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775.829.2245

February 8, 2024

Nevada Division of Environmental Protection 901 South Stewart Street, Suite 4001 Carson City, NV 89701

### ATTN: Ruben Ramos-Avina and David Friedman

### RE: PAINT REMOVAL OVERSIGHT AND WASTE MANAGEMENT/CHARECTORIZATION REPORT; BREWERY ARTS CENTER; 449 WEST KING STREET, CARSON CITY, NV (SITE)

Mr. Ramos-Avina and Mr. Friedman,

McGinley & Associates, Inc. (McGinley) has prepared this report describing the lead-containing and lead-based paint (LBP) abatement activities conducted at the above-referenced Site. The lead-containing paint abatement activities were conducted based on initial findings from our Limited Pre-Restoration LBP Survey dated June 16, 2022, which identified LBP at the Site, and the work plan outlined in the Paint Removal Work Action Plan (WAP) dated June 13, 2023. The location of the Site is indicated in Figure 1.

### 1. BACKGROUND

The Limited Pre-Restoration LBP Survey dated June 16, 2022, identified five painted surfaces at the Site that met the United States Department of Housing and Urban Development (HUD) definition of LBP and contained concentrations of lead greater than 1.0 milligram per square centimeter (mg/cm<sup>2</sup>). Additionally, 29 of the 34 X-ray fluorescence (XRF) readings collected from the Site contained detectable quantities of lead. Twenty-four of these readings did not meet the HUD definition of LBP but did contain measurable quantities of lead. As such, McGinley recommended the LBP and lead-containing paint be removed or stabilized by a qualified lead-paint abatement contractor to satisfy OSHA regulations. Based on the Limited Pre-Restoration LBP Survey, McGinley prepared the subsequent Paint Removal Work Action Plan in June 2023 and conducted the abatement work in general accordance with the WAP.

### 2. SUMMARY OF WORK

The lead abatement was conducted by Abstract Masonry Restoration, Inc. (Abstract). Abstract was contracted by Brewery Arts Center. McGinley provided abatement oversight, which included characterizing and managing the waste generated during the abatement activities, for the Nevada Brownfields Program on behalf of Brewery Arts Center.

The paint removal process consisted of using specialty historic paint stripping and cleaning solutions and pressurized steam/hot water to strip off the paint from the exterior masonry of the building. Following the stripping process, specialty historic cleaning solutions were used to further clean the masonry and neutralize any alkalinity in the masonry. Additionally, the walls were sealed to protect the masonry and encapsulant was applied to the lead-paint removal areas. Paint chip waste was collected and stored onsite pending characterization and disposal. All wastewater generated during the paint removal process was collected, filtered, neutralized, and containerized within a frac tank. The wastewater was then characterized and properly disposed of. McGinley personnel conducted weekly site inspections throughout the duration of the project. An inspection log is provided in Attachment 1 and Site photographs are provided in Attachment 2.

### 3. WASTE MANAGEMENT, CHARACTERIZATION, AND DISPOSAL

### 3.1 Solids

Solid waste generated such as paint chips, dust, and contaminated soils were swept up, collected, and containerized prior to characterization and disposal.

### 3.1.1 Collection of Solid Waste Sample

McGinley personnel collected a sample from the solid waste on June 29, 2023. The sample was placed in a Ziploc bag, sealed, and labeled pending delivery to the laboratory for analysis.

### 3.1.2 Analytical Testing and Results

The solid waste sample was delivered under chain-of-custody procedures to Alpha Analytical (Alpha) in Sparks, Nevada for analysis. The solid waste sample was subjected to a toxic characteristic leaching procedure (TCLP) test in accordance with EPA Method 6020. A copy of the chain-of custody record and laboratory report for the collected sample is provided in Attachment 3.

The analytical results for the solid waste sample are provided in Table 1. A detectable concentration of barium was reported in the collected solid waste sample with a concentration of 1.4 mg/L. All other concentrations of metals were below the laboratory reporting limits.

### 3.1.3 Solid Waste Characterization and Disposal

Solid abatement wastes with TCLP results less than 5.0 mg/L are considered "inert" and can be disposed of as regular solid waste. As such, the project-generated solid waste was disposed of in the Carson City Permitted Landfill by Abstract.

### 3.2 Wastewater

Wastewater generated during the paint removal process was collected in a containment area, vacuumed, filtered, and containerized in a frac tank prior to characterization and disposal. Abstract added neutralizing agents to the frac tank as wastewater was accumulated.

### 3.2.1 Collection of Wastewater Samples

Following the abatement activities, McGinley personnel collected wastewater samples from the frac tank at the Site. The first wastewater sample was collected on June 29, 2023. After additional wastewater had been added to the frac tank, a second wastewater sample was collected on July 24, 2023. Subsequently, a final wastewater sample was collected with oversight from Carson City personnel on August 18, 2023.

Wastewater samples were collected using disposable polyethylene bailers. The wastewater samples were placed in laboratory provided sample containers, sealed, labeled, and preserved on ice in a cooler pending delivery to the laboratory for analysis.

### 3.2.2 Analytical Testing and Results

The wastewater samples were delivered under chain-of-custody procedures to Alpha in Sparks, Nevada for testing. The wastewater samples were analyzed for metals by EPA Method 200.8, sulfides by Method SM 4500-S2 D, cyanide by Method SM 4500-CN, oil and grease by EPA Method 1664B, total phenol by EPA Method 625.1, chemical oxygen demand (COD) by EPA Method 410.1, and total

suspended solids (TSS) by Method SM2540 D. Formaldehyde was analyzed by Eurofins Calscience (Eurofins) as a subcontractor to Alpha by EPA Method 8315A and biochemical oxygen demand (BOD) was analyzed by SGS Silver State Analytical Laboratories (SGS) as a subcontractor to Alpha by Method SM 5210 B. Sample analysis was based on Carson City discharge permit requirements. Carson City personnel were onsite to oversee collection of the final wastewater sample. Per discussion with Carson City, the final wastewater sample was only analyzed for lead and TSS as these were identified as the primary constituents of concern based on the analytical results for the wastewater samples collected in June and July 2023.

The analytical results for the collected wastewater samples are provided in Table 2 and summarized below.

- The initial wastewater sample, *BRN098-WW-001*, collected on June 29, 2023, had multiple detections as summarized below.
  - A detectable concentration of arsenic was reported in the wastewater sample, with a result of 0.0088 mg/L, below the Carson City Discharge Limit of 0.1 mg/L.
  - A detectable concentration of barium was reported in the wastewater sample, with a result of 0.81 mg/L, below the Carson City Discharge Limit of 10 mg/L.
  - A detectable concentration of boron was reported in the wastewater sample, with a result of 5.0 mg/l, meeting the Carson City Discharge Limit of 5.0 mg/L.
  - A detectable concentration of cadmium was reported in the wastewater sample, with a result of 0.0039 mg/L, below the Carson City Discharge Limit of 0.1 mg/L.
  - A detectable concentration of chromium was reported in the wastewater sample, with a result of 0.27 mg/L, below the Carson City Discharge Limit of 2.0 mg/L.
  - A detectable concentration of copper was reported in the wastewater sample, with a result of 0.036 mg/L, below the Carson City Discharge Limit of 1.0 mg/L.
  - A detectable concentration of formaldehyde was reported in the wastewater sample, with a result of 0.12 mg/L, below the Carson City Discharge Limit of 10 mg/L.
  - A detectable concentration of iron was reported in the wastewater sample, with a result of 1.5 mg/L, below the Carson City Discharge Limit of 20 mg/L.
  - A detectable concentration of lead was reported in the wastewater sample, with a result of 2.4 mg/L, exceeding the Carson City Discharge Limit of 1.0 mg/L.
  - A detectable concentration of manganese was reported in the wastewater sample, with a result of 0.11 mg/L, below the Carson City Discharge Limit of 1.0 mg/L.
  - A detectable concentration of mercury was reported in the wastewater sample, with a result of 0.026 mg/L, below the Carson City Discharge Limit of 0.05 mg/L.
  - A detectable concentration of nickel was reported in the wastewater sample, with a result of 0.012 mg/L, below the Carson City Discharge Limit of 1.0 mg/L.
  - A detectable concentration of sulfide was reported in the wastewater sample, with a result of 0.51 mg/L, exceeding the Carson City Discharge Limit of 0.1 mg/L.
  - A detectable concentration of zinc was reported in the wastewater sample, with a result of 2.9 mg/L, below the Carson City Discharge Limit of 4.0 mg/L.
  - A detectable concentration of oil and grease was reported in the wastewater sample, with a result of 71 mg/L, below the Carson City Discharge Limit of 300 mg/L.
  - A detectable concentration of COD was reported in the wastewater sample, with a result of 2,100 mg/L, exceeding the Carson City Discharge Limit of 2,000 mg/L.

- A detectable concentration of BOD was reported in the wastewater sample, with a result of 540 mg/L, below the Carson City Discharge Limit of 1,000 mg/L.
- A detectable concentration of TSS was reported in the wastewater sample, with a result of 1,100 mg/L, exceeding the Carson City Discharge Limit of 1,000 mg/L.
- Cyanide, selenium, silver, and phenol were reported below the laboratory reporting limits for the collected sample.
- The second wastewater sample, *BRN098-WW-002*, collected on July 24, 2023, had multiple detections as summarized below.
  - A detectable concentration of barium was reported in the wastewater sample, with a result of 0.3 mg/L, below the Carson City Discharge Limit of 10 mg/L.
  - A detectable concentration of boron was reported in the wastewater sample, with a result of 0.43 mg/l, below the Carson City Discharge Limit of 5.0 mg/L.
  - A detectable concentration of chromium was reported in the wastewater sample, with a result of 0.23 mg/L, below the Carson City Discharge Limit of 2.0 mg/L.
  - A detectable concentration of copper was reported in the wastewater sample, with a result of 0.03 mg/L, below the Carson City Discharge Limit of 1.0 mg/L.
  - A detectable concentration of formaldehyde was reported in the wastewater sample, with a result of 0.055 mg/L, below the Carson City Discharge Limit of 10 mg/L.
  - A detectable concentration of iron was reported in the wastewater sample, with a result of 0.37 mg/L, below the Carson City Discharge Limit of 20 mg/L.
  - A detectable concentration of lead was reported in the wastewater sample, with a result of 0.11 mg/L, below the Carson City Discharge Limit of 1.0 mg/L.
  - A detectable concentration of manganese was reported in the wastewater sample, with a result of 0.016 mg/L, below the Carson City Discharge Limit of 1.0 mg/L.
  - A detectable concentration of mercury was reported in the wastewater sample, with a result of 0.014 mg/L, below the Carson City Discharge Limit of 0.05 mg/L.
  - A detectable concentration of sulfide was reported in the wastewater sample, with a result of 0.46 mg/L, exceeding the Carson City Discharge Limit of 0.1 mg/L.
  - A detectable concentration of zinc was reported in the wastewater sample, with a result of 0.23 mg/L, below the Carson City Discharge Limit of 4.0 mg/L.
  - A detectable concentration of oil and grease was reported in the wastewater sample, with a result of 17 mg/L, below the Carson City Discharge Limit of 300 mg/L.
  - A detectable concentration of COD was reported in the wastewater sample, with a result of 2,200 mg/L, exceeding the Carson City Discharge Limit of 2,000 mg/L.
  - A detectable concentration of BOD was reported in the wastewater sample, with a result of 620 mg/L, below the Carson City Discharge Limit of 1,000 mg/L.
  - A detectable concentration of TSS was reported in the wastewater sample, with a result of 27 mg/L, below the Carson City Discharge Limit of 1,000 mg/L.
  - Arsenic, cadmium, cyanide, nickel, selenium, silver, and phenol were reported below the laboratory reporting limits for the collected sample.
- The final wastewater sample, *BRN098-WW-003*, collected on August 18, 2023, reported detectable concentrations of lead and TSS, with results of 0.11 mg/L and 130 mg/L, below the Carson City Discharge Limits of 1.0 mg/L and 1,000 mg/L, respectively.

### 3.2.3 Wastewater Characterization and Disposal

Due to neutralizing agents and settling of sediments, the final wastewater sample did not exceed discharge limits. As such, McGinley received verbal approval from Carson City to discharge the liquid wastewater to the sanitary sewer on September 1, 2023. On September 7 and 8, 2023, the liquid wastewater was pumped from the frac tank into the sanitary sewer by GrayMar Environmental Services, Inc (GrayMar). Per Carson City's request, any sediment that had settled in the wastewater frac tank was not discharged to the sanitary sewer and was collected for disposal at Waste Management. Subsequently, on September 12, 2023, GrayMar removed the frac tank and conducted final cleanup of the Site.

### 4. FINAL INSPECTION

### 4.1 Collection of Dust Wipe Samples

Following the lead-paint removal activities, a visual clearance was completed by a Certified Lead Risk Assessor on August 3, 2023. Following the visual clearance, ten surface dust wipe samples were collected from the approximate locations indicated in Figure 2 which included surfaces that may accumulate lead dust during abatement activities. Each surface dust wipe sample was collected from an area of one square foot (ft<sup>2</sup>). A one ft<sup>2</sup> template was taped on the sampling surface before sampling. The pre-preserved disposable wipe was then removed from the package using a clean pair of nitrile gloves and unfolded. The surface was then wiped in an 'S' pattern to cover the sample area with horizontal strokes. Once the surface was fully wiped, the wipe was folded and wiped again using vertical strokes. The wipe was then folded again, exposed side in, and wiped again using horizontal strokes. After the third wiping sequence, the wipe was folded again and placed into laboratory provided glass sample containers. A new template and pair of gloves were used for each sample. All sampling equipment was stored separately and carefully handled to avoid any cross-contamination.

### 4.2 Analytical Testing and Results

Surface dust wipe samples were submitted under chain-of-custody procedures to Eurofins for analysis. The samples were analyzed for lead by NIOSH Method 7082 and EPA Method 700B. The chain-of-custody documentation and laboratory reports for the surface dust wipe samples are provided in Attachment 3.

The analytical results for the collected dust wipe samples are provided in Table 3 and summarized below.

- All four surface dust wipe samples collected from the west sidewalk were reported below the laboratory detection limit.
- Detectable concentrations of lead were reported in three of the four collected surface dust wipe samples from the north sidewalk, with concentrations ranging from 32 µg/ft<sup>2</sup> (BRN085-C-005) to 100 µg/ft<sup>2</sup> (BRN085-C-008).
- The two surface dust wipe samples collected from the southern roof were reported below the laboratory detection limit.

### 5. CONCLUSIONS

Currently, there are no federal, state, or local regulations or standards for lead-contaminated dust on sidewalks of commercial buildings. In California, the California Department of Public Health (CDHP) has set a standard for lead-contaminated dust on exterior floors and exterior horizontal surfaces of

public and residential buildings to  $400 \ \mu g/ft^2$ . Given the lack of federal, state, or local regulations or standards for lead-contaminated dust on sidewalks of commercial buildings, McGinley recommends using the CDPH standard as guidance for this project.

The surface dust wipe samples collected at the Site had detectable concentrations of lead up to 100  $\mu$ g/ft<sup>2</sup>. Therefore, McGinley opines that there is not a health concern for remaining lead at the Site and that no further assessment or remediation activities are warranted at this time. Additionally, note that Abstract completely removed the LBP and lead-containing paint, conducted an additional thorough rinsing of the Site following the final inspection, and applied encapsulant to the lead-paint removal areas.

### 6. LIMITATIONS

The conclusions presented herein are partially based on information compiled by McGinley and others. McGinley makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. The results reported herein are applicable to the time the sampling occurred. Changes in site hydrogeology may occur as a result of rainfall, snowmelt, water usage, or other factors.

It should be recognized that definition and evaluation of environmental conditions is a difficult and inexact science. Judgments and opinions leading to conclusions and recommendations are generally made with an incomplete knowledge of the conditions present. More extensive studies, including additional environmental investigations, can tend to reduce the inherent uncertainties associated with such studies. Additional information not found or available to McGinley at the time of writing this report may result in a modification to the conclusions and recommendations contained herein.

The presentation of data presented herein is intended for the purpose of the visualization of environmental conditions. A greater degree of spatial and temporal data density may result in a more accurate representation of environmental conditions. Although such data visualization techniques may aid in providing a conceptual understanding of environmental conditions, such presentations are not intended to completely depict environmental conditions.

This report is not a legal opinion. The services performed by McGinley have been conducted in a manner consistent with the level of care ordinarily exercised by members of our profession currently practicing under similar conditions. No other warranty, expressed or implied, is made.

The use of the word "certify" in this document constitutes an expression of professional opinion regarding those facts or findings which are the subject of the certification and does not constitute a warranty or guarantee, either express or implied.

### 7. CLOSING

McGinley trusts that this information satisfies your requirements. Should you have any questions regarding this report, or the recommendations provided herein, please contact the undersigned at 775.829.2245.

Respectfully submitted, McGinley & Associates, Inc.

Alisa Prary, E.I.T. Staff Engineer

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.

Caillin Jelle

Caitlin Jelle, P.E., CEM #2454 (Exp. 3/24) Senior Project Manager

# TABLES

Table 1: Summary of Sc	olid Waste Analyti	cal Data							
Sample ID	Sample Type	Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)	Silver (mg/L)
BRN098-S-TCLP-001	Solids - TCLP	6/29/2023	ND	1.4	ND	ND	ND	ND	ND
RCRA-TCLP Haza	5.0	100	1.0	5.0	5.0	1.0	5.0		

ND

Not detected

mg/L

millligrams per liter

Table 2: Summary of W	astewater Analyti	ical Data																						
Sample ID	Sample Type	Date	Arsenic (mg/L)	Barium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Total chromium (mg/L)	Copper (mg/L)	Cyanide (mg/L)	Formaldehyde (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Mercury (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sulfide (mg/L)	Zinc (mg/L)	Oil and grease (mg/L)	Phenolic Compounds (μg/L)	COD (mg/L)	BOD (mg/L)	TSS (mg/L)
BRN098-WW-001	Wastewater	6/29/2023	0.0088	0.81	0.5	0.0039	0.27	0.036	ND	0.12	1.5	2.4	0.11	0.026	0.012	ND	ND	0.51	2.9	71	ND	2,100	540	1,100
BRN098-WW-002	Wastewater	7/24/2023	ND	0.3	0.43	ND	0.23	0.03	ND	0.055	0.37	0.24	0.016	0.014	ND	ND	ND	0.46	0.23	17	ND	2,200	620	27
BRN098-WW-003	Wastewater	8/18/2023	-	-	-	-	-	-	-	-	-	0.11	-	-	-	-	-	-	-	-	-	-	-	130
Carson City	Discharge Limits (I	mg/L)	0.1	10	0.5	0.1	2.0	1.0	0.1	10	20	0.6	1.0	0.05	1.0	0.2	0.5	0.1	4.0	300	0.5	2,000	1,000	1,000

ND Not detected millligrams per liter

mg/L

Bolded values exceed permit limits

Table 3: Summary	of Dust Wipe Sa	mple Analytical Data	
Sample ID	Date	Sample Location	Total Lead (µg/ft <sup>2</sup> )
BRN085-C-001	8/3/2023	West Sidewalk	<10
BRN085-C-002	8/3/2023	West Sidewalk	<10
BRN085-C-003	8/3/2023	<10	
BRN085-C-004	8/3/2023	West Sidewalk	<10
BRN085-C-005	8/3/2023	North Sidewalk	32
BRN085-C-006	8/3/2023	North Sidewalk	74
BRN085-C-007	8/3/2023	North Sidewalk	<10
BRN085-C-008	8/3/2023	North Sidewalk	100
BRN085-C-009	8/3/2023	South Roof	<10
BRN085-C-010	8/3/2023	South Roof	<10
California Departr	ment of Public He	alth Standard	400
for Lead on Exteri	or Floor and Exte	rior Surfaces	400

Notes

µg/ft²

Micrograms per square foot

# **FIGURES**





**Figure 1** Project Location Map - Brewery Arts Center 449 West King Street Carson City, Nevada 89703 Project No. BRN098







# ATTACHMENT 1 McGinley Inspection Logbook

	BRN098 - Brewery Arts Center Field I	nspection Logbook
Date & Time	Notes / Observations	Issues / Unusual Activity
6/19/23	<ul> <li>Frac tank placed north of building on W. King St.</li> </ul>	<ul> <li>Rocked area by West wall contains fallen paint</li> </ul>
11:00 AM	<ul> <li>Stripping on West facing wall in progress</li> </ul>	chips
6/20/23	<ul> <li>Scraping on south facing wall in progress</li> </ul>	
11:00 AM	<ul> <li>Stripping on west facing wall in progress</li> </ul>	-
6/23/2023	<ul> <li>Scraping on west facing wall in progress</li> </ul>	<ul> <li>Minor leaking from containment, was being</li> </ul>
11:00 AM	<ul> <li>Washing of west facing wall in progress</li> </ul>	vacuumed to frac tank
	<ul> <li>Paint has been removed</li> </ul>	
6/28/23	<ul> <li>Abstract returns 7/9-7/28</li> </ul>	
9:00 AM	• WW and paint chip samples collected and delivered to	-
	the lab	
7/14/23	Repointing the brick on west and south facing walls	
9.00 AM	• Abstract leaves 7/28 returns 8/6	-
5.007.00		
7/19/23	<ul> <li>Repointing the brick on west facing wall</li> </ul>	
10:30 AM	<ul> <li>Prepping north facing wall for repointing</li> </ul>	-
	May have the project completed by next week	
7/24/23	<ul> <li>Repointing brick on north facing wall</li> </ul>	
10:00 AM	• Abstract leaves 7/29 and returns 8/7 to seal the walls	-
0/2/22		
8/3/23	• Conduct abatement sampling	
10:00 AM	a Finalizing and elegating up	
Q/Q/22		
0/9/25 10:00 AM	<ul> <li>Sediling all walls</li> <li>Project to be completed by and of week</li> </ul>	-
10.00 AW	• Fractank is about 1/2 full of wastewater	
8/18/23		
10.00 AM	<ul> <li>Final wastewater sampling</li> </ul>	-
10.00 AM	Verbal approval from Carson City to discharge liquid to	
9/1/23	sanitary sewer. Any sediment must be collected and	_
10:00 AM	disposed of at Waste Management	
9/7/23 &		
9/8/23	Pumping water from frac tank to sanitary sewer	-
0, 0, 20		
9/12/2023	Remove frac tank and cleanup	-

# **ATTACHMENT 2**

Site Photographs



**Photograph 1:** View of the Site during paint stripping activities.



Photograph 2: View of the Site during paint stripping activities.



Photograph 3: View of the Site during paint scraping activities.



**Photograph 4:** View of the Site during repointing activities.



Photograph 5: View of the northern wall following removal and repointing.



**Photograph 6:** View of the western wall following removal and repointing.

# **ATTACHMENT 3**

Chain-of-Custody Record and Analytical Report for Solid Waste, Wastewater, and Dust Wipe Samples



July 12, 2023

Caitlin Jelle McGinley & Associates, Inc./UES 6995 Sierra Center Parkway Reno, NV 89511 TEL: (775) 829-2245 FAX: (775) 829-2213

RE: BRN098

Dear Caitlin Jelle:

Order No.: MGA2306188

The result of this report apply to the sample(s) as received.

There were no problems with the analytical events associated with this report unless noted.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Kandy Sandner

Randy Gardner Laboratory Director 255 Glendale Ave, #21 Sparks, Nevada 89431



# **Analytical Report**

WO#: MGA2306188 Report Date:

7/12/2023

#### **CLIENT:** McGinley & Associates, Inc./UES

**Project: BRN098** 

Lab ID: 2306188-01

Client Sample ID: BRN098-S-TCLP-001

Collection Date: 6/29/2023 9:00:00 AM

Matrix: OTHER

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Chromium (Cr)	ND	0.10		mg/L	7/10/2023	TCLP Metals by EPA 6020
Arsenic (As)	ND	0.10		mg/L	7/10/2023	TCLP Metals by EPA 6020
Selenium (Se)	ND	0.10		mg/L	7/10/2023	TCLP Metals by EPA 6020
Silver (Ag)	ND	0.10		mg/L	7/10/2023	TCLP Metals by EPA 6020
Cadmium (Cd)	ND	0.10		mg/L	7/10/2023	TCLP Metals by EPA 6020
Barium (Ba)	1.4	1.0		mg/L	7/10/2023	TCLP Metals by EPA 6020
Lead (Pb)	ND	0.10		mg/L	7/10/2023	TCLP Metals by EPA 6020



**BRN098** 

Alpha Analytical, Inc. 255 Glendale Ave, #21 Sparks, Nevada 89431 TEL: (775) 355-1044 FAX: (775) 355-0406 Website: www.alpha-analytical.com

## **Analytical Report**

WO#: MGA2306188 Report Date:

7/12/2023

#### **CLIENT:** McGinley & Associates, Inc./UES

**Project:** 

Lab ID: 2306188-02

#### Client Sample ID: BRN098-WW-001

#### Collection Date: 6/29/2023 9:30:00 AM

#### Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	Date Analyzed	Method	
Mercury (Hg)	0.026	0.020		mg/L	7/5/2023	EPA 245.1	
Phenol	ND	10		µg/L	7/7/2023	EPA 625.1	
2-Chlorophenol	ND	10		µg/L	7/7/2023	EPA 625.1	
2-Nitrophenol	ND	10		µg/L	7/7/2023	EPA 625.1	
2,4-Dimethylphenol	ND	10		µg/L	7/7/2023	EPA 625.1	
2,4-Dichlorophenol	ND	10		µg/L	7/7/2023	EPA 625.1	
Hexachlorobutadiene	ND	20		µg/L	7/7/2023	EPA 625.1	
2,4,6-Trichlorophenol	ND	10		µg/L	7/7/2023	EPA 625.1	
2,4-Dinitrophenol	ND	100		µg/L	7/7/2023	EPA 625.1	
4-Nitrophenol	ND	50		µg/L	7/7/2023	EPA 625.1	
4,6-Dinitro-2-methylphenol	ND	100		µg/L	7/7/2023	EPA 625.1	
Pentachlorophenol	ND	50		µg/L	7/7/2023	EPA 625.1	
Surr: 2-Fluorophenol	46	31-130		%Rec	7/7/2023	EPA 625.1	
Surr: Phenol-d5	30	18-130		%Rec	7/7/2023	EPA 625.1	
Surr: Nitrobenzene-d5	82	41-131		%Rec	7/7/2023	EPA 625.1	
Surr: 2-Fluorobiphenyl	85	41-130		%Rec	7/7/2023	EPA 625.1	
Surr: 2,4,6-Tribromophenol	74	40-154		%Rec	7/7/2023	EPA 625.1	
Surr: 4-Terphenyl-d14	93	48-141		%Rec	7/7/2023	EPA 625.1	
Chemical Oxygen Demand (COD)	2,100	250		mg/L	7/6/2023	EPA 410.4	
Cyanide, Total	ND	0.10		mg/L	6/30/2023	SM4500-CN C,E	
Boron (B)	0.50	0.10		mg/L	7/10/2023	EPA 200.8	
Chromium (Cr)	0.27	0.010		mg/L	7/10/2023	EPA 200.8	
Manganese (Mn)	0.11	0.0050		mg/L	7/10/2023	EPA 200.8	
Iron (Fe)	1.5	0.30		mg/L	7/10/2023	EPA 200.8	
Nickel (Ni)	0.012	0.010		mg/L	7/10/2023	EPA 200.8	
Copper (Cu)	0.036	0.020		mg/L	7/10/2023	EPA 200.8	
Zinc (Zn)	2.9	0.10		mg/L	7/10/2023	EPA 200.8	
Arsenic (As)	0.0088	0.0050		mg/L	7/10/2023	EPA 200.8	
Selenium (Se)	ND	0.0050		mg/L	7/10/2023	EPA 200.8	
Silver (Ag)	ND	0.0050		mg/L	7/10/2023	EPA 200.8	
Cadmium (Cd)	0.0039	0.0020		mg/L	7/10/2023	EPA 200.8	
Barium (Ba)	0.81	0.0050		mg/L	7/10/2023	EPA 200.8	
Lead (Pb)	2.4	0.0050		mg/L	7/10/2023	EPA 200.8	
Oil & Grease, HEM	71	5.0		mg/L	7/3/2023	EPA 1664B	
Sulfide	0.51	0.10		mg/L	7/5/2023	SM 4500-S2 D	
Solids, Total Suspended (TSS)	1,100	12		mg/L	6/30/2023	SM 2540 D	



# QC SUMMARY REPORT

WO#: 2306188

12-Jul-23

Client: McGin Project: BRN09	ley & Associates, 1 98	Inc./UE	ES			[	FestCode:	245_1	L		
Sample ID: <b>MB-18863</b>				e: MBLK		TestCo	de: 245 1		Units:	ma/L	
Client ID: <b>PBW</b>			Batch ID:	18863		TestNo:	E245.1		E245.	1	
Prep Date: 7/5/2023			RunNo:	17388		SeaNo:	505098		-		
Analysis Date: 7/5/2023											
			SPK	SPK				RPD			
Analyte	Result	PQL	Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit	Qual
Mercury (Hg)	ND	0.001									
Sample ID: LCS-18863			SampType	e: LCS		TestCo	de: <b>245_1</b>		Units:	mg/L	
Client ID: LCSW			Batch ID:	18863		TestNo:	E245.1		E245.1	1	
Prep Date: 7/5/2023			RunNo:	17388		SeqNo:	505099				
Analysis Date: 7/5/2023											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury (Hg)	0.00171	0.001	0.0015	0	114	85	115				
Sample ID: 2306134-01AMS	5		SampType	e: <b>MS</b>		TestCoo	de: 245_1		Units:	mg/L	
Client ID: BatchQC			Batch ID:	18863		TestNo:	E245.1		E245. <sup>-</sup>	1	
Prep Date: 7/5/2023			RunNo:	17388		SeqNo:	505101				
Analysis Date: 7/5/2023			0.514	0.514							
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury (Hg)	0.0172	0.001	0.015	0	115	70	130				
Sample ID: 2306134-01AMS	5D		SampType	e: MSD		TestCoo	de: <b>245_1</b>		Units:	mg/L	
Client ID: BatchQC			Batch ID:	18863		TestNo:	E245.1		E245. <sup>-</sup>	1	
Prep Date: 7/5/2023			RunNo:	17388		SeqNo:	505102				
Analysis Date: 7/5/2023											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury (Hg)	0.0176	0.001	0.015	0	117	70	130	0.0172	2.3	20	

ND Not Detected at the Reporting Limit



QC SUMMARY REPORT

WO#: 2306188

12-Jul-23

Qual

Client:McGinley & JProject:BRN098	Associates, I	nc./UE	ËS			,	TestCode:	625_	W	
Sample ID: MB-18869			SampType	: MBLK		TestCo	de: 625_W		Units	µg/L
Client ID: PBW			Batch ID:	18869		TestNo	SW827	0C		
Prep Date: 7/5/2023			RunNo:	17409		SeqNo:	505502			
Analysis Date: 7/7/2023										
			SPK	SPK				RPD		
Analyte	Result	PQL	Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit
Phenol	ND	10								
2-Chlorophenol	ND	10								
2-Nitrophenol	ND	10								
2,4-Dimethylphenol	ND	10								
2,4-Dichlorophenol	ND	10								
Hexachlorobutadiene	ND	20								
2,4,6-Trichlorophenol	ND	10								
2,4-Dinitrophenol	ND	100								
4-Nitrophenol	ND	50								
4,6-Dinitro-2-methylphenol	ND	100								
Pentachlorophenol	ND	50								
Surr: 2-Fluorophenol	91		200		45.4	30.51	130.49			
Surr: Phenol-d5	55		200		27.4	17.51	130.49			
Surr: Nitrobenzene-d5	81		100		80.8	40.51	131.49			
Surr: 2-Fluorobiphenyl	87		100		87.4	40.51	130.49			
Surr: 2,4,6-Tribromophenol	140		200		68.2	39.51	154.49			
Surr: 4-Terphenyl-d14	78		100		77.9	47.51	141.49			

Sample ID: LCS-18869			SampType	: LCS		TestCo	de: 625_W		Units:	µg/L	
Client ID: LCSW			Batch ID:	18869		TestNo:	SW827	0C			
Prep Date: 7/5/2023			RunNo:	17409		SeqNo:	505505				
Analysis Date: 7/7/2023											
Analyte	Result	POI	SPK Value	SPK Ref Val	%REC	Lowl imit	Highl imit	RPD Ref Val	%RPD	RPDI imit	Qual
Phonol	22.4	10	100		22.4	17	120		701 CT D		Quui
	79.4	10	100	0	79.4	17	120				
2-Chlorophenol	70.4 97.4	10	100	0	70.4 07 4	30	120				
	07.4	10	100	0	07.4	40	107				
2,4-Dimethylphenol	75.1	10	100	0	75.1	52	120				
2,4-Dichlorophenol	88.3	10	100	0	88.3	53	122				
Hexachlorobutadiene	67.6	20	100	0	67.6	38	120				
2,4,6-Trichlorophenol	96.8	10	100	0	96.8	52	129				
2,4-Dinitrophenol	110	100	100	0	110	0.51	173				
4-Nitrophenol	48.6	50	100	0	48.6	13	129				
4,6-Dinitro-2-methylphenol	77.6	100	100	0	77.6	53	130				
Pentachlorophenol	91.7	50	100	0	91.7	38	152				
Surr: 2-Fluorophenol	78.8		200		39.4	30.51	130.49				
Surr: Phenol-d5	49.3		200		24.6	47.51	130.49				S
Surr: Nitrobenzene-d5	71.6		100		71.6	40.51	131.49				
Surr: 2-Fluorobiphenyl	75.8		100		75.8	40.51	130.49				
Surr: 2,4,6-Tribromophenol	142		200		70.8	39.51	154.49				
Surr: 4-Terphenyl-d14	83.4		100		83.4	47.51	141.49				

Qualifiers: B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit



# QC SUMMARY REPORT

WO#: 2306188

12-Jul-23

Client:MProject:B	lcGinley & Asso RN098	ociates, In	nc./UE	ËS			r ·	FestCode:	625_V	V		
Sample ID: LCS-1886	9			SampType	: LCS		TestCo	de: 625_W		Units:	µg/L	
Client ID: LCSW				Batch ID:	18869		TestNo:	SW8270	C			
Prep Date: 7/5/2	123			RunNo:	17409		SeaNo:	505505				
Analysia Data: 7/3/20	220			rtanito.	11 400		004110.	000000				
Analysis Date. 1112	JZ3			SDK	SDK				PPD			
Analyte		Result	PQL	Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit	Qual
Sample ID: LCSD-188	69			SampType	: LCSD		TestCo	de: 625 W		Units:	µq/L	
Client ID I CSS02				Batch ID:	18869		TestNo	SW827	nc.			
Dron Data: 7/5/00				Dur No.	17400		Cochlor	505500				
Prep Date: 1/5/20	JZ3			Runno.	17409		Sequo:	505506				
Analysis Date: 7/7/20	023			0.51/	0.51/							
Analyte		Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol		33.8	10	100	0	33.8	17	120	33.4	1.1	64	
2-Chlorophenol		80.1	10	100	0	80.1	36	120	78.4	2.2	61	
2-Nitrophenol		85.3	10	100	0	85.2	45	167	87.4	2.5	55	
2,4-Dimethylphenol		80.7	10	100	0	80.7	52	120	75.1	7.2	50	
2,4-Dichlorophenol		85.2	10	100	0	85.2	53	122	88.3	3.5	50	
Hexachlorobutadiene		70.6	20	100	0	70.6	38	120	67.6	4.3	62	
2,4,6-Trichlorophenol		88.8	10	100	0	88.8	52	129	96.8	8.6	50	
2,4-Dinitrophenol		108	100	100	0	108	0.51	173	110	1.4	50	
4-Nitrophenol		46.1	50	100	0	46.1	13	129	48.6	5.2	50	
4,6-Dinitro-2-methylphe	enol	74.8	100	100	0	74.8	53	130	77.6	3.7	50	
Pentachlorophenol		77.7	50	100	0	77.7	38	152	91.7	17	86	
Surr: 2-Fluorophenol		84.3		200		42.1	30.51	130.49	78.8	0	0	
Surr: Phenol-d5		52.7		200		26.3	17.51	130.49	49.3	0	0	
Surr: Nitrobenzene-d	5	74.3		100		74.3	40.51	131.49	71.6	0	0	
Surr: 2-Fluorobiphen	yl	73.6		100		73.6	40.51	130.49	75.8	0	0	
Surr: 2,4,6-Tribromo	ohenol	142		200		70.9	39.51	154.49	142	0	0	
Surr: 4-Terphenyl-d1	4	87.7		100		87.7	47.51	141.49	83.4	0	0	



# QC SUMMARY REPORT

WO#: 2306188

12-Jul-23

Client:McGinley & AsProject:BRN098	sociates, I	nc./UE	ES		TestCoc	e: COE	D_W	
Sample ID: MB-18868			SampType	e: MBLK	TestCode: COD	_w	Units: <b>mg/L</b>	
Client ID: PBW			Batch ID:	18868	TestNo: E410	.4		
Prep Date: 7/5/2023			RunNo:	17389	SeqNo: 5051	20		
Analysis Date: 7/6/2023								
Analyte	Result	POI	SPK Value	SPK Ref Val	%REC LowLimit HighLim	RPD it Ref Val	%RPD_RPDLimit	Qual
Chemical Oxygen Demand (COD)	ND	5	Value					Quui
Sample ID: LCS-18868			SampType	E: LCS	TestCode: COD	w	Units: <b>mg/L</b>	
Client ID: LCSW			Batch ID:	18868	TestNo: E410	.4		
Prep Date: 7/5/2023			RunNo:	17389	SeqNo: 5051	19		
Analysis Date: 7/6/2023								
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC LowLimit HighLim	RPD it Ref Val	%RPD RPDLimit	Qual
Chemical Oxygen Demand (COD)	49.5	5	50	0	99.0 89.51 110.4	9		
Sample ID: 2306133-01AMS			SampType	e MS	TestCode: COC	w	Units: ma/l	
Client ID: BatchQC			Batch ID:	18868	TestNo: <b>F41</b>		0	
Prep Date: 7/5/2023			RunNo:	17389	SeaNo: 5051	24		
Analysis Date: 7/6/2023								
			SPK	SPK		RPD		
Analyte	Result	PQL	Value	Ref Val	%REC LowLimit HighLim	it Ref Val	%RPD RPDLimit	Qual
Chemical Oxygen Demand (COD)	55.1	5	50	8.68	92.9 89.51 110.4	9		
Sample ID: 2306133-01AMSD			SampType	e: MSD	TestCode: COL	_w	Units: <b>mg/L</b>	
Client ID: BatchQC			Batch ID:	18868	TestNo: E410	.4		
Prep Date: 7/5/2023			RunNo:	17389	SeqNo: 5051	25		
Analysis Date: 7/6/2023								
Analvte	Result	PQL	SPK Value	SPK Ref Val	%REC LowLimit HiahLim	RPD it Ref Val	%RPD RPDLimit	Qual
Chemical Oxygen Demand (COD)	53	5	50	8.68	88.7 89.51 110.4	9 55.1	3.8 20	S

ND Not Detected at the Reporting Limit



# QC SUMMARY REPORT

WO#: 2306188

12-Jul-23

Client: Project:	McGinley & Ass BRN098	sociates, I	nc./UE	ES			r	FestCode:	CYAI	NIDE T	OTAL V	v
Sample ID: MB-18	852			SampType			TestCor	e CYANII		Linits:	ma/l	
	002				18852		TestNo	Cyanid		01110.	iiig/L	
				Datch ID.	10052		Contraction	504770	6			
Prep Date: 6/	29/2023			RUNNO:	1/3/3		Seqivo:	504773				
Analysis Date: 6/	30/2023	Result	PQI	SPK Value	SPK Ref Val	%RFC	l owl imit	Highl imit	RPD Ref Val	%RPD	RPDI imit	Qual
Cvanide, Total		ND	0.1	T GIGO	1101 101	/01120		·g	iter rui	, or a - 2		444
- <b>,</b> ,												
Sample ID: LCS-1	8852			SampType	e: LCS		TestCo	de: CYANII	DE_TO	Units:	mg/L	
Client ID: LCSW				Batch ID:	18852		TestNo:	Cvanid	e _		•	
Prep Date: 6/	29/2023			RunNo <sup>.</sup>	17373		SeaNo <sup>.</sup>	504772				
Analysis Data: 6/	20/2022						004.10					
Analyte	50/2025	Result	PQI	SPK Value	SPK Ref Val	%RFC	l owl imit	Highl imit	RPD Ref Val	%RPD	RPDI imit	Qual
Cvanide Total		0 156	0.1	0.15	0	104	90	110		Jord D	TH DEITH	Quui
		0.100	0.1	0.10	0	101	00	110				
Sample ID: LCSD-	18852			SampType	: LCSD		TestCo	de: CYANII	DE_TO	Units:	mg/L	
Client ID: LCSS	)2			Batch ID:	18852		TestNo:	Cyanid	e			
Prep Date: 6/2	29/2023			RunNo:	17373		SeqNo:	504775				
Analysis Date: 6/	30/2023											
				SPK	SPK				RPD			
Analyte		Result	PQL	Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total		0.156	0.1	0.15	0	104	90	110	0.156	0.22	14	



QC SUMMARY REPORT

WO#: 2306188

12-Jul-23

Client:McGinleyProject:BRN098	& Associates,	Inc./UI	ES			]	TestCode:	MET	ALS_T	_200_8	
Sample ID: MB-18879			SampType	: MBLK		TestCod	le: METAL	S_T_2	Units:	mg/L	
Client ID: PBW			Batch ID:	18879		TestNo:	E200.8				
Pren Date: 7/6/2023			RunNo	17410		SeaNo	505538				
Analysis Date: 7/10/2023			i tuin to:	11410		eoq. to:	000000				
Analysis Date. 1/10/2023			SPK	SPK				RPD			
Analyte	Result	PQL	Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit	Qual
Boron (B)	ND	0.1									
Chromium (Cr)	ND	0.01									
Manganese (Mn)	ND	0.005									
Iron (Fe)	ND	0.3									
Nickel (Ni)	ND	0.01									
Copper (Cu)	ND	0.02									
Zinc (Zn)	ND	0.1									
Arsenic (As)	ND	0.005									
Selenium (Se)	ND	0.005									
Silver (Ag)	ND	0.005									
Cadmium (Cd)	ND	0.002									
Barium (Ba)	ND	0.005									
Lead (Pb)	ND	0.005									
Sample ID: LCS-18879			SampType	: LCS		TestCod	le: METAL	S_T_2	Units:	mg/L	
Client ID: LCSW			Batch ID:	18879		TestNo:	E200.8				
Prep Date: 7/6/2023			RunNo:	17410		SeqNo:	505539				
Analysis Date: 7/10/2023											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HiahLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron (B)	1.26	0.1	1.25	0	100	84.51	115.49				
Chromium (Cr)	0.263	0.01	0.25	0	105	84.51	115.49				
Manganese (Mn)	0.246	0.005	0.25	0	98.3	84.51	115.49				
Iron (Fe)	2 49	0.3	2.5	0	99.6	84.51	115 49				
Nickel (Ni)	0 258	0.01	0.25	0	103	84 51	115.49				
Copper (Cu)	0.200	0.01	0.20	0	100	84 51	115.49				
Zinc (Zn)	0.202	0.02	0.20	0	90.8	84 51	115.40				
Arsonic (As)	0.245	0.005	0.25	0	103	84.51	115.40				
Selenium (Se)	0.251	0.005	0.25	0	103	84.51	115.49				
Selenium (Se)	0.201	0.005	0.25	0	07.6	04.51 94.51	115.49				
Silver (Ag)	0.244	0.005	0.25	0	97.0	04.01	115.49				
Caumum (Cu)	0.230	0.002	0.25	0	95.Z	04.01	115.49				
Banum (Ba)	0.249	0.005	0.25	0	99.0	04.01	115.49				
Lead (PD)	0.248	0.005	0.25	0	99.0	84.51	115.49				
Sample ID: 2306185-01AMS				: MS		TestCod	le: METAL	S T 2	Units:	ma/L	
Client ID: BatchQC			Batch ID:	18879		TestNo:	E200.8			<b>J</b> –	
Prep Date: 7/6/2023			RunNo:	17410		SeaNo	505541				
Analysis Date: 7/10/2023											
, maryono Dato. 1/10/2023			SPK	SPK				RPD			
Analyte	Result	PQL	Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit	Qual
Analyte       Qualifiers:     B     Analyte detection       ND     Not Detected at	Result ed in the associated at the Reporting Lit	PQL d Methoo mit	SPK Value I Blank	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit Page 9	Q of :



## **QC SUMMARY REPORT**

WO#: 2306188

12-Jul-23

Client:	McGinley & Associates, Inc./UES
Project:	BRN098

TestCode: METALS\_T\_200\_8

Sample ID: 2306185-01AMS			SampType	e: MS		TestCo	de: METAL	S_T_2	Units:	mg/L	
Client ID: BatchQC			Batch ID:	18879		TestNo:	E200.8				
Prep Date: 7/6/2023			RunNo:	17410		SeqNo:	505541				
Analysis Date: 7/10/2023											
			SPK	SPK				RPD			<u> </u>
Analyte	Result	PQL	Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit	Qual
Boron (B)	1.94	0.1	1.25	0.764	94.1	69.51	130.49				
Chromium (Cr)	0.251	0.01	0.25	0	100	69.51	130.49				
Manganese (Mn)	1.73	0.005	0.25	1.56	66.1	69.51	130.49				S
Iron (Fe)	5.47	0.3	2.5	3.14	93.4	69.51	130.49				
Nickel (Ni)	0.241	0.01	0.25	0	96.5	69.51	130.49				
Copper (Cu)	0.236	0.02	0.25	0	94.3	69.51	130.49				
Zinc (Zn)	0.282	0.1	0.25	0	113	69.51	130.49				
Arsenic (As)	0.302	0.005	0.25	0.0547	98.8	69.51	130.49				
Selenium (Se)	0.242	0.005	0.25	0	96.8	69.51	130.49				
Silver (Ag)	0.23	0.005	0.25	0	91.9	69.51	130.49				
Cadmium (Cd)	0.231	0.002	0.25	0	92.4	69.51	130.49				
Barium (Ba)	1.32	0.005	0.25	1.15	70.0	69.51	130.49				
Lead (Pb)	0.238	0.005	0.25	0	95.2	69.51	130.49				

Sample ID: 2306185-01AMSD		SampTyp	e: MSD		TestCo	de: METAL	S_T_2	Units:	mg/L	
Client ID: BatchQC		Batch ID:	18879		TestNo:	E200.8				
Prep Date: 7/6/2023		RunNo:	17410		SeqNo:	505542				
Analysis Date: 7/10/2023										
		SPK	SPK				RPD			
Analyte R	lesult PQ	L Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit	Qual
Boron (B)	2 0.	1 1.25	0.764	98.8	69.51	130.49	1.94	3	20	
Chromium (Cr)	0.257 0.0	1 0.25	0	103	69.51	130.49	0.251	2.3	20	
Manganese (Mn)	1.76 0.00	5 0.25	1.56	77.5	69.51	130.49	1.73	1.6	20	
Iron (Fe)	5.66 0.	3 2.5	3.14	101	69.51	130.49	5.47	3.3	20	
Nickel (Ni)	0.244 0.0	1 0.25	0	97.4	69.51	130.49	0.241	0.99	20	
Copper (Cu)	0.237 0.0	2 0.25	0	94.9	69.51	130.49	0.236	0.65	20	
Zinc (Zn)	0.294 0.	1 0.25	0	118	69.51	130.49	0.282	4.2	20	
Arsenic (As)	0.307 0.00	5 0.25	0.0547	101	69.51	130.49	0.302	1.6	20	
Selenium (Se)	0.25 0.00	5 0.25	0	99.8	69.51	130.49	0.242	3.1	20	
Silver (Ag)	0.237 0.00	5 0.25	0	94.7	69.51	130.49	0.23	2.9	20	
Cadmium (Cd)	0.234 0.00	2 0.25	0	93.8	69.51	130.49	0.231	1.5	20	
Barium (Ba)	1.37 0.00	5 0.25	1.15	87.8	69.51	130.49	1.32	3.3	20	
Lead (Pb)	0.24 0.00	5 0.25	0	95.8	69.51	130.49	0.238	0.62	20	



QC SUMMARY REPORT

WO#: 2306188

12-Jul-23

Client: Project:	McGinley & As BRN098	sociates,	Inc./UE	ES			ŗ	<b>FestCode:</b>	MET	ALS T	6020	
Sample ID: MB-1	18887				MBLK		TestCo	de: METAL	S T 6	Units:	ma/L	
				Batch ID:	18887		TestNo	SW602	0			
					10007			50002	0			
Prep Date:	////2023			RUNNO:	17410		Seqivo:	505533				
Analysis Date:	7/10/2023											
Analyte		Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium (Cr)		ND	0.01									
Arsenic (As)		ND	0.005									
Selenium (Se)		ND	0.005									
Silver (Ag)		ND	0.005									
Cadmium (Cd)		ND	0.002									
Barium (Ba)		ND	0.005									
Lead (Pb)		ND	0.005									
Sample ID: LCS	-18887			SampType	LCS		TestCoo	de: METAL	.S_T_6	Units:	mg/L	
Client ID: LCS	W			Batch ID:	18887		TestNo:	SW602	0			
Prep Date:	7/7/2023			RunNo:	17410		SeqNo:	505534				
Analysis Date:	7/10/2023											
Analyte		Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium (Cr)		0.259	0.01	0.25	0	104	79.51	120.49				
Arsenic (As)		0.257	0.005	0.25	0	103	79.51	120.49				
Selenium (Se)		0.244	0.005	0.25	0	97.4	79.51	120.49				
Silver (Ag)		0.245	0.005	0.25	0	98.0	79.51	120.49				
Cadmium (Cd)		0.243	0.002	0.25	0	97.3	79.51	120.49				
Barium (Ba)		0.247	0.005	0.25	0	98.7	79.51	120.49				
Lead (Pb)		0.247	0.005	0.25	0	98.7	79.51	120.49				
Sample ID: LCS	D-18887			SampType	LCSD		TestCoo	de: METAL	.S_T_6	Units:	mg/L	
Client ID: LCS	S02			Batch ID:	18887		TestNo:	SW602	0			
Prep Date:	7/7/2023			RunNo:	17410		SeqNo:	505535				
Analysis Date:	7/10/2023											
Analyte		Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium (Cr)		0.26	0.01	0.25	0	104	79.51	120.49	0.259	0.13	20	
Arsenic (As)		0.254	0.005	0.25	0	102	79.51	120.49	0.257	0.87	20	
Selenium (Se)		0.254	0.005	0.25	0	102	79.51	120.49	0.244	4.1	20	
Silver (Ag)		0.24	0.005	0.25	0	96.2	79.51	120.49	0.245	1.9	20	
Cadmium (Cd)		0.237	0.002	0.25	0	94.7	79.51	120.49	0.243	2.7	20	
Barium (Ba)		0.246	0.005	0.25	0	98.3	79.51	120.49	0.247	0.42	20	
Lead (Pb)		0.246	0.005	0.25	0	98.2	79.51	120.49	0.247	0.43	20	



# QC SUMMARY REPORT

WO#: 2306188

12-Jul-23

Client:	McGinley & As	ssociates, I	nc./UE	ES			r	F4Cl		HEM	<b>XX</b> 7	
Project:	DRIN098						-	TestCode:	U&G	_HEM_		
Sample ID: MB-18	833			SampType	e: MBLK		TestCo	de: <b>O&amp;G_H</b>	IEM_	Units:		
Client ID: PBW				Batch ID:	18833		TestNo:	E1664E	3	E1664	в	
Prep Date: 6/2	27/2023			RunNo:	17353		SeqNo:	504246				
Analysis Date: 6/2	27/2023											
Analyte		Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease, HEM		ND	5									
Sample ID: LCS-18	8833			SampType	e: LCS		TestCo	de: O&G_H	IEM_	Units:	mg/L	
Client ID: LCSW				Batch ID:	18833		TestNo:	E1664E	3	E1664	в	
Prep Date: 6/2	27/2023			RunNo:	17353		SeqNo:	504247				
Analysis Date: 6/2	27/2023											
Analyte		Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease, HEM		37.3	5	40	0	93.3	80.1	108				
Sample ID: LCSD-	18833			SampType	e: LCSD		TestCo	de: O&G_H	IEM_	Units:	mg/L	
Client ID: LCSS	)2			Batch ID:	18833		TestNo:	E1664E	3	E1664	в	
Prep Date: 6/2	27/2023			RunNo:	17353		SeqNo:	504248				
Analysis Date: 6/2	27/2023											
A solution		Decet		SPK	SPK		1		RPD			
		Result	FQL	value	Ref val	%REC			Ker val	%KPD		Qual



# QC SUMMARY REPORT

WO#: 2306188

12-Jul-23

Client:McGinley & AsProject:BRN098	sociates, I	nc./UE	ËS			Т	estCode:	SULF	FIDE_W		
Sample ID: MB-18865			SampType	e: MBLK		TestCod	e: SULFIC	DE_W	Units:	mg/L	
Client ID: PBW			Batch ID:	8865		TestNo:	SM 450	0-S2			
Prep Date: 7/5/2023			RunNo:	17385		SeqNo:	505064				
Analysis Date: 7/5/2023											
Analyte	Result	POI	SPK Value	SPK Ref Val	%REC Lo	wl imit	Highl imit	RPD Ref Val	%RPD	RPDI imit	Qual
Sulfide	ND	0.1	value	iter var	/inteo et		riigneinni		/ortin		Quai
Sample ID: LCS-18865			SampType	e: LCS		TestCod	e: SULFIC	E_W	Units:	mg/L	
Client ID: LCSW			Batch ID:	8865		TestNo:	SM 450	0-S2			
Prep Date: 7/5/2023			RunNo:	17385		SeqNo:	505063				
Analysis Date: 7/5/2023											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC Lo	owLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide	0.541	0.1	0.5	0	108	89.5	110.4				
Sample ID: 2306188-02AMS			SampType	e: <b>MS</b>		TestCod	e: SULFIC	DE_W	Units:	mg/L	
Client ID: BRN098-WW-001MS			Batch ID:	8865		TestNo:	SM 450	0-S2			
Prep Date: 7/5/2023			RunNo:	17385		SeqNo:	505067				
Analysis Date: 7/5/2023											
Analyte	Recult		SPK Value	SPK Ref Val	%REC La	wl imit	Highl imit	RPD Ref Val	%PPD	RPDI imit	Qual
Sulfide	1.07	0.1	0.5	0.506	113	45.9	11911211111t		/ortin		Quai
Sample ID: 2306188-02AMSD			SampType	e: <b>MSD</b>		TestCod	e: SULFIC	E_W	Units:	mg/L	
Client ID: BRN098-WW-001MSD			Batch ID:	8865		TestNo:	SM 450	0-S2			
Prep Date: 7/5/2023			RunNo:	17385		SeqNo:	505068				
Analysis Date: 7/5/2023											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC Lo	owLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide	1.05	0.1	0.5	0.506	109	45.9	127	1.07	1.8	8.22	



# QC SUMMARY REPORT

WO#: 2306188

12-Jul-23

Client:	McGinley & Asso	ociates, In	nc./UE	ES								
Project:	BRN098						]	TestCode:	TSS_	W		
Sample ID: MBLK-	18858			SampType	: MBLK		TestCoo	le: TSS_W		Units:	mg/L	
Client ID: PBW				Batch ID:	18858		TestNo:	Solids				
Prep Date: 6/3	30/2023			RunNo:	17387		SeqNo:	505092				
Analysis Date: 6/3	30/2023											
Analyte		Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Susper	nded (TSS)	ND	2.5									
Sample ID: LCS-18	858			SampType	LCS		TestCoo	le: TSS_W		Units:	mg/L	
Client ID: LCSW				Batch ID:	18858		TestNo:	Solids				
Prep Date: 6/3	30/2023			RunNo:	17387		SeqNo:	505093				
Analysis Date: 6/3	30/2023											
				SPK	SPK				RPD			
Analyte		Result	PQL	Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit	Qual
Solids, Total Susper	nded (TSS)	101	2.5	100	0	101	56	104				


**Environment Testing** 

# **ANALYTICAL REPORT**

# **PREPARED FOR**

Attn: Kathy Murray Alpha Analytical, Inc. 255 Glendale Ave. Suite 21 Sparks, Nevada 89431-5778 Generated 7/5/2023 6:14:19 AM

JOB DESCRIPTION

2306188

## **JOB NUMBER**

570-143500-1

Eurofins Calscience 2841 Dow Avenue, Suite 100 Tustin CA 92780







## **Eurofins Calscience**

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

## Authorization

Generated 7/5/2023 6:14:19 AM

Authorized for release by Don Burley, Senior Project Manager Donald.Burley@et.eurofinsus.com (657)212-3033

# **Table of Contents**

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
QC Sample Results	8
QC Association Summary	9
Lab Chronicle	10
Certification Summary	11
Method Summary	12
Sample Summary	13
Chain of Custody	14
Receipt Checklists	16

Page 17 of 39

## **Definitions/Glossary**

Client: Alpha Analytical, Inc. Project/Site: 2306188

Job ID: 570-143500-1

Glossary		 2
Abbreviation	These commonly used abbreviations may or may not be present in this report.	 J
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	5
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	8
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	9
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
TNTC	Too Numerous To Count	

#### Job ID: 570-143500-1

#### Laboratory: Eurofins Calscience

#### Narrative

#### Job Narrative 570-143500-1

#### Receipt

The sample was received on 6/30/2023 9:20 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

#### HPLC/IC

Method 8315A: The following sample was diluted due to the nature of the sample matrix: MGA 2306188-02A (570-143500-1). Elevated reporting limits (RLs) are provided.

Method 8315A: The reference method requires samples to be preserved to a pH of 5-9. The following sample was received with insufficient preservation at a pH of 11: MGA 2306188-02A (570-143500-1). The sample was preserved to the appropriate pH in the laboratory.

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

## **Detection Summary**

		Detect	ion Sumn	nary							
Client: Alpha Analytical, Inc. Project/Site: 2306188						Job ID	): 570-143500-1	2			
Client Sample ID: MGA 23	06188-02		Lab Sample ID: 570-143500-1								
Analyte	Result	Qualifier	RL		Dil Fac	D Method	Prep Type				
romaidenyde	120		50	ug/L	ļ	00104	Iotai/INA	-			
								5			
								7			
								8			
								9			
								13			

Job ID: 570-143500-1

5 6

#### Method: SW846 8315A - Carbonyl Compounds by HPLC

Client Sample ID: MGA 2306188 Date Collected: 06/29/23 09:30	3-02A			Lab Sam	ple ID: 570-14 Matrix:	3500-1 Water		
Date Received: 06/30/23 09:20								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Formaldehyde	120		50	ug/L		06/30/23 10:22	07/03/23 13:28	1

Euroffins Calscience

Job ID: 570-143500-1

#### Method: 8315A - Carbonyl Compounds by HPLC

Lab Sample ID: MB 570-342043/1-A Matrix: Water Analysis Batch: 342566	MR	MB						Clie	ent Samp	ole ID: Meth Prep Type Prep Batc	nod I : Tot h: 34	Blank al/NA 42043
Analyte	Result	Qualifier		RL		Unit	ſ	р р	repared	Analyzed	I	Dil Fac
Formaldehyde	ND			10		ug/L		06/3	30/23 09:22	07/03/23 11:	55	1
Lab Sample ID: LCS 570-342043/2-A Matrix: Water Analysis Batch: 342566	•		Onites		1.00	1.00	Clie	nt Sa	mple ID:	Lab Contro Prep Type Prep Batc	ol Sa : Tot h: 34	mple al/NA 42043
Analyte			Spike		LUS	LUS Qualifier	Unit	п	%Pac	%Rec Limite		
Formaldehyde			50.0		49.95		ug/L		100	75 - 124		
Lab Sample ID: LCSD 570-342043/3 Matrix: Water Analysis Batch: 342566	<b>-</b> A					C	lient Sa	mple	ID: Lab	Control Sa Prep Type Prep Batc	mple : Tot h: 34	e Dup al/NA 42043
			Spike		LCSD	LCSD				%Rec		RPD
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Formaldehyde			50.0		49.69		ug/L		99	75 - 124	1	20

## HPLC/IC

#### Prep Batch: 342043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-342043/1-A	Method Blank	Total/NA	Water	8315A_W_Prep	
LCS 570-342043/2-A	Lab Control Sample	Total/NA	Water	8315A_W_Prep	
LCSD 570-342043/3-A	Lab Control Sample Dup	Total/NA	Water	8315A_W_Prep	
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-143500-1	MGA 2306188-02A	Total/NA	Water	8315A	342043
MB 570-342043/1-A	Method Blank	Total/NA	Water	8315A	342043
LCS 570-342043/2-A	Lab Control Sample	Total/NA	Water	8315A	342043
LCSD 570-342043/3-A	Lab Control Sample Dup	Total/NA	Water	8315A	342043

#### Client Sample ID: MGA 2306188-02A Date Collected: 06/29/23 09:30 Date Received: 06/30/23 09:20

-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8315A_W_Prep			20 mL	1.0 mL	342043	06/30/23 10:22	PQS1	EET CAL 4
Total/NA	Analysis	8315A		1			342566	07/03/23 13:28	URMH	EET CAL 4
	Instrumen	t ID: HPLC5A								

#### Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Job ID: 570-143500-1

Matrix: Water

Lab Sample ID: 570-143500-1

Euroffins Calscience

Client: Alpha Analytical, Inc. Project/Site: 2306188

Oregon

Job ID: 570-143500-1

#### Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

NELAP

Authority	Pro	gram	Identification Number	Expiration Date
California	Stat	е	3082	07-31-24
Nevada	Stat	e	CA00111	07-31-24
The following analyte the agency does not	s are included in this report offer certification.	, but the laboratory is	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8315A	8315A_W_Prep	Water	Formaldehyde	

4175

02-02-24

Fu	Pag	25	of	39	en	ce
сu	I O HI	15 0	Jais	SU	en	CE

#### **Method Summary**

#### Client: Alpha Analytical, Inc. Project/Site: 2306188

Method	Method Description	Protocol	Laboratory
8315A	Carbonyl Compounds by HPLC	SW846	EET CAL 4
8315A_W_Prep	Liquid-Liquid Extraction (Carbonyl Compounds)	SW846	EET CAL 4

#### **Protocol References:**

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

#### Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

## Sample Summary

Client: Alpha Analytical, Inc. Project/Site: 2306188

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-143500-1	MGA 2306188-02A	Water	06/29/23 09:30	06/30/23 09:20

Page 27 of 39



#### **CHAIN OF CUSTODY RECORD**

\*Please reference the Work Order Number on all reports and invoices. \*Also please include the dates of analysis and detection limits. Please send the report to Alpha Analytical (Sparks). Attention To Kathy Murray (kathy@alpha-analytical.com).

#### 143500 Alpha Analytical, Inc.

255 Glendale Ave, #21 Sparks, Nevada 89431 TEL: (775) 355-1044

FAX: (775) 355-0406

**Report Due** 

Sampled by:

								ON:	10-Jul	-23	AP							
SUB CONTRATOR: CAL	ONTRATOR: CAL COMPANY: Eurofins Calscience, LLC					SPECIAL INSTRUCTIONS / COMMENTS:												
ADDRESS: 2841 Dow Ave Suite 100	)				Form	aldenyo	1e. NV	Sample.										
CITY, STATE, ZIP: Tustin, CA 92780																		
PHONE: (714) 895-5494	FAX:	(714) 89	94-7501			ANAL	YTICAL	PARAMET	ERS									
ACCOUNT #:	EMAIL:								-									
2306188				NUMBER	OTHER													
ITEM # SAMPLE ID Client Sample ID	Bottle Type	MATRIX	DATE COLLECTED	OF ERS													1	
1 MGA 2306188-02A BRN098-WW-001	OTHER	Aqueous	6/29/2023 9:30:00 AM	1	V								1					1



A				1. 9	0/1.8	SCL	
Relinquished By:	Date:	2 J <sup>ime</sup> 137 Time:	Received By: Received By:	Date: Date: Date:	Time: Time:	Comments:	Page 28 of 39
				Page	14 of 16		7/5/2023

13

Page 29 of 39

7/5/2023

13



570-143500 Waybill

Loc: 570 **143500**  Client: Alpha Analytical, Inc.

#### Login Number: 143500 List Number: 1 Creator: Vitente, Precy

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
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 (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
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	

List Source: Eurofins Calscience



July 12, 2023 Workorder **23061485** 

Kathy Murray Alpha Analytical 255 Glendale Ave, Suite 21 Sparks, NV 89431

Project: 2306188 / MGA 2306188 - 02A / BRN098 - WW - 001

Dear Kathy Murray:

It is the policy of SGS Silver State Analytical Laboratory - Reno to strictly adhere to a comprehensive Quality Assurance Plan that ensures the data presented in this report are both accurate and precise. SGS Silver State Analytical Laboratory - Reno maintains accreditation in the State of Nevada (NV-00015) and the State of California (ELAP 2990).

The data presented in this report was obtained from the analysis of samples received under a chain of custody. Unless otherwise noted below, samples were received in good condition, properly preserved and within the hold time for the requested analyses. Any anomalies associated with the analysis of the samples have been flagged in the Analytical Report with an appropriate explanation in the Definitions & Qualifiers.

Sincerely,

alfed

Carly Wood Laboratory Director 1135 Financial Blvd Reno, NV 89502

CCC		SGS Silver 1135 Finar	: State Analytical L ncial Blvd	aboratories		An	alytical l	Report
<u> </u>		Reno, NV 3 (775) 857-2 www.ssala	89502 2400 bs.com			Work Date	corder#: Reported:	23061485 7/12/2023
Client:	Alpha An	alytical				Sample	ed By: AP	
Project Name: PO #:	2306188	/ MGA 2306188 - 02A	A / BRN098 - WV	W - 001				
Laboratory Accre	editation N	umber: NV015/CA29	990					
Laboratory ID		<b>Client Sample ID</b>			Date/Time Samj	oled	Date Receiv	ed
23061485-01		MGA 2306188 - 02	A / BRN098 - W	/W - 0	06/29/2023 9:30		6/29/2023	
Parameter		Method	Result	Units	PQL	Analyst	Date/Tim Analyzeo	e Data 1 Flag
Biochemical Oxygen	Demand	SM 5210 B	540	mg/L	400	AC	06/30/2023 10	6:13



SGS Silver State Analytical Laboratories 1135 Financial Blvd Reno, NV 89502 (775) 857-2400 www.ssalabs.com

## **Quality Control Report**

WO#:

23061485 7/12/2023

Analysis:BOD-5Method:SM 5210	B						Ba	tch ID:	<b>R80</b>	230	
Dupl	icate										
RunID: 80230 Seql	No 209644	9 Units	s: mg/L								
Analysis Date: 6/30/2023 4:0	0:00 PM	Anal	yst: AC								
Analyte	Result	Rep Limit	Rep Qua	al R	PD	Sample Val	ue				
Biochemical Oxygen Demand	50.0	0 40.	0	0.03	392157		52				
Method	<u>I Blank</u>	0	······································								
RuniD: 80230 Seqi	No 209643	9 Units	s: mg/L								
Analysis Date: 6/30/2023 8:0	0:00 AM	Anal	yst: AC								
Analyte	Result	Rep Limit	t Rep Qua	al							
Biochemical Oxygen Demand	< 2	2	2								
Laboratory Conti	ol Sample (	(LCS)									
Runid: 80230 Seqi	NO 209644	2 Units	s: mg/L								
Analysis Date: 6/30/2023 8:0	0:00 AM	Anal	yst: AC								
Analyte	LCS LO	CS Result	LCS %	LCSD Spike	LCSD Result	LCSD %	RPD	RPD Limit	Low	High Limit	Qual
	Added		Recovery	Added	Nesun	Recovery		Luur	Linin	Linne	
Biochemical Oxygen	198.0	192	97.2	198.0	162	82.1	16.9	30	84.6	115.4	S
Demand											
Laboratory Cont	ol Sample (	(LCS)									
RunID: 80230 Seql	No 209644	3 Units	s: mg/L								
Analysis Date: 6/30/2023 8:0	0:00 AM	Anal	yst: AC								
Analyte	LCS LO Spike Added	CS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Biochemical Oxygen Demand	198.0	162	82.1	198.0	162	82.1	16.9	30	84.6	115.4	S



# CHAIN OF CUSTODY RECORD

\*Please reference the Work Order Number on all reports and invoices. \*Also please include the dates of analysis and detection limits. Please send the report to Alpha Analytical (Sparks). Attention To Kathy Murray (kathy@alpha-analytical.com).

	Alpha
	Anal
n 1 11	ytical,
1 1 1 1 1	Inc.

255 Glendale Ave, #21 TEL: (775) 355-1044 FAX: (775) 355-0406 Page 34 of 39 Sparks, Nevada 89431

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		-	

port Due Sampled : 10-Jul-23 AP	0N	Re
Sampled AP	: 10-Jul-23	port Due
	AP	Sampled

SUS SILVEL STATE LADOLATOLIES	COC Cilicon State Tabantaning	2306485
BOD NV Sample	SPECIAL INSTRUCTIONS / COMMENTS:	ON: 10-Jul-23

1 MGA 2306188-02A BRN098-WW-001

1LPL-U

Aqueous

6/29/2023 9:30:00 AM

H 2





## **Definitions & Qualifiers**

WO#:23061485Date:7/12/2023

Definitions:

LCS: Laboratory Control Sample; prepared by adding a known mass of target analytes to a specified amount of de-ionized water and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: LCS Duplicate; used to calculate both Accuracy (%REC) and Precision (%RPD)

MBLK: Method Blank; a sample of similar matrix that is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses.

MS: Matrix Spike; prepared by adding a known mass of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: Matrix Spike Duplicate; used to calculate both Accuracy (%REC) and Precision (%RPD)

RPD: Relative Percent Difference; comparison between sample and duplicate and/or MS and MSD.

PQL: Practical Quantitation Limit; the limit to which data is quantitated for reporting.

MDL: Method Detection Limit; the limit to which the instrument can reliably detect.

MCL: Maximum Contaminant Level; value set according to EPA guidelines.

Qualifiers:

- \* Analyte exceeds Safe Drinking Water Act MCL, does not meet drinking water standards.
- C Analyte value below Safe Drinking Water Act MCL, does not meet drinking water standards.
- B Analyte found above the PQL in associated method blank.
- G Calibration blank analyte detected above PQL.
- H Sample analyzed beyond holding time for this parameter.
- J Estimated Value; Analyte found between MDL and PQL limits.
- L Sample concentration is at least 5 times greater than spike contribution. Spike recovery criteria do not apply.
- R RPD between sample and duplicate sample outside the RPD acceptance limits.
- S Batch MS and/or MSD were outside acceptance limits, batch LCS was acceptable.
- W Sample temperature when recieved was out of limit as specified by method.
- Z Batch LCS and/or LCSD were outside acceptance limits.



## **Definition Only**

WO#: **2306188** Date: **7/12/2023** 

#### **Definitions:**

ND = Not Detected

C = Reported concentration includes additional compounds uncharacteristic of common fuels and lubricants.

D = Reporting Limits were increased due to high concentrations of non-target analytes.

H = Reporting Limits were increased due to the hydrocarbons present in the sample.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K = DRO concentration may include contributions from lighter-end hydrocarbons (e.g. gasoline) that elute in the DRO range.

L = DRO concentration may include contributions from heavier-end hydrocarbons (e.g. motor oil) that elute in the DRO range.

O = Reporting Limits were increased due to sample foaming.

V = Reporting Limits were increased due to high concentrations of target analytes.

X = Reporting Limits were increased due to sample matrix interferences.

Z = DRO concentration may include contributions from lighter-end (e.g. gasoline) and heavier-end (e.g. motor oil) hydrocarbons that elute in the DRO range.

S50 = The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The laboratory control sample was acceptable.

S51 = Surrogate recovery could not be determined due to the presence of co-eluting hydrocarbons.

S52 = Surrogate recovery was above laboratory acceptance limits. Probable matrix effect.

S53 = Surrogate recovery was below laboratory acceptance limits. Probable matrix effect.

S54 = Surrogate recovery was below laboratory acceptance limits.

S55 = Surrogate recovery was above laboratory acceptance limits.

#### Report CC's Alisa Prary

Anna Henry

Caitlin Jelle

# **WORKORDER SUMMARY**

#### Alpha Analytical, Inc.

255 Glendale Ave, #21	Sparks, Nevada 89431
TEL: (775) 355-1044	FAX: (775) 355-0406

Report Attention: Caitlin Jelle

Client:

McGinley & Associates, Inc./UES 6995 Sierra Center Parkway Reno, NV 89511 
 TEL:
 7758292245

 FAX:
 7758292213

 ProjectNo:
 BRN098

Date Received: 29-Jun-23

Alnha	Client	Collection		No. of Bottles			Requested Tests								
Sample ID	Sample ID	Matrix [	Date	Alpha	Sub	TAT	245_1	625_W	BOD5_W	COD_W	CYANIDE_TOT AL_W	METALS_T_20 0_8	METALS_T_60 20	Sample Remarks	
MGA2306188-01	BRN098-S-TCLP-001	OTHER	6/29/2023 9:00:00 AM	1	0	6							A - TCLP_7		
MGA2306188-02	BRN098-WW-001	AQ	6/29/2023 9:30:00 AM	7	2	6	A - Hg	A - Special Analyte List : 625 OC Criteria	A - BOD	A - COD	A - Cyanide, Total	A - Special List			

Comments: Formaldehyde subbed to CAL and BOD subbed to SGS.

2	Signature	Print Name	Company	Date/Time
Logged in by:	NAT	Alucia Cribert	Alpha Analytical, Inc.	(2/29/23
	$\bigcirc$			1147

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OP Que 7 of 39

# NV

WorkOrder:MGA2306188Report Due By:10-Jul-23EDD Required:YES

#### Report CC's Alisa Prary

Anna Henry

**Caitlin Jelle** 

# **WORKORDER SUMMARY**

## Alpha Analytical, Inc.

 255 Glendale Ave, #21
 Sparks, Nevada 89431

 TEL: (775) 355-1044
 FAX: (775) 355-0406

Report Attention: Caitlin Jelle

Client:

McGinley & Associates, Inc./UES 6995 Sierra Center Parkway Reno, NV 89511 
 TEL:
 7758292245

 FAX:
 7758292213

 ProjectNo:
 BRN098

Date Received: 29-Jun-23

Alpha	Client		Collection	n No. of Bottles		es	Requested Tests						
Sample ID	Sample ID	Matrix	Date	Alpha	Sub	TAT	OG_HEM_W	OTHER	SULFIDE_W	TSS_W	Sample Remarks		
MGA2306188-01	BRN098-S-TCLP-001	OTHER	6/29/2023 9:00:00 AM	1	0	6							
MGA2306188-02	BRN098-WW-001	AQ	6/29/2023 9:30:00 AM	7	2	6	A - X	A - Formaldehyde	A - Sulfide	A - TSS			

**Comments:** Formaldehyde subbed to CAL and BOD subbed to SGS.

	Signature	Print Name	Company	Date/Time
Logged in by:	alt	Alica chiber	Alpha Analytical, Inc.	6/29/22
2	$\bigcirc$			1147

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OF agth 68 of 39

# NV

WorkOrder:MGA2306188Report Due By:10-Jul-23EDD Required:YES

## **CHAIN OF CUSTODY**

Company: Attn: Address: City, State, Zip: Phone Number:	Billing Information:				Analytical, in Research Analytical, in Filipinonmental 18			Alpha Analytical, Inc. Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431 Satellite Service Centers: Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 Northern NV: 350 7th St., Elko, NV 89801								Phone:         775-355-1044           Fax:         775-355-0406           Phone:         916-366-8089           Phone:         775-388-7043				Page#		
Company: Address: City, State, Zip: Samples Coll	Cons M ected	sultant/ C	ilient Info:	Jo Jo P. ) AR C/	Job a b # b Name: 0. #: A KS (N	BRN 098			Name: Email Ad Phone #: Cell #:	Report A	ttention//	Project M Scarl	lanager:	cam	Jes.	com	EDD Requ Global ID: Data Valida	ation Pack	Deliver	able Info	D: EDF Required? Yes /	
Time Sampled (HHMM) (HHMM) (AM	ate Ipled - IVDD) 29	Matrix (See Key Below) WA AQ	Lab ID Number (For Lat	ن الا الالالا الالالالا الالالالالالال	ON BRNO	Sample Description 18-S-TCLP-00 98-WW-001	51 5	TAT STD	6 # Containers** (See Kay Below)	ON         SBA           Field Filtered?	X TCUPRCBA7	x metalslsee attac	Analy Solfides	John Charles	7 Formaldeby	x 07G	8 Total Phenol	X COD	A BODS	X 755	Remarks	
ADDITIONAL INS I (field sampler) i Sampled By: Relinquished by: Relinquished by:	attest tr (Signatu (Signatu	TIONS: TONS: To the validit Sere/Affiliatio ure/Affiliatio ure/Affiliatio * Key: A	ty and authenticity of this sa PRARY PRARY production (mathematical structure) $production (mathematical structure) production (mathematical structure)production $	mple(s). I am av Date: 6/29 Date: Date:	$\frac{1}{23}$	IISH ering with or intentionally misi Time: 10:36 AM Time: Time: Time:	labeling the : Received Received Received	sample by (Sign by: (Sign	location, o ature/Affili ature/Affili ature/Affili	date or tim iation): iation): 0 - (	e fot collec	tion is cor	Pag er	e 39 o - Plastic	may be gr f 39 S-Si	oil Jar	r legal acti	on. NAC Date: Date: Date: Ilar	445.0636 L[2 V - VOA	(c) (2). 9 h	Time: Time: Time:	

01007



August 02, 2023

Caitlin Jelle McGinley & Associates, Inc./UES 6995 Sierra Center Parkway Reno, NV 89511 TEL: (775) 829-2245 FAX: (775) 829-2213

RE: BRN098

Dear Caitlin Jelle:

Order No.: MGA2307117

The result of this report apply to the sample(s) as received.

There were no problems with the analytical events associated with this report unless noted.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Kandy Sandner

Randy Gardner Laboratory Director 255 Glendale Ave, #21 Sparks, Nevada 89431



## **Analytical Report**

WO#: MGA2307117 Report Date: 8/2/2023

#### **CLIENT:** McGinley & Associates, Inc./UES

**Project: BRN098** 

Lab ID: 2307117-01

#### Client Sample ID: BRN098-WW-002

Collection Date: 7/24/2023 10:15:00 AM

#### Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	Date Analyzed	Method	
Mercury (Hg)	0.014	0.0010		mg/L	7/27/2023	EPA 245.1	
Phenol	ND	20		µg/L	7/28/2023	EPA 625.1	
2-Chlorophenol	ND	20		µg/L	7/28/2023	EPA 625.1	
2-Nitrophenol	ND	20		µg/L	7/28/2023	EPA 625.1	
2,4-Dimethylphenol	ND	20		µg/L	7/28/2023	EPA 625.1	
2,4-Dichlorophenol	ND	20		µg/L	7/28/2023	EPA 625.1	
Hexachlorobutadiene	ND	40		µg/L	7/28/2023	EPA 625.1	
2,4,6-Trichlorophenol	ND	20		µg/L	7/28/2023	EPA 625.1	
2,4-Dinitrophenol	ND	200		µg/L	7/28/2023	EPA 625.1	
4-Nitrophenol	ND	100		µg/L	7/28/2023	EPA 625.1	
4,6-Dinitro-2-methylphenol	ND	200		µg/L	7/28/2023	EPA 625.1	
Pentachlorophenol	ND	100		µg/L	7/28/2023	EPA 625.1	
Surr: 2-Fluorophenol	29	31-130	S54	%Rec	7/28/2023	EPA 625.1	
Surr: Phenol-d5	23	18-130		%Rec	7/28/2023	EPA 625.1	
Surr: Nitrobenzene-d5	60	41-131		%Rec	7/28/2023	EPA 625.1	
Surr: 2-Fluorobiphenyl	64	41-130		%Rec	7/28/2023	EPA 625.1	
Surr: 2,4,6-Tribromophenol	74	40-154		%Rec	7/28/2023	EPA 625.1	
Surr: 4-Terphenyl-d14	95	48-141		%Rec	7/28/2023	EPA 625.1	
NOTES:							
Reporting Limit(s) increased due to	o sample matrix	k interferences	i.				
Chemical Oxygen Demand (COD)	2,200	250		mg/L	7/26/2023	EPA 410.4	
Cyanide, Total	ND	0.10		mg/L	7/28/2023	SM4500-CN C,E	
Boron (B)	0.43	0.10		mg/L	7/27/2023	EPA 200.8	
Chromium (Cr)	0.23	0.010		mg/L	7/27/2023	EPA 200.8	
Manganese (Mn)	0.016	0.0050		mg/L	7/27/2023	EPA 200.8	
Iron (Fe)	0.37	0.30		mg/L	7/27/2023	EPA 200.8	
Nickel (Ni)	ND	0.010		mg/L	7/27/2023	EPA 200.8	
Copper (Cu)	0.030	0.020		mg/L	7/27/2023	EPA 200.8	
Zinc (Zn)	0.23	0.10		mg/L	7/27/2023	EPA 200.8	
Arsenic (As)	ND	0.0050		mg/L	7/27/2023	EPA 200.8	
Selenium (Se)	ND	0.0050		mg/L	7/27/2023	EPA 200.8	
Silver (Ag)	ND	0.0050		mg/L	7/27/2023	EPA 200.8	
Cadmium (Cd)	ND	0.0020		mg/L	7/27/2023	EPA 200.8	
Barium (Ba)	0.30	0.0050		mg/L	7/27/2023	EPA 200.8	
Lead (Pb)	0.24	0.0050		mg/L	7/27/2023	EPA 200.8	
Oil & Grease, HEM	17	5.0		mg/L	7/31/2023	EPA 1664B	
Sulfide	0.46	0.10		mg/L	7/26/2023	SM 4500-S2 D	
Solids, Total Suspended (TSS)	27	2.5		mg/L	7/26/2023	SM 2540 D	



## QC SUMMARY REPORT

WO#: 2307117

02-Aug-23

Client: Project:	McGinley & Associates BRN098	s, Inc./UI	ES			]	FestCode:	245_1			
Sample ID: MB-1898	37		SampType	e: MBLK		TestCo	de: <b>245_1</b>		Units:	mg/L	
Client ID: PBW			Batch ID:	18987		TestNo:	E245.1		E245.1	I	
Prep Date: 7/27	/2023		RunNo:	17504		SeqNo:	507274				
Analysis Date: 7/27	//2023										
Apolyto	Posul		SPK	SPK Bof Vol		Low/ imit	Highl imit	RPD Rof Val	0/ DDD	PDDI imit	Qual
Mercury (Hg)	N		Value	Rei Vai	%REC	LOWLIIIII	HIGHTIN	Rei Vai	70KFD	KFULIIIII	Quai
moloury (Hg)		0.001									
Sample ID: LCS-189	87		SampType	e: LCS		TestCo	de: <b>245_1</b>		Units:	mg/L	
Client ID: LCSW			Batch ID:	18987		TestNo:	E245.1		E245.1	l	
Prep Date: 7/27	/2023		RunNo:	17504		SeqNo:	507275				
Analysis Date: 7/27	/2023										
Analyte	Resu	t PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury (Hg)	0.001	7 0.001	0.0015	0	113	85	115				
Sample ID: 2307096	-05AMS		SampType	e: <b>MS</b>		TestCoo	de: 245_1		Units:	mg/L	
Client ID: BatchQ0	2		Batch ID:	18987		TestNo:	E245.1		E245.1		
Prep Date: 7/27	/2023		RunNo:	17504		SeqNo:	507281				
Analysis Date: 7/27	/2023										
			SPK	SPK				RPD			
Analyte	Resu	t PQL	Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit	Qual
Mercury (Hg)	0.016	5 0.001	0.015	0	111	70	130				
Sample ID: 2307096	-05AMSD		SampType	e: MSD		TestCo	de: <b>245_1</b>		Units:	mg/L	
Client ID: BatchQ0			Batch ID:	18987		TestNo:	E245.1		E245.1	-	
Prep Date: 7/27	/2023		RunNo:	17504		SeqNo:	507282				
Analysis Date: 7/27	/2023										
	Poou		SPK Value	SPK Ref Val	%PEC	Low! imit	Highl imit	RPD Ref Val	%PDD	RPDI imit	Qual
Mercury (Hg)	0.016	9 0.001	0.015	0	113	70	130	0.0166	1.8	20	Quai

R RPD outside accepted recovery limits



QC SUMMARY REPORT

WO#: 2307117

02-Aug-23

Qual

Client:McGinley &Project:BRN098	Associates, l	nc./UE	ES			,	TestCode:	625_	W	
Sample ID: MB-19003			SampType	e: MBLK		TestCo	de: 625_W		Units	µg/L
Client ID: PBW			Batch ID:	19003		TestNo	SW827	0C		
Prep Date: 7/28/2023			RunNo:	17513		SeqNo:	507469	1		
Analysis Date: 7/28/2023										
Analysis Date. <b>HEGEVES</b>			SPK	SPK				RPD		
Analyte	Result	PQL	Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit
Phenol	ND	10								
2-Chlorophenol	ND	10								
2-Nitrophenol	ND	10								
2,4-Dimethylphenol	ND	10								
2,4-Dichlorophenol	ND	10								
Hexachlorobutadiene	ND	20								
2,4,6-Trichlorophenol	ND	10								
2,4-Dinitrophenol	ND	100								
4-Nitrophenol	ND	50								
4,6-Dinitro-2-methylphenol	ND	100								
Pentachlorophenol	ND	50								
Surr: 2-Fluorophenol	64		200		32.1	30.51	130.49			
Surr: Phenol-d5	41		200		20.7	17.51	130.49			
Surr: Nitrobenzene-d5	66		100		65.7	40.51	131.49			
Surr: 2-Fluorobiphenyl	71		100		71.3	40.51	130.49			
Surr: 2,4,6-Tribromophenol	100		200		52.0	39.51	154.49			
Surr: 4-Terphenyl-d14	80		100		80.0	47.51	141.49			

Sample ID: LCS-19003			SampType	: LCS		TestCo	de: 625_W		Units:	µg/L	
Client ID: LCSW			Batch ID:	19003		TestNo:	SW827	0C			
Prep Date: 7/28/2023			RunNo:	17513		SeqNo:	507471				
Analysis Date: 7/28/2023											
			SPK	SPK				RPD			
Analyte	Result	PQL	Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit	Qual
Phenol	24.8	10	100	0	24.8	17	120				
2-Chlorophenol	64.1	10	100	0	64.1	36	120				
2-Nitrophenol	70.5	10	100	0	70.5	45	167				
2,4-Dimethylphenol	88	10	100	0	88.0	52	120				
2,4-Dichlorophenol	76.6	10	100	0	76.6	53	122				
Hexachlorobutadiene	59.2	20	100	0	59.2	38	120				
2,4,6-Trichlorophenol	87.2	10	100	0	87.2	52	129				
2,4-Dinitrophenol	162	100	100	0	162	0.51	173				
4-Nitrophenol	53.7	50	100	0	53.7	13	129				
4,6-Dinitro-2-methylphenol	69.3	100	100	0	69.3	53	130				
Pentachlorophenol	84.4	50	100	0	84.4	38	152				
Surr: 2-Fluorophenol	65.7		200		32.9	30.51	130.49				
Surr: Phenol-d5	45.9		200		23.0	47.51	130.49				S
Surr: Nitrobenzene-d5	79.2		100		79.2	40.51	131.49				
Surr: 2-Fluorobiphenyl	73.5		100		73.5	40.51	130.49				
Surr: 2,4,6-Tribromophenol	165		200		82.4	39.51	154.49				

Qualifiers: B Analyte detected in the associated Method Blank

R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit



## QC SUMMARY REPORT

WO#: 2307117

02-Aug-23

Client: M Project: Bl	lcGinley & Assoc RN098	iates, Ir	nc./UE	εs			Т	CestCode:	625_V	V		
Sample ID: LCS-1900	3			SampType	LCS		TestCod	e: 625_W		Units:	µg/L	
Client ID: LCSW				Batch ID:	19003		TestNo:	SW8270	C			
Bron Doto: 7/20/2	0000			BunNo:	47540		SegNer	507474				
Fiep Date. 112012	2023			Runno.	1/513		Sequo.	507471				
Analysis Date: 7/28/2	2023								000			
Analyte	F	Result	PQL	Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d1	4	109		100		109	47.51	141.49				
Sample ID: 2307120-0	1AMS			SampType	MS		TestCod	e: 625_W		Units:	µg/L	
Client ID: BatchQC				Batch ID:	19003		TestNo:	SW8270	C			
Prep Date: 7/28/2	2023			RunNo:	17513		SeqNo:	507472				
Analysis Date: 7/28/2	2023											
,				SPK	SPK				RPD			
Analyte	F	Result	PQL	Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit	Qual
Phenol		95	20	200	0	47.5	5	120				
2-Chlorophenol		165	20	200	0	82.4	23	134				
2-Nitrophenol		165	20	200	0	82.4	29	182				
2,4-Dimethylphenol		204	20	200	0	102	32	120				
2,4-Dichlorophenol		176	20	200	0	87.8	39	135				
		139	40	200	0	102	24	120				
2,4,0-Theniorophenol		204	20	200	0	102	0.51	144				
		120	100	200	0	64.6	0.51	132				
4 6-Dinitro-2-methylphe	nol	144	200	200	0	71 Q	0.51	181				
Pentachlorophenol		159	100	200	0	79.4	14	176				
Surr: 2-Fluorophenol		291	100	400	Ũ	72.8	30.51	130 49				
Surr: Phenol-d5		217		400		54.3	17.51	130.49				
Surr: Nitrobenzene-d	5	195		200		97.6	40.51	131.49				
Surr: 2-Fluorobiphen	vl	179		200		89.3	40.51	130.49				
Surr: 2,4,6-Tribromor	ohenol	303		400		75.7	39.51	154.49				
Surr: 4-Terphenyl-d1	4	222		200		111	47.51	141.49				
Sample ID: 2307120-0	AMSD			SampType	MSD		TestCod	e: 625 W		Units:	µg/L	
Client ID: BatchQC				Batch ID:	19003		TestNo:	SW8270	C			
Pren Date: 7/28/2	0023			RunNo	17513		SeaNo	507473				
Analysis Date: 7/28/2	023				17515		Ocqivo.	507475				
Analysis Date. 112012	2023			SPK	SPK				RPD			
Analyte	F	Result	PQL	Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit	Qual
Phenol		80.2	20	200	0	40.1	5	120	95	17	64	
2-Chlorophenol		144	20	200	0	72.0	23	134	165	14	61	
2-Nitrophenol		149	20	200	0	74.3	29	182	165	10	55	
2,4-Dimethylphenol		190	20	200	0	94.8	32	120	204	7.4	58	
2,4-Dichlorophenol		163	20	200	0	81.6	39	135	176	7.3	50	
Hexachlorobutadiene		127	40	200	0	63.7	24	120	139	8.3	62	
2,4,6-Trichlorophenol		179	20	200	0	89.4	37	144	204	13	58	

Qualifiers: B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits



## QC SUMMARY REPORT

WO#: 2307117

02-Aug-23

Client:	McGinley & Associates, Inc./UES
Project:	BRN098

TestCode	625	w
I concouc.	045	

Sample ID: 2307120-01AMSD			SampType	e: MSD		TestCo	de: 625_W		Units:	µg/L	
Client ID: BatchQC			Batch ID:	19003		TestNo:	SW827	0C			
Prep Date: 7/28/2023			RunNo:	17513		SeqNo:	507473				
Analysis Date: 7/28/2023											
			SPK	SPK				RPD			
Analyte	Result	PQL	Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit	Qual
2,4-Dinitrophenol	316	200	200	0	158	0.51	191	328	3.6	50	
4-Nitrophenol	122	100	200	0	60.9	0.51	132	129	5.8	50	
4,6-Dinitro-2-methylphenol	125	200	200	0	62.6	0.51	181	144	14	50	
Pentachlorophenol	154	100	200	0	77.1	14	176	159	3	86	
Surr: 2-Fluorophenol	199		400		49.7	30.51	130.49	291	0	0	
Surr: Phenol-d5	151		400		37.7	17.51	130.49	217	0	0	
Surr: Nitrobenzene-d5	172		200		86.1	40.51	131.49	195	0	0	
Surr: 2-Fluorobiphenyl	157		200		78.4	40.51	130.49	179	0	0	
Surr: 2,4,6-Tribromophenol	328		400		82.0	39.51	154.49	303	0	0	
Surr: 4-Terphenyl-d14	217		200		109	47.51	141.49	222	0	0	

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



## QC SUMMARY REPORT

WO#: 2307117

02-Aug-23

Client:McGinley & AsProject:BRN098	sociates, I	nc./UE	ES		TestCode: COD_W	
Sample ID: MB-18970			SampType	e: MBLK	TestCode: COD_W Units: mg/L	
Client ID: PBW			Batch ID:	18970	TestNo: <b>E410.4</b>	
Prep Date: 7/25/2023			RunNo:	17482	SeqNo: <b>506950</b>	
Analysis Date: 7/26/2023						
Analyte	Result	POI	SPK Value	SPK Ref Val	RPD %REC_LowLimit_HighLimit_Ref Val_%RPD_RPDLimit_O	ual
Chemical Oxygen Demand (COD)	ND	5	Value			a car
Sample ID: LCS-18970			SampType	e: LCS	TestCode: COD_W Units: mg/L	
Client ID: LCSW			Batch ID:	18970	TestNo: <b>E410.4</b>	
Prep Date: 7/25/2023			RunNo:	17482	SeqNo: 506949	
Analysis Date: 7/26/2023						
Analyte	Result	PQL	SPK Value	SPK Ref Val	RPD %REC LowLimit HighLimit Ref Val %RPD RPDLimit Qu	ual
Chemical Oxygen Demand (COD)	50	5	50	0	100 89.51 110.49	
Sample ID: 2307120-01AMS			SampType	e: MS	TestCode: COD_W Units: mg/L	
Client ID: BatchQC			Batch ID:	18970	TestNo: <b>E410.4</b>	
Prep Date: 7/25/2023			RunNo:	17482	SeqNo: <b>506956</b>	
Analysis Date: 7/26/2023						
Analyte	Rosult	POI	SPK Value	SPK Ref Val	RPD %REC Lowlimit HighLimit Ref.Val %RPD RPDLimit Ou	lei
Chemical Oxygen Demand (COD)	50.4	5	50	0	101 89.51 110.49	
, , , , , , , , , , , , , , , , , , ,						
Sample ID: 2307120-01AMSD			SampType	e: MSD	TestCode: COD_W Units: mg/L	
Client ID: BatchQC			Batch ID:	18970	TestNo: <b>E410.4</b>	
Prep Date: 7/25/2023			RunNo:	17482	SeqNo: <b>506957</b>	
Analysis Date: 7/26/2023						
Analyte	Result	PQL	SPK Value	SPK Ref Val	RPD %REC LowLimit HighLimit Ref Val %RPD RPDI imit Ou	ual
Chemical Oxygen Demand (COD)	51.1	5	50	0	102 89.51 110.49 50.4 1.4 20	

R RPD outside accepted recovery limits



## **QC SUMMARY REPORT**

WO#: 2307117

02-Aug-23

Client:McGinley & AsProject:BRN098	ssociates, I	nc./UI	ES			1	FestCode:	CYA	NIDE_T	OTAL_V	V
Sample ID: MB-18994			SampType	e: MBLK		TestCod	le: CYANI	DE_TO	Units:	mg/L	
Client ID: PBW			Batch ID:	18994		TestNo:	Cyanid	e			
Prep Date: 7/27/2023			RunNo:	17503		SeqNo:	507265				
Analysis Date: 7/28/2023											
Analyte	Result	PQI	SPK Value	SPK Ref Val	%RFC	l owl imit	Highl imit	RPD Ref Val	%RPD	RPDI imit	Qual
Cyanide, Total	ND	0.1					<u> </u>				
Sample ID: LCS 48004			SomeTure			TootCod			Unito		
				49004		TestOu	Cuenid	JE_10	Units.	mg/L	
			Datch ID:	18994		CogNo:	Cyania	e			
Prep Date: //2//2023			Runno:	17503		Seqino:	507266				
Analysis Date: 7/28/2023			SPK	SPK				RPD			
Analyte	Result	PQL	Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	0.145	0.1	0.15	0	96.7	90	110				
Sample ID: 2307117-01AMS			SampType	e: MS		TestCod	le: CYANI	DE_TO	Units:	mg/L	
Client ID: BRN098-WW-002MS			Batch ID:	18994		TestNo:	Cyanid	е			
Prep Date: 7/27/2023			RunNo:	17503		SeqNo:	507270				
Analysis Date: 7/28/2023											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	0.163	0.1	0.15	0	108	69.5	120.4				
Sample ID: 2307117-01AMSD				e: MSD		TestCod	le: CYANII	DE TO	Units:	mg/L	
Client ID: BRN098-WW-002MSD			Batch ID:	18994		TestNo:	Cvanid	e _		U	
Prep Date: 7/27/2023			RunNo:	17503		SeqNo:	507271	-			
Analysis Date: <b>7/28/2023</b>											
Analyte	Result	POI	SPK Value	SPK Ref Val	%REC	Lowl imit	Highl imit	RPD Ref Val	%RPD	RPDI imit	Qual
Cvanide. Total	0.178	0.1	0.15	0	119	69.5	120.4	0.163	<u>9</u> .1	14	Stuur

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



QC SUMMARY REPORT

WO#: 2307117

02-Aug-23

Client:	McGinley & Asso	ciates, 1	Inc./UE	ES								
Project:	BRN098						]	TestCode:	MET	ALS_T_	_200_8	
Sample ID: MB-18	986			SampType	: MBLK		TestCod	le: METAL	S_T_2	Units:	mg/L	
Client ID: PBW				Batch ID:	18986		TestNo:	E200.8				
Prep Date: 7/2	27/2023			RunNo:	17489		SeqNo:	507037				
Analysis Date: 7/2	27/2023											
Analyte		Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron (B)		ND	0.1									
Chromium (Cr)		ND	0.01									
Manganese (Mn)		ND	0.005									
Iron (Fe)		ND	0.3									
Nickel (Ni)		ND	0.01									
Copper (Cu)		ND	0.02									
Zinc (Zn)		ND	0.1									
Arsenic (As)		ND	0.005									
Selenium (Se)		ND	0.005									
Silver (Ag)		ND	0.005									
Cadmium (Cd)		ND	0.002									
Barium (Ba)		ND	0.005									
Lead (Pb)		ND	0.005									

Sample ID: LCS-18986			SampType	: LCS		TestCo	de: METAL	S_T_2	Units:	mg/L	
Client ID: LCSW			Batch ID:	18986		TestNo:	E200.8				
Prep Date: 7/27/2023			RunNo:	17489		SeqNo:	507038				
Analysis Date: 7/27/2023											
			SPK	SPK				RPD			
Analyte	Result	PQL	Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit	Qual
Boron (B)	1.22	0.1	1.25	0	97.7	84.51	115.49				
Chromium (Cr)	0.25	0.01	0.25	0	99.9	84.51	115.49				
Manganese (Mn)	0.242	0.005	0.25	0	96.8	84.51	115.49				
Iron (Fe)	2.47	0.3	2.5	0	98.7	84.51	115.49				
Nickel (Ni)	0.243	0.01	0.25	0	97.3	84.51	115.49				
Copper (Cu)	0.239	0.02	0.25	0	95.4	84.51	115.49				
Zinc (Zn)	0.239	0.1	0.25	0	95.4	84.51	115.49				
Arsenic (As)	0.248	0.005	0.25	0	99.1	84.51	115.49				
Selenium (Se)	0.242	0.005	0.25	0	96.7	84.51	115.49				
Silver (Ag)	0.235	0.005	0.25	0	94.1	84.51	115.49				
Cadmium (Cd)	0.229	0.002	0.25	0	91.6	84.51	115.49				
Barium (Ba)	0.24	0.005	0.25	0	96.0	84.51	115.49				
Lead (Pb)	0.244	0.005	0.25	0	97.8	84.51	115.49				

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits



## **QC SUMMARY REPORT**

WO#: 2307117

02-Aug-23

Client:	McGinley & Associates, Inc./UES
Project:	BRN098

TestCode: METALS\_T\_200\_8

Sample ID: 2307152-01AMS			SampType	e: <b>MS</b>		TestCo	de: METAL	S_T_2	Units:	mg/L	
Client ID: BatchQC			Batch ID:	18986		TestNo:	E200.8				
Prep Date: 7/27/2023			RunNo:	17489		SeqNo:	507055				
Analysis Date: 7/27/2023											
	Decit	DOI	SPK	SPK		Land tasti	L Park L See 20	RPD			0
Analyte	Result	PQL	Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit	Qual
Boron (B)	1.41	0.1	1.25	0.165	99.8	69.51	130.49				
Chromium (Cr)	0.255	0.01	0.25	0	102	69.51	130.49				
Manganese (Mn)	0.757	0.005	0.25	0.524	93.1	69.51	130.49				
Iron (Fe)	5.12	0.3	2.5	2.55	103	69.51	130.49				
Nickel (Ni)	0.251	0.01	0.25	0	101	69.51	130.49				
Copper (Cu)	0.249	0.02	0.25	0.0106	95.2	69.51	130.49				
Zinc (Zn)	0.257	0.1	0.25	0	103	69.51	130.49				
Arsenic (As)	0.259	0.005	0.25	).00493	101	69.51	130.49				
Selenium (Se)	0.251	0.005	0.25	0	100	69.51	130.49				
Silver (Ag)	0.241	0.005	0.25	0	96.5	69.51	130.49				
Cadmium (Cd)	0.239	0.002	0.25	0	95.7	69.51	130.49				
Barium (Ba)	0.452	0.005	0.25	0.205	98.9	69.51	130.49				
Lead (Pb)	0.252	0.005	0.25	).00262	99.7	69.51	130.49				

Sample ID: 2307152-01AMSD			SampType	e: MSD		TestCo	de: METAL	S_T_2	Units:	mg/L	
Client ID: BatchQC			Batch ID:	18986		TestNo:	E200.8				
Prep Date: 7/27/2023			RunNo:	17489		SeqNo:	507056				
Analysis Date: 7/27/2023											
			SPK	SPK				RPD			
Analyte	Result	PQL	Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit	Qual
Boron (B)	1.44	0.1	1.25	0.165	102	69.51	130.49	1.41	1.7	20	
Chromium (Cr)	0.246	0.01	0.25	0	98.2	69.51	130.49	0.255	3.7	20	
Manganese (Mn)	0.743	0.005	0.25	0.524	87.3	69.51	130.49	0.757	1.9	20	
Iron (Fe)	5.16	0.3	2.5	2.55	104	69.51	130.49	5.12	0.79	20	
Nickel (Ni)	0.236	0.01	0.25	0	94.5	69.51	130.49	0.251	6.3	20	
Copper (Cu)	0.239	0.02	0.25	0.0106	91.4	69.51	130.49	0.249	3.9	20	
Zinc (Zn)	0.243	0.1	0.25	0	97.2	69.51	130.49	0.257	5.6	20	
Arsenic (As)	0.247	0.005	0.25	).00493	96.8	69.51	130.49	0.259	4.7	20	
Selenium (Se)	0.228	0.005	0.25	0	91.3	69.51	130.49	0.251	9.4	20	
Silver (Ag)	0.234	0.005	0.25	0	93.5	69.51	130.49	0.241	3.2	20	
Cadmium (Cd)	0.227	0.002	0.25	0	90.9	69.51	130.49	0.239	5.2	20	
Barium (Ba)	0.434	0.005	0.25	0.205	91.7	69.51	130.49	0.452	4.1	20	
Lead (Pb)	0.243	0.005	0.25	).00262	96.0	69.51	130.49	0.252	3.8	20	

R RPD outside accepted recovery limits



## QC SUMMARY REPORT

WO#: 2307117

02-Aug-23

Client: Project:	McGinley & Asso BRN098	ciates, Iı	nc./UE	ES			Т	estCode:	O&G	_HEM_	W	
Sample ID: MB-190	09			SampType	: MBLK		TestCod	e: <b>O&amp;G_H</b>	EM_	Units:	mg/L	
Client ID: PBW				Batch ID:	19009		TestNo:	E1664B	5	E1664	В	
Prep Date: 7/3	1/2023			RunNo:	17512		SeqNo:	507463				
Analysis Date: 7/3	1/2023											
Analyte		Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease, HEM		ND	5									
Sample ID: LCS-190	009			SampType	E LCS		TestCode	e: <b>O&amp;G_H</b>	EM_	Units:	mg/L	
Client ID: LCSW				Batch ID:	19009		TestNo:	E1664B	5	E1664	В	
Prep Date: 7/3	1/2023			RunNo:	17512		SeqNo:	507464				
Analysis Date: 7/3	1/2023											
Analyte		Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease, HEM		37.9	5	40	0	94.8	80.1	108				
Sample ID: LCSD-1	9009			SampType	: LCSD		TestCode	e: <b>O&amp;G_H</b>	EM_	Units:	mg/L	
Client ID: LCSS02	2			Batch ID:	19009		TestNo:	E1664B	5	E1664	В	
Prep Date: 7/3	1/2023			RunNo:	17512		SeqNo:	507465				
Analysis Date: 7/3	1/2023											
Analyte		Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease, HEM		38.3	5	40	0	95.8	80.1	108	37.9	1	21.9	

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits


# **QC SUMMARY REPORT**

WO#: 2307117

02-Aug-23

Client: McGinley & A	ssociates, I	nc./UI	ES								
Project: BRN098						r	TestCode:	SULE	FIDE_W	1	
Sample ID: MB-18978			SampType	e: MBLK		TestCo	de: SULFIC	DE_W	Units:	mg/L	
Client ID: PBW			Batch ID:	18978		TestNo:	SM 450	0-S2			
Prep Date: 7/26/2023			RunNo:	17483		SeqNo:	506968				
Analysis Date: 7/26/2023											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide	ND	0.1									
Sample ID: LCS-18978			SampType	e: LCS		TestCo	de: SULFIC	DE_W	Units:	mg/L	
Client ID: LCSW			Batch ID:	18978		TestNo:	SM 450	0-S2			
Prep Date: 7/26/2023			RunNo:	17483		SeqNo:	506967				
Analysis Date: 7/26/2023											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide	0.544	0.1	0.5	0	109	89.5	110.4				
Sample ID: LCSD-18978			SampType	e: LCS		TestCo	de: SULFIC	DE_W	Units:	mg/L	
Client ID: LCSW			Batch ID:	18978		TestNo:	SM 450	0-S2			
Prep Date: 7/26/2023			RunNo:	17483		SeqNo:	506974				
Analysis Date: 7/26/2023											
Analyte	Result	PQI	SPK Value	SPK Ref Val	%RFC	l owl imit	Hiahl imit	RPD Ref Val	%RPD	RPDI imit	Qual
Sulfide	0.541	0.1	0.5	0	108	89.5	110.4	0.544	0.6	6.65	
Sample ID: 2307117-01AMS			SampType	e: <b>MS</b>		TestCo	de: SULFIC	DE_W	Units:	mg/L	
Client ID: BRN098-WW-002MS			Batch ID:	18978		TestNo:	SM 450	0-S2			
Prep Date: 7/26/2023			RunNo:	17483		SeqNo:	506972				
Analysis Date: 7/26/2023											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HiahLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide	0.639	0.1	0.5	0.456	36.6	45.9	127	iter var	, or a 2		S
Sample ID: 2307117-01AMSD			SampType	e: MSD		TestCo	de: SULFIC	DE_W	Units:	mg/L	
Client ID: BRN098-WW-002MSD			Batch ID:	18978		TestNo:	SM 450	0-S2			
Prep Date: 7/26/2023			RunNo:	17483		SeqNo:	506973				
Analysis Date: 7/26/2023											
Analyte	Result	POI	SPK Value	SPK Ref Val	%RFC	Lowl imit	Highl imit	RPD Ref Val	%RPD	RPDI imit	Qual
Sulfide	0.626	0.1	0.5	0.456	34.0	45.9	127	0.639	2	8.22	S
					-						

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



# **QC SUMMARY REPORT**

WO#: 2307117

02-Aug-23

Client:	McGinley & Asso	ociates, In	nc./UE	ES								
Project:	BRN098						]	FestCode:	TSS_	W		
Sample ID: MBLK-	18980			SampType	MBLK		TestCoc	le: TSS_W		Units:	mg/L	
Client ID: PBW				Batch ID:	18980		TestNo:	Solids				
Prep Date: 7/2	26/2023			RunNo:	17501		SeqNo:	507232				
Analysis Date: 7/2	26/2023											
Analyte		Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Susper	nded (TSS)	ND	2.5									
Sample ID: LCS-18	3980			SampType	LCS		TestCoo	le: TSS_W		Units:	mg/L	
Client ID: LCSW				Batch ID:	18980		TestNo:	Solids				
Prep Date: 7/2	26/2023			RunNo:	17501		SeqNo:	507233				
Analysis Date: 7/2	26/2023											
Apoluto		Decult		SPK	SPK		Loud im it	liablim:*	RPD	0/ 000		Qual
Analyte		Result	PQL	value	Rei Val	%REC	LOWLIMIT	⊓ign∟lmit	Ref Val	%RPD	RPULIMI	Qual
Solids, Total Susper	nded (TSS)	89	2.5	100	0	89.0	56	104				

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Kathy Murray Alpha Analytical, Inc. 255 Glendale Ave. Suite 21 Sparks, Nevada 89431-5778 Generated 7/31/2023 7:21:15 AM

JOB DESCRIPTION

2307117

# **JOB NUMBER**

570-146120-1

Eurofins Calscience 2841 Dow Avenue, Suite 100 Tustin CA 92780







# **Eurofins Calscience**

## Job Notes

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# Authorization

Generated 7/31/2023 7:21:15 AM

Authorized for release by Don Burley, Senior Project Manager Donald.Burley@et.eurofinsus.com (657)212-3033

# **Table of Contents**

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
QC Sample Results	8
QC Association Summary	9
Lab Chronicle	10
Certification Summary	11
Method Summary	12
Sample Summary	13
Chain of Custody	14
Receipt Checklists	16

# **Definitions/Glossary**

Client: Alpha Analytical, Inc. Project/Site: 2307117

Job ID: 570-146120-1

Glossary		3
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	A
%R	Percent Recovery	
CFL	Contains Free Liquid	5
CFU	Colony Forming Unit	0
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	8
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	9
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
TNTC	Too Numerous To Count	

### Job ID: 570-146120-1

### Laboratory: Eurofins Calscience

Narrative

Job Narrative 570-146120-1

**Case Narrative** 

### Comments

No additional comments.

### Receipt

The sample was received on 7/25/2023 9:40 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.4° C.

### HPLC/IC

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

### **Organic Prep**

Method 8315A\_W\_Prep: The following sample formed emulsions during the extraction procedure: MGA 2307117-01A (570-146120-1). The emulsions were broken up using sodium sulfate.

Method 8315A\_W\_Prep: The reference method requires samples to be preserved to a pH of 5-9. The following sample was received with insufficient preservation at a pH of 10: MGA 2307117-01A (570-146120-1). The sample was preserved to the appropriate pH in the laboratory.

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

# **Detection Summary**

		Detect	ion Sum	nary				
Client: Alpha Analytical, Inc. Project/Site: 2307117						Job ID	): 570-146120-1	
Client Sample ID: MGA 23	07117-01	4			Lab Sa	mple ID: 5	70-146120-1	
Analyte Formaldehyde	Result	Qualifier	<b>RL</b> 10	Unit ug/L	Dil Fac	D Method 8315A	Prep Type Total/NA	
				Ū.				5
								6
								8
								9
								13

Job ID: 570-146120-1

5 6

### Method: SW846 8315A - Carbonyl Compounds by HPLC

Client Sample ID: MGA 2307117 Date Collected: 07/24/23 10:15	7-01A					Lab Sam	ple ID: 570-14 Matrix	6120-1 : Water
Date Received: 07/25/23 09:40								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Formaldehyde	55		10	ug/L		07/26/23 08:48	07/27/23 19:47	1

Euroffins Calscience

Job ID: 570-146120-1

### Method: 8315A - Carbonyl Compounds by HPLC

Lab Sample ID: MB 570-349014/1- Matrix: Water Analysis Batch: 349628	A MB	MB						Clie	ent Samp	ole ID: Meth Prep Type: Prep Batcl	od Bla Total/N n: 3490	nk NA 14
Analyte	Result	Qualifier		RI		Unit		D P	renared	Analyzed	Dil F	ac
Formaldehyde	ND	qualities		10		ug/L		07/2	26/23 08:48	07/27/23 17:5	56	1
Lab Sample ID: LCS 570-349014/2 Matrix: Water Analysis Batch: 349628	2- <b>A</b>						Clie	nt Sa	mple ID:	Lab Contro Prep Type: Prep Batcl	I Samp Total/N n: 3490	ole NA 14
			Spike		LCS	LCS				%Rec		
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits		
Formaldehyde			50.0		50.80		ug/L		102	75 - 124		
Lab Sample ID: LCSD 570-349014 Matrix: Water Analysis Batch: 349628	/3-A					C	lient Sa	mple	ID: Lab	Control Sar Prep Type: Prep Batcl	nple Di Total/N n: 3490	up NA 14
			Spike		LCSD	LCSD				%Rec	R	PD
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits F	PD Lii	mit
Formaldehyde			50.0		55.70		ug/L		111	75 - 124	9	20

349014

### HPLC/IC

### Prep Batch: 349014

LCSD 570-349014/3-A

Lab Control Sample Dup

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-146120-1	MGA 2307117-01A	Total/NA	Water	8315A_W_Prep	
MB 570-349014/1-A	Method Blank	Total/NA	Water	8315A_W_Prep	
LCS 570-349014/2-A	Lab Control Sample	Total/NA	Water	8315A_W_Prep	
LCSD 570-349014/3-A	Lab Control Sample Dup	Total/NA	Water	8315A_W_Prep	
Analysis Batch: 3496	28				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-146120-1	MGA 2307117-01A	Total/NA	Water	8315A	349014
MB 570-349014/1-A	Method Blank	Total/NA	Water	8315A	349014
LCS 570-349014/2-A	Lab Control Sample	Total/NA	Water	8315A	349014

Total/NA

Water

8315A

### Client Sample ID: MGA 2307117-01A Date Collected: 07/24/23 10:15 Date Received: 07/25/23 09:40

-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8315A_W_Prep			100 mL	1.0 mL	349014	07/26/23 08:48	PQS1	EET CAL 4
Total/NA	Analysis	8315A		1			349628	07/27/23 19:47	URMH	EET CAL 4
	Instrumer	nt ID: HPLC5A								

### Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Job ID: 570-146120-1

Matrix: Water

Lab Sample ID: 570-146120-1

Euroffins Calscience

Client: Alpha Analytical, Inc. Project/Site: 2307117

Job ID: 570-146120-1

10

Client: Alpha Analytic Project/Site: 2307117	cal, Inc. 7			Job ID: 570-146120-1	
Laboratory: Euro	ofins Calscience	were covered under	each accreditation/certification below.		
Authority	Prog	ram	Identification Number	Expiration Date	
Nevada The following analyte the agency does not	State es are included in this report, offer certification.	but the laboratory is	CA00111 not certified by the governing authority.	07-31-24 This list may include analytes for which	5
Analysis Method	Prep Method	Matrix	Analyte		
8315A	8315A_W_Prep	Water	Formaldehyde		
Oregon	NEL	AP	4175	02-02-24	
					8

### **Method Summary**

### Client: Alpha Analytical, Inc. Project/Site: 2307117

Method	Method Description	Protocol	Laboratory
8315A	Carbonyl Compounds by HPLC	SW846	EET CAL 4
8315A_W_Prep	Liquid-Liquid Extraction (Carbonyl Compounds)	SW846	EET CAL 4

### **Protocol References:**

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

### Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

# Sample Summary

Client: Alpha Analytical, Inc. Project/Site: 2307117

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-146120-1	MGA 2307117-01A	Water	07/24/23 10:15	07/25/23 09:40

Page 26 of 38

ALPHA ANALYTICAL INC.	CHAIN OF CUSTODY R *Please reference the Work Order Number on *Also please include the dates of analysis and do the report to Alpha Analytical (Sparks). Atte (kathy@alpha-analytical.	ECORD all reports and invoices. election limits. Please send ation To Kathy Murray rom). Report I ON: 01-A	Alpha Analytical, Inc. 255 Glendale Ave, #21 Sparks, Nevada 89431 TEL: (775) 355-1044 FAX: (775) 355-0406 Due Sampled by: Aug-23 AP	Loc: 570 <b>146120</b> 1 2 3
SUB CONTRATOR: CAL	COMPANY: Eurofins Calscience, LLC	SPECIAL INSTRUCTIONS / COMMENTS:		
ADDRESS: 2841 Dow Ave Suite 1	00	Formaldehyde. NV Sample.		5
CITY, STATE, ZIP: Tustin, CA 92780				6
PHONE: (714) 895-5494	FAX: (714) 894-7501	ANALYTICAL PARAMETERS		
ACCOUNT #:	EMAIL:			
2307117		CONT		8
		R BER OF		9
ITEM # SAMPLE ID Client Sample ID	Bottle Type MATRIX DATE COLLECTED			
			570-146120 Chain of Custody	12
Relinquished By: Date:	Time: Received By: Time: Received By: Time: Received By: F	$\frac{25/2}{T_{ime}} \xrightarrow{\text{Time:}} \text{Comments:}}{\text{Time:}}$ Page 14 of 16	1.1/1.4 SC Page 27	of 38 7/31/2023



### Login Sample Receipt Checklist

Client: Alpha Analytical, Inc.

### Login Number: 146120 List Number: 1

Creator: Skinner, Alma D

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
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 (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
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	

Job Number: 570-146120-1

List Source: Eurofins Calscience

Page 29 of 38

![](_page_90_Picture_0.jpeg)

August 01, 2023 Workorder **23071089** 

Kathy Murray Alpha Analytical 255 Glendale Ave, Suite 21 Sparks, NV 89431

Project: 2307117 / MGA 2307117 - 01A/ BRN098 - WW - 002

Dear Kathy Murray:

It is the policy of SGS Silver State Analytical Laboratory - Reno to strictly adhere to a comprehensive Quality Assurance Plan that ensures the data presented in this report are both accurate and precise. SGS Silver State Analytical Laboratory - Reno maintains accreditation in the State of Nevada (NV-00015) and the State of California (ELAP 2990).

The data presented in this report was obtained from the analysis of samples received under a chain of custody. Unless otherwise noted below, samples were received in good condition, properly preserved and within the hold time for the requested analyses. Any anomalies associated with the analysis of the samples have been flagged in the Analytical Report with an appropriate explanation in the Definitions & Qualifiers.

Sincerely,

alfed

Carly Wood Laboratory Director 1135 Financial Blvd Reno, NV 89502

CCC		SGS Silver 1135 Finar	: State Analytical L ncial Blvd	An	Analytical Report						
<u> </u>	2	Reno, NV (775) 857-2 www.ssala	89502 2400 bs.com			Work Date	order#: Reported:	23071089 8/1/2023			
Client: Project Name: PO #:	Alpha An 2307117	alytical / MGA 2307117 - 01A	./ BRN098 - WV	V - 002		Sample	ed By: AP				
Laboratory Accre	editation N	umber: NV015/CA29	990								
Laboratory ID		Client Sample ID		D	ate/Time Sam	pled	Date Receiv	ved			
23071089-01		MGA 2307117-01A	BRN098-WW-	002 0	7/24/2023 10:1	15	7/24/2023				
Parameter		Method	Result	Units	PQL	Analyst	Date/Tim Analyze	ne Data d Flag			
Biochemical Oxygen	Demand	SM 5210 B	620	mg/L	400	400 AC 07/26/2023 10:11					

![](_page_92_Picture_0.jpeg)

SGS Silver State Analytical Laboratories 1135 Financial Blvd Reno, NV 89502 (775) 857-2400 www.ssalabs.com

# **Quality Control Report**

WO#:

23071089 8/1/2023

Anal	ysis:	BOD-5											
Meth	nod:	SM 5210	B						Ba	tch ID:	R81	043	
		<u>Dupl</u>	icate										
RunID:	81043	Seql	No 2125	814 Un	its: mg/L								
Analysis	Date:	7/26/2023 5:1	6:00 PM	An	alyst: AC								
	Anal	yte	Resu	t Rep Lin	nit Rep Qu	ial F	RPD	Sample Valu	e				
Biochem	nical Oxy	/gen Demand	6	0.0 4	0.0		0		60				
		Method	l Blank										
RunID:	81043	Seql	No 2125	803 Un	its: mg/L								
Analysis	Date:	7/26/2023 4:4	4:00 PM	An	alyst: AC								
	Anal	yte	Resu	t Rep Lin	nit Rep Qu	ıal							
Biochem	nical Oxy	/gen Demand		< 2	2								
	Lab	oratory Conti	ol Sampl	e (LCS)									
RunID:	81043	Seql	No 2125	806 Un	its: mg/L								
Analysis	Date:	7/26/2023 4:4	4:00 PM	An	alyst: AC								
	Analy	/te	LCS Spike	LCS Result	LCS % Recovery	LCSD Spike	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Biochemical Oxygen	198.0	212	107								
Demand											

ANALYTICAL INC.	ALPHA

# CHAIN OF CUSTODY RECORD

\*Please reference the Work Order Number on all reports and invoices. \*Also please include the dates of analysis and detection limits. Please send the report to Alpha Analytical (Sparks). Attention To Kathy Murray (kathy@alpha-analytical.com).

> 255 Glendale Ave, #21 Alpha Analytical, Inc. Sparks, Nevada 89431

TEL: (775) 355-1044 *FAX: (775) 355-0406* 33 of 38

Sampled by:

			Report Due Sampled by:
		23071089	ON: 01-Aug-23 AP Pag
SUB CONTRATOR: SSL	COMPANY:	SGS Silver State Laboratories	SPECIAL INSTRUCTIONS / COMMENTS: 
ADDRESS: 1135 Financial Blvd.			
CITY, STATE, ZIP: Reno, NV 89502-			
PHONE: (775) 857-2400	FAX:	(775) 857-2404	ANALYTICAL PARAMETERS
	EMAIL -		
ACCOUNT #	EMAIL:		BC
2307117		CONT	
		АПЛЕК	<u> </u>
ITEM # SAMPLE ID Client Sample ID	Bottle Type	MATRIX DATE COLLECTED 9	

1 MGA 2307117-01A BRN098-WW-002

1LPL-U Aqueous

7/24/2023 10:15:00 AM

H 2

![](_page_93_Figure_7.jpeg)

![](_page_94_Picture_0.jpeg)

# **Definitions & Qualifiers**

WO#:23071089Date:8/1/2023

Definitions:

LCS: Laboratory Control Sample; prepared by adding a known mass of target analytes to a specified amount of de-ionized water and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: LCS Duplicate; used to calculate both Accuracy (%REC) and Precision (%RPD)

MBLK: Method Blank; a sample of similar matrix that is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses.

MS: Matrix Spike; prepared by adding a known mass of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: Matrix Spike Duplicate; used to calculate both Accuracy (%REC) and Precision (%RPD)

RPD: Relative Percent Difference; comparison between sample and duplicate and/or MS and MSD.

PQL: Practical Quantitation Limit; the limit to which data is quantitated for reporting.

MDL: Method Detection Limit; the limit to which the instrument can reliably detect.

MCL: Maximum Contaminant Level; value set according to EPA guidelines.

Qualifiers:

- \* Analyte exceeds Safe Drinking Water Act MCL, does not meet drinking water standards.
- C Analyte value below Safe Drinking Water Act MCL, does not meet drinking water standards.
- B Analyte found above the PQL in associated method blank.
- G Calibration blank analyte detected above PQL.
- H Sample analyzed beyond holding time for this parameter.
- J Estimated Value; Analyte found between MDL and PQL limits.
- L Sample concentration is at least 5 times greater than spike contribution. Spike recovery criteria do not apply.
- R RPD between sample and duplicate sample outside the RPD acceptance limits.
- S Batch MS and/or MSD were outside acceptance limits, batch LCS was acceptable.
- W Sample temperature when recieved was out of limit as specified by method.
- Z Batch LCS and/or LCSD were outside acceptance limits.

Page 5 of 5

![](_page_95_Picture_0.jpeg)

# **Definition Only**

WO#: 2307117 Date: 8/2/2023

### **Definitions:**

ND = Not Detected

C = Reported concentration includes additional compounds uncharacteristic of common fuels and lubricants.

D = Reporting Limits were increased due to high concentrations of non-target analytes.

H = Reporting Limits were increased due to the hydrocarbons present in the sample.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K = DRO concentration may include contributions from lighter-end hydrocarbons (e.g. gasoline) that elute in the DRO range.

L = DRO concentration may include contributions from heavier-end hydrocarbons (e.g. motor oil) that elute in the DRO range.

O = Reporting Limits were increased due to sample foaming.

V = Reporting Limits were increased due to high concentrations of target analytes.

X = Reporting Limits were increased due to sample matrix interferences.

Z = DRO concentration may include contributions from lighter-end (e.g. gasoline) and heavier-end (e.g. motor oil) hydrocarbons that elute in the DRO range.

S50 = The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The laboratory control sample was acceptable.

S51 = Surrogate recovery could not be determined due to the presence of co-eluting hydrocarbons.

S52 = Surrogate recovery was above laboratory acceptance limits. Probable matrix effect.

S53 = Surrogate recovery was below laboratory acceptance limits. Probable matrix effect.

S54 = Surrogate recovery was below laboratory acceptance limits.

S55 = Surrogate recovery was above laboratory acceptance limits.

### Report CC's Alisa Prary

Anna Henry

**Caitlin Jelle** 

# **WORKORDER SUMMARY**

### Alpha Analytical, Inc.

 255 Glendale Ave, #21
 Sparks, Nevada 89431

 TEL: (775) 355-1044
 FAX: (775) 355-0406

Report Attention: Caitlin Jelle

### Client:

McGinley & Associates, Inc./UES 6995 Sierra Center Parkway Reno, NV 89511 
 TEL:
 7758292245

 FAX:
 7758292213

 ProjectNo:
 BRN098

Date Received: 24-Jul-23

Alpha	Client		Collection	No. of Bottles		es	Requested Tests									
Sample ID	Sample ID	Matrix	Date	Alpha	a Sub	TAT	245_1	625_W	BOD5_W	COD_W	CYANIDE_TOT AL_W	METALS_T_20 0_8	OG_HEM_W	Sample Remarks		
MGA2307117-01	BRN098-WW-002	AQ	7/24/2023 10:15:00 AM	7	2	6	A - Hg	A - Special Analyte List : 625 OC Criteria	A - BOD	A - COD	A - Cyanide, Total	A - Special List	A - Oil/Grs			

### Comments: Formaldehyde subbed to CAL and BOD subbed to SGS.

.

	Signature	Print Name	Company	Date/Time
Logged in by:	alat	Alicia Crubert	Alpha Analytical, Inc.	7/24/23
				1251

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OF 38

# NV

WorkOrder:MGA2307117Report Due By:01-Aug-23EDD Required:YES

### Report CC's Alisa Prary

Anna Henry

**Caitlin Jelle** 

# **WORKORDER SUMMARY**

### Alpha Analytical, Inc.

 255 Glendale Ave, #21
 Sparks, Nevada 89431

 TEL: (775) 355-1044
 FAX: (775) 355-0406

Report Attention: Caitlin Jelle

### Client:

McGinley & Associates, Inc./UES 6995 Sierra Center Parkway Reno, NV 89511 
 TEL:
 7758292245

 FAX:
 7758292213

 ProjectNo:
 BRN098

Date Received: 24-Jul-23

Alpha	Client	Matrix	Collection	No. of Bottles				Requested Tests					
Sample ID	Sample ID		Date	Alpha	Sub	TAT	OTHER	SULFIDE_W	TSS_W	Sample Remarks			
MGA2307117-01	BRN098-WW-002	AQ	7/24/2023 10:15:00 AM	7	2	6	A - Formaldehyde	A - Sulfide	A - TSS				

### **Comments:**

	Signature	Print Name	Company	Date/Time
Logged in by:	alt	Alicia cribert	Alpha Analytical, Inc.	7/24/23
				1251

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic Oragehor of 38

# NV

WorkOrder:MGA2307117Report Due By:01-Aug-23EDD Required:YES

# **CHAIN OF CUSTODY**

															06288									
Billing Information:				Kina Maryucal, inc.				Main Labo Northern C Northern N	Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431 Satellite Service Centers: Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 Northern NV: 350 7th St., Elko, NV 89801							Phone: Fax: Phone: Phone:	775-355-1 775-355-0 916-366-8 775-388-7	044 9406 9089 7043		Page #		of _	1	
Consultant/ Client Info: Company: MGA uddress: City, State, Zip: Samples Collected from which State? (circle one) AR				AR	Job and Purchase Order Info: Job # Job Name: <u>BRN098</u> P.O. #: CA KS (N) OR WA Other					Report Attention/Project Manager:         Name:       C. JELLE         Email Address:       Aprary & Feamues         Phone #:       Cell #:						,.con	CP M EDD Required? ( Global ID: Data Validation Pa			C Deliverable In Teg / No ackages: III		or IV		s / No
Time Sampled (HHMM) 10:157	Date Impled IM/DD)	Matrix" (See Key Below) A Q	Lab ID Number (For Lab	Use Only)	01 BRT	Sar ND98	mple Description	on - 002	TAT 3:etay STD UDO	5 A #Containers** (See Key Below)	X is Field Filtered?	X metals	X SWHOES	CTANIBE X	sis BOXHJOINWI0J X	ested り ナ の	X TOTAL PHENOL	× cod	X 6005	X T55			Remarks	
ADDITIONAL II I (field sample Sampled By: Relinquished b Relinquished b	r) attest to A () Y: (Signato Y: (Signato Y: (Signato	o the valid SA Urre/Affiliatic	-8EE ATTAC ity and authenticity of this sample PRARY DD	mple(s). I am Date: Date: Date: Date:	$M \in \mathbb{R}$ n aware that ta 24/2	The second secon	US with or intention ne: 11:43 ne:	T onally mislabel Re Re	ing the sample acceived by (Sig acceived by: (Sig acceived by: (Sig	location, o nature/Affili nature/Affili	date or til iation): iation):	ne of collect	ction is co	nsidered f	raud and	may be g	prounds f	or legal act	Date:	445.0636	(c) (2). L	Time: 5 Time: Time:	114	.3
NOTE: Sample	es are disc laborator	* Key: A carded 60 c y with this 0	AQ - Aqueous AR-Air lays after sample receipt unless COC. The liability of the laborate	OT s other arran ory is limited	- Other gements are m to the amount	So-Soil ade. Haza paid for the	WA - V ardous samples e report.	Vaste ** s will be returne	B - Brass d to client or dis	L - Liter	O - t client ex	Orbo pense. The	OT - Otl e report for	her Pag	- Plastic	above sam	Soil Jar ples is ap	T - Te oplicable on	dlar ly to those	V - VOA samples				

![](_page_99_Picture_0.jpeg)

August 23, 2023

Caitlin Jelle McGinley & Associates, Inc./UES 6995 Sierra Center Parkway Reno, NV 89511 TEL: (775) 829-2245 FAX: (775) 829-2213

RE: BRN098

Dear Caitlin Jelle:

Order No.: MGA2308118

The result of this report apply to the sample(s) as received.

There were no problems with the analytical events associated with this report unless noted.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Kandy Sandner

Randy Gardner Laboratory Director 255 Glendale Ave, #21 Sparks, Nevada 89431

![](_page_100_Picture_0.jpeg)

# **Analytical Report**

 WO#:
 MGA2308118

 Report Date:
 8/23/2023

## CLIENT: McGinley & Associates, Inc./UES

Project: BRN098

Lab ID: 2308118-01

Client Sample ID: BRN098-WW-003

### Collection Date: 8/18/2023 10:15:00 AM

### Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	Date Analyzed	Method	
Lead (Pb)	0.11	0.0050		mg/L	8/22/2023	EPA 200.8	
Solids, Total Suspended (TSS)	130	2.5		mg/L	8/22/2023	SM 2540 D	

![](_page_101_Picture_0.jpeg)

# QC SUMMARY REPORT

WO#: 2308118

23-Aug-23

Client:McGProject:BRN	inley & Associates, I 098	nc./UE	S			Т	estCode:	MET	ALS_T_	200_8	
Sample ID: MB-19147			SampType	: MBLK	Т	estCode	: METAL	S_T_2	Units:	mg/L	
Client ID: PBW			Batch ID:	19147	Т	estNo:	E200.8				
Prep Date: 8/22/202	3		RunNo:	17618	S	SeqNo:	509957				
Analysis Date: 8/22/202	3										
Apolyto	Posult		SPK Value	SPK Rof Vol	% PEC Low	vl imit	Liahl imit	RPD Rof Vol	0/ DDD		Qual
Lead (Pb)	ND	0.005	value	Rei Vai	%REC LOW	vLIIIII	nighLinni	Rei Vai	%KFD	KFULIIIII	Quai
		0.000									
Sample ID: LCS-19147			SampType	E: LCS	Т	estCode	E METAL	S_T_2	Units:	mg/L	
Client ID: LCSW			Batch ID:	19147	Т	estNo:	E200.8			-	
Prep Date: 8/22/202	3		RunNo:	17618	S	SeqNo:	509958				
Analysis Date: 8/22/202	3										
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC Low	vLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead (Pb)	0.253	0.005	0.25	0	101 8	84.51	115.49				
Sample ID: 2308113-01A	MS		SampType	e: MS	Т	estCode	E METAL	S_T_2	Units:	mg/L	
Client ID: BatchQC			Batch ID:	19147	Т	estNo:	E200.8				
Prep Date: 8/22/202	3		RunNo:	17618	S	SeqNo:	509960				
Analysis Date: 8/22/202	3										
Apolyto	Pocult		SPK	SPK Rof Vol	% PEC Low	vl imit	Liahl imit	RPD Rof Vol			Qual
Lead (Pb)	0.44	0.005	0.25	0.199	96.5 (	69.51	130.49	Rei vai	/0RF D	KF DLIIIII	Quai
(											
Sample ID: 2308113-01A	MSD		SampType	e: MSD	Т	estCode	: METAL	S_T_2	Units:	mg/L	
Client ID: BatchQC			Batch ID:	19147	т	estNo:	E200.8				
Prep Date: 8/22/202	3		RunNo:	17618	S	SeqNo:	509961				
Analysis Date: 8/22/202	3										
Analyte	Result	PQI	SPK Value	SPK Ref Val	%REC Low	vLimit	HiahLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead (Pb)	0.425	0.005	0.25	0.199	90.5 (	69.51	130.49	0.44	3.5	20	

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

![](_page_102_Picture_0.jpeg)

# QC SUMMARY REPORT

WO#: 2308118

23-Aug-23

Client:	McGinley & Asso	ociates, I	nc./UE	ES								
Project:	BRN098						]	FestCode:	TSS_	W		
Sample ID: MBLK-	19153			SampType	: MBLK		TestCoo	le: TSS_W		Units:	mg/L	
Client ID: PBW				Batch ID:	19153		TestNo:	Solids				
Prep Date: 8/2	22/2023			RunNo:	17623		SeqNo:	509998				
Analysis Date: 8/2	22/2023											
Analyte		Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Susper	nded (TSS)	ND	2.5									
Sample ID: LCS-19	9153			SampType	LCS		TestCoo	le: TSS_W		Units:	mg/L	
Client ID: LCSW				Batch ID:	19153		TestNo:	Solids				
Prep Date: 8/2	22/2023			RunNo:	17623		SeqNo:	509999				
Analysis Date: 8/2	22/2023											
				SPK	SPK				RPD			
Analyte		Result	PQL	Value	Ref Val	%REC	LowLimit	HighLimit	Ref Val	%RPD	RPDLimit	Qual
Solids, Total Susper	nded (TSS)	97	2.5	100	0	97.0	56	104				

- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

![](_page_103_Picture_0.jpeg)

# **Definition Only**

WO#: **2308118** Date: **8/23/2023** 

### **Definitions:**

ND = Not Detected

C = Reported concentration includes additional compounds uncharacteristic of common fuels and lubricants.

D = Reporting Limits were increased due to high concentrations of non-target analytes.

H = Reporting Limits were increased due to the hydrocarbons present in the sample.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K = DRO concentration may include contributions from lighter-end hydrocarbons (e.g. gasoline) that elute in the DRO range.

L = DRO concentration may include contributions from heavier-end hydrocarbons (e.g. motor oil) that elute in the DRO range.

O = Reporting Limits were increased due to sample foaming.

V = Reporting Limits were increased due to high concentrations of target analytes.

X = Reporting Limits were increased due to sample matrix interferences.

Z = DRO concentration may include contributions from lighter-end (e.g. gasoline) and heavier-end (e.g. motor oil) hydrocarbons that elute in the DRO range.

S50 = The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The laboratory control sample was acceptable.

S51 = Surrogate recovery could not be determined due to the presence of co-eluting hydrocarbons.

S52 = Surrogate recovery was above laboratory acceptance limits. Probable matrix effect.

S53 = Surrogate recovery was below laboratory acceptance limits. Probable matrix effect.

S54 = Surrogate recovery was below laboratory acceptance limits.

S55 = Surrogate recovery was above laboratory acceptance limits.

Report CC's	Alisa	Prary
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Anna Henry

Caitlin Jelle

# **WORKORDER SUMMARY**

### Alpha Analytical, Inc.

255 Glendale Ave, #21	Sparks, Nevada 89431
TEL: (775) 355-1044	FAX: (775) 355-0406

Report Attention: Caitlin Jelle

Client:

McGinley & Associates, Inc./UES 6995 Sierra Center Parkway Reno, NV 89511 
 TEL:
 7758292245

 FAX:
 7758292213

 ProjectNo:
 BRN098

Date Received: 18-Aug-23

RUSH

MGA2308118

NV

WorkOrder:

Report Due By: 23-Aug-23

EDD Required: YES

Alpha	Client		Collection	No. o	f Bottl	es			Requested Tests
Sample ID	Sample ID	Matrix	Date	Alph	a Sub	ТАТ	METALS_T_20 0_8	TSS_W	Sample Remarks
MGA2308118-01	BRN098-WW-003	AQ	8/18/2023 10:15:00 AM	2	0	3	A - Pb	A - TSS	

Comments: <u>3 day TAT.</u>

	Signature	Print Name	Company	Date/Time
Logged in by:	Kumen	Knowy	Alpha Analytical, Inc.	8/18/23 1215

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-OPage 6 of 7

Company: Attn: Address: City, State, Zip: Phone Number:	Billing Information:		ALPHA	Ma Nort	iin Labor hern CA:	Alpha Ana atory: 255 Glendale Satellite Ser 9891 Hom Road, St Northern NV: 350 7t	<b>lytical, Inc.</b> Ave, Suite 21 Sp. <b>vice Centers:</b> lite C, Rancho Co h St. Elko, NV 894	arks, NV 89431 ordova, CA 9582 801	Phon Fax 27 Phon Phon	ne: 775-355- :: 775-355- ne: 916-366- ne: 775-388-	-1044 0406 9089 7043	Page #	of
company: ddress: city, State, Zip:	Consultant/ Client Info:	Job and Job # Job Name: P.O. #:	d Purchase Order Info:			Report Ar Name: Email Address: Phone #: Cell #:	tention/Projec C. JEI aprary	et Manager:	1ves-com	EDD Rec Global ID Date Vali	QC Deliv quired? Yes / N ): dation Packages:	verable Info o	: EDF Required? Yes / (N or IV
amples Collected	from which State? (circle one) AR CA	KS NV OR WA Oth	er					Analysi	s Requested		,		Remarks
Time Date Sampled Sampled (HHMM) 0:15 8/18	Matrix* (See Kay Below) Lab ID Number (For Lab Use Only) AQ MCA2308118 - 01	Sample Desc BRN098-WI	ription TAT N-003 SDAY	Eleid Filtered? (Yes / No)	2 # Containers** (See Kay Below)	OVI X TSS							
DDITIONAL INSTF	RUCTIONS: test to the validity and authenticity of this sam	ple(s). I am aware that tamp	ering with or intentionally misi	labeling th	e sampl	e location, date or ti	me of collection	is considered f	fraud and may be grou	nds for legal	action. NAC 445	.0636 (c) (2).	
ampled By: A elinquished by: (Si celinquished by: (Si	USA PRARY ignature/Affiliation): ignature/Affiliation):	Date: 8/18/23 Date:	Time: 11:2-3 Time:	Received I	by: (Sign by: (Sign	ature/Affiliation):	Kur	nai	1		Date: <i>B</i> /18/ Date:	23	Time: 1123 Time:
Relinquished by: (Si	ignature/Affiliation):	Date:	Time:	Received I	by: (Sign	ature/Affiliation):		Pag	e 7 of 7		Date:		Time:
NOTE: Samples an received by the labor	* Ke re discarded 60 days after sample receipt unless oratory with this COC. The liability of the laborato	y: AQ - Aqueous AR-Air other arrangements are made ry is limited to the amount pair	OT - Other SO - Soil W . Hazardous samples will be re d for the report.	A-Waste turned to c	**: lient or d	B - Brass L - Lite isposed of at client e	r O - Orbo O kpense. The rep	T-Other S-S ort for the analy	Soil Jar T - Tedlar rsis of the above sample	V-VOA s is applicable	e only to those sa	mples	

![](_page_106_Picture_0.jpeg)

**Built Environment Testing** 

Report for:

John Demarigny, Tomokazu Taniuchi, Chris Webster NOVA Geotechnical & Inspection Services dba Universal Engineering Sciences 4480 W. Hacienda Ave. Suite 104 Las Vegas, NV 89118

Regarding:	Project: 4040.2200020.0085; Brewery Arts Center - Lead Dus EML ID: 3340875
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Approved by:

Laboratory Manager Danny Li

Dates of Analysis: Lead - Flame AA: 08-04-2023

Service SOPs: Lead - Flame AA (EM-BC-S-8443) AIHA-LAP, LLC accredited service, Lab ID #178697

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested. Sample size, as it relates to Wipe samples only, is supplied by the client.

Eurofins EPK Built Environment Testing, LLC ("the Company"), a member of the Eurofins Built Environment Testing group of companies, shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins EPK Built Environment Testing, LLC's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Eurofins EPK Built Environment Testing, LLC

Client: NOVA Geotechnical & Inspection Services dba Universal Engineering Sciences C/O: John Demarigny, Tomokazu Taniuchi, Chris Webster

### **Eurofins EPK Built Environment Testing, LLC**

2841 Dow Avenue, Suite 300, Tustin, CA 92780 (800) 651-4802 www.eurofinsus.com/Built

### Date of Sampling: 08-03-2023

Re: 4040.2200020.0085; Brewery Arts Center - Lead Date of Receipt: 08-04-2023 Dust

Date of Report: 08-04-2023

### LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY

Location:	BRN085-C-001: Westside dust wipe sample	BRN085-C-002: Westside dust wipe sample	BRN085-C-003: Westside dust wipe sample	BRN085-C-004: Westside dust wipe sample
Comments (see below)	None	None	None	None
Lab ID-Version <sup>‡</sup> :	16235485-1	16235486-1	16235487-1	16235488-1
Analysis Date:	08/04/2023	08/04/2023	08/04/2023	08/04/2023
Sample type	Wipe sample	Wipe sample	Wipe sample	Wipe sample
Method*	NIOSH 7082 & EPA 7000B modified			
† Method Reporting Limit	10 ug/ft <sup>2</sup>	10 ug/ft <sup>2</sup>	10 ug/ft <sup>2</sup>	10 ug/ft <sup>2</sup>
Sample size	1 ft <sup>2</sup>	1 ft <sup>2</sup>	1 ft <sup>2</sup>	1 ft <sup>2</sup>
§Total Lead Result	$< 10 \text{ ug/ft}^2$	< 10 ug/ft <sup>2</sup>	$< 10 \text{ ug/ft}^2$	$< 10 \text{ ug/ft}^2$

**Comments:** 

Sample results have not been corrected for blank values.

Bulk samples are not covered under the AIHA-LAP, LLC service accreditation.

Wipe samples must meet ASTM E1792 criteria. Method Reporting Limits may not be valid for non-ASTM E1792 wipe samples.

\*Sample preparation and analytical methods are based upon NIOSH 7082 and EPA 7000B.

<sup>†</sup> The Method Reporting Limit is the minimum concentration of Lead that the laboratory can confidently detect in the sample.

§ Total Lead Result has been rounded to two significant figures to reflect analytical precision.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
Client: NOVA Geotechnical & Inspection Services dba Universal Engineering Sciences C/O: John Demarigny, Tomokazu Taniuchi, Chris

Webster

Re: 4040.2200020.0085; Brewery Arts Center - Lead Date of Receipt: 08-04-2023 Dust

# **Eurofins EPK Built Environment Testing, LLC**

2841 Dow Avenue, Suite 300, Tustin, CA 92780 (800) 651-4802 www.eurofinsus.com/Built

# Date of Sampling: 08-03-2023

Date of Report: 08-04-2023

# LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY

Location:	BRN085-C-005: Northside dust	BRN085-C-006: Northside dust	BRN085-C-007: Northside dust	BRN085-C-008: Northside dust
	wipe	wipe	wipe	wipe
	sample	sample	sample	sample
Comments (see below)	None	None	None	None
Lab ID-Version <sup>‡</sup> :	16235489-1	16235490-1	16235491-1	16235492-1
Analysis Date:	08/04/2023	08/04/2023	08/04/2023	08/04/2023
Sample type	Wipe sample	Wipe sample	Wipe sample	Wipe sample
Sample type Method*	Wipe sample NIOSH 7082 & EPA 7000B modified			
Sample type Method* † Method Reporting Limit	Wipe sample NIOSH 7082 & EPA 7000B modified 10 ug/ft <sup>2</sup>	Wipe sample NIOSH 7082 & EPA 7000B modified 10 ug/ft <sup>2</sup>	Wipe sample NIOSH 7082 & EPA 7000B modified 10 ug/ft <sup>2</sup>	Wipe sample NIOSH 7082 & EPA 7000B modified 10 ug/ft <sup>2</sup>
Sample type Method* † Method Reporting Limit Sample size	Wipe sample NIOSH 7082 & EPA 7000B modified 10 ug/ft <sup>2</sup> 1 ft <sup>2</sup>	Wipe sample NIOSH 7082 & EPA 7000B modified 10 ug/ft <sup>2</sup> 1 ft <sup>2</sup>	Wipe sample NIOSH 7082 & EPA 7000B modified 10 ug/ft <sup>2</sup> 1 ft <sup>2</sup>	Wipe sample NIOSH 7082 & EPA 7000B modified 10 ug/ft <sup>2</sup> 1 ft <sup>2</sup>

**Comments:** 

Sample results have not been corrected for blank values.

Bulk samples are not covered under the AIHA-LAP, LLC service accreditation.

Wipe samples must meet ASTM E1792 criteria. Method Reporting Limits may not be valid for non-ASTM E1792 wipe samples.

\*Sample preparation and analytical methods are based upon NIOSH 7082 and EPA 7000B.

<sup>†</sup> The Method Reporting Limit is the minimum concentration of Lead that the laboratory can confidently detect in the sample.

§ Total Lead Result has been rounded to two significant figures to reflect analytical precision.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: NOVA Geotechnical & Inspection Services dba Universal Engineering Sciences C/O: John Demarigny, Tomokazu Taniuchi, Chris Webster Re: 4040.2200020.0085; Brewery Arts Center - Lead Date of Receipt: 08-04-2023 Dust

#### **Eurofins EPK Built Environment Testing, LLC**

2841 Dow Avenue, Suite 300, Tustin, CA 92780 (800) 651-4802 www.eurofinsus.com/Built

# Date of Sampling: 08-03-2023 Date of Report: 08-04-2023

# LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY

Location:	BRN085-C-009:	BRN085-C-010:	
	Southside dust wipe sample (roof)	Southside dust wipe sample (roof)	
Comments (see below)	None	None	
Lab ID-Version <sup>‡</sup> :	16235493-1	16235494-1	
Analysis Date:	08/04/2023	08/04/2023	
Sample type	Wipe sample	Wipe sample	
Method*	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	
† Method Reporting Limit	10 ug/ft <sup>2</sup>	10 ug/ft <sup>2</sup>	
Sample size	1 ft <sup>2</sup>	1 ft <sup>2</sup>	
§Total Lead Result	< 10 ug/ft <sup>2</sup>	< 10 ug/ft <sup>2</sup>	

**Comments:** 

Sample results have not been corrected for blank values.

Bulk samples are not covered under the AIHA-LAP, LLC service accreditation.

Wipe samples must meet ASTM E1792 criteria. Method Reporting Limits may not be valid for non-ASTM E1792 wipe samples.

\*Sample preparation and analytical methods are based upon NIOSH 7082 and EPA 7000B.

<sup>†</sup> The Method Reporting Limit is the minimum concentration of Lead that the laboratory can confidently detect in the sample.

§ Total Lead Result has been rounded to two significant figures to reflect analytical precision.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".