

CITY OF EVERETT
ENVIRONMENTAL LABORATORY

PROJECT # 00066137

Client: CITY OF EVERETT - IPT Date Received: 04/10/24
Program: IPT - EWPCF Data Release: CM
Contact: ANNA PENNINGTON Date Reported: 05/30/25

BQ52046		- FEN		Sample Date/Time:			04/09/24 09:00		Sampler:		AP / CJ	
CONTRACT		Method	Results	Qual	MDL	PQL	Units	Analysis Time		Analyst		
Cyanide		EPA 1631E	<0.005				mg/L	05/08/24	10:01	CM		
Dis. Hexavalent Chromium			0.031				µg/L	04/29/24	13:23	CM		
HEM			<5				mg/L	05/08/24	10:01	CM		
HEM - Non-Polar			<5				mg/L	05/08/24	10:01	CM		
HEM - Polar			<5				mg/L	05/08/24	10:01	CM		
Mercury Low			4.0				ng/L	04/12/24	10:56			
Phenolics			<0.04				mg/L	05/08/24	10:01	CM		
TOC			31.81				mg/L	05/08/24	10:01	CM		
METALS(T)		Method	Results	Qual	MDL	PQL	Units	Analysis Time		Analyst		
Antimony Low Level		200.8	0.5 J		0.3	1.2	µg/L	05/08/24	11:39	DV		
Arsenic Low Level		200.8	0.8		0.1	0.4	µg/L	05/08/24	11:39	DV		
Beryllium Low Level		200.8	<0.1		0.1	0.4	µg/L	05/08/24	11:19	DV		
Cadmium Low Level		200.8	<0.06		0.06	0.24	µg/L	05/08/24	11:19	DV		
Chromium Low Level		200.8	0.6 J		0.3	1.2	µg/L	05/08/24	11:39	DV		
Cobalt		200.8	<0.4		0.4	1.6	µg/L	05/08/24	11:19	DV		
Copper Low Level		200.8	3.8		0.8	3.2	µg/L	05/08/24	11:39	DV		
Lead Low Level		200.8	0.7		0.1	0.4	µg/L	05/08/24	11:39	DV		
Manganese Low Level		200.8	117		0.4	1.6	µg/L	05/08/24	11:39	DV		
Mercury		245.1	<0.010		0.010	0.040	µg/L	05/06/24	10:59	DV		
Molybdenum		200.8	1.2 J		0.4	1.6	µg/L	05/08/24	11:39	DV		
Nickel Low Level		200.8	2.1 J		1.3	5.2	µg/L	05/08/24	11:39	DV		
Selenium		200.8	<0.4		0.4	1.6	µg/L	05/08/24	11:19	DV		
Silver Low Level		200.8	<0.09		0.09	0.36	µg/L	05/08/24	11:19	DV		
Thallium Low Level		200.8	<0.09		0.09	0.36	µg/L	05/08/24	11:19	DV		
Tin		200.8	<2.5		2.5	10.0	µg/L	05/08/24	11:19	DV		
Titanium		NOT ACCRED	<6.3		6.3	25.2	µg/L	05/08/24	11:19	DV		
Vanadium		200.8	<0.6		0.6	2.4	µg/L	05/08/24	11:19	DV		
Zinc Low Level		200.8	9 J		3.8	15.2	µg/L	05/08/24	11:39	DV		

CITY OF EVERETT
ENVIRONMENTAL LABORATORY

PROJECT # 00066137

Client: CITY OF EVERETT - IPT

Date Received: 04/10/24

Program: IPT - EWPCF

Data Release: CM

Contact: ANNA PENNINGTON

Date Reported: 05/30/25

BQ52047 - SCE		Sample Date/Time: 04/09/24 09:00				Sampler: AP / CJ		
CONTRACT	Method	Results	Qual	MDL	PQL	Units	Analysis Time	Analyst
Cyanide	EPA 1631E	<0.005				mg/L	05/08/24 10:01	CM
Dis. Hexavalent Chromium		0.029 J				µg/L	04/29/24 13:23	CM
HEM		<5				mg/L	05/08/24 10:01	CM
HEM - Non-Polar		<5				mg/L	05/08/24 10:01	CM
HEM - Polar		<5				mg/L	05/08/24 10:01	CM
Mercury Low		3.4				ng/L	04/12/24 10:56	CM
Phenolics		<0.04				mg/L	05/08/24 10:01	CM
TOC		13.34				mg/L	05/08/24 10:01	CM
METALS(T)	Method	Results	Qual	MDL	PQL	Units	Analysis Time	Analyst
Antimony Low Level	200.8	0.6 J		0.3	1.2	µg/L	05/08/24 11:40	DV
Arsenic Low Level	200.8	0.6		0.1	0.4	µg/L	05/08/24 11:40	DV
Beryllium Low Level	200.8	<0.1		0.1	0.4	µg/L	05/08/24 11:19	DV
Cadmium Low Level	200.8	<0.06		0.06	0.24	µg/L	05/08/24 11:19	DV
Chromium Low Level	200.8	0.5 J		0.3	1.2	µg/L	05/08/24 11:40	DV
Cobalt	200.8	<0.4		0.4	1.6	µg/L	05/08/24 11:19	DV
Copper Low Level	200.8	5.3		0.8	3.2	µg/L	05/08/24 11:40	DV
Lead Low Level	200.8	0.4		0.1	0.4	µg/L	05/08/24 11:40	DV
Manganese Low Level	200.8	58.5		0.4	1.6	µg/L	05/08/24 11:40	DV
Mercury	245.1	<0.010		0.010	0.040	µg/L	05/06/24 11:00	DV
Molybdenum	200.8	1.9		0.4	1.6	µg/L	05/08/24 11:40	DV
Nickel Low Level	200.8	2.0 J		1.3	5.2	µg/L	05/08/24 11:40	DV
Selenium	200.8	<0.4		0.4	1.6	µg/L	05/08/24 11:19	DV
Silver Low Level	200.8	<0.09		0.09	0.36	µg/L	05/08/24 11:19	DV
Thallium Low Level	200.8	<0.09		0.09	0.36	µg/L	05/08/24 11:19	DV
Tin	200.8	<2.5		2.5	10.0	µg/L	05/08/24 11:19	DV
Titanium	NOT ACCRED	<6.3		6.3	25.2	µg/L	05/08/24 11:19	DV
Vanadium	200.8	0.7 J		0.6	2.4	µg/L	05/08/24 11:40	DV
Zinc Low Level	200.8	48		3.8	15.2	µg/L	05/08/24 11:40	DV

CITY OF EVERETT
ENVIRONMENTAL LABORATORY

PROJECT # 00066137

Client: CITY OF EVERETT - IPT Date Received: 04/10/24
Program: IPT - EWPCF Data Release: CM
Contact: ANNA PENNINGTON Date Reported: 05/30/25

BQ52048		-	PI		Sample Date/Time:		04/09/24 09:00		Sampler:		AP / CJ	
CONTRACT		Method		Results		Qual	MDL	PQL	Units	Analysis Time		Analyst
Cyanide				<0.005					mg/L	05/08/24 10:01		CM
Dis. Hexavalent Chromium				0.025 J					µg/L	04/29/24 13:23		CM
HEM				14					mg/L	05/08/24 10:01		CM
HEM - Non-Polar				<5					mg/L	05/08/24 10:01		CM
HEM - Polar				13					mg/L	05/08/24 10:01		CM
Mercury Low		EPA 1631E		19					ng/L	04/12/24 10:56		CM
Phenolics				<0.04					mg/L	05/08/24 10:01		CM
METALS(T)		Method		Results		Qual	MDL	PQL	Units	Analysis Time		Analyst
Antimony Low Level		200.8		0.9 J			0.3	1.2	µg/L	05/08/24 11:40		DV
Arsenic Low Level		200.8		0.8			0.1	0.4	µg/L	05/08/24 11:40		DV
Beryllium Low Level		200.8		<0.1			0.1	0.4	µg/L	05/08/24 11:19		DV
Cadmium Low Level		200.8		0.17 J			0.06	0.24	µg/L	05/08/24 11:40		DV
Chromium Low Level		200.8		2.4			0.3	1.2	µg/L	05/08/24 11:40		DV
Cobalt		200.8		0.4 J			0.4	1.6	µg/L	05/08/24 11:40		DV
Copper Low Level		200.8		24.1			0.8	3.2	µg/L	05/08/24 11:40		DV
Lead Low Level		200.8		1.7			0.1	0.4	µg/L	05/08/24 11:40		DV
Manganese Low Level		200.8		93.6			0.4	1.6	µg/L	05/08/24 11:40		DV
Mercury		245.1		0.034 J			0.010	0.040	µg/L	05/06/24 11:00		DV
Molybdenum		200.8		1.7			0.4	1.6	µg/L	05/08/24 11:40		DV
Nickel Low Level		200.8		3.2 J			1.3	5.2	µg/L	05/08/24 11:40		DV
Selenium		200.8		0.7 J			0.4	1.6	µg/L	05/08/24 11:40		DV
Silver Low Level		200.8		0.11 J			0.09	0.36	µg/L	05/08/24 11:40		DV
Thallium Low Level		200.8		<0.09			0.09	0.36	µg/L	05/08/24 11:19		DV
Tin		200.8		<2.5			2.5	10.0	µg/L	05/08/24 11:19		DV
Titanium		NOT ACCRED		8 J			6.3	25.2	µg/L	05/08/24 11:40		DV
Vanadium		200.8		1.2 J			0.6	2.4	µg/L	05/08/24 11:40		DV
Zinc Low Level		200.8		133			3.8	15.2	µg/L	05/08/24 11:40		DV

CITY OF EVERETT
ENVIRONMENTAL LABORATORY

PROJECT # 00066137

Client: CITY OF EVERETT - IPT

Date Received: 04/10/24

Program: IPT - EWPCF

Data Release: CM

Contact: ANNA PENNINGTON

Date Reported: 05/30/25

BQ52049 - WSS		Sample Date/Time: 04/09/24 09:00				Sampler: AP / CJ		
CONTRACT	Method	Results	Qual	MDL	PQL	Units	Analysis Time	Analyst
Cyanide		<6.29				mg/kg	05/08/24 10:01	CM
Phenolics mg/kg		<181				mg/kg	05/08/24 10:01	CM
Total Solids %		0.67					05/08/24 10:01	CM
CONVENTIONALS	Method	Results	Qual	MDL	PQL	Units	Analysis Time	Analyst
% TS	SM2540-G	0.71				%	04/18/24 12:24	DV
FIELD	Method	Results	Qual	MDL	PQL	Units	Analysis Time	Analyst
pH Field		6.78				SU	04/09/24 09:00	AP / CJ
METALS(S)	Method	Results	Qual	MDL	PQL	Units	Analysis Time	Analyst
Antimony mg/kg	6020B	2.97		0.520	2.080	mg/kg	05/09/24 12:00	DV
Arsenic mg/kg	6020B	3.60		0.520	2.080	mg/kg	05/09/24 12:00	DV
Beryllium mg/kg	6020B	<0.520		0.520	2.080	mg/kg	05/09/24 12:00	DV
Cadmium mg/kg	6020B	1.62		0.347	1.390	mg/kg	05/09/24 12:00	DV
Chromium mg/kg	6020B	28.4		0.866	3.460	mg/kg	05/09/24 12:00	DV
Cobalt mg/kg	6020B	3.48		0.520	2.080	mg/kg	05/09/24 12:00	DV
Copper mg/kg	6020B	312		1.04	4.1	mg/kg	05/09/24 12:00	DV
Lead mg/kg	6020B	27.7		0.520	2.080	mg/kg	05/09/24 12:00	DV
Manganese mg/kg	6020B	578		0.520	2.080	mg/kg	05/09/24 12:00	DV
Mercury mg/kg	7471	0.372		0.001	0.004	mg/kg	05/06/24 16:51	DV
Molybdenum mg/kg	6020B	5.99		0.520	2.080	mg/kg	05/09/24 12:00	DV
Nickel mg/kg	6020B	18.1		1.73	6.9	mg/kg	05/09/24 12:00	DV
Selenium mg/kg	6020B	3.86		0.520	2.080	mg/kg	05/09/24 12:00	DV
Silver mg/kg	6020B	1.82 J		0.520	2.080	mg/kg	05/09/24 12:00	DV
Thallium mg/kg	6020B	<0.520		0.520	2.080	mg/kg	05/09/24 12:00	DV
Tin mg/kg	6020B	<3.47		3.47	13.8	mg/kg	05/09/24 12:00	DV
Vanadium mg/kg	6020B	13.8		0.866	3.460	mg/kg	05/09/24 12:00	DV
Zinc mg/kg	6020B	1160		5.20	20.8	mg/kg	05/09/24 12:00	DV

CITY OF EVERETT
ENVIRONMENTAL LABORATORY

PROJECT # 00066137

Client: CITY OF EVERETT - IPT Date Received: 04/10/24
Program: IPT - EWPCF Data Release: CM
Contact: ANNA PENNINGTON Date Reported: 05/30/25

BQ52050 - FEN FB				Sample Date/Time: 04/09/24 09:00			Sampler: AP / CJ	
CONTRACT	Method	Results	Qual	MDL	PQL	Units	Analysis Time	Analyst
Mercury Low	EPA 1631E	0.21 J	J			ng/L	04/12/24 10:56	
METALS(T)	Method	Results	Qual	MDL	PQL	Units	Analysis Time	Analyst
Antimony Low Level	200.8	<0.3		0.3	1.2	µg/L	05/08/24 11:19	DV
Arsenic Low Level	200.8	<0.1		0.1	0.4	µg/L	05/08/24 11:19	DV
Beryllium Low Level	200.8	<0.1		0.1	0.4	µg/L	05/08/24 11:19	DV
Cadmium Low Level	200.8	<0.06		0.06	0.24	µg/L	05/08/24 11:19	DV
Chromium Low Level	200.8	<0.3		0.3	1.2	µg/L	05/08/24 11:19	DV
Cobalt	200.8	<0.4		0.4	1.6	µg/L	05/08/24 11:19	DV
Copper Low Level	200.8	<0.8		0.8	3.2	µg/L	05/08/24 11:19	DV
Lead Low Level	200.8	0.4		0.1	0.4	µg/L	05/08/24 11:40	DV
Manganese Low Level	200.8	<0.4		0.4	1.6	µg/L	05/08/24 11:19	DV
Mercury	245.1	<0.010		0.010	0.040	µg/L	05/06/24 10:53	DV
Molybdenum	200.8	<0.4		0.4	1.6	µg/L	05/08/24 11:19	DV
Nickel Low Level	200.8	<1.3		1.3	5.2	µg/L	05/08/24 11:19	DV
Selenium	200.8	<0.4		0.4	1.6	µg/L	05/08/24 11:19	DV
Silver Low Level	200.8	<0.09		0.09	0.36	µg/L	05/08/24 11:19	DV
Thallium Low Level	200.8	<0.09		0.09	0.36	µg/L	05/08/24 11:19	DV
Tin	200.8	<2.5		2.5	10.0	µg/L	05/08/24 11:19	DV
Titanium	NOT ACCRED	<6.3		6.3	25.2	µg/L	05/08/24 11:19	DV
Vanadium	200.8	<0.6		0.6	2.4	µg/L	05/08/24 11:19	DV
Zinc Low Level	200.8	<3.8		3.8	15.2	µg/L	05/08/24 11:19	DV

CITY OF EVERETT
ENVIRONMENTAL LABORATORY

PROJECT # 00066137

Client: CITY OF EVERETT - IPT Date Received: 04/10/24
Program: IPT - EWPCF Data Release: CM
Contact: ANNA PENNINGTON Date Reported: 05/30/25

BQ52051 - SCE FB				Sample Date/Time: 04/09/24 09:00		Sampler: AP / CJ		
CONTRACT	Method	Results	Qual	MDL	PQL	Units	Analysis Time	Analyst
Mercury Low	EPA 1631E	0.41 J	J			ng/L	04/12/24 10:56	
METALS(T)	Method	Results	Qual	MDL	PQL	Units	Analysis Time	Analyst
Antimony Low Level	200.8	<0.3		0.3	1.2	µg/L	05/08/24 11:19	DV
Arsenic Low Level	200.8	<0.1		0.1	0.4	µg/L	05/08/24 11:19	DV
Beryllium Low Level	200.8	<0.1		0.1	0.4	µg/L	05/08/24 11:19	DV
Cadmium Low Level	200.8	<0.06		0.06	0.24	µg/L	05/08/24 11:19	DV
Chromium Low Level	200.8	<0.3		0.3	1.2	µg/L	05/08/24 11:19	DV
Cobalt	200.8	<0.4		0.4	1.6	µg/L	05/08/24 11:19	DV
Copper Low Level	200.8	<0.8		0.8	3.2	µg/L	05/08/24 11:19	DV
Lead Low Level	200.8	<0.1		0.1	0.4	µg/L	05/08/24 11:19	DV
Manganese Low Level	200.8	<0.4		0.4	1.6	µg/L	05/08/24 11:19	DV
Mercury	245.1	<0.010		0.010	0.040	µg/L	05/06/24 11:03	DV
Molybdenum	200.8	<0.4		0.4	1.6	µg/L	05/08/24 11:19	DV
Nickel Low Level	200.8	<1.3		1.3	5.2	µg/L	05/08/24 11:19	DV
Selenium	200.8	<0.4		0.4	1.6	µg/L	05/08/24 11:19	DV
Silver Low Level	200.8	<0.09		0.09	0.36	µg/L	05/08/24 11:19	DV
Thallium Low Level	200.8	<0.09		0.09	0.36	µg/L	05/08/24 11:19	DV
Tin	200.8	<2.5		2.5	10.0	µg/L	05/08/24 11:19	DV
Titanium	NOT ACCRED	<6.3		6.3	25.2	µg/L	05/08/24 11:19	DV
Vanadium	200.8	<0.6		0.6	2.4	µg/L	05/08/24 11:19	DV
Zinc Low Level	200.8	<3.8		3.8	15.2	µg/L	05/08/24 11:19	DV

CITY OF EVERETT
ENVIRONMENTAL LABORATORY

PROJECT # 00066137

Client: CITY OF EVERETT - IPT Date Received: 04/10/24
Program: IPT - EWPCF Data Release: CM
Contact: ANNA PENNINGTON Date Reported: 05/30/25

BQ52052 - PI FB		Sample Date/Time: 04/09/24 09:00				Sampler: AP / CJ		
CONTRACT	Method	Results	Qual	MDL	PQL	Units	Analysis Time	Analyst
Mercury Low	EPA 1631E	<0.20				ng/L	04/12/24 10:56	CM
METALS(T)	Method	Results	Qual	MDL	PQL	Units	Analysis Time	Analyst
Antimony Low Level	200.8	<0.3		0.3	1.2	µg/L	05/08/24 11:19	DV
Arsenic Low Level	200.8	<0.1		0.1	0.4	µg/L	05/08/24 11:19	DV
Beryllium Low Level	200.8	<0.1		0.1	0.4	µg/L	05/08/24 11:19	DV
Cadmium Low Level	200.8	<0.06		0.06	0.24	µg/L	05/08/24 11:19	DV
Chromium Low Level	200.8	<0.3		0.3	1.2	µg/L	05/08/24 11:19	DV
Cobalt	200.8	<0.4		0.4	1.6	µg/L	05/08/24 11:19	DV
Copper Low Level	200.8	<0.8		0.8	3.2	µg/L	05/08/24 11:19	DV
Lead Low Level	200.8	<0.1		0.1	0.4	µg/L	05/08/24 11:19	DV
Manganese Low Level	200.8	<0.4		0.4	1.6	µg/L	05/08/24 11:19	DV
Mercury	245.1	<0.010		0.010	0.040	µg/L	05/06/24 11:03	DV
Molybdenum	200.8	<0.4		0.4	1.6	µg/L	05/08/24 11:19	DV
Nickel Low Level	200.8	<1.3		1.3	5.2	µg/L	05/08/24 11:19	DV
Selenium	200.8	<0.4		0.4	1.6	µg/L	05/08/24 11:19	DV
Silver Low Level	200.8	<0.09		0.09	0.36	µg/L	05/08/24 11:19	DV
Thallium Low Level	200.8	<0.09		0.09	0.36	µg/L	05/08/24 11:19	DV
Tin	200.8	<2.5		2.5	10.0	µg/L	05/08/24 11:19	DV
Titanium	NOT ACCRED	<6.3		6.3	25.2	µg/L	05/08/24 11:19	DV
Vanadium	200.8	<0.6		0.6	2.4	µg/L	05/08/24 11:19	DV
Zinc Low Level	200.8	<3.8		3.8	15.2	µg/L	05/08/24 11:19	DV



Report Prepared For:

Everett Environmental Lab

Client Project Description:
66137

Work Order: AED0014

Date of Preparation: 04-25-2024



Burlington, WA *Corporate Laboratory (a)* 1620 S Walnut St - Burlington, WA 98233 - 800.755.9295 • 360.757.1400
Bellingham, WA *Microbiology (b)* 805 Orchard Dr Ste 4 - Bellingham, WA 98225 - 360.715.1212
Portland, OR *Microbiology/Chemistry (c)* 9725 SW Commerce Cir, Ste A-2 - Wilsonville, OR 97070 - 503.682.7802
Corvallis, OR *Microbiology/Chemistry (d)* 1100 NE Circle Blvd, Ste 130 - Corvallis, OR 97330 - 541.753.4946
Bend, OR *Microbiology (e)* 20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

April 25, 2024

Shane Sinclair
Everett Environmental Lab
3200 Cedar Street
Everett, WA 98201

RE: NPDES

Enclosed are the analytical results for Work Order AED0014 received by our laboratory on 4/11/2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Karen E Crowell
Office Manager

Table of Contents

Samples in Report	4
Sample Results	5
Quality Assurance Results	8
Certified Analyses	11
Certifications	11
Qualifiers and Definitions	12
Chain of Custody PDF	13

Everett Environmental Lab
3200 Cedar Street
Everett, WA 98201

Project: NPDES
Project Number: 66137
Project Manager: Shane Sinclair

Reported:
04/25/2024 11:16

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
AED0014-01	BQ52046 FEN	Water	04/09/2024	04/11/2024
AED0014-02	BQ52047 SCE	Water	04/09/2024	04/11/2024
AED0014-03	BQ52048 PI	Water	04/09/2024	04/11/2024

Everett Environmental Lab 3200 Cedar Street Everett, WA 98201	Project: NPDES Project Number: 66137 Project Manager: Shane Sinclair	Reported: 04/25/2024 11:16
---	--	--------------------------------------

Sample Results

Sample Description: BQ52046 FEN Lab Number: AED0014-01 (Water)				Comments:		Sampled: 4/9/2024 7:30:00AM Collected By:			
CAS	Analyte	Result	Qual	Quantitation Limit	Detection Limit	Units	Date Analyzed	Analyst Initials	Method
Analyzed By Burlington									

Hexavalent Chromium

18540-29-9	Hexavalent Chromium	0.0310		0.0300	0.00660	ug/L	04/19/2024	LJH	EPA 218.6
------------	---------------------	--------	--	--------	---------	------	------------	-----	-----------

Everett Environmental Lab
3200 Cedar Street
Everett, WA 98201

Project: NPDES
Project Number: 66137
Project Manager: Shane Sinclair

Reported:
04/25/2024 11:16

Sample Results (Continued)

Sample Description: BQ52047 SCE				Sampled: 4/9/2024 7:30:00AM					
Lab Number: AED0014-02 (Water)		Comments:			Collected By:				
CAS	Analyte	Result	Qual	Quantitation Limit	Detection Limit	Units	Date Analyzed	Analyst Initials	Method
Analyzed By Burlington									

Hexavalent Chromium

18540-29-9	Hexavalent Chromium	0.0290	J, U	0.0300	0.00660	ug/L	04/19/2024	LJH	EPA 218.6
------------	----------------------------	---------------	------	--------	---------	------	------------	-----	-----------

Everett Environmental Lab
3200 Cedar Street
Everett, WA 98201

Project: NPDES
Project Number: 66137
Project Manager: Shane Sinclair

Reported:
04/25/2024 11:16

Sample Results (Continued)

Sample Description: BQ52048 PI				Sampled: 4/9/2024 7:30:00AM					
Lab Number: AED0014-03 (Water)				Comments: Collected By:					
CAS	Analyte	Result	Qual	Quantitation Limit	Detection Limit	Units	Date Analyzed	Analyst Initials	Method
Analyzed By Burlington									

Hexavalent Chromium

18540-29-9	Hexavalent Chromium	0.0250	J, U	0.0300	0.00660	ug/L	04/19/2024	LJH	EPA 218.6
------------	---------------------	--------	------	--------	---------	------	------------	-----	-----------

Everett Environmental Lab
3200 Cedar Street
Everett, WA 98201

Project: NPDES
Project Number: 66137
Project Manager: Shane Sinclair

Reported:
04/25/2024 11:16

Quality Control



Hexavalent Chromium

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BED0163 - Metals Filtration									
Duplicate (BED0163-DUP1)		Source: AED0015-02		Prepared & Analyzed: 04/19/24					
Hexavalent Chromium	0.0570	0.0300	ug/L		0.464			156	200
Matrix Spike (BED0163-MS1)		Source: AED0013-01		Prepared & Analyzed: 04/19/24					
Hexavalent Chromium	0.401	0.0300	ug/L	0.300	0.0990	101	70-130		
Matrix Spike (BED0163-MS2)		Source: AED0029-01		Prepared & Analyzed: 04/19/24					
Hexavalent Chromium	6.34	0.600	ug/L	6.00	0.421	98.6	70-130		
Matrix Spike Dup (BED0163-MSD1)		Source: AED0013-01		Prepared & Analyzed: 04/19/24					
Hexavalent Chromium	0.396	0.0300	ug/L	0.300	0.0990	99.0	70-130	1.25	20
Matrix Spike Dup (BED0163-MSD2)		Source: AED0029-01		Prepared & Analyzed: 04/19/24					
Hexavalent Chromium	6.44	0.600	ug/L	6.00	0.421	100	70-130	1.52	20
Batch: SED0010 - BED0163									
Blank (SED0010-CAL1)				Prepared & Analyzed: 04/19/24					
Hexavalent Chromium	0.00 U		ug/L		0.00				
0.030 (SED0010-CAL2)				Prepared & Analyzed: 04/19/24					
Hexavalent Chromium	0.0330		ug/L		0.0300	110			
0.100 (SED0010-CAL3)				Prepared & Analyzed: 04/19/24					
Hexavalent Chromium	0.0940		ug/L		0.100	94.0			
0.250 (SED0010-CAL4)				Prepared & Analyzed: 04/19/24					
Hexavalent Chromium	0.248		ug/L		0.250	99.2			
0.500 (SED0010-CAL5)				Prepared & Analyzed: 04/19/24					
Hexavalent Chromium	0.505		ug/L		0.500	101			
1.000 (SED0010-CAL6)				Prepared & Analyzed: 04/19/24					
Hexavalent Chromium	1.00		ug/L		1.00	100			
2.000 (SED0010-CAL7)				Prepared & Analyzed: 04/19/24					
Hexavalent Chromium	2.00		ug/L		2.00	99.9			
MRL 0.03 (SED0010-CRL1)				Prepared & Analyzed: 04/19/24					
Hexavalent Chromium	0.0320		ug/L		0.0300	107	50-150		
MRL 0.02 (SED0010-CRL2)				Prepared & Analyzed: 04/19/24					
Hexavalent Chromium	0.0210		ug/L		0.0200	105	50-150		
Wash (SED0010-IBL2)				Prepared & Analyzed: 04/19/24					
Hexavalent Chromium	ND U	0.0300	ug/L						
Initial Cal Blank (SED0010-ICB1)				Prepared & Analyzed: 04/19/24					
Hexavalent Chromium	0.00 U		ug/L		0.00				

Everett Environmental Lab
3200 Cedar Street
Everett, WA 98201

Project: NPDES
Project Number: 66137
Project Manager: Shane Sinclair

Reported:
04/25/2024 11:16

Quality Control (Continued)



Hexavalent Chromium (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: SED0010 - BED0163 (Continued)									
LDR (SED0010-ICV1)									
Hexavalent Chromium	7.17		ug/L	7.00		102	90-110		
ICV 0.250ppb (SED0010-ICV2)									
Hexavalent Chromium	0.249		ug/L	0.250		99.6	90-110		
QCSMetals (SED0010-SCV1)									
Hexavalent Chromium	0.786		ug/L	0.732		107	90-110		

Everett Environmental Lab
3200 Cedar Street
Everett, WA 98201

Project: NPDES
Project Number: 66137
Project Manager: Shane Sinclair

Reported:
04/25/2024 11:16

Edge Analytical - Burlington - Data Review Checklist



Analytical Method: **EPA 218.6**
Instrument: **IC03**
Reviewer: **LJH**

Batch/Sequence Number:
Analyst: **LJH**
Review Date: **4/22/24**

Passes	Criteria
YES	Correlation coefficient (r) value at least 0.999
YES	Dilution factors (DF) entered if necessary
YES	Duplicates every 10 samples, RPD $\pm 20\%$
YES	LFB $\pm 10\%$ after every 10 samples and at the end of the analytical batch.
YES	LFM every 10 samples, recoveries $\pm 30\%$
YES	MB/LRB at the beginning, every 10 samples and at the end of the analytical batch. The concentration must be below 1/2 the MRL.
YES	PQL and MDL Correct
YES	QCS $\pm 10\%$ (Required Quarterly)
YES	Qualifiers used where appropriate
YES	Standards, calibration and reagents recorded on instrument printout.
YES	Units in PPB or PPM
YES	Where Samples Analyzed Within Holding Time?
YES	Did all samples meet the lab's standard conditions for sample acceptability upon receipt?
YES	Pipettors Used and Checked
	Pipettor Cal Check Pipettor Set Vol Vol IN48 7 7.05 IN49 2 2.03 IN33 0.25 0.250 IN34 0.1 0.10
YES	Comments

File: rev_RevCheckList_BchSeq.rpt

Page 1 of 1

Everett Environmental Lab
3200 Cedar Street
Everett, WA 98201

Project: NPDES
Project Number: 66137
Project Manager: Shane Sinclair

Reported:
04/25/2024 11:16

Certified Analyses included in this Report



Analyte	CAS #	Certifications
EPA 218.6 in Water		
Hexavalent Chromium	18540-29-9	Burlington - C567

* - Not accredited, all method quality control performed.

List of Certifications

{@Cont'd}

Edge Analytical - Burlington



Code	Description	Number	Expires
MTPHHS	Montana Department of Public Health and Human Services	CERT0104	01/01/2025
WADOE_A	Washington State Department of Ecology	C567	01/18/2025
AZDHS	Arizona Department of Health Services	AZ0772	12/15/2024
PADEP	Pennsylvania Department of Environmental Protection	68-04603	04/30/2024
NYDOH	New York Department of Health	11965	04/01/2024
EPA_A	EPA	WA00097	02/01/2050
NJDEP	New Jersey Department of Environmental Protection	WA013	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0150	09/30/2024
MADEP	Commonwealth of Massachusetts DEP	M-WA097	02/19/2024
ID_DHW	Idaho Department of Health and Welfare	WA00097	01/31/2025
HIDOH	State of Hawaii Department of Health	-	04/02/2024
WADOH_A	Washington State Department of Health - Drinking Water	046	01/18/2025
ORELAP_A	Oregon Environmenatal Lab Accreditation Program	4072	04/02/2024
NH_DES	New Hampshire Department of Environmental Services	2246	04/11/2024
ORELAP_V	Oregon Environmenatal Lab Accreditation Program	OR100009	04/04/2024
ORELAP_P	Oregon Environmenatal Lab Accreditation Program	OR100063	05/28/2024
EPA_P	EPA	OR01042	02/01/2050
WADOH_M	Washington State Department of Health - Drinking Water	164	12/05/2024
ISO_PJLA_M	Perry Johnson Laboratory Accreditation, Inc.	77932	05/31/2024
WADOE_M	Washington State Department of Ecology	C874	12/05/2024
ORELAP_D	Oregon Environmenatal Lab Accreditation Program	4075	11/01/2024
EPA_D	EPA	OR01046	02/01/2050
EPA_V	EPA	OR01004	02/01/2050
NYDOH_P	New York Department of Health	11991	04/01/2024
EPA_M	EPA	WA01214	02/01/2050
GADNR	Georgia Department of Natural Resources	C-037	04/02/2024

Everett Environmental Lab
3200 Cedar Street
Everett, WA 98201

Project: NPDES
Project Number: 66137
Project Manager: Shane Sinclair

Reported:
04/25/2024 11:16

Notes and Definitions

Item	Definition
J	An estimated concentration, below calibration curve but above method detection limit.
U	Analyte included in the analysis, but not detected
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

ANALYTICAL REPORT

PREPARED FOR

Attn: Shane Sinclair
City of Everett
Environmental Laboratory
3200 Cedar Street
Everett, Washington 98201

Generated 4/16/2024 7:53:01 AM

JOB DESCRIPTION

Mercury Analysis
66137

JOB NUMBER

350-416-1

Eurofins Seattle

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 Environment Testing Northwest, LLC Project Manager.

Authorization



Generated
4/16/2024 7:53:01 AM

Authorized for release by
Lilly-Anna LaCount, Project Manager
Lilly-Anna.Lacount@et.eurofinsus.com
(206)622-6960

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
Field Data Sheets	15
Receipt Checklists	16



Definitions/Glossary

Client: City of Everett
Project/Site: Mercury Analysis

Job ID: 350-416-1
SDG: 66137

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
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

Case Narrative

Client: City of Everett
Project: Mercury Analysis

Job ID: 350-416-1

Job ID: 350-416-1

Eurofins Seattle

Job Narrative 350-416-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 4/10/2024 12:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

Metals

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

Eurofins Seattle

Detection Summary

Client: City of Everett
Project/Site: Mercury Analysis

Job ID: 350-416-1
SDG: 66137

Client Sample ID: FEN

Lab Sample ID: 350-416-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	4.0		0.50	0.20	ng/L	1		1631E	Total/NA

Client Sample ID: SCE

Lab Sample ID: 350-416-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	3.4		0.50	0.20	ng/L	1		1631E	Total/NA

Client Sample ID: PI

Lab Sample ID: 350-416-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	19		0.50	0.20	ng/L	1		1631E	Total/NA

Client Sample ID: FEN Blank

Lab Sample ID: 350-416-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.21	J	0.50	0.20	ng/L	1		1631E	Total/NA

Client Sample ID: SCE Blank

Lab Sample ID: 350-416-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.41	J	0.50	0.20	ng/L	1		1631E	Total/NA

Client Sample ID: PI Blank

Lab Sample ID: 350-416-6

No Detections.

Client Sample Results

Client: City of Everett
Project/Site: Mercury Analysis

Job ID: 350-416-1
SDG: 66137

Client Sample ID: FEN

Lab Sample ID: 350-416-1

Date Collected: 04/09/24 07:30

Matrix: Water

Date Received: 04/10/24 12:30

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	4.0		0.50	0.20	ng/L			04/12/24 14:02	1

Client Sample ID: SCE

Lab Sample ID: 350-416-2

Date Collected: 04/09/24 07:30

Matrix: Water

Date Received: 04/10/24 12:30

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.4		0.50	0.20	ng/L			04/12/24 14:06	1

Client Sample ID: PI

Lab Sample ID: 350-416-3

Date Collected: 04/09/24 07:30

Matrix: Water

Date Received: 04/10/24 12:30

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	19		0.50	0.20	ng/L			04/12/24 14:10	1

Client Sample ID: FEN Blank

Lab Sample ID: 350-416-4

Date Collected: 04/09/24 10:00

Matrix: Water

Date Received: 04/10/24 12:30

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21	J	0.50	0.20	ng/L			04/12/24 13:17	1

Client Sample ID: SCE Blank

Lab Sample ID: 350-416-5

Date Collected: 04/09/24 07:30

Matrix: Water

Date Received: 04/10/24 12:30

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.41	J	0.50	0.20	ng/L			04/12/24 14:23	1

Client Sample ID: PI Blank

Lab Sample ID: 350-416-6

Date Collected: 04/09/24 07:30

Matrix: Water

Date Received: 04/10/24 12:30

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L			04/12/24 14:27	1

QC Sample Results

Client: City of Everett
Project/Site: Mercury Analysis

Job ID: 350-416-1
SDG: 66137

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 350-1732/11
Matrix: Water
Analysis Batch: 1732

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L			04/12/24 12:43	1

Lab Sample ID: MB 350-1732/12
Matrix: Water
Analysis Batch: 1732

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L			04/12/24 12:48	1

Lab Sample ID: MB 350-1732/13
Matrix: Water
Analysis Batch: 1732

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.50	0.20	ng/L			04/12/24 12:52	1

Lab Sample ID: LCS 350-1732/14
Matrix: Water
Analysis Batch: 1732

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.77		ng/L		95	77 - 123

Lab Sample ID: LCSD 350-1732/15
Matrix: Water
Analysis Batch: 1732

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.99		ng/L		100	77 - 123	4	24

Lab Sample ID: 350-416-4 MS
Matrix: Water
Analysis Batch: 1732

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.21	J	5.00	5.02		ng/L		96	71 - 125

Lab Sample ID: 350-416-4 MSD
Matrix: Water
Analysis Batch: 1732

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.21	J	5.00	4.97		ng/L		95	71 - 125	1	24

QC Association Summary

Client: City of Everett
Project/Site: Mercury Analysis

Job ID: 350-416-1
SDG: 66137

Metals

Analysis Batch: 1732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
350-416-1	FEN	Total/NA	Water	1631E	
350-416-2	SCE	Total/NA	Water	1631E	
350-416-3	PI	Total/NA	Water	1631E	
350-416-4	FEN Blank	Total/NA	Water	1631E	
350-416-5	SCE Blank	Total/NA	Water	1631E	
350-416-6	PI Blank	Total/NA	Water	1631E	
MB 350-1732/11	Method Blank	Total/NA	Water	1631E	
MB 350-1732/12	Method Blank	Total/NA	Water	1631E	
MB 350-1732/13	Method Blank	Total/NA	Water	1631E	
LCS 350-1732/14	Lab Control Sample	Total/NA	Water	1631E	
LCSD 350-1732/15	Lab Control Sample Dup	Total/NA	Water	1631E	
350-416-4 MS	FEN Blank	Total/NA	Water	1631E	
350-416-4 MSD	FEN Blank	Total/NA	Water	1631E	

Lab Chronicle

Client: City of Everett
Project/Site: Mercury Analysis

Job ID: 350-416-1
SDG: 66137

Client Sample ID: FEN

Date Collected: 04/09/24 07:30

Date Received: 04/10/24 12:30

Lab Sample ID: 350-416-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	1732	COW	EET SMT	04/12/24 14:02

Client Sample ID: SCE

Date Collected: 04/09/24 07:30

Date Received: 04/10/24 12:30

Lab Sample ID: 350-416-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	1732	COW	EET SMT	04/12/24 14:06

Client Sample ID: PI

Date Collected: 04/09/24 07:30

Date Received: 04/10/24 12:30

Lab Sample ID: 350-416-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	1732	COW	EET SMT	04/12/24 14:10

Client Sample ID: FEN Blank

Date Collected: 04/09/24 10:00

Date Received: 04/10/24 12:30

Lab Sample ID: 350-416-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	1732	COW	EET SMT	04/12/24 13:17

Client Sample ID: SCE Blank

Date Collected: 04/09/24 07:30

Date Received: 04/10/24 12:30

Lab Sample ID: 350-416-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	1732	COW	EET SMT	04/12/24 14:23

Client Sample ID: PI Blank

Date Collected: 04/09/24 07:30

Date Received: 04/10/24 12:30

Lab Sample ID: 350-416-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1631E		1	1732	COW	EET SMT	04/12/24 14:27

Laboratory References:

EET SMT = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (206)622-6960

Accreditation/Certification Summary

Client: City of Everett
Project/Site: Mercury Analysis

Job ID: 350-416-1
SDG: 66137

Laboratory: Eurofins Seattle

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	12-18-24
ANAB	Dept. of Defense ELAP	L2236	12-18-24
ANAB	Dept. of Energy	L2236.01	12-18-24
ANAB	ISO/IEC 17025	L2236	12-18-24
California	State	2954	12-18-24
Florida	NELAP	E87575	12-18-24
Louisiana (All)	NELAP	03073	12-18-24
Maine	State	WA01273	12-18-24
New Jersey	NELAP	WA014	12-18-24
New York	NELAP	67778	12-18-24
Oregon	NELAP	4167-008	12-18-24
US Fish & Wildlife	US Federal Programs	A20571	12-18-24
USDA	US Federal Programs	525-23-4-22573	12-18-24
Washington	State	C788-23a	12-18-24
Wisconsin	State	399133460	12-18-24

Method Summary

Client: City of Everett
Project/Site: Mercury Analysis

Job ID: 350-416-1
SDG: 66137

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	EET SMT

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET SMT = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (206)622-6960

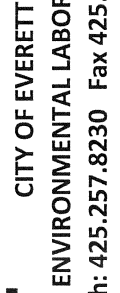
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

Sample Summary

Client: City of Everett
Project/Site: Mercury Analysis

Job ID: 350-416-1
SDG: 66137

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
350-416-1	FEN	Water	04/09/24 07:30	04/10/24 12:30
350-416-2	SCE	Water	04/09/24 07:30	04/10/24 12:30
350-416-3	PI	Water	04/09/24 07:30	04/10/24 12:30
350-416-4	FEN Blank	Water	04/09/24 10:00	04/10/24 12:30
350-416-5	SCE Blank	Water	04/09/24 07:30	04/10/24 12:30
350-416-6	PI Blank	Water	04/09/24 07:30	04/10/24 12:30



Ph: 425.257.8230 Fax 425.257.8228
Sample Dropoff: 4027 4th St SE, Everett WA 98201
Mailing Address: 3200 Cedar ST, Everett WA 98201
Date: **4/10/2024**

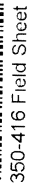
66137

Date: **4/10/2024**

Page 14 of 16

~~4/16/2024~~

*O**Because the City of Everett Environmental Laboratory is a public agency, data, test results, reports and other documents are public records and therefore subject to disclosure to third parties upon their request pursuant to RCW Chap. 42.17.*

[illegible]

Sample ID	Pres. Used (ID)	Oxidized (Y/N)?	Pres. Vol. (mL)/Percent (%)	Comments
350-416-A-1	A	Y	10	2
350-416-A-2	A	Y	10	2
350-416-A-3	A	Y	10	2
350-416-A-4	A	Y	10	2
350-416-A-5	A	Y	10	2
350-416-A-6	A	Y	10	2

Login Sample Receipt Checklist

Client: City of Everett

Job Number: 350-416-1

SDG Number: 66137

Login Number: 416

List Number: 1

Creator: Miller, Darren R

List Source: Eurofins Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

06 May 2024

Chris Merwede
City of Everett
PO Box 12130
Everett, WA 98206

RE: General (66137)

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)
24D0267

Associated SDG ID(s)
N/A

**Phillip
Bates**

Digitally signed
by Phillip Bates
Date: 2024.05.06
15:24:52 -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 Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Phillip Bates, Project Manager

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.





CITY OF EVERETT
ENVIRONMENTAL LABORATORY
h: 425.257.8230 Fax 425.257.8228

Sample Dropoff: 4027 4th St SE, Everett WA 98201
Mailing Address: 3200 Cedar ST, Everett WA 98201
Date: 4/10/2024

PROJECT #

66137

(Lab Use Only)

[illegible]

COMMENTS:					FEN	SCE	PI	WSS
					1	730	745	800 X
					2	1000	1015	1030 X
					3	1445	1500	1510 1420
					4	750	730	740 X

**Because the City of Everett Environmental Laboratory is a public agency, data, test results, reports and other documents are public records and therefore subject to disclosure to third parties upon their request pursuant to RCW Chap. 42.17.*



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BQ52046	24D0267-01	Water	09-Apr-2024 07:30	10-Apr-2024 11:52
BQ52047	24D0267-02	Water	09-Apr-2024 07:30	10-Apr-2024 11:52
BQ52048	24D0267-03	Water	09-Apr-2024 07:30	10-Apr-2024 11:52
BQ52049	24D0267-04	Solid	09-Apr-2024 14:20	10-Apr-2024 11:52



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

Work Order Case Narrative

Client: City of Everett
Project: General
Project Number: 66137
Work Order: 24D0267

Sample receipt

The sample(s) as listed on the preceding page were received 10-Apr-2024 11:52 under ARI work order 24D0267. 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

24D0267

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: City of Everett

Project Manager: Kelly Bottem

Project: General

Project Number: 66137

Preservation Confirmation

Container ID	Container Type	pH
24D0267-01 A	HDPE NM, 500 mL, NaOH	> 12 pass
24D0267-01 B	Glass NM, Amber, 500 mL	> 2 lab to preserve
24D0267-01 C	Glass NM, Amber, 250 mL	> 2 lab to preserve
24D0267-01 D	Glass WM, Clear, 8 oz, 9N H2SO4	< 2 pass
24D0267-01 E	Glass WM, Clear, 8 oz, 9N H2SO4	< 2 pass
24D0267-01 F	Glass WM, Clear, 8 oz, 9N H2SO4	< 2 pass
24D0267-01 G	Glass WM, Clear, 8 oz, 9N H2SO4	< 2 pass
24D0267-02 A	HDPE NM, 500 mL, NaOH	> 12 pass
24D0267-02 B	Glass NM, Amber, 500 mL	> 2 lab to preserve
24D0267-02 C	Glass NM, Amber, 250 mL	> 2 lab to preserve
24D0267-02 D	Glass WM, Clear, 8 oz, 9N H2SO4	< 2 pass
24D0267-02 E	Glass WM, Clear, 8 oz, 9N H2SO4	< 2 pass
24D0267-02 F	Glass WM, Clear, 8 oz, 9N H2SO4	< 2 pass
24D0267-02 G	Glass WM, Clear, 8 oz, 9N H2SO4	< 2 pass
24D0267-03 A	HDPE NM, 500 mL, NaOH	> 12 pass
24D0267-03 B	Glass NM, Amber, 500 mL	> 2 lab to preserve
24D0267-03 C	Glass WM, Clear, 8 oz, 9N H2SO4	< 2 pass
24D0267-03 D	Glass WM, Clear, 8 oz, 9N H2SO4	< 2 pass
24D0267-03 E	Glass WM, Clear, 8 oz, 9N H2SO4	< 2 pass
24D0267-03 F	Glass WM, Clear, 8 oz, 9N H2SO4	< 2 pass
24D0267-04 A	HDPE NM, 500 mL, NaOH	> 12 pass
24D0267-04 B	Glass NM, Amber, 500 mL	> 2 lab to preserve
24D0267-04 C	HDPE NM, 125 mL	> 2

Preservation Confirmed By

Date



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: City of Everett

Project Name: TPT

COC No(s): 2400267 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA

Assigned ARI Job No: 2400267

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler?

YES NO

Were custody papers included with the cooler?

YES NO

Were custody papers properly filled out (ink, signed, etc.)

YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1152

3.6

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 9702

Cooler Accepted by: [Signature]

Date: 4/10/24

Time: 1152

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?

YES NO

What kind of packing material was used? ...

Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:

Was sufficient ice used (if appropriate)?

NA 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 by ARI? NA

YES

Date/Time:

Equipment:

Split by:

Samples Logged by: VO

Date: 04/11/2024

Time: 09:31

Labels checked by:

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By:

Date:



WORK ORDER

24D0267

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: City of Everett

Project Manager: Kelly Bottem

Project: General

Project Number: 66137

Preservation Confirmation

Container ID	Container Type	pH
24D0267-01 A	HDPE NM, 500 mL, NaOH	> 12 pass
24D0267-01 B	Glass NM, Amber, 500 mL	> 2 lab to preserve ①
24D0267-01 C	Glass NM, Amber, 250 mL	> 2 lab to preserve ②
24D0267-01 D	Glass WM, Clear, 8 oz, 9N H ₂ SO ₄	< 2 pass
24D0267-01 E	Glass WM, Clear, 8 oz, 9N H ₂ SO ₄	< 2 pass
24D0267-01 F	Glass WM, Clear, 8 oz, 9N H ₂ SO ₄	< 2 pass
24D0267-01 G	Glass WM, Clear, 8 oz, 9N H ₂ SO ₄	< 2 pass
24D0267-02 A	HDPE NM, 500 mL, NaOH	> 12 pass
24D0267-02 B	Glass NM, Amber, 500 mL	> 2 lab to preserve ①
24D0267-02 C	Glass NM, Amber, 250 mL	> 2 lab to preserve ②
24D0267-02 D	Glass WM, Clear, 8 oz, 9N H ₂ SO ₄	< 2 pass
24D0267-02 E	Glass WM, Clear, 8 oz, 9N H ₂ SO ₄	< 2 pass
24D0267-02 F	Glass WM, Clear, 8 oz, 9N H ₂ SO ₄	< 2 pass
24D0267-02 G	Glass WM, Clear, 8 oz, 9N H ₂ SO ₄	< 2 pass
24D0267-03 A	HDPE NM, 500 mL, NaOH	> 12 pass
24D0267-03 B	Glass NM, Amber, 500 mL	> 2 lab to preserve ①
24D0267-03 C	Glass WM, Clear, 8 oz, 9N H ₂ SO ₄	< 2 pass
24D0267-03 D	Glass WM, Clear, 8 oz, 9N H ₂ SO ₄	< 2 pass
24D0267-03 E	Glass WM, Clear, 8 oz, 9N H ₂ SO ₄	< 2 pass
24D0267-03 F	Glass WM, Clear, 8 oz, 9N H ₂ SO ₄	< 2 pass
24D0267-04 A	HDPE NM, 500 mL, NaOH	> 12 pass
24D0267-04 B	Glass NM, Amber, 500 mL	> 2 lab to preserve ①
24D0267-04 C	HDPE NM, 125 mL	> 2

NO 04/11/2024

04/11/2024

Preservation Confirmed By

Date

① added 2ml 9N H₂SO₄ to pH < 2

② " 10 drops " " " " "

SMD 4/11/24



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

BQ52046
24D0267-01 (Water)

Wet Chemistry

Method: EPA 1664B

Sampled: 04/09/2024 07:30

Instrument: Bal2 Analyst: UW

Analyzed: 04/16/2024 12:15

Sample Preparation:

Preparation Method: EPA 3535A SPE (Solid Phase Extraction)

Extract ID: 24D0267-01

Preparation Batch: BMD0411

Sample Size: 960 mL

Prepared: 04/16/2024

Final Volume: 1000 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
HEM Oil & Grease		1	5	ND	mg/L	U
SGT-HEM NP Oil & Grease		1	5	ND	mg/L	U
HEM Polar Oil & Grease		1	5	ND	mg/L	U



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

BQ52046
24D0267-01 (Water)

Wet Chemistry

Method: EPA 420.1

Sampled: 04/09/2024 07:30

Instrument: UV1800-2 Analyst: RMS

Analyzed: 04/19/2024 09:47

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0267-01 B

Preparation Batch: BMD0476

Sample Size: 30 mL

Prepared: 04/18/2024

Final Volume: 31 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Phenolics		1	0.04	0.04	ND	mg/L	U



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

BQ52046
24D0267-01 (Water)

Wet Chemistry

Method: EPA 9014

Sampled: 04/09/2024 07:30

Instrument: UV1800-2 Analyst: RMS

Analyzed: 04/26/2024 10:06

Sample Preparation:

Preparation Method: EPA 9010C m

Extract ID: 24D0267-01 A

Preparation Batch: BMD0598

Sample Size: 50 mL

Prepared: 04/23/2024

Final Volume: 50 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Cyanide, Total	57-12-5	1	0.0050	0.0050	ND	mg/L	U



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

BQ52046
24D0267-01 (Water)

Wet Chemistry

Method: SM 5310 B-11

Sampled: 04/09/2024 07:30

Instrument: TOC-LCSH Analyst: RMS

Analyzed: 05/02/2024 22:12

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0267-01 B

Preparation Batch: BME0091

Sample Size: 20 mL

Prepared: 05/02/2024

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.50	0.50	31.81	mg/L	



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

BQ52047
24D0267-02 (Water)

Wet Chemistry

Method: EPA 1664B

Sampled: 04/09/2024 07:30

Instrument: Bal2 Analyst: UW

Analyzed: 04/16/2024 12:15

Sample Preparation:

Preparation Method: EPA 3535A SPE (Solid Phase Extraction)

Extract ID: 24D0267-02

Preparation Batch: BMD0411

Sample Size: 1015 mL

Prepared: 04/16/2024

Final Volume: 1000 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
HEM Oil & Grease		1	5	ND	mg/L	U
SGT-HEM NP Oil & Grease		1	5	ND	mg/L	U
HEM Polar Oil & Grease		1	5	ND	mg/L	U



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

BQ52047
24D0267-02 (Water)

Wet Chemistry

Method: EPA 420.1

Sampled: 04/09/2024 07:30

Instrument: UV1800-2 Analyst: RMS

Analyzed: 04/19/2024 09:48

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0267-02 B

Preparation Batch: BMD0476

Sample Size: 30 mL

Prepared: 04/18/2024

Final Volume: 31 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Phenolics		1	0.04	0.04	ND	mg/L	U



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

BQ52047
24D0267-02 (Water)

Wet Chemistry

Method: EPA 9014

Sampled: 04/09/2024 07:30

Instrument: UV1800-2 Analyst: RMS

Analyzed: 04/26/2024 10:07

Sample Preparation:

Preparation Method: EPA 9010C m

Extract ID: 24D0267-02 A

Preparation Batch: BMD0598

Sample Size: 50 mL

Prepared: 04/23/2024

Final Volume: 50 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Cyanide, Total	57-12-5	1	0.0050	0.0050	ND	mg/L	U



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

BQ52047
24D0267-02 (Water)

Wet Chemistry

Method: SM 5310 B-11

Sampled: 04/09/2024 07:30

Instrument: TOC-LCSH Analyst: RMS

Analyzed: 05/02/2024 22:31

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0267-02 B

Preparation Batch: BME0091

Sample Size: 20 mL

Prepared: 05/02/2024

Final Volume: 20 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Organic Carbon		1	0.50	0.50	13.34	mg/L	



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

BQ52048
24D0267-03 (Water)

Wet Chemistry

Method: EPA 1664B

Sampled: 04/09/2024 07:30

Instrument: Bal2 Analyst: UW

Analyzed: 04/16/2024 12:15

Sample Preparation:

Preparation Method: EPA 3535A SPE (Solid Phase Extraction)

Extract ID: 24D0267-03

Preparation Batch: BMD0411

Sample Size: 1035 mL

Prepared: 04/16/2024

Final Volume: 1000 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
HEM Oil & Grease		1	5	14	mg/L	
SGT-HEM NP Oil & Grease		1	5	ND	mg/L	U
HEM Polar Oil & Grease		1	5	13	mg/L	



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

BQ52048
24D0267-03 (Water)

Wet Chemistry

Method: EPA 420.1

Sampled: 04/09/2024 07:30

Instrument: UV1800-2 Analyst: RMS

Analyzed: 04/19/2024 09:48

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0267-03 B

Preparation Batch: BMD0476

Sample Size: 30 mL

Prepared: 04/18/2024

Final Volume: 31 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Phenolics		1	0.04	0.04	ND	mg/L	U



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

BQ52048
24D0267-03 (Water)

Wet Chemistry

Method: EPA 9014

Sampled: 04/09/2024 07:30

Instrument: UV1800-2 Analyst: RMS

Analyzed: 04/26/2024 10:07

Sample Preparation:

Preparation Method: EPA 9010C m

Extract ID: 24D0267-03 A

Preparation Batch: BMD0598

Sample Size: 50 mL

Prepared: 04/23/2024

Final Volume: 50 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Cyanide, Total	57-12-5	1	0.0050	0.0050	ND	mg/L	U



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

BQ52049
24D0267-04 (Solid)

Wet Chemistry

Method: EPA 420.1

Sampled: 04/09/2024 14:20

Instrument: UV1800-2 Analyst: RMS

Analyzed: 05/03/2024 16:51

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0267-04 B

Preparation Batch: BME0105

Sample Size: 5.1168 g (wet)

Dry Weight: 0.03 g

Prepared: 05/03/2024

Final Volume: 155 g

% Solids: 0.67

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Phenolics		1	181	181	ND	mg/kg	U



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

BQ52049
24D0267-04 (Solid)

Wet Chemistry

Method: EPA 9014

Sampled: 04/09/2024 14:20

Instrument: UV1800-2 Analyst: RMS

Analyzed: 04/26/2024 10:11

Sample Preparation:

Preparation Method: EPA 9010C m

Extract ID: 24D0267-04 A

Preparation Batch: BMD0600

Sample Size: 5.894 g (wet)

Dry Weight: 0.04 g

Prepared: 04/23/2024

Final Volume: 50 mL

% Solids: 0.67

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Cyanide, Total after Distillation	57-12-5	1	6.29	6.29	ND	mg/kg	U



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

BQ52049
24D0267-04 (Solid)

Wet Chemistry

Method: SM 2540 G-11

Sampled: 04/09/2024 14:20

Instrument: BAL2 Analyst: LERB

Analyzed: 04/17/2024 12:02

Sample Preparation:

Preparation Method: No Prep Wet Chem

Extract ID: 24D0267-04

Preparation Batch: BMD0456

Sample Size: 5 g (wet)

Dry Weight: 0.03 g

Prepared: 04/17/2024

Final Volume: 5 g

% Solids: 0.67

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Total Solids		1	0.04	0.04	0.67	%	



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BMD0411 - EPA 1664B

Instrument: Bal2 Analyst: UW

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BMD0411-BLK1) Prepared: 16-Apr-2024 Analyzed: 16-Apr-2024 12:15										
HEM Oil & Grease	ND	5	mg/L							U
SGT-HEM NP Oil & Grease	ND	5	mg/L							U
HEM Polar Oil & Grease	ND	5	mg/L							U
LCS (BMD0411-BS1) Prepared: 16-Apr-2024 Analyzed: 16-Apr-2024 12:15										
HEM Oil & Grease	35	5	mg/L	40.28		87.9	78-114			
SGT-HEM NP Oil & Grease	15	5	mg/L	20.14		72.5	64-132			
HEM Polar Oil & Grease	21	5	mg/L	20.14		103	0-200			



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

Instrument: BAL2 Analyst: LERB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BMD0456-BLK1)					Prepared: 17-Apr-2024 Analyzed: 17-Apr-2024 12:02						
Total Solids	ND	0.04	0.04	%							U



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BMD0476 - EPA 420.1

Instrument: UV1800-2 Analyst: RMS

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BMD0476-BLK1)					Prepared: 18-Apr-2024 Analyzed: 19-Apr-2024 09:43						
Total Phenolics	ND	0.04	0.04	mg/L							U
LCS (BMD0476-BS1)					Prepared: 18-Apr-2024 Analyzed: 19-Apr-2024 09:44						
Total Phenolics	0.50	0.04	0.04	mg/L	0.500		100	90-110			



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BMD0598 - EPA 9014

Instrument: UV1800-2 Analyst: RMS

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BMD0598-BLK1)					Prepared: 23-Apr-2024 Analyzed: 26-Apr-2024 10:04						
Cyanide, Total	ND	0.0050	0.0050	mg/L							U
LCS (BMD0598-BS1)					Prepared: 23-Apr-2024 Analyzed: 26-Apr-2024 10:05						
Cyanide, Total	0.141	0.0050	0.0050	mg/L	0.150		94.0	75-125			
Duplicate (BMD0598-DUP1)					Source: 24D0267-01 Prepared: 23-Apr-2024 Analyzed: 26-Apr-2024 10:06						
Cyanide, Total	ND	0.0050	0.0050	mg/L		ND					U
Matrix Spike (BMD0598-MS1)					Source: 24D0267-01 Prepared: 23-Apr-2024 Analyzed: 26-Apr-2024 10:07						
Cyanide, Total	0.139	0.0050	0.0050	mg/L	0.150	ND	92.7	75-125			

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



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BMD0600 - EPA 9014

Instrument: UV1800-2 Analyst: RMS

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BMD0600-BLK1)						Prepared: 23-Apr-2024 Analyzed: 26-Apr-2024 10:10					
Cyanide, Total after Distillation	ND	0.005	0.005	mg/kg							U
LCS (BMD0600-BS1)						Prepared: 23-Apr-2024 Analyzed: 26-Apr-2024 10:10					
Cyanide, Total after Distillation	0.149	0.005	0.005	mg/kg	0.150		99.4	75-125			
Duplicate (BMD0600-DUP1)						Source: 24D0267-04 Prepared: 23-Apr-2024 Analyzed: 26-Apr-2024 10:11					
Cyanide, Total after Distillation	ND	7.17	7.17	mg/kg		ND					U
Matrix Spike (BMD0600-MS1)						Source: 24D0267-04 Prepared: 23-Apr-2024 Analyzed: 26-Apr-2024 10:12					
Cyanide, Total after Distillation	197	6.82	6.82	mg/kg	207	ND	95.4	75-125			

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



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BME0091 - SM 5310 B-11

Instrument: TOC-LCSH Analyst: RMS

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BME0091-BLK1) Prepared: 02-May-2024 Analyzed: 02-May-2024 19:06											
Total Organic Carbon	ND	0.50	0.50	mg/L							U
LCS (BME0091-BS1) Prepared: 02-May-2024 Analyzed: 02-May-2024 19:24											
Total Organic Carbon	20.99	0.50	0.50	mg/L	20.00		105	90-110			



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

Analysis by: Analytical Resources, LLC

Wet Chemistry - Quality Control

Batch BME0105 - EPA 420.1

Instrument: UV1800-2 Analyst: RMS

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BME0105-BLK1)					Prepared: 03-May-2024 Analyzed: 03-May-2024 16:50						
Total Phenolics	ND	0.40	0.40	mg/kg							U
LCS (BME0105-BS1)					Prepared: 03-May-2024 Analyzed: 03-May-2024 16:51						
Total Phenolics	5.05	0.40	0.40	mg/kg	5.00		101	90-110			
Duplicate (BME0105-DUP1)					Source: 24D0267-04 Prepared: 03-May-2024 Analyzed: 03-May-2024 16:52						
Total Phenolics	ND	160	160	mg/kg		ND					U
Matrix Spike (BME0105-MS1)					Source: 24D0267-04 Prepared: 03-May-2024 Analyzed: 03-May-2024 16:54						
Total Phenolics	1640	175	175	mg/kg	1410	ND	116	75-125			

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



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

Certified Analyses included in this Report

Analyte	Certifications
EPA 1664B in Water	
HEM Oil & Grease	WADOE,NELAP
SGT-HEM NP Oil & Grease	WADOE,NELAP
HEM Polar Oil & Grease	WADOE,NELAP
EPA 420.1 in Solid	
Total Phenolics	DoD-ELAP,NELAP
EPA 420.1 in Water	
Total Phenolics	WADOE,NELAP,DoD-ELAP
EPA 9014 in Solid	
Cyanide, Total after Distillation	DoD-ELAP,NELAP,WADOE
EPA 9014 in Water	
Cyanide, Total	DoD-ELAP,NELAP,WADOE
SM 5310 B-11 in Water	
Total Organic Carbon	WA-DW,WADOE,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2024
WADOE	WA Dept of Ecology	C558	06/30/2024
WA-DW	Ecology - Drinking Water	C558	06/30/2024



City of Everett
PO Box 12130
Everett WA, 98206

Project: General
Project Number: 66137
Project Manager: Chris Merwede

Reported:
06-May-2024 15:20

Notes and Definitions

U	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.