorophenol (Surr)	56		30 - 120
Nitrobenzene-d5 (Surr)	71		45 - 120
Phenol-d6 (Surr)	63		35 - 120
Terphenyl-d14 (Surr)	71		10 - 150

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-252388/1-A
Matrix: Water
Analysis Batch: 252965

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 252388

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		05/01/15 09:59	05/06/15 00:19	1
2,4'-DDE	ND		0.10	0.020	ug/L		05/01/15 09:59	05/06/15 00:19	1
2,4'-DDT	ND		0.10	0.020	ug/L		05/01/15 09:59	05/06/15 00:19	1
4,4'-DDD	ND		0.10	0.0040	ug/L		05/01/15 09:59	05/06/15 00:19	1
4,4'-DDE	ND		0.10	0.0030	ug/L		05/01/15 09:59	05/06/15 00:19	1
4,4'-DDT	ND		0.10	0.0040	ug/L		05/01/15 09:59	05/06/15 00:19	1
Aldrin	ND		0.0050	0.0015	ug/L		05/01/15 09:59	05/06/15 00:19	1
alpha-BHC	ND		0.0050	0.0025	ug/L		05/01/15 09:59	05/06/15 00:19	1
beta-BHC	ND		0.010	0.0040	ug/L		05/01/15 09:59	05/06/15 00:19	1
Chlordane	ND		0.10	0.080	ug/L		05/01/15 09:59	05/06/15 00:19	1
delta-BHC	ND		0.20	0.0035	ug/L		05/01/15 09:59	05/06/15 00:19	1
Dieldrin	ND		0.0050	0.0020	ug/L		05/01/15 09:59	05/06/15 00:19	1
Endosulfan I	ND		0.10	0.0030	ug/L		05/01/15 09:59	05/06/15 00:19	1
Endosulfan II	ND		0.10	0.0020	ug/L		05/01/15 09:59	05/06/15 00:19	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		05/01/15 09:59	05/06/15 00:19	1
Endrin	ND		0.10	0.0020	ug/L		05/01/15 09:59	05/06/15 00:19	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		05/01/15 09:59	05/06/15 00:19	1
Endrin ketone	ND		0.10	0.0070	ug/L		05/01/15 09:59	05/06/15 00:19	1
gamma-BHC (Lindane)	ND		0.10	0.0030	ug/L		05/01/15 09:59	05/06/15 00:19	1
Heptachlor	ND		0.010	0.0030	ug/L		05/01/15 09:59	05/06/15 00:19	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		05/01/15 09:59	05/06/15 00:19	1
Methoxychlor	ND		0.10	0.0035	ug/L		05/01/15 09:59	05/06/15 00:19	1
Toxaphene	ND		5.0	0.25	ug/L		05/01/15 09:59	05/06/15 00:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*10 - 150*	*05/01/15 09:59*	*05/06/15 00:19*	*1*
Tetrachloro-m-xylene	*51*		*10 - 139*	*05/01/15 09:59*	*05/06/15 00:19*	*1*

Lab Sample ID: LCS 440-252388/2-A
Matrix: Water
Analysis Batch: 252965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252388

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4'-DDD	0.250	0.234		ug/L		94	55 - 120
2,4'-DDE	0.250	0.212		ug/L		85	50 - 120
2,4'-DDT	0.250	0.251		ug/L		100	55 - 120
4,4'-DDD	0.250	0.232		ug/L		93	37 - 142
4,4'-DDE	0.250	0.217		ug/L		87	33 - 139
4,4'-DDT	0.250	0.236		ug/L		95	36 - 145
Aldrin	0.250	0.181		ug/L		73	18 - 122
alpha-BHC	0.250	0.196		ug/L		78	32 - 128
beta-BHC	0.250	0.202		ug/L		81	29 - 123
delta-BHC	0.250	0.206		ug/L		82	33 - 135
Dieldrin	0.250	0.219		ug/L		88	32 - 139
Endosulfan I	0.250	0.219		ug/L		87	32 - 132
Endosulfan II	0.250	0.211		ug/L		84	35 - 130
Endosulfan sulfate	0.250	0.221		ug/L		88	34 - 141
Endrin	0.250	0.215		ug/L		86	33 - 135

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

Lab Sample ID: LCS 440-252388/2-A
Matrix: Water
Analysis Batch: 252965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252388

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin aldehyde	0.250	0.217		ug/L		87	27 - 144
Endrin ketone	0.250	0.222		ug/L		89	30 - 135
gamma-BHC (Lindane)	0.250	0.201		ug/L		80	32 - 129
Heptachlor	0.250	0.211		ug/L		84	30 - 133
Heptachlor epoxide	0.250	0.206		ug/L		83	25 - 142
Methoxychlor	0.250	0.240		ug/L		96	32 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*82*		*10 - 150*
Tetrachloro-m-xylene	*54*		*10 - 139*

Lab Sample ID: 440-108437-E-4-A MS
Matrix: Water
Analysis Batch: 252965

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 252388

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4'-DDD	ND		0.239	0.235		ug/L		98	50 - 125
2,4'-DDE	ND		0.239	0.217		ug/L		91	45 - 125
2,4'-DDT	ND		0.239	0.238		ug/L		100	50 - 125
4,4'-DDD	ND		0.239	0.230		ug/L		96	50 - 125
4,4'-DDE	ND		0.239	0.216		ug/L		90	45 - 125
4,4'-DDT	ND		0.239	0.238		ug/L		99	50 - 125
Aldrin	ND		0.239	0.186		ug/L		78	35 - 120
alpha-BHC	0.0036	J	0.239	0.200		ug/L		82	40 - 120
beta-BHC	ND		0.239	0.211		ug/L		88	50 - 120
delta-BHC	ND		0.239	0.200		ug/L		84	50 - 120
Dieldrin	ND		0.239	0.216		ug/L		90	50 - 120
Endosulfan I	ND		0.239	0.215		ug/L		90	50 - 120
Endosulfan II	ND		0.239	0.211		ug/L		88	50 - 125
Endosulfan sulfate	ND		0.239	0.220		ug/L		92	55 - 125
Endrin	ND		0.239	0.219		ug/L		92	50 - 120
Endrin aldehyde	ND		0.239	0.208		ug/L		87	45 - 125
Endrin ketone	ND		0.239	0.216		ug/L		90	50 - 125
gamma-BHC (Lindane)	ND		0.239	0.203		ug/L		85	40 - 120
Heptachlor	ND		0.239	0.209		ug/L		87	40 - 120
Heptachlor epoxide	ND		0.239	0.208		ug/L		87	50 - 120
Methoxychlor	ND		0.239	0.229		ug/L		96	55 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*85*		*10 - 150*
Tetrachloro-m-xylene	*57*		*10 - 139*

Lab Sample ID: 440-108437-E-4-B MSD
Matrix: Water
Analysis Batch: 252965

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 252388

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4'-DDD	ND		0.244	0.218		ug/L		89	50 - 125	4	30

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

Lab Sample ID: 440-108437-E-4-B MSD
Matrix: Water
Analysis Batch: 252965

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 252388

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4'-DDE	ND		0.244	0.201		ug/L		82	45 - 125	5	30
2,4'-DDT	ND		0.244	0.235		ug/L		96	50 - 125	1	30
4,4'-DDD	ND		0.244	0.222		ug/L		91	50 - 125	4	30
4,4'-DDE	ND		0.244	0.209		ug/L		86	45 - 125	3	30
4,4'-DDT	ND		0.244	0.224		ug/L		92	50 - 125	6	30
Aldrin	ND		0.244	0.171		ug/L		70	35 - 120	8	30
alpha-BHC	0.0036	J	0.244	0.187		ug/L		75	40 - 120	7	30
beta-BHC	ND		0.244	0.193		ug/L		79	50 - 120	8	30
delta-BHC	ND		0.244	0.190	J	ug/L		78	50 - 120	5	30
Dieldrin	ND		0.244	0.203		ug/L		83	50 - 120	6	30
Endosulfan I	ND		0.244	0.206		ug/L		85	50 - 120	3	30
Endosulfan II	ND		0.244	0.196		ug/L		80	50 - 125	6	30
Endosulfan sulfate	ND		0.244	0.203		ug/L		83	55 - 125	8	30
Endrin	ND		0.244	0.212		ug/L		87	50 - 120	3	30
Endrin aldehyde	ND		0.244	0.209		ug/L		86	45 - 125	1	30
Endrin ketone	ND		0.244	0.209		ug/L		86	50 - 125	4	30
gamma-BHC (Lindane)	ND		0.244	0.194		ug/L		80	40 - 120	4	30
Heptachlor	ND		0.244	0.199		ug/L		82	40 - 120	5	30
Heptachlor epoxide	ND		0.244	0.195		ug/L		80	50 - 120	6	30
Methoxychlor	ND		0.244	0.219		ug/L		90	55 - 125	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*80*		*10 - 150*
Tetrachloro-m-xylene	*57*		*10 - 139*

Lab Sample ID: MB 440-252941/1-A
Matrix: Water
Analysis Batch: 253257

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 252941

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	ND		0.10	0.020	ug/L		05/05/15 10:09	05/06/15 15:43	1
2,4'-DDE	ND		0.10	0.020	ug/L		05/05/15 10:09	05/06/15 15:43	1
2,4'-DDT	ND		0.10	0.020	ug/L		05/05/15 10:09	05/06/15 15:43	1
4,4'-DDD	ND		0.10	0.0040	ug/L		05/05/15 10:09	05/06/15 15:43	1
4,4'-DDE	ND		0.10	0.0030	ug/L		05/05/15 10:09	05/06/15 15:43	1
4,4'-DDT	ND		0.10	0.0040	ug/L		05/05/15 10:09	05/06/15 15:43	1
Aldrin	ND		0.0050	0.0015	ug/L		05/05/15 10:09	05/06/15 15:43	1
alpha-BHC	ND		0.0050	0.0025	ug/L		05/05/15 10:09	05/06/15 15:43	1
beta-BHC	ND		0.010	0.0040	ug/L		05/05/15 10:09	05/06/15 15:43	1
Chlordane	ND		0.10	0.080	ug/L		05/05/15 10:09	05/06/15 15:43	1
delta-BHC	ND		0.20	0.0035	ug/L		05/05/15 10:09	05/06/15 15:43	1
Dieldrin	ND		0.0050	0.0020	ug/L		05/05/15 10:09	05/06/15 15:43	1
Endosulfan I	ND		0.10	0.0030	ug/L		05/05/15 10:09	05/06/15 15:43	1
Endosulfan II	ND		0.10	0.0020	ug/L		05/05/15 10:09	05/06/15 15:43	1
Endosulfan sulfate	ND		0.20	0.0030	ug/L		05/05/15 10:09	05/06/15 15:43	1
Endrin	ND		0.10	0.0020	ug/L		05/05/15 10:09	05/06/15 15:43	1
Endrin aldehyde	ND		0.10	0.0020	ug/L		05/05/15 10:09	05/06/15 15:43	1
Endrin ketone	ND		0.10	0.0070	ug/L		05/05/15 10:09	05/06/15 15:43	1

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

Lab Sample ID: MB 440-252941/1-A
Matrix: Water
Analysis Batch: 253257

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 252941

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		0.10	0.0030	ug/L		05/05/15 10:09	05/06/15 15:43	1
Heptachlor	ND		0.010	0.0030	ug/L		05/05/15 10:09	05/06/15 15:43	1
Heptachlor epoxide	ND		0.0050	0.0025	ug/L		05/05/15 10:09	05/06/15 15:43	1
Methoxychlor	ND		0.10	0.0035	ug/L		05/05/15 10:09	05/06/15 15:43	1
Toxaphene	ND		5.0	0.25	ug/L		05/05/15 10:09	05/06/15 15:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*10 - 150*	*05/05/15 10:09*	*05/06/15 15:43*	*1*
Tetrachloro-m-xylene	*61*		*10 - 139*	*05/05/15 10:09*	*05/06/15 15:43*	*1*

Lab Sample ID: LCS 440-252941/2-A
Matrix: Water
Analysis Batch: 253257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252941

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4'-DDD	0.250	0.229		ug/L		92	55 - 120
2,4'-DDE	0.250	0.497	*	ug/L		199	50 - 120
2,4'-DDT	0.250	0.258		ug/L		103	55 - 120
4,4'-DDD	0.250	0.254		ug/L		101	37 - 142
4,4'-DDE	0.250	0.188		ug/L		75	33 - 139
4,4'-DDT	0.250	0.213		ug/L		85	36 - 145
Aldrin	0.250	0.0811		ug/L		32	18 - 122
alpha-BHC	0.250	0.183		ug/L		73	32 - 128
beta-BHC	0.250	0.185		ug/L		74	29 - 123
delta-BHC	0.250	0.200		ug/L		80	33 - 135
Dieldrin	0.250	0.201		ug/L		80	32 - 139
Endosulfan I	0.250	0.196		ug/L		78	32 - 132
Endosulfan II	0.250	0.197		ug/L		79	35 - 130
Endosulfan sulfate	0.250	0.213		ug/L		85	34 - 141
Endrin	0.250	0.201		ug/L		80	33 - 135
Endrin aldehyde	0.250	0.203		ug/L		81	27 - 144
Endrin ketone	0.250	0.216		ug/L		86	30 - 135
gamma-BHC (Lindane)	0.250	0.187		ug/L		75	32 - 129
Heptachlor	0.250	0.178		ug/L		71	30 - 133
Heptachlor epoxide	0.250	0.193		ug/L		77	25 - 142
Methoxychlor	0.250	0.225		ug/L		90	32 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*85*		*10 - 150*
Tetrachloro-m-xylene	*62*		*10 - 139*

Lab Sample ID: LCSD 440-252941/3-A
Matrix: Water
Analysis Batch: 253257

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 252941

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4'-DDD	0.250	0.189	*	ug/L		76	55 - 120	33	30
2,4'-DDE	0.250	0.402	*	ug/L		161	50 - 120	79	30

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

Lab Sample ID: LCSD 440-252941/3-A
Matrix: Water
Analysis Batch: 253257

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 252941

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4'-DDT	0.250	0.205		ug/L		82	55 - 120	26	30
4,4'-DDD	0.250	0.210		ug/L		84	37 - 142	19	35
4,4'-DDE	0.250	0.151		ug/L		60	33 - 139	24	35
4,4'-DDT	0.250	0.170		ug/L		68	36 - 145	24	35
Aldrin	0.250	0.0533	*	ug/L		21	18 - 122	41	35
alpha-BHC	0.250	0.148		ug/L		59	32 - 128	21	35
beta-BHC	0.250	0.155		ug/L		62	29 - 123	18	35
delta-BHC	0.250	0.165	J	ug/L		66	33 - 135	19	35
Dieldrin	0.250	0.162		ug/L		65	32 - 139	21	35
Endosulfan I	0.250	0.159		ug/L		64	32 - 132	21	34
Endosulfan II	0.250	0.160		ug/L		64	35 - 130	22	35
Endosulfan sulfate	0.250	0.175	J	ug/L		70	34 - 141	20	35
Endrin	0.250	0.164		ug/L		65	33 - 135	21	35
Endrin aldehyde	0.250	0.167		ug/L		67	27 - 144	20	35
Endrin ketone	0.250	0.179		ug/L		71	30 - 135	19	35
gamma-BHC (Lindane)	0.250	0.154		ug/L		62	32 - 129	20	35
Heptachlor	0.250	0.143		ug/L		57	30 - 133	24	35
Heptachlor epoxide	0.250	0.158		ug/L		63	25 - 142	32	35
Methoxychlor	0.250	0.182		ug/L		73	32 - 150	23	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*66*		*10 - 150*
Tetrachloro-m-xylene	*50*		*10 - 139*

QC Association Summary

Client: Converse Consultants
Project/Site: Montrose GW

TestAmerica Job ID: 440-108353-1

GC/MS VOA

Analysis Batch: 252794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108353-1	MW-1	Total/NA	Water	8260B	
440-108353-2	MW-2	Total/NA	Water	8260B	
440-108353-3	MW-3	Total/NA	Water	8260B	
440-108437-A-4 MS	Matrix Spike	Total/NA	Water	8260B	
440-108437-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-252794/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-252794/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 252856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108175-B-2 MS	Matrix Spike	Total/NA	Water	8260B	
440-108175-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
440-108353-2 - DL	MW-2	Total/NA	Water	8260B	
440-108353-3 - DL	MW-3	Total/NA	Water	8260B	
LCS 440-252856/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-252856/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 253157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108353-4	MW-4	Total/NA	Water	8260B	
440-108353-4 - DL	MW-4	Total/NA	Water	8260B	
440-108353-4 MS	MW-4	Total/NA	Water	8260B	
440-108353-4 MSD	MW-4	Total/NA	Water	8260B	
LCS 440-253157/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-253157/4	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 253320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108353-1	MW-1	Total/NA	Water	3520C	
440-108353-2	MW-2	Total/NA	Water	3520C	
440-108353-3	MW-3	Total/NA	Water	3520C	
440-108353-4	MW-4	Total/NA	Water	3520C	
LCS 440-253320/23-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-253320/24-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 440-253320/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 253894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108353-1	MW-1	Total/NA	Water	8270C	253320
440-108353-2	MW-2	Total/NA	Water	8270C	253320
440-108353-4	MW-4	Total/NA	Water	8270C	253320

Analysis Batch: 254486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108353-3	MW-3	Total/NA	Water	8270C	253320
LCS 440-253320/23-A	Lab Control Sample	Total/NA	Water	8270C	253320
LCSD 440-253320/24-A	Lab Control Sample Dup	Total/NA	Water	8270C	253320
MB 440-253320/1-A	Method Blank	Total/NA	Water	8270C	253320

QC Association Summary

Client: Converse Consultants
Project/Site: Montrose GW

TestAmerica Job ID: 440-108353-1

GC Semi VOA

Prep Batch: 252388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108353-2	MW-2	Total/NA	Water	3510C	
440-108353-3	MW-3	Total/NA	Water	3510C	
440-108353-4	MW-4	Total/NA	Water	3510C	
440-108437-E-4-A MS	Matrix Spike	Total/NA	Water	3510C	
440-108437-E-4-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	
LCS 440-252388/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 440-252388/1-A	Method Blank	Total/NA	Water	3510C	

Prep Batch: 252941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108353-1	MW-1	Total/NA	Water	3510C	
LCS 440-252941/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-252941/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 440-252941/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 252965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108353-2	MW-2	Total/NA	Water	8081A	252388
440-108353-3	MW-3	Total/NA	Water	8081A	252388
440-108353-4	MW-4	Total/NA	Water	8081A	252388
440-108437-E-4-A MS	Matrix Spike	Total/NA	Water	8081A	252388
440-108437-E-4-B MSD	Matrix Spike Duplicate	Total/NA	Water	8081A	252388
LCS 440-252388/2-A	Lab Control Sample	Total/NA	Water	8081A	252388
MB 440-252388/1-A	Method Blank	Total/NA	Water	8081A	252388

Analysis Batch: 253257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-108353-1	MW-1	Total/NA	Water	8081A	252941
LCS 440-252941/2-A	Lab Control Sample	Total/NA	Water	8081A	252941
LCSD 440-252941/3-A	Lab Control Sample Dup	Total/NA	Water	8081A	252941
MB 440-252941/1-A	Method Blank	Total/NA	Water	8081A	252941

Definitions/Glossary

Client: Converse Consultants
Project/Site: Montrose GW

TestAmerica Job ID: 440-108353-1

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
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD 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.
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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

Certification Summary

Client: Converse Consultants
Project/Site: Montrose GW

TestAmerica Job ID: 440-108353-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-15
Arizona	State Program	9	AZ0671	10-13-15
California	LA Cty Sanitation Districts	9	10256	01-31-16 *
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-16
Hawaii	State Program	9	N/A	01-29-16
Nevada	State Program	9	CA015312007A	07-31-15
New Mexico	State Program	6	N/A	01-29-15 *
Northern Mariana Islands	State Program	9	MP0002	01-29-15 *
Oregon	NELAP	10	4005	01-29-16
USDA	Federal		P330-09-00080	06-06-15

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY FORM

17461 Derian Ave., #100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

5/14/2015

LYD-0122

TAL-0013(1007)

Page 1 of 1

Client Name/Address: MONTROSE C/O BONANZA CONSULTANTS 3095 E. PATRICK LANE STE C LAS VEGAS NV 89120

Project/PO Number: 89 43 133 20 TASK 0001

Project Manager: DAVE BELL

Phone Number: 702 376 2300

Sampler:

Fax Number: DBELL@BONANZACONSULTANTS.COM

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	8260B Hexane extract	8081A Ethanol extract	8270C 1:1 Methanol extract						Special Instructions
MW-1	AQ	VOAs 1 liters	6	4-29-15	1140	HCL	X	X	X						
MW-2	AQ	VOAs 1 liters	6	4-29-15	1015	HCL	X	X	X						
MW-3	AQ	VOAs 1 liters	6	4-29-15	0900	HCL	X	X	X						
MW-4	AQ	VOAs 1 liters	6	4-29-15	0755	HCL	X	X	X						

440-108353 Chain of Custody

Relinquished By:	Date/Time:	Received By:	Date/Time:	Turnaround Time: (Check)
	4/29/15 1415		4/29/15 1415	same day ____ 72 hours ____
Relinquished By:	Date/Time:	Received By:	Date/Time:	24 hours ____ 5 days ____
	4/29/15 1800 CDT			48 hours ____ normal X
Relinquished By:	Date/Time:	Received in Lab By:	Date/Time:	Sample Integrity: (Check)
			4-30-15 0745	intact ✓ on ice ✓

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

(32) 3.3/2.5 3.4/2.0

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TestAmerica

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CHAIN OF CUSTODY FORM

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2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

TAL-0013(1007)

LY0012V

Page ___ of ___

Client Name/Address:

Project/PO Number:

Project Manager:

Phone Number:

Sampler:

Fax Number:

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives										Special Instructions
[illegible]	[illegible]	[illegible]	[illegible]	4-29-15	1140	[illegible]	X	X	X							
[illegible]	[illegible]	[illegible]	[illegible]	4-29-15	1015	[illegible]	X	X	X							
[illegible]	[illegible]	[illegible]	[illegible]	4-29-15	0900	[illegible]	X	X	X							
[illegible]	[illegible]	[illegible]	[illegible]	4-29-15	0755	[illegible]	X	X	X							

440-108353 Chain of Custody

Relinquished By:	Date/Time:	Received By:	Date/Time:	Turnaround Time: (Check)
[illegible]	4/29/15 1415	[illegible]	4/29/15 1416	same day ___ 72 hours ___
Relinquished By:	Date/Time:	Received By:	Date/Time:	24 hours ___ 5 days ___
[illegible]	4/29/15 [illegible]			48 hours ___ normal X
Relinquished By:	Date/Time:	Received in Lab By:	Date/Time:	Sample Integrity: (Check)
		[illegible]	4-30-15 [illegible]	intact ✓ on ice ✓

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

(32)

4.2

Login Sample Receipt Checklist

Client: Converse Consultants

Job Number: 440-108353-1

Login Number: 108353
List Number: 1
Creator: Blocker, Kristina M

List Source: 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.	True	
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.	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 C

Low Flow Purge Sampling Forms

Monitoring Well Low-Flow Purge/Sampling Form

Project: Montrose CPA

Well ID:	MW-4	Screened Interval (ft)	46'-56' bgs	Well Diameter (in):	4"
Date:	4/29/15	Pump Intake Depth (ft)	56' btoc / 51' bgs	Static Water Level (ft):	43.34' btoc
Sample ID	MW-4	Purging/Sample Device:	Portable	Total Well depth (ft):	66.75' btoc
Time:	0755	PID Reading at TOC:	N/A	Water Column Length:	23.41'
Dup ID:	N/A	Water Level Instrument:	Solinst	Minimum Purge Volume:	
Field Blank:	N/A	WLI Serial #:	225144	Sampler's Name:	K. Paprocki
MS/MSD ID:	N/A	Water Quality Meter:	Horiba U-22	Optimal Pump Setting:	PSI 40 CPM 2 ID: 6
Analysis:	Various	Water Quality Meter Serial #:	9096005	Low-Flow or Net Purge:	Low-Flow
		WQM Calibrated Date & Time:	4/28/15 0655		

Time	Volume Purged	Flow Rate	Water Level (feet- BTOC)	Specific Conductance (µS/m)	pH	Temp.	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Salinity	TDS
	Liters	ml/min	<4"	3%	±0.1	±0.2	±10%	±10%	±10%	%	g/L
0732	Pump	Start									
0735	0.6	200	43.34	5.38	7.36	25.4	9.09	41	10.0	0.3	3.4
0738	1.2	200	43.34	5.40	7.44	25.4	6.63	39	1.1	0.3	3.4
0741	1.8	200	43.34	5.42	7.46	25.5	5.27	40	0.3	0.3	3.4
0744	2.4	200	43.34	5.44	7.46	25.7	4.70	42	0.0	0.3	3.4
0747	3.0	200	43.34	5.43	7.47	25.8	4.38	44	0.0	0.3	3.4
0750	3.6	200	43.34	5.45	7.48	25.7	4.21	47	0.0	0.3	3.4
0753	4.2	200	43.34	5.46	7.47	25.8	4.02	49	0.0	0.3	3.4
0755	Samples	Taken									
0820	Samples	complete	43.34								

Comments:
Initial observation water is clear with no odor.

Maximum permissible drawdown= 1.25 ft BTOC, water level not to draw down below 44.59 ft BTOC
Optimal drawdown for low-flow mircropurge sampling is less than 0.3 ft at a flow rate of 0.1 to 1.0 L.min.
If drawdown exceeds 0.3 ft at a flow rate of 0.1 L/min....then attempt to achieve drawdown less than or equal to 25% of the available screen interval at flow rate equal to 0.1 to 1.0 L/min.
This is performed by subtracting pump intake and top of screen for fully submerged screens then multiplying by 25%, or subtracting the distance between pump intake and static water level and multiplying by 25% for water table wells with partly submerged screens.

Monitoring Well Low-Flow Purge/Sampling Form

Project: Montrose CPA

Well ID:	MW-3	Screened Interval (ft)	42'-62' bgs	Well Diameter (in):	4"
Date:	4/29/15	Pump Intake Depth (ft)	52' btoc/51' bgs	Static Water Level (ft):	43.88' btoc
Sample ID	MW-3	Purging/Sample Device:	Peristaltic	Total Well depth (ft):	62.78' btoc
Time:	0900	PID Reading at TOC:	N/A	Water Column Length:	18.90'
Dup ID:	N/A	Water Level Instrument:	Solinst	Minimum Purge Volume:	
Field Blank:	N/A	WLI Serial #:	225/44	Sampler's Name:	K. Pepradi
MS/MSD ID:	N/A	Water Quality Meter:	Horiba U-22	Optimal Pump Setting:	PSI 50 CPM 2 ID: YC
Analysis:	Various	Water Quality Meter Serial #:	9096005	Low-Flow or Net Purge:	Low-Flow
		WQM Calibrated Date & Time:	4/28/15 06:55		

Time	Volume Purged	Flow Rate	Water Level (feet- BTOC)	Specific Conductance (µS/m)	pH	Temp.	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Salinity	TDS
	Liters	ml/min	<4"	3%	±0.1	±0.2	±10%	±10%	±10%	%	g/L
0834	Pump	Start									
0837	0.6	200	43.97	11.1	6.94	26.5	8.72	-162	118	0.6	7
0840	1.2	200	44.00	11.2	6.83	26.3	4.07	-153	72.5	0.6	7
0843	1.8	200	44.01	11.1	6.81	26.3	3.00	-153	44.0	0.6	7
0846	2.4	200	44.02	11.2	6.82	26.2	2.37	-153	35.5	0.6	7
0849	3.0	200	44.03	11.2	6.82	26.1	2.02	-153	35.6	0.6	7
0852	3.6	200	44.03	11.2	6.84	26.3	1.80	-151	30.7	0.6	7
0855	4.2	200	44.04	11.2	6.85	26.2	1.72	-150	28.8	0.6	7
0858	4.8	200	44.04	11.2	6.85	26.2	1.64	-149	27.4	0.6	7
0900	Samples	Taken									
0925	Samples	complete	44.04								

Comments:
Initial observation water is clear with odor

Maximum permissible drawdown= 2.28 ft BTOC, water level not to draw down below 46.16 ft BTOC
Optimal drawdown for low-flow mircropurge sampling is less than 0.3 ft at a flow rate of 0.1 to 1.0 L.min.
If drawdown exceeds 0.3 ft at a flow rate of 0.1 L/min....then attempt to achieve drawdown less than or equal to 25% of the available screen interval at flow rate equal to 0.1 to 1.0 L/min.
This is performed by subtracting pump intake and top of screen for fully submerged screens then multiplying by 25%, or subtracting the distance between pump intake and static water level and multiplying by 25% for water table wells with partly submerged screens.

Monitoring Well Low-Flow Purge/Sampling Form

Project: Montrose CPA

Well ID:	MW-2	Screened Interval (ft)	48'-68' bgs	Well Diameter (in):	4"
Date:	4/29/15	Pump Intake Depth (ft)	58' bgs	Static Water Level (ft):	42.64' btoc
Sample ID	MW-2	Purging/Sample Device:	Portable	Total Well depth (ft):	67.20' btoc
Time:	1015	PID Reading at TOC:	N/A	Water Column Length:	24.56'
Dup ID:	N/A	Water Level Instrument:	Solinst	Minimum Purge Volume:	
Field Blank:	N/A	WLI Serial #:	225144	Sampler's Name:	K. Paprocki
MS/MSD ID:	N/A	Water Quality Meter:	Horiba U-22	Optimal Pump Setting:	PSI 50 CPM 2 ID: 46
Analysis:	Vanderwy	Water Quality Meter Serial #:	909605	Low-Flow or Net Purge:	Low-Flow
		WQM Calibrated Date & Time:	4/28/15 0655		

Time	Volume Purged	Flow Rate	Water Level (feet- BTOC)	Specific Conductance (µS/m)	pH	Temp.	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Salinity	TDS
	Liters	ml/min	<4"	3%	±0.1	±0.2	±10%	±10%	±10%	%	g/L
0947	Pump	Start									
0950	0.6	200	42.72	10.0	7.20	26.7	11.86	25	95.5	0.6	6
0953	1.2	200	42.72	10.0	7.09	26.1	6.56	15	36.8	0.6	6
0956	1.8	200	42.72	10.1	7.05	25.8	4.78	11	7.8	0.6	6
0959	2.4	200	42.72	10.1	7.04	25.8	3.92	10	4.3	0.6	6
1002	3.0	200	42.72	10.1	7.03	25.7	3.18	9	0.0	0.6	6
1005	3.6	200	42.72	10.1	7.03	25.7	2.72	8	0.0	0.6	6
1008	4.2	200	42.72	10.1	7.03	25.7	2.25	8	0.0	0.6	6
1011	4.8	200	42.72	10.1	7.03	25.8	2.11	8	0.0	0.6	6
1014	5.4	200	42.72	10.1	7.02	25.7	2.04	8	0.0	0.6	6
1015	Samples	Taken									
1040	Samples	Complete	42.72								

Comments:
Initial observation water is clear with no odor.

Maximum permissible drawdown= 2.50 ft BTOC, water level not to draw down below 45.14 ft BTOC
Optimal drawdown for low-flow mircropurge sampling is less than 0.3 ft at a flow rate of 0.1 to 1.0 L.min.
If drawdown exceeds 0.3 ft at a flow rate of 0.1 L/min....then attempt to achieve drawdown less than or equal to 25% of the available screen interval at flow rate equal to 0.1 to 1.0 L/min.
This is performed by subtracting pump intake and top of screen for fully submerged screens then multiplying by 25%, or subtracting the distance between pump intake and static water level and multiplying by 25% for water table wells with partly submerged screens.

Monitoring Well Low-Flow Purge/Sampling Form

Project: Montrose CPA

Well ID:	MW-1	Screened Interval (ft)	84'-104' bgs	Well Diameter (in):	4"
Date:	4/29/15	Pump Intake Depth (ft)	94' bgs	Static Water Level (ft):	53.70' btoc
Sample ID	MW-1	Purging/Sample Device:	Portek	Total Well depth (ft):	114.00' btoc
Time:	1140	PID Reading at TOC:	N/A	Water Column Length:	60.30'
Dup ID:	N/A	Water Level Instrument:	Solinst	Minimum Purge Volume:	
Field Blank:	N/A	WLI Serial #:	225144	Sampler's Name:	(KP) K. Pepper
MS/MSD ID:	N/A	Water Quality Meter:	Horiba U-22	Optimal Pump Setting:	20 PSI ~~60~~ CPM 1 ID: 7
Analysis:	Various	Water Quality Meter Serial #:	909600-5	Low-Flow or Net Purge:	Low-Flow
		WQM Calibrated Date & Time:	4/29/15 0655		

Time	Volume Purged	Flow Rate	Water Level (feet- BTOC)	Specific Conductance (µS/m)	pH	Temp.	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Salinity	TDS
	Liters	ml/min	<4"	3%	±0.1	±0.2	±10%	±10%	±10%	%	g/L
1116	Pump	start									
1121	0.5	100	53.98	1.47	8.06	30.2	10.77	52	1.9	0.1	0.9
1124	0.8	100	54.08	1.43	8.08	29.1	9.84	53	0.0	0.1	0.9
1127	1.1	100	54.18	1.41	8.06	28.8	9.10	54	0.0	0.1	0.9
1130	1.4	100	54.29	1.40	8.03	28.6	8.82	56	0.0	0.1	0.9
1133	1.7	100	54.40	1.40	7.99	28.4	8.57	58	0.0	0.1	0.9
1136	2.0	100	54.52	1.40	7.96	28.4	8.40	60	0.0	0.1	0.9
1139	2.3	100	54.62	1.39	7.94	28.3	8.28	61	0.0	0.1	0.9
1140	Samples	Taken									
1225	Samples	Complete									

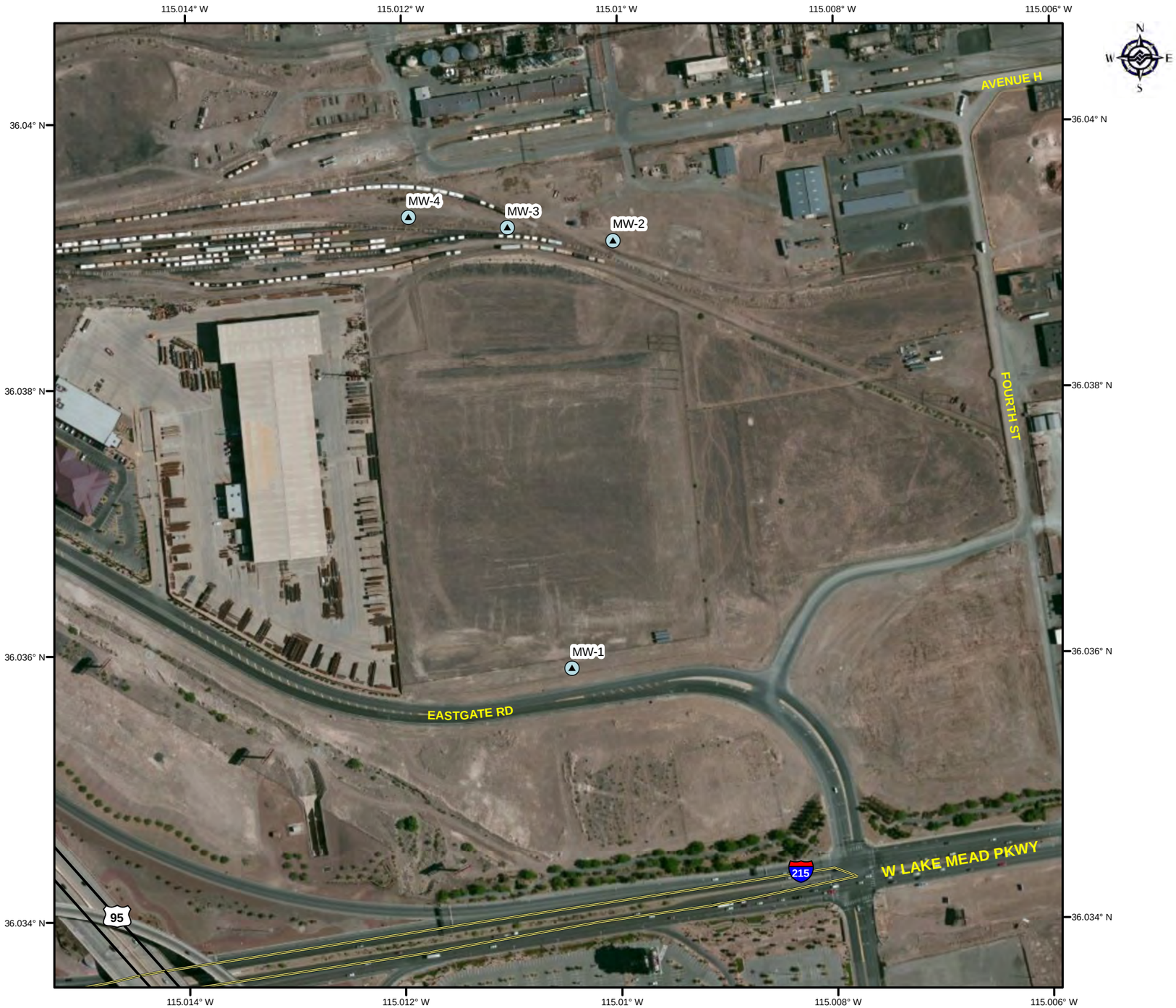
Comments:
Initial observation water is clear with no odor.

Maximum permissible drawdown= 2.50 ft BTOC, water level not to draw down below 56.20 ft BTOC
Optimal drawdown for low-flow micropurge sampling is less than 0.3 ft at a flow rate of 0.1 to 1.0 L.min.
If drawdown exceeds 0.3 ft at a flow rate of 0.1 L/min....then attempt to achieve drawdown less than or equal to 25% of the available screen interval at flow rate equal to 0.1 to 1.0 L/min.
This is performed by subtracting pump intake and top of screen for fully submerged screens then multiplying by 25%, or subtracting the distance between pump intake and static water level and multiplying by 25% for water table wells with partly submerged screens.

Appendix D

Site Map / Well Locations

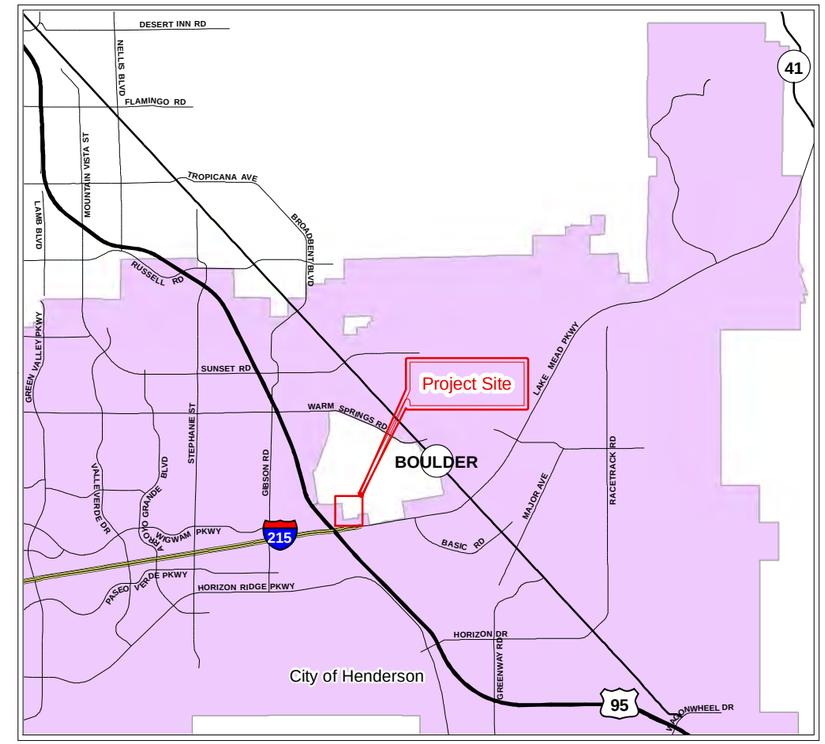
Converse Consultants
Over 60 Years of Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services



1 inch = 300 feet

0 150 300 600 900 1,200 1,500 Feet

Montrose.mxd



1 inch = 2 miles

Legend

Monitoring Well Locations

SITE MAP

MONTROSE CLOSED POND AREA

Lake Mead Parkway and US 95 Intersection
Henderson, Nevada

Plate 1

Revised: 05/23/13

Project No: 89-43133-18