

HALEY & ALDRICH, INC. 3131 Elliott Avenue Suite 600 Seattle, WA 98121 206.324.9530

September 15, 2025 File No. 0202561-001

City of Tacoma Public Works Department, Engineering Division 747 Market Street, Room 544 Tacoma, Washington 98402

Attention: Charla Kinlow, Project Manager

Subject: American Plating Cleanup Site

2110 East D Street, Tacoma, Washington Groundwater Monitoring Results, July 2025

Dear Charla Kinlow:

This letter transmits the results of the July 2025 groundwater monitoring event conducted for the American Plating Cleanup Site (Cleanup Site ID number 2539) by Haley & Aldrich, Inc. (Haley & Aldrich) (Figure 1). Groundwater sampling activities were performed in accordance with our proposal dated March 12, 2025, and included the re-development of monitoring wells on July 28, 2025, sample collection on July 29, 2025, and laboratory analysis from the following monitoring wells (Figure 2):

- MW-20;
- MW-21;
- MW-22.

According to information available on the Department of Ecology's website, groundwater sampling has not been conducted at the site since 2011. Monitoring wells were re-developed at least 12 hours prior to sampling, ensuring productive wells for representative sampling.

The monitoring wells were purged and sampled using a peristaltic pump with dedicated tubing for each well. The tubing intake was placed at the approximate middle of the screened interval. Wells were purged at a rate of approximately 0.05 gallons per minute (gpm) or less through a continuous flow cell with a multi-parameter probe to measure temperature, pH, conductivity, dissolved oxygen, oxidation-reduction potential, and turbidity. The purge continued until parameters were stable (within 10 percent for at least three consecutive readings), or until at least three casing volumes were purged.

Purge water from the wells from re-development and purging during sampling was collected, labeled, and stored on site in a 55-gallon drum for future disposal.

City of Tacoma September 15, 2025 Page 2

Samples were collected into laboratory-supplied containers, which were analyzed by the City of Tacoma Environmental Services Laboratory for:

- dissolved cadmium, by U.S. Environmental Protection Agency (EPA) Method 200.8;
- dissolved copper and dissolved nickel, by EPA Method 6020B;
- hexavalent chromium, by EPA Method SM3500 Cr B; and
- weak acid dissociable cyanide, by Method SM 4500-CN-1.

Table I presents the water levels measured in each well at the specified date and time. Field groundwater sampling data forms are included as Appendix A. The laboratory report, along with the data usability summary report, is included in Appendix B.

Results of chemical analyses and a comparison to surface water-based screening levels are summarized in Table II. The screening levels for the site were determined based on the Washington Administrative Code (WAC) §173-201A Surface Water Quality Standards for Marine Waters, Aquatic Life/Chronic. No analyte concentrations were detected above the respective screening levels. A summary of the detections is provided below:

- Hexavalent chromium and dissolved nickel were detected at the three sample locations, but concentrations were detected below the respective screening levels of 50 micrograms per liter (μg/L) for hexavalent chromium and 8.2 μg/L for nickel.
- Cadmium was detected at MW-20 and MW-22, at concentrations of 0.0902 J μ g/L and 0.149 J μ g/L, respectively, but concentrations do not exceed the screening level of 7.9 μ g/L. Cadmium was not detected at MW-21.
- Copper and weak acid dissociable cyanide were not detected at the three sample locations.

The next sampling event will be conducted in the first quarter of 2026.

We appreciate the opportunity to work on this project, please contact us with any questions or project details.

Sincerely yours,

HALEY & ALDRICH, INC.

Becca Dozier, L.G.

Assistant Project Manager, Hydrogeologist

Laura Menken, L.G. "

Technical Expert, Hydrogeologist

Attachments:

Table I – Summary of Depth to Groundwater Manual Measurements

Table II – Summary of Groundwater Quality Data

Figure 1 – Vicinity Map

Figure 2 – Site Plan

Appendix A – Groundwater Sampling Field Forms

Appendix B – Data Quality Review and Laboratory Data Report



TABLES

SUMMARY OF DEPTH TO GROUNDWATER MANUAL MEASUREMENTS

AMERICAN PLATING CLEANUP SITE TACOMA, WASHINGTON

Location Name	Date	Time	Depth to Water (feet BTOC)
MW-20	7/29/2025	9:35	7.58
MW-21	7/29/2025	10:25	7.72
MW-22	7/29/2025	8:40	8.19

Notes:

All times are in Pacific Standard Time BTOC = below top of casing

SUMMARY OF GROUNDWATER QUALITY DATA

AMERICAN PLATING CLEANUP SITE TACOMA, WASHINGTON

	1	T		
Location Name	Surface Water Standards	MW-20	MW-21	MW-22
Sample Name	for Marine Waters,	MW-20-20250729	MW-21-20250729	MW-22-20250729
Sample Date	Chapter 173-201A WAC	07/29/2025	07/29/2025	07/29/2025
Lab Sample II		2507018-01	2507018-02	2507018-03
Sample Depth (bgs	Aquatic Life, Chronic	-	-	-
Inorganic Compounds (ug/L)				
Cadmium, Dissolved	7.9	0.0902 J	0.0451 U	0.149 J
Copper, Dissolved	3.1	0.236 U	0.118 U	0.118 U
Nickel, Dissolved	8.2	1.88	3.86	5.31
Inorganic Compounds (mg/L)				
Cyanide	1	0.005 UJ	0.005 UJ	0.005 UJ
Inorganic Compounds (ug/L)				
Chromium VI (Hexavalent), Total	50	9.8 J-	35.8 J-	21.1 J-
Field Parameters				
Temperature (Deg C)	NA	15.8	15.1	14.8
Dissolved Oxygen, Field (mg/L)	NA	1.81	0.20	2.57
Conductivity, Field (mS/cm)	NA	15546	6057	10740
Oxidation Reduction Potential (ORP), Field (mv)	NA	-94.2	-200.8	-65.9
Turbidity, Field (NTU)	NA	23.1	11.5	20.9
pH, Field (pH units)	NA	7.98	7.11	7.07

ABBREVIATIONS AND NOTES:

Deg C: degrees Celsius

J: result is an estimate

J-: result is an estimate, biased low

mg/L: milligrams per liter

mv: millivolts

NA: Not Available

NTU: nephelometric turbidity units

U: not detected, value is the laboratory reporting limit

ug/L: micrograms per liter

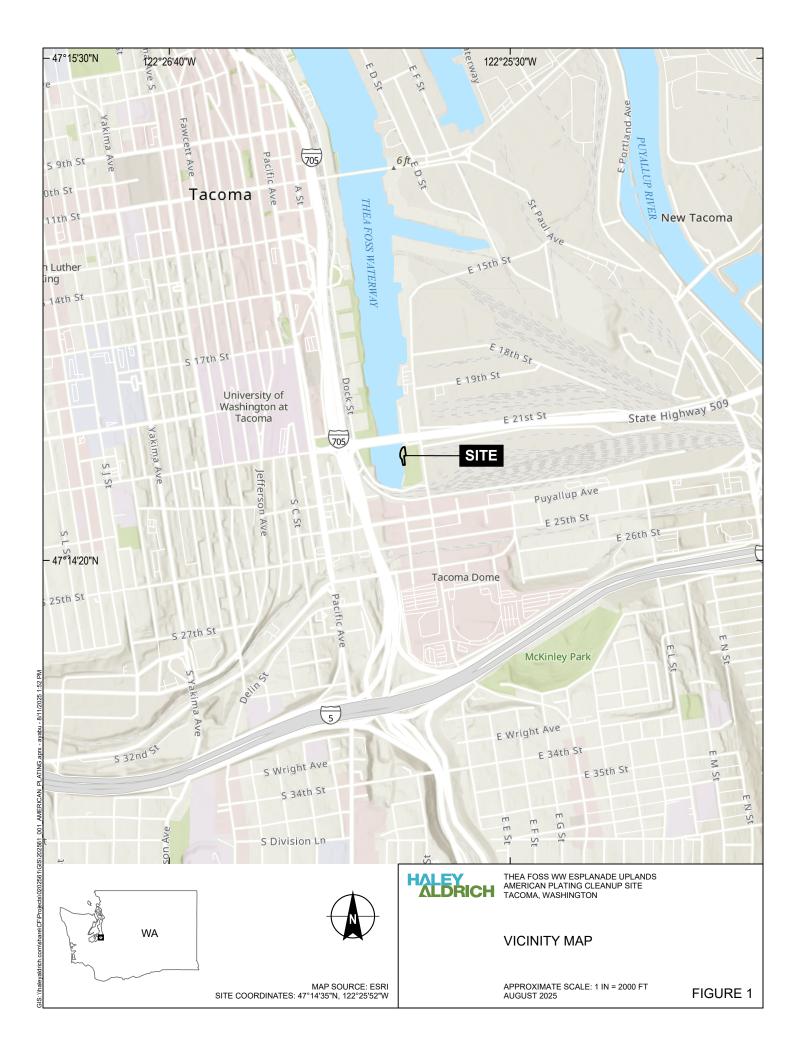
mS/cm: milliSiemens per centimeter

Bold indicates a detection above the reporting limit.

Screening level for cyanide is based on the statewide marine surface water aquatic life criterion for both acute and chronic effects.

HALEY & ALDRICH, INC.

FIGURES







MONITORING WELL



SITE BOUNDARY

NOTES
1. ALL LOCATIONS AND DIMENSIONS
ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE:
NEARMAP, APRIL 13, 2025



SCALE IN FEET

SITE PLAN

AUGUST 2025

FIGURE 2

APPENDIX A Groundwater Sampling Field Forms

PROJECT LOCATION CLIENT CONTRACTOR	Am Tai	ERICAN P COMA, WA Y OF TACON	1				A FIELD				H&A FILE NO. PROJECT MGR. FIELD REP. SAMPLING DATE	Page 1 of 1 DZ0ZS61-001 BELLA D. AARON G. Z-Z9-Z5
Well ID: Start time Finish Tim	mW : 09		_	h: Top Of Screen: Bottom Of Scre	10	1,80 10 20	_ ft Depth	Depth To Wat Of Pump Inta Vell Installed:	ke:	58 ft	Purging Device: Tubing Present In We Tubing Type:	PERI. Pump II: Ves DNO LDPE
Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or	Temperature (°F) or (°C) +/- 10 %	pH +/- <u>6.1</u>	Conduct- ivity (us/cm) +/- \lambda %	Oxygen (mg/L) +/- 10 %	Turbidity (NTU) <25 NTU	ORP/eH (mv) +/- 16 mv		Comments
6940	8,41			05.0	15.5	7.96	15665	2.45	8.83	-83.4	*WATER IS CLEAR,	NO ODOR, NO SHEEN
0945	9.06			0.35	15.6	7.97	15620	2.11	12.5	-85.5		
0950	9.83			6.50	15.6	7.97	15618	1.96	16.3	-88.5		
0955	10.29			0.65	15.7	7.98	15561	1.87	21.5	-90.8		
1000	10.80			0.00	12.0	7.90	15546	1.81	73.1	-94.2	***************************************	1-11-5
									1 1 1 2		*SAMPLE COLLECTE	
						1	The second		13.12		* TOTAL GALLONS	PURGED = ~1.0 GAL
					1/2							
		3										
						1 - 1				4.		
	1											
						1						

HALE	RICH			LOW	FLOW	/MNA	FIELD	SAME	LING	FORM		Page \ of
PROJECT	Ame	RICAN PL	duita								H&A FILE NO.	0207561-001
LOCATION	TAC	AW. AMO	1								PROJECT MGR.	BELLA D.
CLIENT	City	OF TACOM	nA								FIELD REP.	AARON G.
CONTRACTO	AH A										SAMPLING DATE	7-29-25
Sampling Dat					me	ASURED						
Well ID:	mh	1-21	Well Dept	th:		1.81	ft Initial	Depth To Wat	ter: 7.7	Z ft	Purging Device:	PERI. Pump
Start time	1029	5	Depth To	Top Of Screen:	_	10	ft Depth	Of Pump Inta	ke: ~\	5 ft	Tubing Present In We	
Finish Tim	e: 1110		Depth To	Bottom Of Scre	en	050	ft Date	Well Installed:			Tubing Type:	LDPE
Elapsed Time	Depth To Water From Casing	Pump Setting (ml/min) or	Purge Rate (ml/min) or	Cumulative Purge Vol. (liters) or	Temp- erature (°F) or		Conduct-	Dissolved Oxygen	Turbidity	ORP/eH		
(24 hour)	(ft)	(gal/min)	(gal/min)	(Eal)	(°C)	pH +/- <u>0.1</u>	(us/cm) +/- 10 %	(mg/L) +/- 10 %	(NTU) < <u>25</u> NTU	(mv) +/- 10 mv	c	omments
1030	7.92	414		0.20	15.1	7.09	6888	0.88	22.4	-184.3	* WATER IS CLEAR	, NO ODER , NO SHEEN
1635	8.00			6.45	15.1	7.09	6734	0.36	20.7	-192.0		
1040	8.06			0.60	15.1	7.09	6501	6.28	17.5	-194.3		
1845	8.10			0.75	15.1	7.10	6287	0.23	15.6	-198.3		
1050	8.13			0.95	15.1	7.10	6119	0.21	12.8	-201.0		
1055	3.17			1.20	15.1	7,11	6057	0.20	11.5	-200.8		
		No.									* SAMPLE COLLECTE	ED AT 1100
											* TOTAL GALLONS	PURGED = 1.3 GAL

ROJECT		MCAN PE	ATING								H&A FILE NO.	0202561-001
OCATION LIENT ONTRACTOR	City	OF TACO	MA				4				PROJECT MGR. FIELD REP. SAMPLING DATE	BECCA D. AARON G. 7-29-25
Well ID: Start time Finish Tim	MU 840		Depth To	th: Top Of Screen: Bottom Of Scre	~1	,83	ft Depth		ke: ~15	ft		
Elapsed Time	Depth To Water From Casing	Pump Setting (ml/min) or	Purge Rate (ml/min) or	Cumulative Purge Vol. (liters) or	Temp- erature (°F) or		Conduct-	Dissolved Oxygen	Turbidity	ORP/eH		
(24 hour)	(ft)	(gal/min)	(gal/min)	(gal)	1°C)	pH +/- <u>6.1</u>	(us/cm) +/- <u>10</u> %	(mg/L) +/- 10 %	(NTU) < <u>25</u> NTU	(mv) +/- <u>10</u> mv	c	omments
0845	9.39			0.25	14.7	6.94	10900	2.99	8.05	-57.1	* WATER IS CLEAR,	NO ODOR, NO SHEEN
0850	9.86			0.45	14.8	7.00	10657	3.04	77.7	-53.1		
0855	10.41			0.60	14.9	7.04	10767	2.85	7.15	-58.9		
0900	18.81			0.75	14.9	7.06	10732	2.62	15.A	-63.0		
0905	11.33			0.95	14.8	7.07	10740	2,57	20.9	-65.9		
											* SAMPLE COLLECT	ED@ 910
											* TOTAL GALLONS P	URGED = ~1.75 GAL
		-										

APPENDIX B
Data Quality Review and Laboratory Data Report



Data Usability Summary Report

Project Name: American Plating
Project Description: Water Samples

Sample Dates: July 29, 2025

Analytical Laboratories: City of Tacoma Environmental Services Department – Tacoma, WA

Analytical Resources, LLC – Tukwila, WA

Validation Performed by: Eric Hitchens

Validation Reviewed by: Katherine Miller

Validation Date: August 27, 2025

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for the Sample Delivery Group (SDG) listed. This DUSR is organized into the following sections:

- 1. Sample Delivery Group Number
- 2. Explanations
- 3. Glossary
- 4. Abbreviations
- 5. Qualifiers

References

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

National Functional Guidelines (NFG) for Inorganic Data Review.

Data reported in this sampling event were reported to the laboratory method detection limit (MDL). Results reported between the MDL and reporting limit (RL) are flagged J as estimated.

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOPs). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and are therefore usable; any exceptions are noted in the following pages and listed below.



1. Sample Delivery Group Number

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG number 662319, also referred to as SDG 2507018 within the laboratory report. Samples were collected, preserved, and shipped following standard chain of custody (COC) protocols. Samples were also received appropriately, identified correctly, and analyzed according to the COC.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods
MW-20-20250729	N	2507018-01	07/29/2025	WG	A, B, C
MW-21-20250729	N	2507018-02	07/29/2025	WG	A, B, C
MW-22-20250729	N	2507018-03	07/29/2025	WG	A, B, C

Meth	Method Holding Times							
A.	SM3500-CR B	Hexavalent Chromium	24 hours					
B.	SW6020B	Metals	180 days					
C.	SM4500-CN-I	Cyanide, Weak Acid Dissociable (WAD)	24 hours unpreserved 14 days preserved					

1.2 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol, with the following exceptions:

- Hexavalent chromium analysis exceeded holding time; associated sample results were qualified J-.
- Cyanide analysis exceeded holding time; associated sample results were qualified UJ.

1.3 REPORTING LIMITS AND SAMPLE DILUTIONS

The RLs for the samples within this SDG met or were below the Model Toxics Control Act (MTCA) cleanup levels.

1.4 LABORATORY CONTROL SAMPLES

<u>Refer to Section E 1.3</u>. Compounds associated with the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses associated with client samples exhibited recoveries and relative percent differences (RPDs) within the specified limits.

1.5 MATRIX SPIKE SAMPLES

Refer to Section E 1.4. The sample below were used for matrix spike/matrix spike duplicate (MS/MSD) analysis:



Lab Sample Number	Matrix Spike/Matrix Spike Duplicate Sample Client ID	Methods
2507018-01	MW-20-20250729	SM3500-CR B, 6020B

The MS/MSD recoveries and the RPD between the MS and MSD results were within the specified limits.

1.6 BLANK SAMPLE ANALYSIS

<u>Refer to Section E 1.5.</u> Method blank samples had no detections, indicating that no contamination from laboratory activities occurred.

1.7 DUPLICATE SAMPLE ANALYSIS

Refer to Section E 1.6. No client samples were used for laboratory duplicate analysis.

1.8 PRECISION AND ACCURACY

<u>Refer to Section E 1.7.</u> Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples.

1.9 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable, as no data was rejected. The qualifiers applied to this dataset are summarized in the table below.

Sample ID	Analyte	Reported Result	Validated Result	Reason for Qualifier
MW-20-20250729	Chromium VI (Hexavalent)	9.8 J	9.8 J-	
MW-20-20250729	Cyanide	U	UJ	
MW-21-20250729	Chromium VI (Hexavalent)	35.8	35.8 J-	Holding time
MW-21-20250729	Cyanide	U	UJ	exceedance
MW-22-20250729	Chromium VI (Hexavalent)	21.1	21.1 J-	
MW-22-20250729	Cyanide	U	UJ	



2. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.3 Laboratory Control Samples
 - The LCS/LCSD analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.4 Matrix Spike Samples
 - MS/MSD data are used to assess the precision and accuracy of the analytical method and evaluate the effects of the sample matrix on the sample preparation procedures and measurement methodologies.
 - For inorganic methods, when a matrix spike recovery falls outside of the control limits and the sample result is less than four times the spike added, a post-digestion spike (PDS) is performed.
- E 1.5 Blank Sample Analysis
 - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
- E 1.6 Laboratory Duplicate Sample Analysis
 - The laboratory duplicate sample analysis is used by the laboratory at the time of the analysis to demonstrate acceptable method precision. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
- E 1.7 Precision and Accuracy
 - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the RPD found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.
 - Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the percent recovery (%R) of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.



3. Glossary

*Analyte names may be abbreviated for simplicity. Please refer to the laboratory report for the full analyte name.

Not all of the following symbols, acronyms, or qualifiers occur in this document.

• S	amp	le T	ypes:
-----	-----	------	-------

_	EB	Equipment Blank Sample
_	FB	Field Blank Sample
_	FD	Field Duplicate Sample
_	N	Primary Sample
_	TB	Trip Blank Sample

Units:

_	ng/kg	nanograms per kilogram	_	ppbv/v	parts per billion volume/volume
_	μg/L	micrograms per liter	_	pCi/L	picocuries per liter
_	μg/m3	micrograms per cubic meter	_	pg/g	picograms per gram
_	mg/kg	milligrams per kilogram	_	pg/L	picograms per liter
_	mg/L	milligrams per liter			

Matrices:

_	AA	Ambient Air	_	SSV	Sub-slab Vapor
_	GS	Soil Gas	_	ST	Solid Waste
_	GW/WG	Groundwater	_	WM	Stormwater
_	IA	Indoor Air	_	WQ	Water Quality control matrix
_	SE	Sediment	_	WS	Surface Water
_	SO	Soil	_	WW	Waste Water

• Table Footnotes:

_	NA	Not applicable
_	ND	Non-detect
_	NR	Not reported

• Common Symbols:

_	70	percent
_	<	less than
_	≤	less than or equal to
_	>	greater than
_	≥	greater than or equal to
_	=	equal
_	°C	degrees Celsius
_	±	plus or minus
_	~	approximately
_	X	times (multiplier)

• Fractions:

_	N	Normal (method cannot be filtered)
_	D	Dissolved (filtered)
_	T	Total (unfiltered)



4. Abbreviations

%D	Percent Difference	MDL	Laboratory Method Detection Limit
%R	Percent Recovery	MS/MSD	Matrix Spike/Matrix Spike Duplicate
%RSD	Percent Relative Standard Deviation	NA	not applicable
%v/v	Percent volume by volume	ND	Non-Detect
2s	2 sigma	NFG	National Functional Guidelines
4,4-DDT	4 4-dichlorodiphenyltrichloroethane	NH ₃	Ammonia
Abs Diff	Absolute Difference	NYSDEC	New York State Department of
amu	atomic mass unit		Environmental Conservation
BPJ	Best Professional Judgement	PAH	Polycyclic Aromatic Hydrocarbon
BS	Blank Spike	PCB	Polychlorinated Biphenyl
ССВ	Continuing Calibration Blank	PDS	Post-Digestion Spike
CCV	Continuing Calibration Verification	PEM	Performance Evaluation Mixture
CCVL	Continuing Calibration Verification	PFAS	Per- and Polyfluoroalkyl Substances
	Low	PFBA	Perfluorobutanoic Acid
COC	Chain of Custody	PFD	Perfluorodecalin
COM	Combined Isotope Calculation	PFOA	Perfluorooctanoic Acid
Cr (VI)	Hexavalent Chromium	PFOS	Perfluorooctane sulfonate
CRI	Collision Reaction Interface	PFPeA	Perfluoropentanoic Acid
DoD	Department of Defense	QAPP	Quality Assurance Project Plan
DQO	data quality objective	QC	Quality Control
DUSR	Data Usability Summary Report	QSM	Quality Systems Manual
EIS	Extraction Internal Standard	R^2	R-squared value
EMPC	Estimated Maximum Possible	Ra-226	Radium-226
	Concentration	Ra-228	Radium-228
FBK	Field Blank Contamination	RESC	Resolution Check Measure
FDP	Field Duplicate	RL	Laboratory Reporting Limit
GC	Gas Chromatograph	RPD	Relative Percent Difference
GC/MS	Gas Chromatography/Mass	RRF	Relative Response Factor
	Spectrometry	RT	Retention Time
GPC	Gel Permeation Chromatography	SAP	Sampling Analysis Plan
H ₂	Hydrogen gas	SDG	Sample Delivery Group
HCl	Hydrochloric Acid	SIM	Selected ion monitoring
ICAL	Initial Calibration	SOP	Standard Operating Procedure
ICB	Initial Calibration Blank	SPE	Solid-Phase Extraction
ICP/MS	Inductively Coupled Plasma/Mass	SVOC	Semi-Volatile Organic Compound
	Spectrometry	TCLP	Toxicity Characteristic Leaching
ICV	Initial Calibration Verification		Procedure
ICVL	Initial Calibration Verification Low	TIC	Tentatively Identified Compound
IPA	Isopropyl Alcohol	TKN	Total Kjeldahl Nitrogen
LC	Laboratory Control	TPH	Total Petroleum Hydrocarbon
LCS/LCSD	Laboratory Control Sample/Laboratory	TPU	Total Propagated Uncertainty
	Control Sample Duplicate	USEPA	U.S. Environmental Protection Agency
MBK	Method Blank Contamination	VOC	Volatile Organic Compound
MDC	Minimum Detectable Concentration	WP	Work Plan



5. Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

Concentration (C) Qualifiers:

- U The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or "ND".
- B The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.

Quantitation (Q) Qualifiers:

- E The compound was quantitated above the calibration range.
- D The concentration is based on a diluted sample analysis.

Validation Qualifiers:

- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.
- J/UJ as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.
- UJ The compound was not detected. The reported sample quantitation limit is approximate.
- NJ The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.
- R The sample results were rejected as unusable; the compound may or may not be present in the sample.
- S Result is suspect. See DUSR for details.



References

1. United States Environmental Protection Agency, 2020. National Functional Guidelines for Inorganic Superfund Methods Data Review. EPA-542-R-20-006. November.





19 August 2025

Charla Kinlow PW Engineering 747 Market Street, Rm 744 Tacoma, WA 98402

Subject: American Plating project (2110 East D Street)

Enclosed are the analytical results for samples collected 07/29/2025.

Quality Control Data are included with the sample results for your review.

If you have any questions concerning this report, call me at (253) 345-0312. Please note that remaining samples associated with this report will be discarded **3 months** from the date of this report unless we are notified otherwise.

Sincerely,



Tiffany Ryan Assistant Division Manager Environmental Services Laboratory

cc. Becca Dozier

326 East D Street | Tacoma, Washington 98421-1801 | (253) 591-5588

PW Engineering Project: American Plating project (2110 East D Street)

747 Market Street, Rm 744 Project Number: 662319 Reported:
Tacoma WA, 98402 Project Manager: Charla Kinlow 19-Aug-25 15:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled
MW-20	2507018-01	Water	Grab	29-Jul-25 10:05
MW-21	2507018-02	Water	Grab	29-Jul-25 11:00
MW-22	2507018-03	Water	Grab	29-Jul-25 09:10

PW Engineering Project: American Plating project (2110 East D Street)

747 Market Street, Rm 744 Project Number: 662319 Reported:
Tacoma WA, 98402 Project Manager: Charla Kinlow 19-Aug-25 15:50

CHAIN OF CUSTODY, SAMPLE RECEIPT, PRESERVATION AND STORAGE

Samples were received under appropriate Chain of Custody procedures. Containers were properly preserved and stored in accordance with the applicable method requirements.

HOLDING TIMES

All analyses were performed within the required holding times.

METHODS

The samples were analyzed by the following methods:

Standard Methods 3500-CN- I-99 for Weak Acid Dissociable Cyanide Standard Methods 3500 Cr B for Hexavalent Chromium EPA Method 6020B for Dissolved Metals

CONTRACT LABS

Weak Acid Dissociable Cyanide by Standard Methods 3500-CN- I was performed by Analytical Resources Inc. (ARI). The contract laboratory results and Chain of Custody are included in this report.

MINIMUM REPORTING LIMITS

All analytes are reported to the Minimum Project Report Limit. Some analytes may be reported to the Method Detection Limit (MDL) to meet the Minimum Project Reporting Limit. In these cases, values are qualified as estimated (J) between the MDL and Practical Quantitation Limit (PQL) as not as accurate as values reported greater than the PQL (the low standard or 3 - 5 times the MDL).

BLANKS

Blanks were analyzed at the required frequencies of the methods. Analytes were not detected in the blanks, sample concentrations were greater than 10 times the blank values, or the analytes detected in the blanks were not detected in associated samples.

LABORATORY CONTROL SAMPLES

Laboratory Control Samples were analyzed with these samples. The recoveries were within the laboratory or project limits.

DUPLICATE SAMPLE ANALYSIS

Duplicate analysis was performed with these samples. Relative percent differences were within the laboratory or project limits.

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE ANALYSIS

Matrix Spike and/or Matrix Spike Duplicate analysis was performed with these samples. The recoveries were within the laboratory or project limits.

INTERNAL STANDARDS

Internal Standards were added to these samples to monitor instrument performance related to calibration drift of matrix interference in the analysis by ICP-MS. The Internal Standards met the method criteria.

747 Market Street, Rm 744 Tacoma WA, 98402

Project: American Plating project (2110 East D Street)

Project Number: 662319 Project Manager: Charla Kinlow Reported:

19-Aug-25 15:50

DATA AVAILABILITY

All data associated with the samples referenced in this report are archived at the Environmental Services Laboratory and are available upon request.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and project QAPP.

Signed by:

570FA1DF52144D6..

Reviewed By

747 Market Street, Rm 744 Tacoma WA, 98402 Project: American Plating project (2110 East D Street)

Project Number: 662319 Project Manager: Charla Kinlow Reported:

19-Aug-25 15:50

MW-20

2507018-01 (Water) 29-Jul-25 10:05

Analyte		Result	PQL	MDL	Units	
Subcontract						
SM 4500-CN I	Prepared: 12-Aug-25	Analyzed: 14-Aug-25				
Cyanide (weak acid	l dissociable)	0.005 U	0.005		mg/L	

747 Market Street, Rm 744 Tacoma WA, 98402 Project: American Plating project (2110 East D Street)

Project Number: 662319 Project Manager: Charla Kinlow Reported:

19-Aug-25 15:50

MW-21

2507018-02 (Water) 29-Jul-25 11:00

Analyte		Result	PQL	MDL	Units	
Subcontract						
SM 4500-CN I	Prepared: 12-Aug-25	Analyzed: 14-Aug-25				
Cyanide (weak acid	l dissociable)	0.005 U	0.005		mg/L	

747 Market Street, Rm 744 Tacoma WA, 98402 Project: American Plating project (2110 East D Street)

Project Number: 662319 Project Manager: Charla Kinlow Reported:

19-Aug-25 15:50

MW-22

2507018-03 (Water) 29-Jul-25 09:10

Analyte		Result	PQL	MDL	Units
Subcontract					
SM 4500-CN I	Prepared: 12-Aug-25	Analyzed: 14-Aug-25			
Cvanide (weak acid	dissociable)	0.005 U	0.005		mg/L

747 Market Street, Rm 744 Tacoma WA, 98402 Project: American Plating project (2110 East D Street)

Project Number: 662319 Project Manager: Charla Kinlow Reported:

19-Aug-25 15:50

MW-20

2507018-01 (Water) 29-Jul-25 10:05

Analyte		Result	PQL	MDL	Units	
Conventional						
SM 3500-Cr B-2011	Prepared: 19-Aug-25	Analyzed: 19-Aug-25				
Chromium, hexavalent		9.8 J	10.0	4.0	ug/L	
Metals						
EPA 6020B_(7/14)	Prepared: 15-Aug-25	Analyzed: 15-Aug-25				
Cadmium, Dissolved Copper, Dissolved Nickel, Dissolved		0.0902 J 0.236 U 1.88	1.00 1.00 1.00	0.0902 0.236 0.858	ug/L ug/L ug/L	

747 Market Street, Rm 744 Tacoma WA, 98402 Project: American Plating project (2110 East D Street)

Project Number: 662319 Project Manager: Charla Kinlow Reported:

19-Aug-25 15:50

MW-21

2507018-02 (Water) 29-Jul-25 11:00

Analyte		Result	PQL	MDL	Units	
Conventional						
SM 3500-Cr B-2011	Prepared: 19-Aug-25	Analyzed: 19-Aug-25				
Chromium, hexavalent		35.8	10.0	4.0	ug/L	
Metals						
EPA 6020B_(7/14)	Prepared: 15-Aug-25	Analyzed: 15-Aug-25				
Cadmium, Dissolved Copper, Dissolved Nickel, Dissolved		0.0451 U 0.118 U 3.86	0.500 0.500 0.500	0.0451 0.118 0.429	ug/L ug/L ug/L	

747 Market Street, Rm 744 Tacoma WA, 98402 Project: American Plating project (2110 East D Street)

Project Number: 662319 Project Manager: Charla Kinlow Reported:

19-Aug-25 15:50

MW-22

2507018-03 (Water) 29-Jul-25 09:10

Analyte		Result	PQL	MDL	Units	
Conventional						
SM 3500-Cr B-2011	Prepared: 19-Aug-25	Analyzed: 19-Aug-25				
Chromium, hexavalent		21.1	10.0	4.0	ug/L	
Metals						
EPA 6020B_(7/14)	Prepared: 15-Aug-25	Analyzed: 15-Aug-25				
Cadmium, Dissolved Copper, Dissolved Nickel, Dissolved		0.149 J 0.118 U 5.31	0.500 0.500 0.500	0.0451 0.118 0.429	ug/L ug/L ug/L	

747 Market Street, Rm 744 Tacoma WA, 98402 Project: American Plating project (2110 East D Street)

Project Number: 662319

Project Manager: Charla Kinlow

Reported: 19-Aug-25 15:50

4-- C---4---1

Conventional - Quality Control Environmental Services Laboratory

Sample ID Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch BIH0102 - SM 3500-Cr B-2011										
Blank (BIH0102-BLK1)				Prepared & Analyzed: 19-Aug-25						
BIH0102-BLK1 Chromium, hexavalent	4.0 U	4.0	ug/L							
LCS (BIH0102-BS1)				Prepared	& Analyze	ed: 19-Aug	g-25			
BIH0102-BS1 Chromium, hexavalent	46.5	4.0	ug/L	50.0		93	80-120			
Matrix Spike (BIH0102-MS1)	Sour	ce: 250701	8-01	Prepared & Analyzed: 19-Aug-25						
BIH0102-MS1 Chromium, hexavalent	59.3	4.0	ug/L	50.0	9.8	99	70-130			
Matrix Spike Dup (BIH0102-MSD1)	Source: 2507018-01			Prepared & Analyzed: 19-Aug-25						
BIH0102-MSD1 Chromium, hexavalent	54.2	4.0	ug/L	50.0	9.8	89	70-130	9	20	

Tacoma WA, 98402

747 Market Street, Rm 744

Project: American Plating project (2110 East D Street)

Project Number: 662319

Project Manager: Charla Kinlow

Reported:

19-Aug-25 15:50

Metals - Quality Control Environmental Services Laboratory

ample ID nalyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BIH0010 - EPA 6020B_(7/14)									
slank (BIH0010-BLK1)	Prepared & Analyzed: 15-Aug-25								
IH0010-BLK1									
admium, Dissolved	0.0451 U	0.0451	ug/L						
opper, Dissolved	0.118 U	0.118	ug/L						
ickel, Dissolved	0.429 U	0.429	ug/L						
Ouplicate (BIH0010-DUP1)	Source: 2507018-01			Prepared	& Analyze				
SIH0010-DUP1									
admium, Dissolved	0.132 J	0.0902	ug/L		0.0902				20
opper, Dissolved	0.236 U	0.236	ug/L		ND				20
ickel, Dissolved	1.68	0.858	ug/L		1.88			11	20
CS (BIH0010-BS1)	Prepared & Analyzed: 15-Aug-25								
SIH0010-BS1									
admium, Dissolved	25.1	0.0451	ug/L	25.0		101	80-120		
opper, Dissolved	124	0.118	ug/L	125		99	80-120		
ickel, Dissolved	195	0.429	ug/L	200		97	80-120		
1atrix Spike (BIH0010-MS1)	Source: 2507018-01			Prepared & Analyzed: 15-Aug-25					
SIH0010-MS1									
admium, Dissolved	89.1	0.0902	ug/L	100	0.0902	89	75-125		
opper, Dissolved	83.8	0.236	ug/L	100	ND	84	75-125		
ickel, Dissolved	80.3	0.858	ug/L	100	1.88	78	75-125		

747 Market Street, Rm 744 Tacoma WA, 98402

Project: American Plating project (2110 East D Street)

Project Number: 662319 Project Manager: Charla Kinlow Reported:

19-Aug-25 15:50

Subcontract - Quality Control Analytical Resources, Inc

Sample ID Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch BNH0215 - SM 4500-CN I										
BLK (BNH0215-BLK1)		Prepared: 12-Aug-25 Analyzed: 14-Aug-25								
BNH0215-BLK1 Cyanide (weak acid dissociable)	0.005 U	0.005	mg/L				-			
BS (BNH0215-BS1)				Prepared:	12-Aug-2	25 Analyze	d: 14-Aug	;-25		
BNH0215-BS1 Cyanide (weak acid dissociable)	0.137	0.005	mg/L	0.15		91.4	75-125			
DUP (BNH0215-DUP1)	Source: 2507018-01			Prepared: 12-Aug-25 Analyzed: 14-Aug-25						
BNH0215-DUP1 Cyanide (weak acid dissociable)	0.008	0.005	mg/L		ND		-		20	
MS (BNH0215-MS1)	Source: 2507018-01			Prepared: 12-Aug-25 Analyzed: 14-Aug-25						
BNH0215-MS1 Cyanide (weak acid dissociable)	0.145	0.005	mg/L	0.15	ND	96.7	75-125			

PW Engineering Project: American Plating project (2110 East D Street)

747 Market Street, Rm 744 Project Number: 662319 Reported:
Tacoma WA, 98402 Project Manager: Charla Kinlow 19-Aug-25 15:50

Notes and Definitions

U Analyte Not Detected at or above the associated value

UJ Analyte Not Detected at or above the associated estimated value

J The analyte was positively identified. The associated value is an estimate. For BOD Analysis: The sample dilutions set-up for the BOD analysis did not meet the oxygen depletion criteria of at least 2 mg/l dissolved oxygen depletion. Therefore the reported BOD result is

estimated biased high

ND Analyte NOT DETECTED at or above the reporting limit

E Analyte was determined above the upper quantitation range of the method. The associated value is an estimate.

NJ There is evidence the analyte is present. The associated value is an estimate.

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



15 August 2025

Terri Torres City of Tacoma 326 E. D Street Tacoma, WA 98421

RE: 2507018 (2507018)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)

Associated SDG ID(s)

25H0004

N/A



Digitally signed by Phillip Bates Date: 2025.08.15 16:12:19 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory

Analytical Resources, LLC

Phillip BG

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Phillip Bates, Project Manager

2540004

SENDING LABORATORY:

Environmental Services Laboratory

C:\Element\Print\sco_COT_PreSub_v2.rpt

Analyical Services Request CHAIN OF CUSTODY

Samplers (Printed):

Page 2 of 12 25H0004 ARISample FINAL 15 Aug 2025 1609

RECEIVING LABORATORY:

Analytical Resources, Inc

326 East D Street	4611 S	134th Place		
Tacoma, WA 98421		, WA 98168-3240		Samplers Signatures:
Phone: (253) 591-5588		(206) 695-6200		
Fax: (253) 502-2107	Fax: (20	06) 695-6201		
City Contact: Terri Torres			15	
Environmental Services Work Order Number:	2507018			
Analysis			Sample Date/Time	Comments
Sample ID: 2507018-01 Location ID: MW-20	Matrix: Water		20	
Subcontract - Cyanide, Weak Acid Dissociable	*			
Sample ID: 2507018-02 Location ID: MW-21	Matrix: Water			
Subcontract - Cyanide, Weak Acid Dissociable				
Sample ID: 2507018-03 Location ID: MW-22	Matrix: Water			
Subcontract - Cyanide, Weak Acid Dissociable				
Please provide a Tier II or Tier IV data packagemethods. Send the final report and a standard				
Promium's Element LIMS system, please call			data, to COVVLab@Cityo	racoma.org. If your laboratory uses
 As a contract of the contract of	managan sankku •/ aan aagay abandaansa, wasaliga sanku s			
In Jon	8/1/2025	Lullen	1015 8/1/25	Report type:
Released By	Date	Received By		Detection Limit: MDL MRL/
				Detection Limit: MDL MRL/LLOQ
Released By	Date	Received By		-



City of Tacoma Project: 2507018
326 E. D Street Project Number: 2507018
Tacoma WA, 98421 Project Manager: Terri Torres

Reported: 15-Aug-2025 16:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2507018-01 (MW-20)	25H0004-01	Water	29-Jul-2025 10:05	01-Aug-2025 10:15
2507018-02 (MW-21)	25H0004-02	Water	29-Jul-2025 11:00	01-Aug-2025 10:15
2507018-03 (MW-22)	25H0004-03	Water	29-Jul-2025 09:10	01-Aug-2025 10:15

Reported:

City of Tacoma Project: 2507018 326 E. D Street Project Number: 2507018 15-Aug-2025 16:09 Tacoma WA, 98421 Project Manager: Terri Torres

Work Order Case Narrative

Client: City of Tacoma **Project: 2507018**

Project Number: 2507018 Work Order: 25H0004

Sample receipt

The sample(s) as listed on the preceding page were received 01-Aug-2025 10:15 under ARI work order 25H0004. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Wet Chemistry

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

WORK ORDER

25H0004

Client: City of Tacoma

Project Manager: Phillip Bates

Project: 2507018

Project Number: 2507018

Preservation Confirmation

Container ID	Container Type	pН	pH Paper Lot#: 1006061
25H0004-01 A	Miscellaneous container, NaOH	>120	
25H0004-02 A	Miscellaneous container, NaOH	>12 P	
25H0004-03 A	Miscellaneous container, NaOH	>12 p	

Preservation Confirmed By Date

Reviewed By

Date

Page 5 of 12 25H0004 ARISample FINAL 15 Aug 2025 1609



Cooler Receipt Form

ARI Client: City of Tacoma Project Name: 250701	8		
COC No(s): Delivered by: Fed-Ex UPS Courier		Other:	
Assigned ARI Job No: 25 HOCO4 Tracking No:			NA)
Preliminary Examination Phase:			
Were intact, properly signed and dated custody seals attached to the outside of the cooler?	VES.)	NO
Were custody papers included with the cooler?	VES.		NO
Were custody papers included with the cooler? Were custody papers properly filled out (ink, signed, etc.)	YES		NO
Temperature of Cooler(s) (°C) Time 1015	Temp Gun ID#:	0	
Was a temperature blank included in the cooler?	remp dun ib#.		NO
Were coolers received between 0°- 6° (°C)		YES	NO
Was sufficient ice used (if appropriate)?	NIA	200	20.000
	NA	YES	NO
Cooler Accepted by: SA Date: 8/1/25Time:	1015		
Complete custody forms and attach all shipping documents			
Log-In Phase:			
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Bl	ock N/A Other: _		
Are any samples that were out of temperature compliance documented in LIMS?		YES	NO
How were bottles sealed in plastic bags?	Individually	Grouped	Not
Did all bottles arrive in good condition (unbroken)?		YES	NO
Were all bottle labels complete and legible?		YES	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		YES	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	NA	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	NO
Was sufficient amount of sample sent in each bottle?		YES	NO
Date VOC Trip Blank was made at ARI	NA	-	
Were the sample(s) split (NA) YES Date/Time: Equipment:	Sr	olit by:	
by ARI?			
Samples Logged by: SA Date: 8/1/25 Time: 1040 Labels	checked by:	SA	
** Notify Project Manager of discrepancies or concerns **	onconcu by		
Pattern C and Control and C and Control and C an			_
Additional Notes, Discrepancies, & Resolutions:			
Por Data:			



City of Tacoma Project: 2507018
326 E. D Street Project Number: 2507018
Tacoma WA, 98421 Project Manager: Terri Torres

Reported: 15-Aug-2025 16:09

2507018-01 (MW-20) 25H0004-01 (Water)

Wet Chemistry

 Method: SM 4500-CN I-11
 Sampled: 07/29/2025 10:05

 Instrument: UV1800-2 Analyst: RMS
 Analyzed: 08/14/2025 20:47

Sample Preparation: Preparation Method: SM 4500-CN⁻I-99 Extract ID: 25H0004-01 A

Preparation Batch: BNH0215 Sample Size: 50 mL Prepared: 08/12/2025 Final Volume: 50 mL

Reporting
Analyte CAS Number Dilution Limit Result Units Notes

Cyanide, Weak Acid Dissociable 57-12-5 1 0.005 ND mg/L U



 City of Tacoma
 Project:
 2507018

 326 E. D Street
 Project Number:
 2507018
 Reported:

 Tacoma WA, 98421
 Project Manager:
 Terri Torres
 15-Aug-2025 16:09

2507018-02 (MW-21) 25H0004-02 (Water)

Wet Chemistry

 Method: SM 4500-CN I-11
 Sampled: 07/29/2025 11:00

 Instrument: UV1800-2 Analyst: RMS
 Analyzed: 08/14/2025 20:48

Sample Preparation: Preparation Method: SM 4500-CN⁻I-99 Extract ID: 25H0004-02 A

Preparation Batch: BNH0215 Sample Size: 50 mL Prepared: 08/12/2025 Final Volume: 50 mL

Reporting
Analyte CAS Number Dilution Limit Result Units Notes

Cyanide, Weak Acid Dissociable 57-12-5 1 0.005 ND mg/L U



City of TacomaProject:2507018326 E. D StreetProject Number:2507018Reported:Tacoma WA, 98421Project Manager:Terri Torres15-Aug-2025 16:09

2507018-03 (MW-22) 25H0004-03 (Water)

Wet Chemistry

 Method: SM 4500-CN I-11
 Sampled: 07/29/2025 09:10

 Instrument: UV1800-2 Analyst: RMS
 Analyzed: 08/14/2025 20:49

Sample Preparation: Preparation Method: SM 4500-CN⁻I-99 Extract ID: 25H0004-03 A

Preparation Batch: BNH0215 Sample Size: 50 mL
Prepared: 08/12/2025 Final Volume: 50 mL

Reporting

Analyte CAS Number Dilution Limit Result Units Notes

Cyanide, Weak Acid Dissociable 57-12-5 1 0.005 ND mg/L U

City of TacomaProject:2507018326 E. D StreetProject Number:2507018Tacoma WA, 98421Project Manager:Terri Torres

Reported: 15-Aug-2025 16:09

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BNH0215 - SM 4500-CN I-11 in Water

Instrument: UV1800-2 Analyst: RMS

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BNH0215-BLK1)			Prep	ared: 12-Au	g-2025 A	nalyzed: 14	-Aug-2025 20	0:46		
Cyanide, Weak Acid Dissociable	ND	0.005	mg/L		_	-				U
LCS (BNH0215-BS1)			Prep	ared: 12-Au	g-2025 A	nalyzed: 14	-Aug-2025 20	0:47		
Cyanide, Weak Acid Dissociable	0.137	0.005	mg/L	0.150		91.4	75-125			
Duplicate (BNH0215-DUP1)	Source:	25H0004-01	Prep	ared: 12-Au	g-2025 A	nalyzed: 14	-Aug-2025 20	0:47		
Cyanide, Weak Acid Dissociable	0.008	0.005	mg/L		ND				20	
Matrix Spike (BNH0215-MS1)	Source:	25H0004-01	Prep	ared: 12-Au	g-2025 A	nalyzed: 14	-Aug-2025 20	0:48		
Cyanide, Weak Acid Dissociable	0.145	0.005	mg/L	0.150	ND	96.7	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

City of Tacoma Project: 2507018
326 E. D Street Project Number: 2507018

326 E. D StreetProject Number:2507018Reported:Tacoma WA, 98421Project Manager:Terri Torres15-Aug-2025 16:09

Uncertified Analytes included in this Report

Analysis Matrix & Analyte

None

Certified Analyses included in this Report

Analysis Matrix & Analyte Certification Codes

SM 4500-CN I-11 in Water

Cyanide, Weak Acid Dissociable NELAP, WADOE

Certifications

Code	Description	Number	Expires
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-018	05/12/2026
WADOE	WA Dept of Ecology	C558	08/31/2025



U

#

Analytical Report

 City of Tacoma
 Project:
 2507018

 326 E. D Street
 Project Number:
 2507018
 Reported:

 Tacoma WA, 98421
 Project Manager:
 Terri Torres
 15-Aug-2025 16:09

Notes and Definitions

This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.
!	Indicates that ARL is NOT ACCREDITED for this parameter in samples logged as 'Drinking Water'

Indicates that ARL is NOT ACCREDITED for this parameter in this analysis and matrix.

Chain of Custody



Matrix Codes:

326 East D Street Tacoma WA, 98421-1801

W=Water

phone (253) 502-2130 fax (253) 502-2170

Page	1	of	1

lacoma											L	ab Work Or	der Number		2507018
Client Name			Project Name						4	Requeste	Analyses				Requested Turn Around
PW Engineering			AMERICA	N(₂	8					T	T				
Client Contact			Project Number			350								Rush requests subject to	
Charla Kinlow			0202561-001			d 66	ω.	_							additional charge.
address		Project Descript	tion		oppolive	0 Cr	Acid							Rush requests subject to lab	
747 Market Street, Rm 744		2044			::Cc	SM3500	ak					1		approval.	
City Tacoma			PO Number			00.8 1, D	S	Ne Ne							
			Sampler Signatu	Irac		J 20 icke	Ę	de,					1		
State/Zip WA, 98402			- N	ares		- Ke	i i	/ani							Standard (days)
	T		1/10/1	- AAR	ON GALLETO	isso 20E	hr.	0,						per	
Phone (253) 591-5433 / (253) 594-7941	Fax		000	7	UNGLETO	Cadmium, Dissolved 200.8::Coppe Dissolved 6020B::Nickel, Dissolved Hexavalent Chromium SM3500 Cr Subcontract - Cyanide, Weak Acid Dissociable		ntract	ntract					e Number	Expedited (days)
Sampler Becca Dozier			Cadmium, Dissolved 2008.: North Arran Pulls Sampler Signatures Arran Parkon Pa					Subcor						Sample	Due Date
							V = = =			Preserva	lon Code				
Sample Name or Field ID	Sampled Date	Sampled Time	Sample Type	Matrix Code	Container Count	В	А	С							Sample Comments
MW-20	7-29-25	1005	G	W	3	1	1	1						-01	
MW-21	7-29.75	1100	G	W	3	1	1	1						-02	
MW-22	7-79-75	0910	G	W	3	1	1	1						-03	
					1	1									
								1							
					 										
					1			-		-		-			
	-					-									
										1					
Relinquished By AARON GALLETY) A.D. HA Received By				Date/Time	Date/Tigne 4/29/25 @ 11:33		33	- Filter Lot # 1423882					· · · · · · · · · · · · · · · · · · ·		
Relinquished By Received By						Date/Time									
Relinquished By Received By				Date/Time				1							
Cooler Numbers and Temperatures									•	13.0	C. Con	per feed	SlAI 15	2202669	2

Cont Codes

A=125 mL WM HDPE Amber, Filter, Buff, pH9.3-9.7 .Cr6, B=125 mL WM HDPE HN03 Filter :Metals Diss, C=500 mL BR AG NaOH :CN

Period 129 125