

Client: Tetra Tech EM Inc.  
Project: Mound Road Plating  
Work Order: 24020611

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
24020611-01	MRP-SW-01-02082024	Surface Water		2/8/2024 14:13	2/8/2024 22:00	<input type="checkbox"/>
24020611-02	MRP-SW-02-02082024	Surface Water		2/8/2024 14:31	2/8/2024 22:00	<input type="checkbox"/>
24020611-03	MRP-SS-01-02082024	Soil		2/8/2024 14:19	2/8/2024 22:00	<input type="checkbox"/>
24020611-04	MRP-DW-01-02082024	Liquid		2/8/2024 16:10	2/8/2024 22:00	<input type="checkbox"/>
24020611-05	MRP-SS-02-02082024	Soil		2/8/2024 16:15	2/8/2024 22:00	<input type="checkbox"/>

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**Project:** Mound Road Plating  
**Work Order:** 24020611

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**Case Narrative**

Samples for the above noted Work Order were received on 02/08/2024. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

**Metals:**

Batch 234804, Method SW6020B, Sample LCS-234804: The LCS recovery was above the upper control limit. The sample results for this batch may be biased high for this analyte: Aluminum.

Batch 234782, Method SW6020B, Sample 24020611-05A MS/MSD: The MS/MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Vanadium.

Batch 234782, Method SW6020B, Sample 24020611-05A MS/MSD: The MS/MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Multiple compounds per the QC report.

Batch 234782, Method SW6020B, Sample 24020611-05AMSD: The RPD between the MS and MSD was outside of the control limit. The corresponding result should be considered estimated for this compound: Potassium.

**Wet Chemistry:**

Batch R396052, Method A4500-H B-11: pH is considered a "field test" and, as such, the recommended sample holding time expired prior to sample receipt.

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**QUALIFIERS,  
ACRONYMS, UNITS**

<b><u>Qualifier</u></b>	<b><u>Description</u></b>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<b><u>Acronym</u></b>	<b><u>Description</u></b>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<b><u>Units Reported</u></b>	<b><u>Description</u></b>
% of sample	Percent of Sample
°C	Degrees Celcius
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
s.u.	Standard Units

# ALS Group, USA

Date: 13-Feb-24

Client: Tetra Tech EM Inc.  
Project: Mound Road Plating  
Sample ID: MRP-SW-01-02082024  
Collection Date: 2/8/2024 02:13 PM

Work Order: 24020611  
Lab ID: 24020611-01  
Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS BY ICP-MS</b>							
	Method: <b>SW6020B</b>			Prep: SW3015A / 2/9/24		Analyst: <b>STP</b>	
Aluminum	0.060		0.0057	0.010	mg/L	1	2/9/2024 14:31
Antimony	0.00065	J	0.00042	0.0050	mg/L	1	2/9/2024 14:31
Arsenic	0.0019	J	0.00019	0.0050	mg/L	1	2/9/2024 14:31
Barium	0.13		0.00057	0.0050	mg/L	1	2/9/2024 14:31
Beryllium	U		0.00013	0.0020	mg/L	1	2/9/2024 14:31
Cadmium	U		0.00014	0.0020	mg/L	1	2/9/2024 14:31
Calcium	150		0.22	0.50	mg/L	1	2/9/2024 14:31
Chromium	0.0039	J	0.00061	0.0050	mg/L	1	2/9/2024 14:31
Cobalt	0.00037	J	0.00027	0.0050	mg/L	1	2/9/2024 14:31
Copper	0.34		0.00099	0.0050	mg/L	1	2/9/2024 14:31
Iron	0.31		0.047	0.080	mg/L	1	2/9/2024 14:31
Lead	0.00031	J	0.00022	0.0050	mg/L	1	2/9/2024 14:31
Magnesium	31		0.037	0.20	mg/L	1	2/9/2024 14:31
Manganese	0.11		0.0017	0.0050	mg/L	1	2/9/2024 14:31
Nickel	0.016		0.00085	0.0050	mg/L	1	2/9/2024 14:31
Potassium	7.8		0.034	0.20	mg/L	1	2/9/2024 14:31
Selenium	0.0022	J	0.00048	0.0050	mg/L	1	2/9/2024 14:31
Silver	U		0.00026	0.0050	mg/L	1	2/9/2024 14:31
Sodium	410		1.3	2.0	mg/L	10	2/9/2024 14:58
Thallium	0.00017	J	0.00015	0.0050	mg/L	1	2/9/2024 14:31
Vanadium	0.0021	J	0.00070	0.0050	mg/L	1	2/9/2024 14:31
Zinc	0.036		0.0022	0.010	mg/L	1	2/9/2024 14:31
<b>CYANIDE, TOTAL</b>							
	Method: <b>SW9012B</b>			Prep: SW9012B / 2/9/24		Analyst: <b>JMT</b>	
Cyanide, Total	0.18		0.0047	0.0050	mg/L	1	2/9/2024 09:56
<b>PH (LABORATORY)</b>							
	Method: <b>A4500-H B-11</b>					Analyst: <b>MGS</b>	
pH (laboratory)	8.12	H	0.10	0.10	s.u.	1	2/9/2024 09:52
Temperature	13.0	H	0.10	0.10	°C	1	2/9/2024 09:52

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group, USA

Date: 13-Feb-24

Client: Tetra Tech EM Inc.  
Project: Mound Road Plating  
Sample ID: MRP-SW-02-02082024  
Collection Date: 2/8/2024 02:31 PM

Work Order: 24020611  
Lab ID: 24020611-02  
Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS BY ICP-MS</b>							
	Method: SW6020B			Prep: SW3015A / 2/9/24		Analyst: STP	
Aluminum	0.25		0.0057	0.010	mg/L	1	2/9/2024 14:33
Antimony	0.00066	J	0.00042	0.0050	mg/L	1	2/9/2024 14:33
Arsenic	0.0019	J	0.00019	0.0050	mg/L	1	2/9/2024 14:33
Barium	0.12		0.00057	0.0050	mg/L	1	2/9/2024 14:33
Beryllium	U		0.00013	0.0020	mg/L	1	2/9/2024 14:33
Cadmium	0.00018	J	0.00014	0.0020	mg/L	1	2/9/2024 14:33
Calcium	150		0.22	0.50	mg/L	1	2/9/2024 14:33
Chromium	0.0042	J	0.00061	0.0050	mg/L	1	2/9/2024 14:33
Cobalt	0.00049	J	0.00027	0.0050	mg/L	1	2/9/2024 14:33
Copper	0.47		0.00099	0.0050	mg/L	1	2/9/2024 14:33
Iron	0.43		0.047	0.080	mg/L	1	2/9/2024 14:33
Lead	0.00086	J	0.00022	0.0050	mg/L	1	2/9/2024 14:33
Magnesium	31		0.037	0.20	mg/L	1	2/9/2024 14:33
Manganese	0.12		0.0017	0.0050	mg/L	1	2/9/2024 14:33
Nickel	0.016		0.00085	0.0050	mg/L	1	2/9/2024 14:33
Potassium	7.9		0.034	0.20	mg/L	1	2/9/2024 14:33
Selenium	0.0021	J	0.00048	0.0050	mg/L	1	2/9/2024 14:33
Silver	U		0.00026	0.0050	mg/L	1	2/9/2024 14:33
Sodium	440		1.3	2.0	mg/L	10	2/9/2024 15:00
Thallium	U		0.00015	0.0050	mg/L	1	2/9/2024 14:33
Vanadium	0.0025	J	0.00070	0.0050	mg/L	1	2/9/2024 14:33
Zinc	0.034		0.0022	0.010	mg/L	1	2/9/2024 14:33
<b>CYANIDE, TOTAL</b>							
	Method: SW9012B			Prep: SW9012B / 2/9/24		Analyst: JMT	
Cyanide, Total	0.18		0.0047	0.0050	mg/L	1	2/9/2024 09:59
<b>PH (LABORATORY)</b>							
	Method: A4500-H B-11			Analyst: MGS			
pH (laboratory)	8.14	H	0.10	0.10	s.u.	1	2/9/2024 09:52
Temperature	13.3	H	0.10	0.10	°C	1	2/9/2024 09:52

Note: See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group, USA

Date: 13-Feb-24

Client: Tetra Tech EM Inc.  
Project: Mound Road Plating  
Sample ID: MRP-SS-01-02082024  
Collection Date: 2/8/2024 02:19 PM

Work Order: 24020611  
Lab ID: 24020611-03  
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS BY ICP-MS</b>							
			Method: SW6020B		Prep: SW3050B / 2/9/24		Analyst: STP
Aluminum	5,700		200	260	mg/Kg-dry	100	2/9/2024 13:30
Antimony	U		0.86	3.2	mg/Kg-dry	10	2/9/2024 13:14
Arsenic	4.2		0.38	3.2	mg/Kg-dry	10	2/9/2024 13:14
Barium	54		2.9	3.2	mg/Kg-dry	10	2/9/2024 13:14
Beryllium	0.42	J	0.22	1.3	mg/Kg-dry	10	2/9/2024 13:14
Cadmium	0.37	J	0.19	1.3	mg/Kg-dry	10	2/9/2024 13:14
Calcium	55,000		150	320	mg/Kg-dry	10	2/9/2024 13:14
Chromium	140		1.4	3.2	mg/Kg-dry	10	2/9/2024 13:14
Cobalt	4.8		0.52	3.2	mg/Kg-dry	10	2/9/2024 13:14
Copper	220		3.2	3.2	mg/Kg-dry	10	2/9/2024 13:14
Iron	22,000		100	130	mg/Kg-dry	10	2/9/2024 13:14
Lead	17		1.5	3.2	mg/Kg-dry	10	2/9/2024 13:14
Magnesium	19,000		90	130	mg/Kg-dry	10	2/9/2024 13:14
Manganese	540		2.7	3.2	mg/Kg-dry	10	2/9/2024 13:14
Nickel	60		1.7	3.2	mg/Kg-dry	10	2/9/2024 13:14
Potassium	1,900		54	130	mg/Kg-dry	10	2/9/2024 13:14
Selenium	U		2.9	3.2	mg/Kg-dry	10	2/9/2024 13:14
Silver	U		0.42	3.2	mg/Kg-dry	10	2/9/2024 13:14
Sodium	480		170	190	mg/Kg-dry	10	2/9/2024 13:14
Thallium	0.80	J	0.50	3.2	mg/Kg-dry	10	2/9/2024 13:14
Vanadium	21		0.82	3.2	mg/Kg-dry	10	2/9/2024 13:14
Zinc	160		6.3	6.4	mg/Kg-dry	10	2/9/2024 13:14
<b>CYANIDE, TOTAL</b>							
			Method: SW9012B		Prep: SW9012B / 2/9/24		Analyst: JMT
Cyanide, Total	7.6		0.14	0.15	mg/Kg-dry	2	2/9/2024 10:09
<b>MOISTURE</b>							
			Method: SW3550C				Analyst: SGH
Moisture	18		0.10	0.10	% of sample	1	2/9/2024 09:03
<b>SOIL PH MEASURED IN WATER AT NOTED TEMP.</b>							
			Method: SW9045D		Prep: SW9045D / 2/9/24		Analyst: MGS
pH	8.21		0.10	0.10	s.u.	1	2/9/2024 09:52
Temperature	19.9		0.10	0.10	°C	1	2/9/2024 09:52

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group, USA

Date: 13-Feb-24

Client: Tetra Tech EM Inc.  
Project: Mound Road Plating  
Sample ID: MRP-DW-01-02082024  
Collection Date: 2/8/2024 04:10 PM

Work Order: 24020611  
Lab ID: 24020611-04  
Matrix: LIQUID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS BY ICP-MS</b>							
	Method: <b>SW6020B</b>			Prep: SW3015A / 2/9/24		Analyst: <b>STP</b>	
Aluminum	20		0.57	1.0	mg/L	100	2/9/2024 14:35
Antimony	0.33	J	0.042	0.50	mg/L	100	2/9/2024 14:35
Arsenic	0.20	J	0.019	0.50	mg/L	100	2/9/2024 14:35
Barium	0.35	J	0.057	0.50	mg/L	100	2/9/2024 14:35
Beryllium	0.054	J	0.013	0.20	mg/L	100	2/9/2024 14:35
Cadmium	0.024	J	0.014	0.20	mg/L	100	2/9/2024 14:35
Calcium	220		22	50	mg/L	100	2/9/2024 14:35
Chromium	16		0.061	0.50	mg/L	100	2/9/2024 14:35
Cobalt	7.9		0.027	0.50	mg/L	100	2/9/2024 14:35
Copper	75		0.099	0.50	mg/L	100	2/9/2024 14:35
Iron	130		4.7	8.0	mg/L	100	2/9/2024 14:35
Lead	2.2		0.022	0.50	mg/L	100	2/9/2024 14:35
Magnesium	610		3.7	20	mg/L	100	2/9/2024 14:35
Manganese	13		0.17	0.50	mg/L	100	2/9/2024 14:35
Nickel	69,000		85	500	mg/L	100000	2/9/2024 15:06
Potassium	640		3.4	20	mg/L	100	2/9/2024 14:35
Selenium	0.94		0.048	0.50	mg/L	100	2/9/2024 14:35
Silver	0.082	J	0.026	0.50	mg/L	100	2/9/2024 14:35
Sodium	32,000		13,000	20,000	mg/L	100000	2/9/2024 15:06
Thallium	U		0.015	0.50	mg/L	100	2/9/2024 14:35
Vanadium	0.12	J	0.070	0.50	mg/L	100	2/9/2024 14:35
Zinc	29		0.22	1.0	mg/L	100	2/9/2024 14:35
<b>CYANIDE, TOTAL</b>							
	Method: <b>SW9012B</b>			Prep: SW9012B / 2/9/24		Analyst: <b>JMT</b>	
Cyanide, Total	0.24		0.028	0.030	mg/L	1	2/9/2024 09:59
<b>PH (LABORATORY)</b>							
	Method: <b>A4500-H B-11</b>			Analyst: <b>MGS</b>			
pH (laboratory)	3.97	H	0.10	0.10	s.u.	1	2/9/2024 09:52
Temperature	14.1	H	0.10	0.10	°C	1	2/9/2024 09:52

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



# ALS Group, USA

Date: 13-Feb-24

**Client:** Tetra Tech EM Inc.  
**Project:** Mound Road Plating  
**Sample ID:** MRP-SS-02-02082024  
**Collection Date:** 2/8/2024 04:15 PM

**Work Order:** 24020611  
**Lab ID:** 24020611-05  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TCLP MERCURY BY CVAA</b>							
			Method: <b>SW7470A</b>		Leachate: SW1311 / 2/11/24 Prep: SW7470 / 2/12/24		Analyst: <b>KRA</b>
Mercury	U		0.0016	0.0020	mg/L	1	2/12/2024 15:11
<b>METALS BY ICP-MS</b>							
			Method: <b>SW6020B</b>		Prep: SW3050B / 2/9/24		Analyst: <b>STP</b>
Aluminum	7,100		3,000	3,800	mg/Kg-dry	1000	2/9/2024 13:35
Antimony	U		1.3	4.7	mg/Kg-dry	10	2/9/2024 13:15
Arsenic	1.7	J	0.57	4.7	mg/Kg-dry	10	2/9/2024 13:15
Barium	49		4.4	4.7	mg/Kg-dry	10	2/9/2024 13:15
Beryllium	1.6	J	0.32	1.9	mg/Kg-dry	10	2/9/2024 13:15
Cadmium	59		0.28	1.9	mg/Kg-dry	10	2/9/2024 13:15
Calcium	5,800		230	470	mg/Kg-dry	10	2/9/2024 13:15
Chromium	120		2.1	4.7	mg/Kg-dry	10	2/9/2024 13:15
Cobalt	17		0.78	4.7	mg/Kg-dry	10	2/9/2024 13:15
Copper	1,400		4.7	4.7	mg/Kg-dry	10	2/9/2024 13:15
Iron	8,000		150	190	mg/Kg-dry	10	2/9/2024 13:15
Lead	30		2.3	4.7	mg/Kg-dry	10	2/9/2024 13:15
Magnesium	7,100		130	190	mg/Kg-dry	10	2/9/2024 13:15
Manganese	120		4.0	4.7	mg/Kg-dry	10	2/9/2024 13:15
Nickel	72,000		250	470	mg/Kg-dry	1000	2/9/2024 13:35
Potassium	2,100		80	190	mg/Kg-dry	10	2/9/2024 13:15
Selenium	U		4.4	4.7	mg/Kg-dry	10	2/9/2024 13:15
Silver	6.5		0.63	4.7	mg/Kg-dry	10	2/9/2024 13:15
Sodium	66,000		250	280	mg/Kg-dry	10	2/9/2024 13:15
Thallium	U		0.74	4.7	mg/Kg-dry	10	2/9/2024 13:15
Vanadium	26		1.2	4.7	mg/Kg-dry	10	2/9/2024 13:15
Zinc	490		9.3	9.5	mg/Kg-dry	10	2/9/2024 13:15
<b>TCLP METALS ANALYSIS BY ICP-MS</b>							
			Method: <b>SW6020B</b>		Leachate: SW1311 / 2/11/24 Prep: SW3015A / 2/12/24		Analyst: <b>STP</b>
Arsenic	0.0037	J	0.0019	0.050	mg/L	1	2/12/2024 17:18
Barium	0.082		0.0057	0.050	mg/L	1	2/12/2024 17:18
Cadmium	0.29		0.0014	0.020	mg/L	1	2/12/2024 17:18
Chromium	0.26		0.0061	0.050	mg/L	1	2/12/2024 17:18
Lead	0.024	J	0.0022	0.050	mg/L	1	2/12/2024 17:18
Selenium	0.027	J	0.0048	0.050	mg/L	1	2/12/2024 17:18
Silver	U		0.0026	0.050	mg/L	1	2/12/2024 17:18
<b>CYANIDE, TOTAL</b>							
			Method: <b>SW9012B</b>		Prep: SW9012B / 2/9/24		Analyst: <b>JMT</b>
Cyanide, Total	3.4		0.097	0.10	mg/Kg-dry	1	2/9/2024 10:08
<b>CYANIDE, TOTAL</b>							
			Method: <b>SW9012B</b>		Prep: SW9012B / 2/12/24		Analyst: <b>JMT</b>

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group, USA****Date:** 13-Feb-24

**Client:** Tetra Tech EM Inc.  
**Project:** Mound Road Plating  
**Sample ID:** MRP-SS-02-02082024  
**Collection Date:** 2/8/2024 04:15 PM

**Work Order:** 24020611  
**Lab ID:** 24020611-05  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyanide, Total	0.019		0.0047	0.0050	mg/L	1	2/12/2024 14:01
<b>MOISTURE</b>			Method: <b>SW3550C</b>				Analyst: <b>SGH</b>
Moisture	40		0.10	0.10	% of sample	1	2/9/2024 09:03
<b>SOIL PH MEASURED IN WATER AT NOTED TEMP.</b>			Method: <b>SW9045D</b>			Prep: SW9045D / 2/9/24	Analyst: <b>MGS</b>
pH	5.34		0.10	0.10	s.u.	1	2/9/2024 09:52
Temperature	19.5		0.10	0.10	°C	1	2/9/2024 09:52

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**Client:** Tetra Tech EM Inc.  
**Work Order:** 24020611  
**Project:** Mound Road Plating

**QC BATCH REPORT**

Batch ID: **234879** Instrument ID **HG5** Method: **SW7470A**

<b>MBLK</b>		Sample ID: <b>MBLK-234879-234879</b>				Units: <b>mg/L</b>		Analysis Date: <b>2/12/2024 02:18 PM</b>		
Client ID:		Run ID: <b>HG5_240212A</b>				SeqNo: <b>10471602</b>		Prep Date: <b>2/12/2024</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.00020

<b>LCS</b>		Sample ID: <b>LCS-234879-234879</b>				Units: <b>mg/L</b>		Analysis Date: <b>2/12/2024 02:19 PM</b>		
Client ID:		Run ID: <b>HG5_240212A</b>				SeqNo: <b>10471603</b>		Prep Date: <b>2/12/2024</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.002355 0.00020 0.002 0 118 80-120 0

<b>MS</b>		Sample ID: <b>24020080-11BMS</b>				Units: <b>mg/L</b>		Analysis Date: <b>2/12/2024 02:23 PM</b>		
Client ID:		Run ID: <b>HG5_240212A</b>				SeqNo: <b>10471605</b>		Prep Date: <b>2/12/2024</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.02295 0.0020 0.02 -0.000645 118 75-125 0

<b>MSD</b>		Sample ID: <b>24020080-11BMSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>2/12/2024 02:25 PM</b>		
Client ID:		Run ID: <b>HG5_240212A</b>				SeqNo: <b>10471606</b>		Prep Date: <b>2/12/2024</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.02295 0.0020 0.02 -0.000645 118 75-125 0.02295 0 20

The following samples were analyzed in this batch: 24020611-05A

Client: Tetra Tech EM Inc.  
Work Order: 24020611  
Project: Mound Road Plating

QC BATCH REPORT

Batch ID: 234782 Instrument ID ICPMS3 Method: SW6020B

MBLK		Sample ID: MBLK-234782-234782				Units: mg/Kg		Analysis Date: 2/9/2024 01:10 PM		
Client ID:		Run ID: ICPMS3_240209B				SeqNo: 10465704		Prep Date: 2/9/2024		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	U	2.0								
Antimony	U	0.25								
Arsenic	U	0.25								
Barium	U	0.25								
Beryllium	U	0.10								
Cadmium	U	0.10								
Calcium	U	25								
Chromium	U	0.25								
Cobalt	U	0.25								
Copper	U	0.25								
Iron	U	10								
Lead	U	0.25								
Magnesium	U	10								
Manganese	U	0.25								
Nickel	U	0.25								
Potassium	U	10								
Selenium	U	0.25								
Silver	U	0.25								
Sodium	U	15								
Thallium	U	0.25								
Vanadium	U	0.25								
Zinc	U	0.50								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.  
Work Order: 24020611  
Project: Mound Road Plating

QC BATCH REPORT

Batch ID: 234782      Instrument ID ICPMS3      Method: SW6020B

LCS				Sample ID: LCS-234782-234782		Units: mg/Kg		Analysis Date: 2/9/2024 01:12 PM			
Client ID:			Run ID: ICPMS3_240209B			SeqNo: 10465706		Prep Date: 2/9/2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aluminum	5.225	2.0	5	0	104	80-120	0				
Antimony	5.167	0.25	5	0	103	80-120	0				
Arsenic	5.064	0.25	5	0	101	80-120	0				
Barium	5.233	0.25	5	0	105	80-120	0				
Beryllium	5.053	0.10	5	0	101	80-120	0				
Cadmium	5.147	0.10	5	0	103	80-120	0				
Calcium	526.3	25	500	0	105	80-120	0				
Chromium	5.104	0.25	5	0	102	80-120	0				
Cobalt	5.211	0.25	5	0	104	80-120	0				
Copper	5.134	0.25	5	0	103	80-120	0				
Iron	521.6	10	500	0	104	80-120	0				
Lead	5.205	0.25	5	0	104	80-120	0				
Magnesium	536.3	10	500	0	107	80-120	0				
Manganese	5.276	0.25	5	0	106	80-120	0				
Nickel	5.139	0.25	5	0	103	80-120	0				
Potassium	536.5	10	500	0	107	80-120	0				
Selenium	5.095	0.25	5	0	102	80-120	0				
Silver	5.191	0.25	5	0	104	80-120	0				
Sodium	529.1	15	500	0	106	80-120	0				
Thallium	4.965	0.25	5	0	99.3	80-120	0				
Vanadium	5.296	0.25	5	0	106	80-120	0				
Zinc	5.152	0.50	5	0	103	80-120	0				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.  
**Work Order:** 24020611  
**Project:** Mound Road Plating

## QC BATCH REPORT

Batch ID: **234782** Instrument ID **ICPMS3** Method: **SW6020B**

MS					Sample ID: 24020611-05AMS		Units: mg/Kg		Analysis Date: 2/9/2024 01:17 PM		
Client ID: MRP-SS-02-02082024			Run ID: ICPMS3_240209B			SeqNo: 10465712		Prep Date: 2/9/2024		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Antimony	5.361	2.9	5.721	0.5392	84.3	75-125	0				
Arsenic	6.751	2.9	5.721	0.9848	101	75-125	0				
Barium	36.67	2.9	5.721	29.34	128	75-125	0			SO	
Beryllium	6.627	1.1	5.721	0.961	99	75-125	0				
Cadmium	39.92	1.1	5.721	35.09	84.4	75-125	0			O	
Calcium	3709	290	572.1	3476	40.7	75-125	0			SO	
Chromium	75.04	2.9	5.721	70.41	80.8	75-125	0			O	
Cobalt	15.8	2.9	5.721	9.955	102	75-125	0				
Copper	807.8	2.9	5.721	813.4	-96.4	75-125	0			SO	
Iron	5721	110	572.1	4759	168	75-125	0			SO	
Lead	23.58	2.9	5.721	17.7	103	75-125	0				
Magnesium	4843	110	572.1	4218	109	75-125	0			O	
Manganese	76.37	2.9	5.721	72.7	64.2	75-125	0			SO	
Potassium	1916	110	572.1	1261	115	75-125	0				
Selenium	6.122	2.9	5.721	0.3015	102	75-125	0				
Silver	9.338	2.9	5.721	3.878	95.4	75-125	0				
Sodium	40060	170	572.1	39470	103	75-125	0			O	
Thallium	5.448	2.9	5.721	0.1151	93.2	75-125	0				
Vanadium	24.24	2.9	5.721	15.68	150	75-125	0			S	
Zinc	297.3	5.7	5.721	290.2	124	75-125	0			O	

MS				Sample ID: 24020611-05AMS				Units: mg/Kg		Analysis Date: 2/9/2024 01:37 PM			
Client ID: MRP-SS-02-02082024				Run ID: ICPMS3_240209B				SeqNo: 10466143		Prep Date: 2/9/2024		DF: 1000	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Aluminum	7137	2,300	5.721	4235	50700	75-125	0			SO			
Nickel	37410	290	5.721	42830	-94800	75-125	0			SO			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.  
Work Order: 24020611  
Project: Mound Road Plating

QC BATCH REPORT

Batch ID: 234782      Instrument ID ICPMS3      Method: SW6020B

MSD				Sample ID: 24020611-05AMSD		Units: mg/Kg		Analysis Date: 2/9/2024 01:19 PM		
Client ID: MRP-SS-02-02082024			Run ID: ICPMS3_240209B			SeqNo: 10465715		Prep Date: 2/9/2024		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	5.356	2.9	5.889	0.5392	81.8	75-125	5.361	0.0873	20	
Arsenic	7.037	2.9	5.889	0.9848	103	75-125	6.751	4.15	20	
Barium	41.3	2.9	5.889	29.34	203	75-125	36.67	11.9	20	SO
Beryllium	7.395	1.2	5.889	0.961	109	75-125	6.627	11	20	
Cadmium	39.89	1.2	5.889	35.09	81.5	75-125	39.92	0.0747	20	O
Calcium	4256	290	588.9	3476	132	75-125	3709	13.7	20	SO
Chromium	85.66	2.9	5.889	70.41	259	75-125	75.04	13.2	20	SO
Cobalt	16.37	2.9	5.889	9.955	109	75-125	15.8	3.58	20	
Copper	848.7	2.9	5.889	813.4	601	75-125	807.8	4.94	20	SO
Iron	6734	120	588.9	4759	335	75-125	5721	16.3	20	SO
Lead	24.5	2.9	5.889	17.7	116	75-125	23.58	3.84	20	
Magnesium	5516	120	588.9	4218	220	75-125	4843	13	20	SO
Manganese	83.97	2.9	5.889	72.7	191	75-125	76.37	9.48	20	SO
Potassium	2345	120	588.9	1261	184	75-125	1916	20.2	20	SR
Selenium	5.747	2.9	5.889	0.3015	92.5	75-125	6.122	6.31	20	
Silver	9.433	2.9	5.889	3.878	94.3	75-125	9.338	1.01	20	
Sodium	35890	180	588.9	39470	-608	75-125	40060	11	20	SO
Thallium	5.824	2.9	5.889	0.1151	96.9	75-125	5.448	6.67	20	
Vanadium	27.14	2.9	5.889	15.68	194	75-125	24.24	11.3	20	S
Zinc	302.8	5.9	5.889	290.2	215	75-125	297.3	1.85	20	SO

MSD					Sample ID: 24020611-05AMSD		Units: mg/Kg		Analysis Date: 2/9/2024 01:38 PM		
Client ID: MRP-SS-02-02082024				Run ID: ICPMS3_240209B			SeqNo: 10466144		Prep Date: 2/9/2024		DF: 1000
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aluminum	6325	2,400	5.889	4235	35500	75-125	7137	12.1	20	SO	
Nickel	36250	290	5.889	42830	-1E+05	75-125	37410	3.14	20	SO	

The following samples were analyzed in this batch:

24020611-03A	24020611-05A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.  
Work Order: 24020611  
Project: Mound Road Plating

QC BATCH REPORT

Batch ID: 234804 Instrument ID ICPMS3 Method: SW6020B

MBLK		Sample ID: MBLK-234804-234804				Units: mg/L		Analysis Date: 2/9/2024 02:25 PM		
Client ID:		Run ID: ICPMS3_240209A				SeqNo: 10466172		Prep Date: 2/9/2024		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	U	0.0091								
Antimony	U	0.0045								
Arsenic	U	0.0045								
Barium	U	0.0045								
Beryllium	U	0.0018								
Cadmium	U	0.0018								
Calcium	U	0.45								
Chromium	U	0.0045								
Cobalt	U	0.0045								
Copper	U	0.0045								
Iron	U	0.073								
Lead	U	0.0045								
Magnesium	U	0.18								
Manganese	U	0.0045								
Nickel	U	0.0045								
Potassium	0.03526	0.18								J
Selenium	U	0.0045								
Silver	U	0.0045								
Sodium	U	0.18								
Thallium	U	0.0045								
Vanadium	U	0.0045								
Zinc	U	0.0091								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Tetra Tech EM Inc.  
Work Order: 24020611  
Project: Mound Road Plating

QC BATCH REPORT

Batch ID: 234804      Instrument ID ICPMS3      Method: SW6020B

LCS				Sample ID: LCS-234804-234804		Units: mg/L		Analysis Date: 2/9/2024 02:26 PM		
Client ID:			Run ID: ICPMS3_240209A			SeqNo: 10466173		Prep Date: 2/9/2024		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1262	0.0091	0.1	0	126	80-120	0			S
Antimony	0.1001	0.0045	0.1	0	100	80-120	0			
Arsenic	0.09773	0.0045	0.1	0	97.7	80-120	0			
Barium	0.0988	0.0045	0.1	0	98.8	80-120	0			
Beryllium	0.09634	0.0018	0.1	0	96.3	80-120	0			
Cadmium	0.09785	0.0018	0.1	0	97.8	80-120	0			
Calcium	9.861	0.45	10	0	98.6	80-120	0			
Chromium	0.09886	0.0045	0.1	0	98.9	80-120	0			
Cobalt	0.1008	0.0045	0.1	0	101	80-120	0			
Copper	0.09895	0.0045	0.1	0	99	80-120	0			
Iron	9.888	0.073	10	0	98.9	80-120	0			
Lead	0.09702	0.0045	0.1	0	97	80-120	0			
Magnesium	10.14	0.18	10	0	101	80-120	0			
Manganese	0.09887	0.0045	0.1	0	98.9	80-120	0			
Nickel	0.0998	0.0045	0.1	0	99.8	80-120	0			
Potassium	10.04	0.18	10	0	100	80-120	0			
Selenium	0.09751	0.0045	0.1	0	97.5	80-120	0			
Silver	0.1	0.0045	0.1	0	100	80-120	0			
Sodium	10.03	0.18	10	0	100	80-120	0			
Thallium	0.0913	0.0045	0.1	0	91.3	80-120	0			
Vanadium	0.1002	0.0045	0.1	0	100	80-120	0			
Zinc	0.102	0.0091	0.1	0	102	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.  
**Work Order:** 24020611  
**Project:** Mound Road Plating

## QC BATCH REPORT

Batch ID: **234804** Instrument ID **ICPMS3** Method: **SW6020B**

MS				Sample ID: <b>24020272-10AMS</b>			Units: <b>mg/L</b>		Analysis Date: <b>2/9/2024 03:40 PM</b>	
Client ID:		Run ID: <b>ICPMS3_240209A</b>			SeqNo: <b>10466667</b>		Prep Date: <b>2/9/2024</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.182	0.010	0.1	0.03376	148	75-125	0			S
Antimony	0.108	0.0050	0.1	0.0000902	108	75-125	0			
Arsenic	0.1069	0.0050	0.1	0.0002772	107	75-125	0			
Barium	0.1455	0.0050	0.1	0.03374	112	75-125	0			
Beryllium	0.1099	0.0020	0.1	0.0000297	110	75-125	0			
Cadmium	0.1117	0.0020	0.1	0.0000055	112	75-125	0			
Calcium	133.1	0.50	10	134.6	-15.4	75-125	0			SO
Chromium	0.1075	0.0050	0.1	0.0007557	107	75-125	0			
Cobalt	0.1069	0.0050	0.1	0.0003036	107	75-125	0			
Copper	0.1046	0.0050	0.1	0.0006941	104	75-125	0			
Iron	11.04	0.080	10	0.07066	110	75-125	0			
Lead	0.1155	0.0050	0.1	0.0002629	115	75-125	0			
Magnesium	50.95	0.20	10	43.58	73.7	75-125	0			SO
Manganese	0.1309	0.0050	0.1	0.0117	119	75-125	0			
Nickel	0.1085	0.0050	0.1	0.003694	105	75-125	0			
Potassium	14.63	0.20	10	3.512	111	75-125	0			
Selenium	0.1072	0.0050	0.1	0.0003432	107	75-125	0			
Silver	0.1058	0.0050	0.1	0.0000044	106	75-125	0			
Sodium	99.5	0.20	10	96.55	29.5	75-125	0			SO
Thallium	0.1098	0.0050	0.1	0.0000308	110	75-125	0			
Vanadium	0.1134	0.0050	0.1	0.0005346	113	75-125	0			
Zinc	0.1203	0.010	0.1	0.01728	103	75-125	0			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.  
Work Order: 24020611  
Project: Mound Road Plating

QC BATCH REPORT

Batch ID: 234804 Instrument ID ICPMS3 Method: SW6020B

MSD				Sample ID: 24020272-10AMSD			Units: mg/L		Analysis Date: 2/9/2024 03:41 PM	
Client ID:		Run ID: ICPMS3_240209A			SeqNo: 10466668		Prep Date: 2/9/2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1603	0.010	0.1	0.03376	127	75-125	0.182	12.7	20	S
Antimony	0.105	0.0050	0.1	0.0000902	105	75-125	0.108	2.82	20	
Arsenic	0.1053	0.0050	0.1	0.0002772	105	75-125	0.1069	1.58	20	
Barium	0.1354	0.0050	0.1	0.03374	102	75-125	0.1455	7.22	20	
Beryllium	0.102	0.0020	0.1	0.0000297	102	75-125	0.1099	7.46	20	
Cadmium	0.1029	0.0020	0.1	0.0000055	103	75-125	0.1117	8.24	20	
Calcium	127.1	0.50	10	134.6	-74.9	75-125	133.1	4.57	20	SO
Chromium	0.1045	0.0050	0.1	0.0007557	104	75-125	0.1075	2.83	20	
Cobalt	0.1035	0.0050	0.1	0.0003036	103	75-125	0.1069	3.26	20	
Copper	0.1017	0.0050	0.1	0.0006941	101	75-125	0.1046	2.82	20	
Iron	10.72	0.080	10	0.07066	106	75-125	11.04	2.98	20	
Lead	0.1066	0.0050	0.1	0.0002629	106	75-125	0.1155	8.01	20	
Magnesium	50.79	0.20	10	43.58	72.1	75-125	50.95	0.324	20	SO
Manganese	0.12	0.0050	0.1	0.0117	108	75-125	0.1309	8.72	20	
Nickel	0.1049	0.0050	0.1	0.003694	101	75-125	0.1085	3.4	20	
Potassium	14.28	0.20	10	3.512	108	75-125	14.63	2.43	20	
Selenium	0.1058	0.0050	0.1	0.0003432	105	75-125	0.1072	1.3	20	
Silver	0.102	0.0050	0.1	0.0000044	102	75-125	0.1058	3.6	20	
Sodium	99.12	0.20	10	96.55	25.7	75-125	99.5	0.381	20	SO
Thallium	0.1036	0.0050	0.1	0.0000308	104	75-125	0.1098	5.73	20	
Vanadium	0.1086	0.0050	0.1	0.0005346	108	75-125	0.1134	4.33	20	
Zinc	0.1203	0.010	0.1	0.01728	103	75-125	0.1203	0.0299	20	

The following samples were analyzed in this batch:

24020611-01A	24020611-02A	24020611-04A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.  
**Work Order:** 24020611  
**Project:** Mound Road Plating

## QC BATCH REPORT

Batch ID: **234888** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK		Sample ID: <b>MBLK-234888-234888</b>				Units: <b>mg/L</b>		Analysis Date: <b>2/12/2024 04:38 PM</b>		
Client ID:		Run ID: <b>ICPMS3_240212A</b>				SeqNo: <b>10472498</b>		Prep Date: <b>2/12/2024</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.0050								
Barium	U	0.0050								
Cadmium	U	0.0020								
Chromium	U	0.0050								
Lead	U	0.0050								
Selenium	U	0.0050								
Silver	U	0.0050								

LCS		Sample ID: <b>LCS-234888-234888</b>				Units: <b>mg/L</b>		Analysis Date: <b>2/12/2024 04:40 PM</b>		
Client ID:		Run ID: <b>ICPMS3_240212A</b>				SeqNo: <b>10472499</b>		Prep Date: <b>2/12/2024</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09941	0.0050	0.1	0	99.4	80-120	0			
Barium	0.1024	0.0050	0.1	0	102	80-120	0			
Cadmium	0.1073	0.0020	0.1	0	107	80-120	0			
Chromium	0.1016	0.0050	0.1	0	102	80-120	0			
Lead	0.1044	0.0050	0.1	0	104	80-120	0			
Selenium	0.09993	0.0050	0.1	0	99.9	80-120	0			
Silver	0.1075	0.0050	0.1	0	107	80-120	0			

MS		Sample ID: <b>24020374-01AMS</b>				Units: <b>mg/L</b>		Analysis Date: <b>2/12/2024 04:58 PM</b>		
Client ID:		Run ID: <b>ICPMS3_240212A</b>				SeqNo: <b>10472510</b>		Prep Date: <b>2/12/2024</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.02	0.050	1	0.000792	102	80-120	0			
Barium	2.099	0.050	1	1.072	103	80-120	0			
Cadmium	1.057	0.020	1	0.004741	105	80-120	0			
Chromium	1.016	0.050	1	0.001342	101	80-120	0			
Lead	1.055	0.050	1	0.01838	104	80-120	0			
Selenium	1.037	0.050	1	0.000539	104	80-120	0			
Silver	1.024	0.050	1	-0.000473	102	80-120	0			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.  
Work Order: 24020611  
Project: Mound Road Plating

QC BATCH REPORT

Batch ID: 234888 Instrument ID ICPMS3 Method: SW6020B

MSD				Sample ID: 24020374-01AMSD			Units: mg/L		Analysis Date: 2/12/2024 05:00 PM		
Client ID:			Run ID: ICPMS3_240212A			SeqNo: 10472511		Prep Date: 2/12/2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	1.031	0.050	1	0.000792	103	80-120	1.02	1.16	20		
Barium	2.093	0.050	1	1.072	102	80-120	2.099	0.269	20		
Cadmium	1.062	0.020	1	0.004741	106	80-120	1.057	0.519	20		
Chromium	1.021	0.050	1	0.001342	102	80-120	1.016	0.555	20		
Lead	1.058	0.050	1	0.01838	104	80-120	1.055	0.298	20		
Selenium	1.025	0.050	1	0.000539	102	80-120	1.037	1.2	20		
Silver	1.033	0.050	1	-0.000473	103	80-120	1.024	0.868	20		

The following samples were analyzed in this batch: 24020611-05A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.  
**Work Order:** 24020611  
**Project:** Mound Road Plating

## QC BATCH REPORT

Batch ID: **234788** Instrument ID **LACHAT2** Method: **SW9012B**

<b>MBLK</b>		Sample ID: <b>MBLK-234788-234788</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>2/9/2024 10:00 AM</b>		
Client ID:		Run ID: <b>LACHAT2_240209A</b>		SeqNo: <b>10464564</b>		Prep Date: <b>2/9/2024</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Total U 0.030

<b>LCS</b>		Sample ID: <b>LCS-234788-234788</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>2/9/2024 10:03 AM</b>		
Client ID:		Run ID: <b>LACHAT2_240209A</b>		SeqNo: <b>10464567</b>		Prep Date: <b>2/9/2024</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Total 1.552 0.030 1.5 0 103 88-114 0

<b>MS</b>		Sample ID: <b>24020611-03A MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>2/9/2024 10:10 AM</b>		
Client ID: <b>MRP-SS-01-02082024</b>		Run ID: <b>LACHAT2_240209A</b>		SeqNo: <b>10464575</b>		Prep Date: <b>2/9/2024</b>		DF: <b>2</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Total 9.254 0.12 3 6.235 101 88-114 0

<b>MSD</b>		Sample ID: <b>24020611-03A MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>2/9/2024 10:11 AM</b>		
Client ID: <b>MRP-SS-01-02082024</b>		Run ID: <b>LACHAT2_240209A</b>		SeqNo: <b>10464576</b>		Prep Date: <b>2/9/2024</b>		DF: <b>2</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Total 9.264 0.12 3 6.235 101 88-114 9.254 0.104 20

The following samples were analyzed in this batch:

24020611-03A 24020611-05A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.  
**Work Order:** 24020611  
**Project:** Mound Road Plating

## QC BATCH REPORT

Batch ID: **234790** Instrument ID **LACHAT2** Method: **SW9012B**

<b>MBLK</b>		Sample ID: <b>MBLK-234790-234790</b>				Units: <b>mg/L</b>		Analysis Date: <b>2/9/2024 09:52 AM</b>		
Client ID:		Run ID: <b>LACHAT2_240209A</b>				SeqNo: <b>10464555</b>		Prep Date: <b>2/9/2024</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Total	U	0.0050								

<b>LCS</b>		Sample ID: <b>LCS-234790-234790</b>				Units: <b>mg/L</b>		Analysis Date: <b>2/9/2024 09:53 AM</b>		
Client ID:		Run ID: <b>LACHAT2_240209A</b>				SeqNo: <b>10464556</b>		Prep Date: <b>2/9/2024</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Total	0.2653	0.0050	0.25	0	106	88-115	0			

<b>MS</b>		Sample ID: <b>24020611-01A MS</b>				Units: <b>mg/L</b>		Analysis Date: <b>2/9/2024 09:57 AM</b>		
Client ID: <b>MRP-SW-01-02082024</b>		Run ID: <b>LACHAT2_240209A</b>				SeqNo: <b>10464560</b>		Prep Date: <b>2/9/2024</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Total	0.4341	0.0050	0.25	0.1784	102	88-115	0			E

<b>MSD</b>		Sample ID: <b>24020611-01A MSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>2/9/2024 09:58 AM</b>		
Client ID: <b>MRP-SW-01-02082024</b>		Run ID: <b>LACHAT2_240209A</b>				SeqNo: <b>10464561</b>		Prep Date: <b>2/9/2024</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Total	0.4272	0.0050	0.25	0.1784	99.5	88-115	0.4341	1.6	12	E

The following samples were analyzed in this batch:

24020611-01A	24020611-02A	24020611-04A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Tetra Tech EM Inc.  
Work Order: 24020611  
Project: Mound Road Plating

QC BATCH REPORT

Batch ID: 234791 Instrument ID WETCHEM Method: SW9045D

LCS		Sample ID: LCS-234791-234791				Units: s.u.		Analysis Date: 2/9/2024 09:52 AM		
Client ID:		Run ID: WETCHEM_240209B				SeqNo: 10464397		Prep Date: 2/9/2024		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 3.97 0.10 4 0 99.2 90-110 0

DUP		Sample ID: 24020611-03A DUP				Units: s.u.		Analysis Date: 2/9/2024 09:52 AM		
Client ID: MRP-SS-01-02082024		Run ID: WETCHEM_240209B				SeqNo: 10464399		Prep Date: 2/9/2024		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 8.26 0.10 0 0 0 0-0 8.21 0.607 20  
Temperature 20 0.10 0 0 0 19.9 0.501

The following samples were analyzed in this batch: 24020611-03A 24020611-05A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



**Client:** Tetra Tech EM Inc.  
**Work Order:** 24020611  
**Project:** Mound Road Plating

## QC BATCH REPORT

Batch ID: **234892** Instrument ID **LACHAT2** Method: **SW9012B**

<b>MBLK</b>		Sample ID: <b>MBLK-234892-234892</b>				Units: <b>mg/L</b>		Analysis Date: <b>2/12/2024 01:57 PM</b>		
Client ID:		Run ID: <b>LACHAT2_240212A</b>		SeqNo: <b>10470326</b>		Prep Date: <b>2/12/2024</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Total	U	0.0050								

<b>LCS</b>		Sample ID: <b>LCS-234892-234892</b>				Units: <b>mg/L</b>		Analysis Date: <b>2/12/2024 01:58 PM</b>		
Client ID:		Run ID: <b>LACHAT2_240212A</b>		SeqNo: <b>10470327</b>		Prep Date: <b>2/12/2024</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Total	0.267	0.0050	0.25	0	107	88-115	0			

<b>MS</b>		Sample ID: <b>24020717-02C MS</b>				Units: <b>mg/L</b>		Analysis Date: <b>2/12/2024 02:04 PM</b>		
Client ID:		Run ID: <b>LACHAT2_240212A</b>		SeqNo: <b>10470333</b>		Prep Date: <b>2/12/2024</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Total	0.2718	0.0050	0.25	0.003875	107	88-115	0			

<b>MSD</b>		Sample ID: <b>24020717-02C MSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>2/12/2024 02:05 PM</b>		
Client ID:		Run ID: <b>LACHAT2_240212A</b>		SeqNo: <b>10470334</b>		Prep Date: <b>2/12/2024</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Total	0.2648	0.0050	0.25	0.003875	104	88-115	0.2718	2.61	12	

The following samples were analyzed in this batch:

24020611-05A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.  
**Work Order:** 24020611  
**Project:** Mound Road Plating

## QC BATCH REPORT

Batch ID: **R396052** Instrument ID **WETCHEM** Method: **A4500-H B-11**

LCS		Sample ID: <b>LCS-R396052-R396052</b>				Units: <b>s.u.</b>		Analysis Date: <b>2/9/2024 09:52 AM</b>		
Client ID:		Run ID: <b>WETCHEM_240209B</b>				SeqNo: <b>10464401</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	3.97	0.10	4	0	99.2	92-108	0			

LCS		Sample ID: <b>LCS-R396052-R396052</b>				Units: <b>s.u.</b>		Analysis Date: <b>2/9/2024 09:52 AM</b>		
Client ID:		Run ID: <b>WETCHEM_240209B</b>				SeqNo: <b>10464407</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	3.97	0.10	4	0	99.2	92-108	0			

DUP		Sample ID: <b>24020611-01A DUP</b>				Units: <b>s.u.</b>		Analysis Date: <b>2/9/2024 09:52 AM</b>		
Client ID: <b>MRP-SW-01-02082024</b>		Run ID: <b>WETCHEM_240209B</b>				SeqNo: <b>10464403</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	8.15	0.10	0	0	0	0-0	8.12	0.369	5	H
Temperature	12.3	0.10	0	0	0	0-0	13	5.53		H

DUP		Sample ID: <b>24020592-01A DUP</b>				Units: <b>s.u.</b>		Analysis Date: <b>2/9/2024 09:52 AM</b>		
Client ID:		Run ID: <b>WETCHEM_240209B</b>				SeqNo: <b>10464409</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	7.44	0.10	0	0	0	0-0	7.42	0.269	5	
Temperature	16.1	0.10	0	0	0		15.9	1.25		

The following samples were analyzed in this batch:

24020611-01A	24020611-02A	24020611-04A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Tetra Tech EM Inc.  
**Work Order:** 24020611  
**Project:** Mound Road Plating

## QC BATCH REPORT

Batch ID: **R396121** Instrument ID **MOIST** Method: **SW3550C**

<b>MBLK</b>		Sample ID: <b>MBLK-R396121</b>				Units: % of sample		Analysis Date: <b>2/9/2024 09:03 AM</b>		
Client ID:		Run ID: <b>MOIST_240209A</b>				SeqNo: <b>10466724</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.10								

<b>LCS</b>		Sample ID: <b>LCS-R396121</b>				Units: % of sample		Analysis Date: <b>2/9/2024 09:03 AM</b>		
Client ID:		Run ID: <b>MOIST_240209A</b>				SeqNo: <b>10466723</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.10	100	0	100	98-102	0			

<b>DUP</b>		Sample ID: <b>24020611-03A DUP</b>				Units: % of sample		Analysis Date: <b>2/9/2024 09:03 AM</b>		
Client ID: <b>MRP-SS-01-02082024</b>		Run ID: <b>MOIST_240209A</b>				SeqNo: <b>10466721</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	17.54	0.10	0	0	0	0-0	17.56	0.114	10	

<b>DUP</b>		Sample ID: <b>24020816-03A DUP</b>				Units: % of sample		Analysis Date: <b>2/9/2024 09:03 AM</b>		
Client ID:		Run ID: <b>MOIST_240209A</b>				SeqNo: <b>10473788</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	17.54	0.10	0	0	0	0-0	17.56	0.114	10	

The following samples were analyzed in this batch:

24020611-03A	24020611-05A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.