CLIENT: Menehune Water
99-117 Waiua Place
Aiea, HI 96701

DATE OF REPORT: Quarter 3, 2024
REPORT #: 480-043
LABORATORY ID#: 20287

NOTE:
"*" indicates that maximum levels have been exceeded, or in the case of pH, is either too high or too low
"ND" indicates that none of this analyte has been detected at or above the specified detection level
"MCL" indicates maximum contaminant level as established by US FDA for bottled water
"RL" indicates laboratory reporting limit for method
Units results are reported in mg/L unless otherwise noted

ANALYSIS PERFORMED	MCL[i] (mg/L)	RL (mg/L)	PURIFIED FINISHED PRODUCT (Produced from: Municipal Source, 5 Gallon) 480-043 (mg/L)
Primary Inorganics			
Antimony	0.006	0.001	ND
Arsenic	0.01	0.001	ND
Asbestos	7 MFL	0.20	ND
Barium	2	0.001	ND
Beryllium	0.004	0.001	ND
Cadmium	0.005	0.001	ND
Chromium	0.1	0.001	ND
Cyanide	0.2	0.005	ND
Fluoride	See endnote[2]	0.10	ND
Lead	0.005	0.001	ND
Mercury	0.002	0.0002	ND
Nickel	0.1	0.001	ND
Nitrate-N	10	0.50	ND
Nitrite-N	1.0	0.50	ND
Total Nitrate & Nitrite-N	10	0.50	ND
Selenium	0.05	0.005	ND
Thallium	0.002	0.001	ND
Secondary Inorganics			
Alkalinity	--	1	1.4
Aluminum	0.2	0.010	ND
Boron	--	0.050	ND
Bromide	--	0.005	ND
Calcium	--	0.5	ND
Chloride	250[3]	0.1	0.6
Copper	1	0.005	ND
Corrosivity	--	--	-6.70
Electrical Conductivity	-- umho/cm	10	ND
Foaming Agents (MBAS)	--	0.1	ND
Hardness, Total	--	10	ND
Iron	0.3[3]	0.050	ND
Magnesium	--	0.5	ND
Manganese	0.05[3]	0.001	ND
pH	See endnote[4]	0.1	7.25
Phenol	0.001	0.001	ND
Potassium	--	1.0	ND
Silver	0.1	0.001	ND
Sodium	--	0.5	1.1
Sulfate	250	10	ND
TDS	500[3,5]	10	ND
Zinc	5[3]	0.005	ND

ANALYSIS PERFORMED	MCL (mg/L)	RL (mg/L)	PURIFIED FINISHED PRODUCT (Produced from: Municipal Source, 5 Gallon) 480-043 (mg/L)
Physical			
Color	15[3] CU	5	ND
Odor	3[3] TON	1	ND
Turbidity	5 NTU	0.10	ND
Microbiological			
Total Coliform	Absence	1	ND
Heterotrophic Plate Count	-- cfu/mL	2	2.0
Radiologicals			
Gross Alpha	15 pCi/L	1.95	ND
Gross Beta	50 pCi/L[5]	1.61	ND
Radium 226/228	5 pCi/L	0.785/0.695	ND / ND
Uranium	0.030	0.001	ND
Radon	-- pCi/L	78.6	ND
Volatile Organic Compounds EPA 524.2:			
Total Trihalomethanes	0.080	0.0005	ND
Benzene	0.005	0.0005	ND
Bromobenzene	--	0.0005	ND
Bromochloromethane	--	0.0005	ND
Bromodichloromethane	--	0.0005	ND
Bromoform	--	0.0005	ND
Bromomethane	--	0.0005	ND
n-Butylbenzene	--	0.0005	ND
sec-Butylbenzene	--	0.0005	ND
tert-Butylbenzene	--	0.0005	ND
Carbon Tetrachloride	0.005	0.0005	ND
Chloroethane	--	0.0005	ND
Chloroform	--	0.0005	ND
Chloromethane	--	0.0005	ND
o-Chlorotoluene	--	0.0005	ND
p-Chlorotoluene	--	0.0005	ND
Chlorodibromomethane	--	0.0005	ND
Dibromomethane	--	0.0005	ND
o-Dichlorobenzene	0.6	0.0005	ND
m-Dichlorobenzene	--	0.0005	ND
p-Dichlorobenzene	0.075	0.0005	ND
Dichlorodifluoromethane	--	0.0005	ND
1,1-Dichloroethane	--	0.0005	ND
1,2-Dichloroethane	0.005	0.0005	ND
1,1-Dichloroethylene	0.007	0.0005	ND
cis-1,2-Dichloroethylene	0.07	0.0005	ND
trans-1,2-Dichloroethylene	0.1	0.0005	ND
1,2-Dichloropropane	0.005	0.0005	ND
1,3-Dichloropropane	--	0.0005	ND
1,3-Dichloropropylene, Total	--	0.0005	ND
2,2-Dichloropropane	--	0.0005	ND
1,1-Dichloropropene	--	0.0005	ND
cis-1,3-Dichloropropene	--	0.0005	ND
trans-1,3-Dichloropropene	--	0.0005	ND
Ethylbenzene	0.7	0.0005	ND

ANALYSIS PERFORMED	MCL (mg/L)	RL (mg/L)	PURIFIED FINISHED PRODUCT (Produced from: Municipal Source, 5 Gallon) 480-043 (mg/L)
EPA 524.2 continued:			
Hexachlorobutadiene	--	0.0005	ND
Isopropylbenzene	--	0.0005	ND
p-Isopropyltoluene	--	0.0005	ND
Methyl tert-Butyl Ether (MTBE)	--	0.0005	ND
Methylene Chloride (Dichloromethane)	0.005	0.0005	ND
Monochlorobenzene	0.1	0.0005	ND
Naphthalene	--	0.0005	ND
n-Propylbenzene	--	0.0005	ND
Styrene	0.1	0.0005	ND
1,1,1,2-Tetrachloroethane	--	0.0005	ND
1,1,2,2-Tetrachloroethane	--	0.0005	ND
Tetrachloroethylene	0.005	0.0005	ND
Toluene	1	0.0005	ND
1,2,3-Trichlorobenzene	--	0.0005	ND
1,2,4-Trichlorobenzene	0.07	0.0005	ND
1,1,1-Trichloroethane	0.2	0.0005	ND
1,1,2-Trichloroethane	0.005	0.0005	ND
Trichloroethylene	0.005	0.0005	ND
Trichlorofluoromethane	--	0.0005	ND
1,2,3-Trichloropropane	--	0.0005	ND
1,2,4-Trimethylbenzene	--	0.0005	ND
1,3,5-Trimethylbenzene	--	0.0005	ND
Vinyl Chloride	0.002	0.0005	ND
m+p-Xylenes	--	0.0005	ND
ortho-Xylene	--	0.0005	ND
Total Xylene	10	0.0005	ND
Add'l Organics			
EPA 504.1:			
1,2-Dibromoethane	0.00005	0.00002	ND
1,2 Dibromo-3-chloropropane	0.0002	0.00002	ND
1,2,3-Trichloropropane	0.00003	0.00002	ND
EPA 508.1:			
Chlordane (alpha and gamma)	0.002	0.0002	ND
Total PCBs	0.0005	0.0005	ND
Toxaphene	0.003	0.001	ND

ANALYSIS PERFORMED	MCL (mg/L)	RL (mg/L)	PURIFIED FINISHED PRODUCT (Produced from: Municipal Source, 5 Gallon) 480-043 (mg/L)
EPA 515.4:			
2,4-D	0.07	0.0001	ND
Dalapon	0.2	0.001	ND
Dicamba	--	0.0002	ND
Dinoseb	0.007	0.0002	ND
Pentachlorophenol	0.001	0.00004	ND
Picloram	0.5	0.0001	ND
2,4,5-TP (Silvex)	0.05	0.0002	ND
EPA 525.2:			
Alachlor	0.002	0.0002	ND
Aldrin	--	0.0001	ND
Atrazine	0.003	0.0001	ND
Benzo(a)Pyrene	0.0002	0.00002	ND
Butachlor	--	0.0001	ND
Di(2-ethylhexyl)Adipate	0.4	0.0006	ND
Di(2-ethylhexyl)Phthalate	0.006	0.0006	ND
Dieldrin	--	0.0001	ND
Endrin	0.002	0.00001	ND
Heptachlor	0.0004	0.00004	ND
Heptachlor Epoxide	0.0002	0.00002	ND
Hexachlorobenzene	0.001	0.0001	ND
Hexachlorocyclopentadiene	0.05	0.0001	ND
Lindane	0.0002	0.00002	ND
Methoxychlor	0.04	0.0001	ND
Metolachlor	--	0.0001	ND
Metribuzin	--	0.0001	ND
Propachlor	--	0.0001	ND
Simazine	0.004	0.00007	ND
EPA 531.2:			
Aldicarb (TEMIK)	--	0.001	ND
Aldicarb sulfone	--	0.0016	ND
Aldicarb sulfoxide	--	0.001	ND
Carbaryl	--	0.001	ND
Carbofuran (FURADAN)	0.04	0.0009	ND
3-Hydroxycarbofuran	--	0.001	ND
Methomyl	--	0.001	ND
Oxamyl (VYDATE)	0.2	0.002	ND
EPA 547:			
Glyphosate	0.7	0.006	ND
EPA 548.1:			
Endothall	0.1	0.009	ND
EPA 549.2:			
Diquat	0.02	0.0004	ND

ANALYSIS PERFORMED	MCL (mg/L)	RL (mg/L)	PURIFIED FINISHED PRODUCT (Produced from: Municipal Source, 5 Gallon) 480-043 (mg/L)
EPA 1613:			
2,3,7,8-TCDD (DIOXIN)	3x10-8	5x10-9	ND
Disinfection Byproducts			
EPA 300.1:			
Bromate	0.010	0.001	0.0030
EPA 300.1B:			
Chlorite	1.0	0.010	ND
EPA 552.3:			
Dibromoacetic acid	--	0.001	ND
Dichloroacetic acid	--	0.001	ND
Monobromoacetic acid	--	0.001	ND
Monochloroacetic acid	--	0.002	ND
Trichloroacetic acid	--	0.001	ND
Haloacetic Acids, Total	0.060	0.002	ND
EPA 524.2:			
Total Trihalomethanes	0.080	0.0005	ND
Bromodichloromethane	--	0.0005	ND
Bromoform	--	0.0005	ND
Chloroform	--	0.0005	ND
Chlorodibromomethane	--	0.0005	ND
Residual Disinfectants			
SM4500-CL G:			
Residual Chlorine, Total	4.0	0.05	ND
Chloramines	4.0	0.05	ND
SM4500-ClO2-D:			
Chlorine Dioxide	0.8	0.1	ND
Miscellaneous			
EPA 331.0:			
Perchlorate	--	0.00005	ND

EPA approved methods were used in all of the analyses and a listing is available upon request. These test results may be used for compliance purposes as required.

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[i] The EPA, some State agencies and/or the IBWA may have established alternate MCLs for some of these analytes. Please refer to Federal, State and Industry codes.
[2] Fluoride MCL is determined by annual average of maximum daily air temperatures where the bottled water is sold. Refer to tables found in 21 CFR 165. The MCL for bottled water to which Fluoride has been added is 0.7 mg/L.
[3] Mineral water is exempt from allowable levels per 21 CFR 165.110(b)(3) and (4). The exemptions are aesthetically based allowable levels and do not relate to a health concern.
[4] MCL established by US FDA for waters that meet the US FDA definition of "Purified" is 5-7 pH Units per the USP XXIII Standards, as referenced in 21 CFR 165.
[5] The bottled water shall not contain beta particle and photon radioactivity from man-made radionuclides in excess of that which would produce an annual dose equivalent to the total body or any internal organ of 4 millirems per year calculated on the basis of an intake of 2 liters of the water per day (= 50 pCi/L).

Burlington, WA *Corporate Laboratory (a)*
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20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

October 24, 2024

Menehune Water
99-117 Waiua Place
Aiea, HI 96701

RE: 24-10720 - 480-043 - 50 State Source

Dear Project Manager,

Your project: 480-043 - 50 State Source, was received on Tuesday September 10, 2024.

All samples were analyzed within the accepted holding times and were appropriately preserved and analyzed according to approved analytical protocols, unless noted in the data or QC reports. The quality control data was within laboratory acceptance limits, unless specified in the data or QC reports.

If you have questions phone us at 800 755-9295.

Respectfully

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Enclosures: Data Report

ANALYTICAL

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BOTTLED WATER STANDARD OF QUALITY REPORT

Client Name: Menehune Water
99-117 Waiua Place
Aiea, HI 96701

Reference Number: **24-10720**
Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Project: 480-043 - 50 State Source
Field ID: 480-043
Sample Description: Purified Finished Product
Sampled By:
Sample Date: 09/09/2024

Lab Number: 20287
Report Date: 10/24/2024
Sampled Comment:
Approved By: anp,bj,dcs,ljh,mcs,nml,pdm

Inorganic Chemicals (IOCs)

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
57-12-5	CYANIDE	**ND**	0.2	0.005	mg/L	OIA-1677-DW	a	
7440-36-0	ANTIMONY	**ND**	0.006	0.001	mg/L	200.8	a	
7440-38-2	ARSENIC	**ND**	0.010	0.001	mg/L	200.8	a	
7440-39-3	BARIUM	**ND**	1.0	0.001	mg/L	200.8	a	
7440-41-7	BERYLLIUM	**ND**	0.004	0.001	mg/L	200.8	a	
7440-43-9	CADMIUM	**ND**	0.005	0.001	mg/L	200.8	a	
7440-47-3	CHROMIUM	**ND**	0.05	0.001	mg/L	200.8	a	
16984-48-8	FLUORIDE	**ND**	2	0.10	mg/L	300.0	a	
7439-92-1	LEAD	**ND**	0.005	0.001	mg/L	200.8	a	
7439-97-6	MERCURY	**ND**	0.001	0.0002	mg/L	200.8	a	
7440-02-0	NICKEL	**ND**	0.1	0.001	mg/L	200.8	a	
14797-55-8	NITRATE-N	**ND**	10	0.5	mg/L	300.0	a	
14797-65-0	NITRITE-N	**ND**	1.0	0.5	mg/L	300.0	a	
E-10128	TOTAL NITRATE+NITRITE as N	**ND**	10	0.5	mg/L	300.0	a	
7782-49-2	SELENIUM	**ND**	0.010	0.005	mg/L	200.8	a	
7440-28-0	THALLIUM	**ND**	0.002	0.001	mg/L	200.8	a	

Notation:

A Result of "ND" indicates that the compound was not detected above the Lab's Reporting Limit - MRL.
SOQ - Standard of Quality, maximum permissible level of a contaminant in water established by CBWA, IBWA or US FDA.
MRL - Method Reporting Limit .

If you have any questions concerning this report contact us at the above phone number.
FORM: cFDA.rpt

BOTTLED WATER STANDARD OF QUALITY REPORT

Secondary Inorganic Parameters

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
7429-90-5	ALUMINUM	**ND**	0.2	0.010	mg/L	200.7	a	
16887-00-6	CHLORIDE	**0.6**	250	0.1	mg/L	300.0	a	
7440-50-8	COPPER	**ND**	1.0	0.005	mg/L	200.8	a	
7439-89-6	IRON	**ND**	0.3	0.050	mg/L	200.7	a	
7439-96-5	MANGANESE	**ND**	0.05	0.001	mg/L	200.8	a	
7440-22-4	SILVER	**ND**	0.025	0.001	mg/L	200.8	a	
14808-79-8	SULFATE	**ND**	250	10	mg/L	300.0	a	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	**ND**	500	10	mg/L	SM2540 C	a	
7440-66-6	ZINC	**ND**	5.00	0.005	mg/L	200.8	a	

Notation:

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MRL - Method Reporting Limit .

BOTTLED WATER STANDARD OF QUALITY REPORT

Volatile Organic Chemicals (VOCs)

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
75-35-4	1,1 - DICHLOROETHYLENE	**ND**	2	0.5	ug/L	524.2	a	
71-55-6	1,1,1 - TRICHLOROETHANE	**ND**	30	0.5	ug/L	524.2	a	
79-00-5	1,1,2 - TRICHLOROETHANE	**ND**	5	0.5	ug/L	524.2	a	
107-06-2	1,2 - DICHLOROETHANE	**ND**	2	0.5	ug/L	524.2	a	
78-87-5	1,2 - DICHLOROPROPANE	**ND**	5	0.5	ug/L	524.2	a	
120-82-1	1,2,4 - TRICHLOROBENZENE	**ND**	9	0.5	ug/L	524.2	a	
71-43-2	BENZENE	**ND**	1	0.5	ug/L	524.2	a	
56-23-5	CARBON TETRACHLORIDE	**ND**	2	0.5	ug/L	524.2	a	
156-59-2	CIS - 1,2 - DICHLOROETHYLENE	**ND**	70	0.5	ug/L	524.2	a	
156-60-5	TRANS - 1,2 - DICHLOROETHYLENE	**ND**	100	0.5	ug/L	524.2	a	
100-41-4	ETHYLBENZENE	**ND**	700	0.5	ug/L	524.2	a	
75-09-2	DICHLOROMETHANE	**ND**	3	0.5	ug/L	524.2	a	
108-90-7	MONOCHLOROBENZENE	**ND**	50	0.5	ug/L	524.2	a	
95-50-1	O - DICHLOROBENZENE	**ND**	600	0.5	ug/L	524.2	a	
106-46-7	P - DICHLOROBENZENE	**ND**	75	0.5	ug/L	524.2	a	
100-42-5	STYRENE	**ND**	100	0.5	ug/L	524.2	a	
127-18-4	TETRACHLOROETHYLENE	**ND**	1	0.5	ug/L	524.2	a	
108-88-3	TOLUENE	**ND**	1000	0.5	ug/L	524.2	a	
79-01-6	TRICHLOROETHYLENE	**ND**	1	0.5	ug/L	524.2	a	
75-01-4	VINYL CHLORIDE	**ND**	2	0.5	ug/L	524.2	a	
1330-20-7	XYLENES (TOTAL)	**ND**	1000	0.5	ug/L	524.2	a	

Notation:

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BOTTLED WATER STANDARD OF QUALITY REPORT

Synthetic Organic Chemicals (SOCs)

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
94-75-7	2,4 - D	ND	70	0.1	ug/L	515.4	a	
93-72-1	2,4,5 - TP (SILVEX)	ND	10	0.2	ug/L	515.4	a	
16655-82-6	3-HYDROXYCARBOFURAN	ND		1.0	ug/L	531.2	a	
15972-60-8	ALACHLOR	ND	2	0.2	ug/L	525.2	a	
116-06-3	ALDICARB	ND		1.0	ug/L	531.2	a	
1646-88-4	ALDICARB SULFONE	ND		1.6	ug/L	531.2	a	
1646-87-3	ALDICARB SULFOXIDE	ND		1.0	ug/L	531.2	a	
309-00-2	ALDRIN	ND		0.1	ug/L	525.2	a	
1912-24-9	ATRAZINE	ND	3	0.1	ug/L	525.2	a	
50-32-8	BENZO(A)PYRENE	ND	0.2	0.02	ug/L	525.2	a	
23184-66-9	BUTACHLOR	ND		0.1	ug/L	525.2	a	
63-25-2	CARBARYL	ND		1.0	ug/L	531.2	a	
1563-66-2	CARBOFURAN	ND	40	0.9	ug/L	531.2	a	
57-74-9	CHLORDANE	ND	0.5	0.2	ug/L	508.1	a	
75-99-0	DALAPON	ND	200	1	ug/L	515.4	a	
103-23-1	DI(2-ETHYLHEXYL)-ADIPATE	ND	400	0.6	ug/L	525.2	a	
117-81-7	DI(2-ETHYLHEXYL)-PHTHALATE	ND	6	0.6	ug/L	525.2	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	ND	0.2	0.02	ug/L	504.1	a	
1918-00-9	DICAMBA	ND		0.2	ug/L	515.4	a	
60-57-1	DIELDRIN	ND		0.1	ug/L	525.2	a	
88-85-7	DINOSEB	ND	7	0.2	ug/L	515.4	a	
1746-01-6	DIOXIN (2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN)	ND	30	5	pg/L	1613		Analyzed by PACE_MN
85-00-7	DIQUAT	ND	20	0.4	ug/L	549.2	a	
145-73-3	ENDOTHALL	ND	100	9	ug/L	548.1	a	
72-20-8	ENDRIN	ND	0.2	0.01	ug/L	525.2	a	
106-93-4	1,2 - DIBROMOETHANE (EDB)	ND	0.05	0.02	ug/L	504.1	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND	0.03	0.02	ug/L	504.1	a	
1071-83-6	GLYPHOSATE	ND	700	6	ug/L	547	a	
76-44-8	HEPTACHLOR	ND	0.4	0.04	ug/L	525.2	a	
1024-57-3	HEPTACHLOR EPOXIDE "B"	ND	0.2	0.02	ug/L	525.2	a	
118-74-1	HEXACHLOROBENZENE	ND	1	0.1	ug/L	525.2	a	
77-47-4	HEXACHLOROCYCLO-PENTADIENE	ND	50	0.1	ug/L	525.2	a	
58-89-9	LINDANE (BHC - GAMMA)	ND	0.2	0.02	ug/L	525.2	a	
16752-77-5	METHOMYL	ND		1.0	ug/L	531.2	a	
72-43-5	METHOXYCHLOR	ND	40	0.1	ug/L	525.2	a	
51218-45-2	METOLACHLOR	ND		0.1	ug/L	525.2	a	
21087-64-9	METRIBUZIN	ND		0.1	ug/L	525.2	a	
23135-22-0	OXAMYL (VYDATE)	ND	200	2	ug/L	531.2	a	
87-86-5	PENTACHLOROPHENOL	ND	1	0.04	ug/L	515.4	a	
1918-02-1	PICLORAM	ND	500	0.1	ug/L	515.4	a	
1336-36-3	POLYCHLORINATED BIPHENYLS (PCBs)	ND	0.5	0.5	ug/L	508.1	a	
1918-16-7	PROPACHLOR	ND		0.1	ug/L	525.2	a	
122-34-9	SIMAZINE	ND	4	0.07	ug/L	525.2	a	
8001-35-2	TOXAPHENE	ND	3	1	ug/L	508.1	a	
E-10253	TOTAL PHENOLIC COMPOUNDS	ND	1	1	ug/L	420.4		Analyzed by Eurofins Pom CA

Notation:

A Result of "ND" indicates that the compound was not detected above the Lab's Reporting Limit - MRL.
SOQ - Standard of Quality, maximum permissible level of a contaminant in water established by CBWA, IBWA or US FDA.
MRL - Method Reporting Limit .

BOTTLED WATER STANDARD OF QUALITY REPORT

Water Properties

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
1332-21-4	ASBESTOS	**ND**	7	0.20	MFL>10um	100.2		Analyzed by EMSL
E-10139	HYDROGEN ION (pH)	**7.25**			pH Units	150.1	a	Temp (C) : 22.8
NA	TASTE	**ND**		1	FTN	SM2160 B	a	
NA	MBAS (Surfactants)	**ND**		0.10	mg/L	SM5540 C		Analyzed By Eurofins Pom CA
E-11712	COLOR	**ND**	15	5	COLOR UNIT	SM2120 B	a	pH:6
E-11734	ODOR	**ND**	3	1	TON	SM2150	a	Temperature: 41.3 C
E-10617	TURBIDITY	**ND**	1	0.10	NTU	180.1	a	

Notation:

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MRL - Method Reporting Limit .

BOTTLED WATER STANDARD OF QUALITY REPORT

Disinfectants/DBP

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
15541-45-4	BROMATE	**0.0030**	0.010	0.001	mg/L	300.1	a	
10049-04-4	CHLORINE DIOXIDE	**ND**		0.10	mg/L	SM4500-ClO2 D	a	
7758-19-2	CHLORITE	**ND**	1.00	0.010	mg/L	300.1	a	
	CHLORAMINES TOTAL	**ND**	4.0	0.05	mg/L	SM4500-Cl G	a	
7782-50-5	FREE CHLORINE RESIDUAL	**ND**	0.1	0.05	mg/L	SM4500-Cl G	a	
NA	HAA(5)	**ND**	60	1	ug/L	552.3	a	
79-43-6	DICHLOROACETIC ACID	**ND**		1	ug/L	552.3	a	
76-03-9	TRICHLOROACETIC ACID	**ND**		1	ug/L	552.3	a	
631-64-1	DIBROMOACETIC ACID	**ND**		1	ug/L	552.3	a	
79-11-8	MONOCHLOROACETIC ACID	**ND**		2	ug/L	552.3	a	
79-08-3	MONOBROMOACETIC ACID	**ND**		1	ug/L	552.3	a	
E-14471	TOTAL TRIHALOMETHANE	**ND**	10	0.5	ug/L	524.2	a	
75-27-4	BROMODICHLOROMETHANE	**ND**		0.5	ug/L	524.2	a	
124-48-1	CHLORODIBROMOMETHANE	**ND**		0.5	ug/L	524.2	a	
67-66-3	CHLOROFORM	**ND**		0.5	ug/L	524.2	a	
75-25-2	BROMOFORM	**ND**		0.5	ug/L	524.2	a	

Notation:

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MRL - Method Reporting Limit .

BOTTLED WATER STANDARD OF QUALITY REPORT

Radiological Contaminants

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
12587-46-1	GROSS ALPHA	**ND**	15	0	pCi/L	900.0		Analyzed by PacePA
12587-47-2	GROSS BETA	**ND**	50	0	pCi/L	900.0		
13982-63-3	RADIUM 226	**ND**			pCi/L	903.1		
15262-20-1	RADIUM 228	**ND**	5		pCi/L	904.0		
7440-61-1	URANIUM	**ND**	0.030	0.001	mg/L	200.8	a	
14859-67-7	RADON	**ND**			pCi/L	SM7500-Rn B		Analyzed by Pace-PA

Notation:

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MRL - Method Reporting Limit .

BOTTLED WATER STANDARD OF QUALITY REPORT

Additional Volatile Organic Chemicals (New York)

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
542-75-6	1,3-DICHLOROPROPYLENE, TOTAL	**ND**		0.5	ug/L	524.2	a	
75-34-3	1,1 - DICHLOROETHANE	**ND**		0.5	ug/L	524.2	a	
563-58-6	1,1 - DICHLOROPROPENE	**ND**		0.5	ug/L	524.2	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	**ND**		0.5	ug/L	524.2	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	**ND**		0.5	ug/L	524.2	a	
87-61-6	1,2,3 - TRICHLOROBENZENE	**ND**		0.5	ug/L	524.2	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	**ND**	21	0.5	ug/L	524.2	a	
95-63-6	1,2,4 - TRIMETHYLBENZENE	**ND**		0.5	ug/L	524.2	a	
142-28-9	1,3 - DICHLOROPROPANE	**ND**		0.5	ug/L	524.2	a	
108-67-8	1,3,5 - TRIMETHYLBENZENE	**ND**		0.5	ug/L	524.2	a	
594-20-7	2,2 - DICHLOROPROPANE	**ND**		0.5	ug/L	524.2	a	
108-86-1	BROMOBENZENE	**ND**		0.5	ug/L	524.2	a	
74-97-5	BROMOCHLOROMETHANE	**ND**		0.5	ug/L	524.2	a	
74-83-9	BROMOMETHANE	**ND**		0.5	ug/L	524.2	a	
75-00-3	CHLOROETHANE	**ND**		0.5	ug/L	524.2	a	
74-87-3	CHLOROMETHANE	**ND**		0.5	ug/L	524.2	a	
10061-01-5	CIS - 1,3 - DICHLOROPROPENE	**ND**		0.5	ug/L	524.2	a	
74-95-3	DIBROMOMETHANE	**ND**		0.5	ug/L	524.2	a	
75-71-8	DICHLORODIFLUOROMETHANE	**ND**		0.5	ug/L	524.2	a	
87-68-3	HEXACHLOROBUTADIENE	**ND**		0.5	ug/L	524.2	a	
98-82-8	ISOPROPYLBENZENE	**ND**		0.5	ug/L	524.2	a	
541-73-1	M - DICHLOROBENZENE	**ND**		0.5	ug/L	524.2	a	
179601-23-1	M/P - XYLENE	**ND**		0.5	ug/L	524.2	a	
1634-04-4	METHYL TERT-BUTYL ETHER	**ND**		0.5	ug/L	524.2	a	
104-51-8	N - BUTYLBENZENE	**ND**		0.5	ug/L	524.2	a	
103-65-1	N - PROPYLBENZENE	**ND**		0.5	ug/L	524.2	a	
91-20-3	NAPHTHALENE	**ND**	14	0.5	ug/L	524.2	a	
95-49-8	O - CHLOROTOLUENE	**ND**		0.5	ug/L	524.2	a	
106-43-4	P - CHLOROTOLUENE	**ND**		0.5	ug/L	524.2	a	
95-47-6	O - XYLENE	**ND**		0.5	ug/L	524.2	a	
99-87-6	P - ISOPROPYLTOLUENE	**ND**		0.5	ug/L	524.2	a	
135-98-8	SEC - BUTYLBENZENE	**ND**		0.5	ug/L	524.2	a	
98-06-6	TERT - BUTYLBENZENE	**ND**		0.5	ug/L	524.2	a	
10061-02-6	TRANS- 1,3 - DICHLOROPROPENE	**ND**		0.5	ug/L	524.2	a	
75-69-4	TRICHLOROFLUOROMETHANE	**ND**		0.5	ug/L	524.2	a	

Notation:

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MRL - Method Reporting Limit .

BOTTLED WATER STANDARD OF QUALITY REPORT

Additional Inorganic Chemicals (New York)

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
E-11778	HARDNESS	**ND**		10	mg CaCO3/L	200.7	a	
E-14506	ALKALINITY	**1.4**		1	mg CaCO3/L	SM2320 B	a	
NA	CORROSIVITY	**-6.70**			SI	SM203	a	

Notation:

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MRL - Method Reporting Limit .

BOTTLED WATER STANDARD OF QUALITY REPORT

Inorganic Chemicals (Massachusetts)

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	Lab	COMMENT
1497-73-0	PERCHLORATE	**ND**	2	0.50	ug/L	331.0		Analyzed by Eurofins Pom CA

Notation:

A Result of "ND" indicates that the compound was not detected above the Lab's Reporting Limit - MRL.
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MRL - Method Reporting Limit .

EDGE ANALYTICAL

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 Cr Ste A2 - 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

Data Report

Client Name: Menehune Water
99-117 Waiua Place
Aiea, HI 96701

Reference Number: **24-10720**
Project: 480-043 - 50 State Source

Report Date: 10/24/24

Date Received: 4/17/24
Approved by: anp,bj,mlp
Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Sample Description: 480-043 Purified Finished Product — Matrix SO — Sample Date: 9/9/24 9:00 am
Lab Number: 20287 — Sample Comment: — Collected By:

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
7440-42-8	**BORON**	ND	0.050	0.006	mg/L	1.0	200.7	a	9/16/24	BJ	200.7_240916A5	
7440-70-2	**CALCIUM**	ND	0.5	0.006	mg/L	1.0	200.7	a	9/16/24	BJ	200.7_240916A5	
7439-95-4	**MAGNESIUM**	ND	0.5	0.001	mg/L	1.0	200.7	a	9/16/24	BJ	200.7_240916A5	
7440-23-5	**SODIUM**	1.1	0.5	0.3	mg/L	1.0	200.7	a	9/16/24	BJ	200.7_240916A5	
7440-09-7	**POTASSIUM**	ND	1.0	0.06	mg/L	1.0	200.7	a	9/16/24	BJ	200.7_240916A5	
24959-67-9	**BROMIDE**	ND	0.005	0.00019	mg/L	1.0	300.1	a	9/16/24	TJL	300.1_240916A	
E-10184	**ELECTRICAL CONDUCTIVITY**	ND	10		uS/cm	1.0	SM2510 B	a	9/11/24	TJL	EC_240911R	
	HETEROTROPHIC PLATE COUNT	2.0 H3	2		MPN/mL	1.0	SM9215 E	b	9/13/24	MLH	HPCS_240910	
	TOTAL COLIFORM For Taste Test	ABSENT	P/A		per 100mL	1.0	SM9223 B/Colilert-18	a	9/11/24	SPM2	M_240910BUR	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.

Form: cRslt_2.rpt

ANALYTICAL

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-10720**
Report Date: 10/24/24

Calibration Check

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
1677_240917	0	CYANIDE	0.102	0.100	mg/L	OIA-1677-DW	102	90-110		CAL	
200.7_240916A5	2	HARDNESS	73.9	72.8	mg/L	200.7	102	90-110		CAL	
	2	ALUMINUM	1.01	1	mg/L	200.7	101	90-110		CAL	
	2	IRON	1	1	mg/L	200.7	100	90-110		CAL	
	2	BORON	1.01	1	mg/L	200.7	101	90-110		CAL	
	2	CALCIUM	11.3	11	mg/L	200.7	103	90-110		CAL	
	2	MAGNESIUM	11.1	11	mg/L	200.7	101	90-110		CAL	
	2	POTASSIUM	9.9	10	mg/L	200.7	99	90-110		CAL	
	2	SODIUM	11.1	11	mg/L	200.7	101	90-110		CAL	
200.8_240916A4	0	URANIUM	0.00091	0.001	mg/L	200.8	91	80-120		CAL	
	0	COPPER	0.00102	0.001	mg/L	200.8	102	80-120		CAL	
	0	MANGANESE	0.00095	0.001	mg/L	200.8	95	80-120		CAL	
	0	SILVER	0.00097	0.001	mg/L	200.8	97	80-120		CAL	
	0	ZINC	0.00096	0.001	mg/L	200.8	96	80-120		CAL	
	0	ANTIMONY	0.00098	0.001	mg/L	200.8	98	80-120		CAL	
	0	ARSENIC	0.00101	0.001	mg/L	200.8	101	80-120		CAL	
	0	BARIUM	0.00102	0.001	mg/L	200.8	102	80-120		CAL	
	0	BERYLLIUM	0.001	0.001	mg/L	200.8	100	80-120		CAL	
	0	CADMIUM	0.00099	0.001	mg/L	200.8	99	80-120		CAL	
	0	CHROMIUM	0.00093	0.001	mg/L	200.8	93	80-120		CAL	
	0	LEAD	0.00097	0.001	mg/L	200.8	97	80-120		CAL	
	0	NICKEL	0.00101	0.001	mg/L	200.8	101	80-120		CAL	
	0	SELENIUM	0.001	0.001	mg/L	200.8	100	80-120		CAL	
	0	THALLIUM	0.001	0.001	mg/L	200.8	100	80-120		CAL	
200.8_240924HG	0	MERCURY	0.000118	0.0001	mg/L	200.8	118	80-120		CAL	
300.1_240916A	0	BROMATE	0.00099	0.001	mg/L	300.1	99	75-125		CAL	
	0	CHLORITE	0.00095	0.001	mg/L	300.1	95	75-125		CAL	
	0	BROMIDE	0.00089	0.001	mg/L	300.1	89	75-125		CAL	
	1	BROMATE	0.0047	0.005	mg/L	300.1	94	75-125		CAL	
	1	CHLORITE	0.0048	0.005	mg/L	300.1	96	75-125		CAL	
	1	BROMIDE	0.0045	0.005	mg/L	300.1	90	75-125		CAL	
	2	BROMATE	0.0088	0.01	mg/L	300.1	88	75-125		CAL	
	2	CHLORITE	0.0093	0.01	mg/L	300.1	93	75-125		CAL	
	2	BROMIDE	0.0091	0.01	mg/L	300.1	91	75-125		CAL	
	3	BROMATE	0.0141	0.015	mg/L	300.1	94	75-125		CAL	
	3	CHLORITE	0.0144	0.015	mg/L	300.1	96	75-125		CAL	
	3	BROMIDE	0.0137	0.015	mg/L	300.1	91	75-125		CAL	
549_240916	0	DIQUAT	17.0	20	ug/L	549.2	85	80-120		CAL	
CL_240910A	0	FREE CHLORINE RESIDUAL	0.052	0.050	mg/L	SM4500-Cl G	104	70-130		CAL	
EC_240911R	0	ELECTRICAL CONDUCTIVITY	102	100	uS/cm	SM2510 B	102	85-115		CAL	
IC05_240910A	0	CHLORIDE	0.94	1	mg/L	300.0	94	90-110		CAL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent4.rpt

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-10720**
Report Date: 10/24/24

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
Calibration Check											
IC05_240910A	0	SULFATE	1.88	2	mg/L	300.0	94	90-110		CAL	
	0	FLUORIDE	0.96	1	mg/L	300.0	96	90-110		CAL	
	0	NITRATE-N	0.94	1	mg/L	300.0	94	90-110		CAL	
	0	NITRITE-N	0.94	1	mg/L	300.0	94	90-110		CAL	
	0	TOTAL NITRATE+NITRITE as N	1.88	2	mg/L	300.0	94	90-110		CAL	
TURB_240910	0	TURBIDITY	10.1	10.00	NTU	180.1	101	90-110		CAL	
	1	TURBIDITY	10.1	10.00	NTU	180.1	101	90-110		CAL	
	2	TURBIDITY	9.98	10.00	NTU	180.1	100	90-110		CAL	
	3	TURBIDITY	10.1	10.00	NTU	180.1	101	90-110		CAL	
	4	TURBIDITY	10.1	10.00	NTU	180.1	101	90-110		CAL	
	5	TURBIDITY	9.65	10.00	NTU	180.1	97	90-110		CAL	
	6	TURBIDITY	9.65	10.00	NTU	180.1	97	90-110		CAL	
Low-Level Continuing Calibration Verification											
549_240916	2	DIQUAT	0.46	0.4	ug/L	549.2	115	50-150		LCCV	

*Notation:
% Recovery = (Result of Analysis)/(True Value) * 100
NA = Indicates % Recovery could not be calculated.
Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

ANALYTICAL

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-10720**
Report Date: 10/24/24

Laboratory Fortified Blank

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
200.7_240916A5	1	HARDNESS	86.6	86	mg/L	200.7	101	85-115		LFB	
	1	ALUMINUM	0.48	0.5	mg/L	200.7	96	85-115		LFB	
	1	IRON	0.507	0.5	mg/L	200.7	101	85-115		LFB	
	1	BORON	0.456	0.5	mg/L	200.7	91	85-115		LFB	
	1	CALCIUM	13.4	13	mg/L	200.7	103	85-115		LFB	
	1	MAGNESIUM	12.9	13	mg/L	200.7	99	85-115		LFB	
	1	POTASSIUM	16.8	17.5	mg/L	200.7	96	85-115		LFB	
	1	SODIUM	13	13	mg/L	200.7	100	85-115		LFB	
200.8_240916A4	0	URANIUM	0.0094	0.01	mg/L	200.8	94	85-115		LFB	
	0	COPPER	0.0104	0.01	mg/L	200.8	104	85-115		LFB	
	0	MANGANESE	0.0098	0.01	mg/L	200.8	98	85-115		LFB	
	0	SILVER	0.0099	0.01	mg/L	200.8	99	85-115		LFB	
	0	ZINC	0.0102	0.01	mg/L	200.8	102	85-115		LFB	
	0	ANTIMONY	0.0098	0.01	mg/L	200.8	98	85-115		LFB	
	0	ARSENIC	0.01	0.01	mg/L	200.8	100	85-115		LFB	
	0	BARIUM	0.01	0.01	mg/L	200.8	100	85-115		LFB	
	0	BERYLLIUM	0.01	0.01	mg/L	200.8	100	85-115		LFB	
	0	CADMIUM	0.01	0.01	mg/L	200.8	100	85-115		LFB	
	0	CHROMIUM	0.0101	0.01	mg/L	200.8	101	85-115		LFB	
	0	LEAD	0.0097	0.01	mg/L	200.8	97	85-115		LFB	
	0	NICKEL	0.0101	0.01	mg/L	200.8	101	85-115		LFB	
	0	SELENIUM	0.0099	0.01	mg/L	200.8	99	85-115		LFB	
	0	THALLIUM	0.0099	0.01	mg/L	200.8	99	85-115		LFB	
200.8_240924HG	0	MERCURY	0.00048	0.0005	mg/L	200.8	96	85-115		LFB	
504_240912	0	1,2 - DIBROMOETHANE (EDB)	0.23	0.25	ug/L	504.1	92	70-130		LFB	
	0	1,2,3 - TRICHLOROPROPANE	0.22	0.25	ug/L	504.1	88	70-130		LFB	
	0	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	0.23	0.25	ug/L	504.1	92	70-130		LFB	
515_240918	0	2,4 - D	0.457	0.5	ug/L	515.4	91	70-130		LFB	
	0	2,4,5 - TP (SILVEX)	0.466	0.5	ug/L	515.4	93	70-130		LFB	
	0	DICAMBA	0.428	0.5	ug/L	515.4	86	70-130		LFB	
	0	DINOSEB	0.479	0.5	ug/L	515.4	96	70-130		LFB	
	0	PENTACHLOROPHENOL	0.458	0.5	ug/L	515.4	92	70-130		LFB	
	0	PICLORAM	0.433	0.5	ug/L	515.4	87	70-130		LFB	
	1	2,4 - D	2.38	2.5	ug/L	515.4	95	70-130		LFB	
	1	2,4,5 - TP (SILVEX)	2.44	2.5	ug/L	515.4	98	70-130		LFB	
	1	DALAPON	2.51	2.5	ug/L	515.4	100	70-130		LFB	
	1	DICAMBA	2.31	2.5	ug/L	515.4	92	70-130		LFB	
	1	DINOSEB	2.48	2.5	ug/L	515.4	99	70-130		LFB	
	1	PENTACHLOROPHENOL	2.44	2.5	ug/L	515.4	98	70-130		LFB	
	1	PICLORAM	2.37	2.5	ug/L	515.4	95	70-130		LFB	
524_240919	0	1,1 - DICHLOROETHANE	10.7	10	ug/L	524.2	107	70-130		LFB	
	0	1,1 - DICHLOROPROPENE	10.2	10	ug/L	524.2	102	70-130		LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent4.rpt

ANALYTICAL

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-10720**
Report Date: 10/24/24

Laboratory Fortified Blank

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
524_240919	0	1,1,1,2 - TETRACHLOROETHANE	10.1	10	ug/L	524.2	101	70-130		LFB	
	0	1,1,2,2 - TETRACHLOROETHANE	9.2	10	ug/L	524.2	92	70-130		LFB	
	0	1,2,3 - TRICHLOROBENZENE	8.8	10	ug/L	524.2	88	70-130		LFB	
	0	1,2,3 - TRICHLOROPROPANE	9.4	10	ug/L	524.2	94	70-130		LFB	
	0	1,2,4 - TRIMETHYLBENZENE	9.6	10	ug/L	524.2	96	70-130		LFB	
	0	1,3 - DICHLOROPROPANE	10.4	10	ug/L	524.2	104	70-130		LFB	
	0	1,3,5 - TRIMETHYLBENZENE	9.6	10	ug/L	524.2	96	70-130		LFB	
	0	2,2 - DICHLOROPROPANE	10.7	10	ug/L	524.2	107	70-130		LFB	
	0	BROMOBENZENE	9.0	10	ug/L	524.2	90	70-130		LFB	
	0	BROMOCHLOROMETHANE	9.8	10	ug/L	524.2	98	70-130		LFB	
	0	BROMOMETHANE	11.4	10	ug/L	524.2	114	70-130		LFB	
	0	CHLOROETHANE	11.4	10	ug/L	524.2	114	70-130	AH	LFB	
	0	CHLOROMETHANE	10.5	10	ug/L	524.2	105	70-130		LFB	
	0	CIS - 1,3 - DICHLOROPROPENE	10.6	10	ug/L	524.2	106	70-130		LFB	
	0	DIBROMOMETHANE	10.3	10	ug/L	524.2	103	70-130		LFB	
	0	DICHLORODIFLUOROMETHANE	7.9	10	ug/L	524.2	79	70-130		LFB	
	0	HEXACHLOROBUTADIENE	9.4	10	ug/L	524.2	94	70-130		LFB	
	0	ISOPROPYLBENZENE	9.3	10	ug/L	524.2	93	70-130		LFB	
	0	M - DICHLOROBENZENE	9.6	10	ug/L	524.2	96	70-130		LFB	
	0	M/P - XYLENE	19.1	20	ug/L	524.2	96	70-130		LFB	
	0	METHYL TERT-BUTYL ETHER	9.2	10	ug/L	524.2	92	70-130		LFB	
	0	N - BUTYLBENZENE	9.2	10	ug/L	524.2	92	70-130		LFB	
	0	N - PROPYLBENZENE	9.6	10	ug/L	524.2	96	70-130		LFB	
	0	NAPHTHALENE	9.0	10	ug/L	524.2	90	70-130		LFB	
	0	O - CHLOROTOLUENE	9.8	10	ug/L	524.2	98	70-130		LFB	
	0	O - XYLENE	9.6	10	ug/L	524.2	96	70-130		LFB	
	0	P - CHLOROTOLUENE	9.6	10	ug/L	524.2	96	70-130		LFB	
	0	P - ISOPROPYLTOLUENE	9.2	10	ug/L	524.2	92	70-130		LFB	
	0	SEC - BUTYLBENZENE	9.2	10	ug/L	524.2	92	70-130		LFB	
	0	TERT - BUTYLBENZENE	9.2	10	ug/L	524.2	92	70-130		LFB	
	0	TRANS- 1,3 - DICHLOROPROPENE	10.3	10	ug/L	524.2	103	70-130		LFB	
	0	TRICHLOROFLUOROMETHANE	10.6	10	ug/L	524.2	106	70-130	AH	LFB	
	0	BROMODICHLOROMETHANE	10.7	10	ug/L	524.2	107	70-130		LFB	
	0	BROMOFORM	9.1	10	ug/L	524.2	91	70-130		LFB	
	0	CHLORODIBROMOMETHANE	10.0	10	ug/L	524.2	100	70-130		LFB	
	0	CHLOROFORM	10.9	10	ug/L	524.2	109	70-130		LFB	
	0	1,1 - DICHLOROETHYLENE	9.6	10	ug/L	524.2	96	70-130		LFB	
	0	1,1,1 - TRICHLOROETHANE	10.0	10	ug/L	524.2	100	70-130		LFB	
	0	1,1,2 - TRICHLOROETHANE	10.1	10	ug/L	524.2	101	70-130		LFB	
	0	1,2 - DICHLOROETHANE	10.7	10	ug/L	524.2	107	70-130		LFB	
	0	1,2 - DICHLOROPROPANE	10.5	10	ug/L	524.2	105	70-130		LFB	
	0	1,2,4 - TRICHLOROBENZENE	8.8	10	ug/L	524.2	88	70-130		LFB	
	0	BENZENE	10.5	10	ug/L	524.2	105	70-130		LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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FORM: QCIndependent4.rpt

ANALYTICAL

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-10720**
Report Date: 10/24/24

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
Laboratory Fortified Blank											
524_240919	0	CARBON TETRACHLORIDE	10.1	10	ug/L	524.2	101	70-130		LFB	
	0	CIS - 1,2 - DICHLOROETHYLENE	10.4	10	ug/L	524.2	104	70-130		LFB	
	0	DICHLOROMETHANE	10.5	10	ug/L	524.2	105	70-130		LFB	
	0	ETHYLBENZENE	9.6	10	ug/L	524.2	96	70-130		LFB	
	0	MONOCHLOROBENZENE	9.9	10	ug/L	524.2	99	70-130		LFB	
	0	O - DICHLOROBENZENE	9.4	10	ug/L	524.2	94	70-130		LFB	
	0	P - DICHLOROBENZENE	9.3	10	ug/L	524.2	93	70-130		LFB	
	0	STYRENE	9.7	10	ug/L	524.2	97	70-130		LFB	
	0	TETRACHLOROETHYLENE	9.6	10	ug/L	524.2	96	70-130		LFB	
	0	TOLUENE	10.4	10	ug/L	524.2	104	70-130		LFB	
	0	TRANS - 1,2 - DICHLOROETHYLENE	10.0	10	ug/L	524.2	100	70-130		LFB	
	0	TRICHLOROETHYLENE	10.2	10	ug/L	524.2	102	70-130		LFB	
	0	VINYL CHLORIDE	10.0	10	ug/L	524.2	100	70-130		LFB	
525_240917	0	ALACHLOR	2.04	2	ug/L	525.2	102	70-130		LFB	
	0	ALDRIN	0.90	1	ug/L	525.2	90	70-130		LFB	
	0	ATRAZINE	2.33	2	ug/L	525.2	117	70-130		LFB	
	0	BUTACHLOR	0.94	1	ug/L	525.2	94	70-130		LFB	
	0	DI(2-ETHYLHEXYL)-ADIPATE	0.91	1	ug/L	525.2	91	70-130		LFB	
	0	DI(2-ETHYLHEXYL)-PHTHALATE	1.07	1	ug/L	525.2	107	70-130		LFB	
	0	DIELDRIN	0.99	1	ug/L	525.2	99	70-130		LFB	
	0	HEPTACHLOR EPOXIDE "B"	1.09	1	ug/L	525.2	109	70-130		LFB	
	0	METOLACHLOR	0.99	1	ug/L	525.2	99	70-130		LFB	
	0	METRIBUZIN	0.52	1	ug/L	525.2	52	70-130	LR	LFB	
	0	PROPACHLOR	1.08	1	ug/L	525.2	108	70-130		LFB	
	0	SIMAZINE	0.88	1	ug/L	525.2	88	70-130		LFB	
531_241002	0	3-HYDROXYCARBOFURAN	18.7	20	ug/L	531.2	94	70-130		LFB	
	0	ALDICARB	19.2	20	ug/L	531.2	96	70-130		LFB	
	0	ALDICARB SULFONE	16.3	20	ug/L	531.2	82	70-130		LFB	
	0	ALDICARB SULFOXIDE	15.8	20	ug/L	531.2	79	70-130		LFB	
	0	CARBARYL	20.6	20	ug/L	531.2	103	70-130		LFB	
	0	CARBOFURAN	20.0	20	ug/L	531.2	100	70-130		LFB	
	0	METHOMYL	17.2	20	ug/L	531.2	86	70-130		LFB	
	0	OXAMYL (VYDATE)	16.7	20	ug/L	531.2	84	70-130		LFB	
547_240926	0	GLYPHOSATE	19.7	20	ug/L	547	99	81-126		LFB	
	1	GLYPHOSATE	42.5	40	ug/L	547	106	81-126		LFB	
	2	GLYPHOSATE	23.3	20	ug/L	547	117	81-126		LFB	
548_240916	0	ENDOTHALL	13.0	20	ug/L	548.1	65	50-121		LFB	
549_240916	0	DIQUAT	17.4	20	ug/L	549.2	87	70-130		LFB	
552_240918	3	DIBROMOACETIC ACID	12.8	12.5	ug/L	552.3	102	70-130		LFB	
	3	DICHLOROACETIC ACID	12.7	12.5	ug/L	552.3	102	70-130		LFB	
	3	MONOBROMOACETIC ACID	13.7	12.5	ug/L	552.3	110	70-130		LFB	
	3	MONOCHLOROACETIC ACID	14.4	12.5	ug/L	552.3	115	70-130		LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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FORM: QCIndependent4.rpt

ANALYTICAL

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-10720**
Report Date: 10/24/24

Laboratory Fortified Blank

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
552_240918	3	TRICHLOROACETIC ACID	13.1	12.5	ug/L	552.3	105	70-130		LFB	
	4	DIBROMOACETIC ACID	27.1	25	ug/L	552.3	108	70-130		LFB	
	4	DICHLOROACETIC ACID	25.6	25	ug/L	552.3	102	70-130		LFB	
	4	MONOBROMOACETIC ACID	27.8	25	ug/L	552.3	111	70-130		LFB	
	4	MONOCHLOROACETIC ACID	28.3	25	ug/L	552.3	113	70-130		LFB	
	4	TRICHLOROACETIC ACID	27.6	25	ug/L	552.3	110	70-130		LFB	
alk_240917	0	ALKALINITY	102	100	mg CaCO3/L	SM2320 B	102	90-110		LFB	
	0	ALKALINITY	104	100	mg CaCO3/L	SM2320 B	104	90-110		LFB	
CL_240910A	0	FREE CHLORINE RESIDUAL	0.183	0.200	mg/L	SM4500-Cl G	92	80-120		LFB	
EC_240911R	0	ELECTRICAL CONDUCTIVITY	104	100	uS/cm	SM2510 B	104	90-110		LFB	

*Notation:
% Recovery = (Result of Analysis)/(True Value) * 100
NA = Indicates % Recovery could not be calculated.
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EDGE ANALYTICAL

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-10720**
Report Date: 10/24/24

Low-Level Lab Fortified Blank

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
504_240912	1	1,2 - DIBROMOETHANE (EDB)	0.008	0.01	ug/L	504.1	80	60-140		LLFB	
	1	1,2,3 - TRICHLOROPROPANE	0.006	0.01	ug/L	504.1	60	60-140		LLFB	
	1	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	0.009	0.01	ug/L	504.1	90	60-140		LLFB	
515_240918	0	2,4 - D	0.090	0.1	ug/L	515.4	90	50-150		LLFB	
	0	2,4,5 - TP (SILVEX)	0.104	0.1	ug/L	515.4	104	50-150		LLFB	
	0	DALAPON	0.521	0.5	ug/L	515.4	104	50-150		LLFB	
	0	DICAMBA	0.076	0.1	ug/L	515.4	76	50-150		LLFB	
	0	DINOSEB	0.100	0.1	ug/L	515.4	100	50-150		LLFB	
	0	PENTACHLOROPHENOL	0.100	0.1	ug/L	515.4	100	50-150		LLFB	
	0	PICLORAM	0.095	0.1	ug/L	515.4	95	50-150		LLFB	
	1	PENTACHLOROPHENOL	0.045	0.04	ug/L	515.4	113	50-150		LLFB	
525_240917	0	ALACHLOR	0.19	0.2	ug/L	525.2	95	50-150		LLFB	
	0	ALDRIN	0.11	0.1	ug/L	525.2	110	50-150		LLFB	
	0	ATRAZINE	0.26	0.2	ug/L	525.2	130	50-150		LLFB	
	0	BUTACHLOR	0.09	0.1	ug/L	525.2	90	50-150		LLFB	
	0	DI(2-ETHYLHEXYL)-ADIPATE	0.11	0.1	ug/L	525.2	110	50-150		LLFB	
	0	DI(2-ETHYLHEXYL)-PHTHALATE	0.57	0.5	ug/L	525.2	114	50-150		LLFB	
	0	DIELDRIN	0.13	0.1	ug/L	525.2	130	50-150		LLFB	
	0	HEPTACHLOR EPOXIDE "B"	0.11	0.1	ug/L	525.2	110	50-150		LLFB	
	0	METOLACHLOR	0.09	0.1	ug/L	525.2	90	50-150		LLFB	
	0	METRIBUZIN	0.06	0.1	ug/L	525.2	60	50-150		LLFB	
	0	PROPACHLOR	0.10	0.1	ug/L	525.2	100	50-150		LLFB	
	0	SIMAZINE	0.13	0.1	ug/L	525.2	130	50-150		LLFB	
531_241002	0	3-HYDROXYCARBOFURAN	0.35	0.5	ug/L	531.2	70	50-150		LLFB	
	0	ALDICARB	0.36	0.5	ug/L	531.2	72	50-150		LLFB	
	0	ALDICARB SULFONE	0.38	0.5	ug/L	531.2	76	50-150		LLFB	
	0	ALDICARB SULFOXIDE	0.30	0.5	ug/L	531.2	60	50-150		LLFB	
	0	CARBARYL	0.40	0.5	ug/L	531.2	80	50-150		LLFB	
	0	CARBOFURAN	0.50	0.5	ug/L	531.2	100	50-150		LLFB	
	0	METHOMYL	0.38	0.5	ug/L	531.2	76	50-150		LLFB	
	0	OXAMYL (VYDATE)	0.43	0.5	ug/L	531.2	86	50-150		LLFB	
547_240926	0	GLYPHOSATE	3.61	5	ug/L	547	72	50-150		LLFB	
548_240916	0	ENDOTHALL	2.50	5	ug/L	548.1	50	50-150		LLFB	
549_240916	0	DIQUAT	0.39	0.4	ug/L	549.2	98	50-150		LLFB	
552_240918	1	DIBROMOACETIC ACID	0.80	1	ug/L	552.3	80	50-150		LLFB	
	1	DICHLOROACETIC ACID	1.1	1	ug/L	552.3	110	50-150		LLFB	
	1	MONOBROMOACETIC ACID	1.1	1	ug/L	552.3	110	50-150		LLFB	
	1	MONOCHLOROACETIC ACID	1.5	1	ug/L	552.3	150	50-150		LLFB	
	1	TRICHLOROACETIC ACID	0.80	1	ug/L	552.3	80	50-150		LLFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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FORM: QCIndependent4.rpt

ANALYTICAL

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-10720**
Report Date: 10/24/24

Laboratory Reagent Blank

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
1677_240917	0	CYANIDE	ND		mg/L	OIA-1677-DW		0-0		LRB	
200.7_240916A5	0	HARDNESS	ND		mg/L	200.7		0-0		LRB	
	0	ALUMINUM	ND		mg/L	200.7		0-0		LRB	
	0	IRON	ND		mg/L	200.7		0-0		LRB	
	0	BORON	ND		mg/L	200.7		0-0		LRB	
	0	CALCIUM	ND		mg/L	200.7		0-0		LRB	
	0	MAGNESIUM	ND		mg/L	200.7		0-0		LRB	
	0	POTASSIUM	ND		mg/L	200.7		0-0		LRB	
	0	SODIUM	ND		mg/L	200.7		0-0		LRB	
200.8_240916A4	0	URANIUM	ND		mg/L	200.8		0-0		LRB	
	0	COPPER	ND		mg/L	200.8		0-0		LRB	
	0	MANGANESE	ND		mg/L	200.8		0-0		LRB	
	0	SILVER	ND		mg/L	200.8		0-0		LRB	
	0	ZINC	ND		mg/L	200.8		0-0		LRB	
	0	ANTIMONY	ND		mg/L	200.8		0-0		LRB	
	0	ARSENIC	ND		mg/L	200.8		0-0		LRB	
	0	BARIUM	ND		mg/L	200.8		0-0		LRB	
	0	BERYLLIUM	ND		mg/L	200.8		0-0		LRB	
	0	CADMIUM	ND		mg/L	200.8		0-0		LRB	
	0	CHROMIUM	ND		mg/L	200.8		0-0		LRB	
	0	LEAD	ND		mg/L	200.8		0-0		LRB	
	0	NICKEL	ND		mg/L	200.8		0-0		LRB	
	0	SELENIUM	ND		mg/L	200.8		0-0		LRB	
	0	THALLIUM	ND		mg/L	200.8		0-0		LRB	
200.8_240924HG	0	MERCURY	ND		mg/L	200.8		0-0		LRB	
300.1_240916A	0	BROMATE	ND		mg/L	300.1		0-0		LRB	
	0	CHLORITE	ND		mg/L	300.1		0-0		LRB	
	0	BROMIDE	ND		mg/L	300.1		0-0		LRB	
alk_240917	0	ALKALINITY	ND		mg CaCO3/L	SM2320 B		0-1		LRB	
CL_240910A	0	CHLORAMINES TOTAL	ND		mg/L	SM4500-Cl G		0-0		LRB	
	0	FREE CHLORINE RESIDUAL	ND		mg/L	SM4500-Cl G		0-0		LRB	
CLO2_240910A	0	CHLORINE DIOXIDE	ND		mg/L	SM4500-ClO2 D		0-0		LRB	
EC_240911R	0	ELECTRICAL CONDUCTIVITY	ND		uS/cm	SM2510 B		0-0		LRB	
IC05_240910A	0	CHLORIDE	ND		mg/L	300.0		0-0		LRB	
	0	SULFATE	ND		mg/L	300.0		0-0		LRB	
	0	FLUORIDE	ND		mg/L	300.0		0-0		LRB	
	0	NITRATE-N	ND		mg/L	300.0		0-0		LRB	
	0	NITRITE-N	ND		mg/L	300.0		0-0		LRB	
	0	TOTAL NITRATE+NITRITE as N	ND		mg/L	300.0		0-0		LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

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FORM: QCIndependent4.rpt

ANALYTICAL

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-10720**
Report Date: 10/24/24

Method Blank

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
200.7_240916A5	0	HARDNESS	ND		mg/L	200.7		0-0		MB	
	0	ALUMINUM	ND		mg/L	200.7		0-0		MB	
	0	IRON	ND		mg/L	200.7		0-0		MB	
	0	BORON	ND		mg/L	200.7		0-0		MB	
	0	CALCIUM	ND		mg/L	200.7		0-0		MB	
	0	MAGNESIUM	ND		mg/L	200.7		0-0		MB	
	0	POTASSIUM	ND		mg/L	200.7		0-0		MB	
	0	SODIUM	ND		mg/L	200.7		0-0		MB	
200.8_240916A4	0	URANIUM	ND		mg/L	200.8		0-0		MB	
	0	COPPER	ND		mg/L	200.8		0-0		MB	
	0	MANGANESE	ND		mg/L	200.8		0-0		MB	
	0	SILVER	ND		mg/L	200.8		0-0		MB	
	0	ZINC	ND		mg/L	200.8		0-0		MB	
	0	ANTIMONY	ND		mg/L	200.8		0-0		MB	
	0	ARSENIC	ND		mg/L	200.8		0-0		MB	
	0	BARIUM	ND		mg/L	200.8		0-0		MB	
	0	BERYLLIUM	ND		mg/L	200.8		0-0		MB	
	0	CADMIUM	ND		mg/L	200.8		0-0		MB	
	0	CHROMIUM	ND		mg/L	200.8		0-0		MB	
	0	LEAD	ND		mg/L	200.8		0-0		MB	
	0	NICKEL	ND		mg/L	200.8		0-0		MB	
	0	SELENIUM	ND		mg/L	200.8		0-0		MB	
	0	THALLIUM	ND		mg/L	200.8		0-0		MB	
200.8_240924HG	0	MERCURY	ND		mg/L	200.8		0-0		MB	
504_240912	0	1,2 - DIBROMOETHANE (EDB)	ND		ug/L	504.1		0-0		MB	
	0	1,2,3 - TRICHLOROPROPANE	ND		ug/L	504.1		0-0		MB	
	0	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	ND		ug/L	504.1		0-0		MB	
508_240917	0	CHLORDANE	ND		ug/L	508.1		0-0		MB	
	0	TOXAPHENE	ND		ug/L	508.1		0-0		MB	
515_240918	0	2,4 - D	ND		ug/L	515.4		0-0		MB	
	0	2,4,5 - TP (SILVEX)	ND		ug/L	515.4		0-0		MB	
	0	DALAPON	ND		ug/L	515.4		0-0		MB	
	0	DICAMBA	ND		ug/L	515.4		0-0		MB	
	0	DINOSEB	ND		ug/L	515.4		0-0		MB	
	0	PENTACHLOROPHENOL	ND		ug/L	515.4		0-0		MB	
	0	PICLORAM	ND		ug/L	515.4		0-0		MB	
524_240919	0	1,1 - DICHLOROETHANE	ND		ug/L	524.2		0-0		MB	
	0	1,1 - DICHLOROPROPENE	ND		ug/L	524.2		0-0		MB	
	0	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	524.2		0-0		MB	
	0	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	524.2		0-0		MB	
	0	1,2,3 - TRICHLOROBENZENE	ND		ug/L	524.2		0-0		MB	
	0	1,2,3 - TRICHLOROPROPANE	ND		ug/L	524.2		0-0		MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent4.rpt

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-10720**
Report Date: 10/24/24

Method Blank

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
524_240919	0	1,2,4 - TRIMETHYLBENZENE	ND		ug/L	524.2		0-0		MB	
	0	1,3 - DICHLOROPROPANE	ND		ug/L	524.2		0-0		MB	
	0	1,3,5 - TRIMETHYLBENZENE	ND		ug/L	524.2		0-0		MB	
	0	2,2 - DICHLOROPROPANE	ND		ug/L	524.2		0-0		MB	
	0	BROMOBENZENE	ND		ug/L	524.2		0-0		MB	
	0	BROMOCHLOROMETHANE	ND		ug/L	524.2		0-0		MB	
	0	BROMOMETHANE	ND		ug/L	524.2		0-0		MB	
	0	CHLOROETHANE	ND		ug/L	524.2		0-0		MB	
	0	CHLOROMETHANE	ND		ug/L	524.2		0-0		MB	
	0	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	524.2		0-0		MB	
	0	DIBROMOMETHANE	ND		ug/L	524.2		0-0		MB	
	0	DICHLORODIFLUOROMETHANE	ND		ug/L	524.2		0-0		MB	
	0	HEXACHLOROBUTADIENE	ND		ug/L	524.2		0-0		MB	
	0	ISOPROPYLBENZENE	ND		ug/L	524.2		0-0		MB	
	0	M - DICHLOROBENZENE	ND		ug/L	524.2		0-0		MB	
	0	M/P - XYLENE	ND		ug/L	524.2		0-0		MB	
	0	METHYL TERT-BUTYL ETHER	ND		ug/L	524.2		0-0		MB	
	0	N - BUTYLBENZENE	ND		ug/L	524.2		0-0		MB	
	0	N - PROPYLBENZENE	ND		ug/L	524.2		0-0		MB	
	0	NAPHTHALENE	ND		ug/L	524.2		0-0		MB	
	0	O - CHLOROTOLUENE	ND		ug/L	524.2		0-0		MB	
	0	O - XYLENE	ND		ug/L	524.2		0-0		MB	
	0	P - CHLOROTOLUENE	ND		ug/L	524.2		0-0		MB	
	0	P - ISOPROPYLTOLUENE	ND		ug/L	524.2		0-0		MB	
	0	SEC - BUTYLBENZENE	ND		ug/L	524.2		0-0		MB	
	0	TERT - BUTYLBENZENE	ND		ug/L	524.2		0-0		MB	
	0	TRANS- 1,3 - DICHLOROPROPENE	ND		ug/L	524.2		0-0		MB	
	0	TRICHLOROFLUOROMETHANE	ND		ug/L	524.2		0-0		MB	
	0	BROMODICHLOROMETHANE	ND		ug/L	524.2		0-0		MB	
	0	BROMOFORM	ND		ug/L	524.2		0-0		MB	
	0	CHLORODIBROMOMETHANE	ND		ug/L	524.2		0-0		MB	
	0	CHLOROFORM	ND		ug/L	524.2		0-0		MB	
	0	1,1 - DICHLOROETHYLENE	ND		ug/L	524.2		0-0		MB	
	0	1,1,1 - TRICHLOROETHANE	ND		ug/L	524.2		0-0		MB	
	0	1,1,2 - TRICHLOROETHANE	ND		ug/L	524.2		0-0		MB	
	0	1,2 - DICHLOROETHANE	ND		ug/L	524.2		0-0		MB	
	0	1,2 - DICHLOROPROPANE	ND		ug/L	524.2		0-0		MB	
	0	1,2,4 - TRICHLOROBENZENE	ND		ug/L	524.2		0-0		MB	
	0	BENZENE	ND		ug/L	524.2		0-0		MB	
	0	CARBON TETRACHLORIDE	ND		ug/L	524.2		0-0		MB	
	0	CIS - 1,2 - DICHLOROETHYLENE	ND		ug/L	524.2		0-0		MB	
	0	DICHLOROMETHANE	ND		ug/L	524.2		0-1		MB	
	0	ETHYLBENZENE	ND		ug/L	524.2		0-0		MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent4.rpt

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-10720**
Report Date: 10/24/24

Method Blank

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
524_240919	0	MONOCHLOROBENZENE	ND		ug/L	524.2		0-0		MB	
	0	O - DICHLOROBENZENE	ND		ug/L	524.2		0-0		MB	
	0	P - DICHLOROBENZENE	ND		ug/L	524.2		0-0		MB	
	0	STYRENE	ND		ug/L	524.2		0-0		MB	
	0	TETRACHLOROETHYLENE	ND		ug/L	524.2		0-0		MB	
	0	TOLUENE	ND		ug/L	524.2		0-0		MB	
	0	TRANS - 1,2 - DICHLOROETHYLENE	ND		ug/L	524.2		0-0		MB	
	0	TRICHLOROETHYLENE	ND		ug/L	524.2		0-0		MB	
	0	VINYL CHLORIDE	ND		ug/L	524.2		0-0		MB	
525_240917	0	ALACHLOR	ND		ug/L	525.2		0-0		MB	
	0	ALDRIN	ND		ug/L	525.2		0-0		MB	
	0	ATRAZINE	ND		ug/L	525.2		0-0		MB	
	0	BUTACHLOR	ND		ug/L	525.2		0-0		MB	
	0	DI(2-ETHYLHEXYL)-ADIPATE	ND		ug/L	525.2		0-0		MB	
	0	DI(2-ETHYLHEXYL)-PHTHALATE	ND		ug/L	525.2		0-0		MB	
	0	DIELDRIN	ND		ug/L	525.2		0-0		MB	
	0	HEPTACHLOR EPOXIDE "B"	ND		ug/L	525.2		0-0		MB	
	0	METOLACHLOR	ND		ug/L	525.2		0-0		MB	
	0	METRIBUZIN	ND		ug/L	525.2		0-0		MB	
	0	PROPACHLOR	ND		ug/L	525.2		0-0		MB	
	0	SIMAZINE	ND		ug/L	525.2		0-0		MB	
531_241002	0	3-HYDROXYCARBOFURAN	ND		ug/L	531.2		0-0		MB	
	0	ALDICARB	ND		ug/L	531.2		0-0		MB	
	0	ALDICARB SULFONE	ND		ug/L	531.2		0-0		MB	
	0	ALDICARB SULFOXIDE	ND		ug/L	531.2		0-0		MB	
	0	CARBARYL	ND		ug/L	531.2		0-0		MB	
	0	CARBOFURAN	ND		ug/L	531.2		0-0		MB	
	0	METHOMYL	ND		ug/L	531.2		0-0		MB	
	0	OXAMYL (VYDATE)	ND		ug/L	531.2		0-0		MB	
547_240926	0	GLYPHOSATE	ND		ug/L	547		0-0		MB	
548_240916	0	ENDOTHALL	ND		ug/L	548.1		0-0		MB	
549_240916	0	DIQUAT	ND		ug/L	549.2		0-0		MB	
552_240918	1	DIBROMOACETIC ACID	ND		ug/L	552.3		0-0		MB	
	1	DICHLOROACETIC ACID	ND		ug/L	552.3		0-0		MB	
	1	MONOBROMOACETIC ACID	ND		ug/L	552.3		0-0		MB	
	1	MONOCHLOROACETIC ACID	ND		ug/L	552.3		0-1		MB	
	1	TRICHLOROACETIC ACID	ND		ug/L	552.3		0-0		MB	
COLOR_240910	0	COLOR	ND		CU	SM2120 B		0-4		MB	
TDS_240912	0	TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3		MB	
	1	TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3		MB	
TURB_240910	0	TURBIDITY	ND		NTU	180.1		0-0		MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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FORM: QCIndependent4.rpt

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-10720**
Report Date: 10/24/24

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment

Method Blank

*Notation:
% Recovery = (Result of Analysis)/(True Value) * 100
NA = Indicates % Recovery could not be calculated.
Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

ANALYTICAL

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-10720**
Report Date: 10/24/24

Method Detection Limit Sample

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
524_240919	0	1,1 - DICHLOROETHANE	0.47	0.4	ug/L	524.2	118	25-175		MDL	
	0	1,1 - DICHLOROPROPENE	0.39	0.4	ug/L	524.2	98	25-175		MDL	
	0	1,1,1,2 - TETRACHLOROETHANE	0.38	0.4	ug/L	524.2	95	25-175		MDL	
	0	1,1,2,2 - TETRACHLOROETHANE	0.41	0.4	ug/L	524.2	103	25-175		MDL	
	0	1,2,3 - TRICHLOROBENZENE	0.26	0.4	ug/L	524.2	65	25-175		MDL	
	0	1,2,3 - TRICHLOROPROPANE	0.45	0.4	ug/L	524.2	113	25-175		MDL	
	0	1,2,4 - TRIMETHYLBENZENE	0.33	0.4	ug/L	524.2	83	25-175		MDL	
	0	1,3 - DICHLOROPROPANE	0.42	0.4	ug/L	524.2	105	25-175		MDL	
	0	1,3,5 - TRIMETHYLBENZENE	0.34	0.4	ug/L	524.2	85	25-175		MDL	
	0	2,2 - DICHLOROPROPANE	0.43	0.4	ug/L	524.2	108	25-175		MDL	
	0	BROMOBENZENE	0.36	0.4	ug/L	524.2	90	25-175		MDL	
	0	BROMOCHLOROMETHANE	0.42	0.4	ug/L	524.2	105	25-175		MDL	
	0	BROMOMETHANE	0.43	0.4	ug/L	524.2	108	25-175		MDL	
	0	CHLOROETHANE	0.58	0.4	ug/L	524.2	145	25-175		MDL	
	0	CHLOROMETHANE	0.52	0.4	ug/L	524.2	130	25-175		MDL	
	0	CIS - 1,3 - DICHLOROPROPENE	0.35	0.4	ug/L	524.2	88	25-175		MDL	
	0	DIBROMOMETHANE	0.44	0.4	ug/L	524.2	110	25-175		MDL	
	0	DICHLORODIFLUOROMETHANE	0.42	0.4	ug/L	524.2	105	25-175		MDL	
	0	HEXACHLOROBUTADIENE	0.41	0.4	ug/L	524.2	103	25-175		MDL	
	0	ISOPROPYLBENZENE	0.33	0.4	ug/L	524.2	83	25-175		MDL	
	0	M - DICHLOROBENZENE	0.39	0.4	ug/L	524.2	98	25-175		MDL	
	0	M/P - XYLENE	0.74	0.8	ug/L	524.2	93	25-175		MDL	
	0	METHYL TERT-BUTYL ETHER	0.37	0.4	ug/L	524.2	93	25-175		MDL	
	0	N - BUTYLBENZENE	0.35	0.4	ug/L	524.2	88	25-175		MDL	
	0	N - PROPYLBENZENE	0.34	0.4	ug/L	524.2	85	25-175		MDL	
	0	NAPHTHALENE	0.17	0.4	ug/L	524.2	43	25-175		MDL	
	0	O - CHLOROTOLUENE	0.38	0.4	ug/L	524.2	95	25-175		MDL	
	0	O - XYLENE	0.34	0.4	ug/L	524.2	85	25-175		MDL	
	0	P - CHLOROTOLUENE	0.38	0.4	ug/L	524.2	95	25-175		MDL	
	0	P - ISOPROPYLTOLUENE	0.31	0.4	ug/L	524.2	78	25-175		MDL	
	0	SEC - BUTYLBENZENE	0.34	0.4	ug/L	524.2	85	25-175		MDL	
	0	TERT - BUTYLBENZENE	0.32	0.4	ug/L	524.2	80	25-175		MDL	
	0	TRANS- 1,3 - DICHLOROPROPENE	0.34	0.4	ug/L	524.2	85	25-175		MDL	
	0	TRICHLOROFLUOROMETHANE	0.52	0.4	ug/L	524.2	130	25-175		MDL	
	0	BROMODICHLOROMETHANE	0.42	0.4	ug/L	524.2	105	25-175		MDL	
	0	BROMOFORM	0.36	0.4	ug/L	524.2	90	25-175		MDL	
	0	CHLORODIBROMOMETHANE	0.37	0.4	ug/L	524.2	93	25-175		MDL	
	0	CHLOROFORM	0.48	0.4	ug/L	524.2	120	25-175		MDL	
	0	1,1 - DICHLOROETHYLENE	0.41	0.4	ug/L	524.2	103	25-175		MDL	
	0	1,1,1 - TRICHLOROETHANE	0.45	0.4	ug/L	524.2	113	25-175		MDL	
	0	1,1,2 - TRICHLOROETHANE	0.43	0.4	ug/L	524.2	108	25-175		MDL	
	0	1,2 - DICHLOROETHANE	0.46	0.4	ug/L	524.2	115	25-175		MDL	
	0	1,2 - DICHLOROPROPANE	0.44	0.4	ug/L	524.2	110	25-175		MDL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent4.rpt

ANALYTICAL

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-10720**
Report Date: 10/24/24

Method Detection Limit Sample

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
524_240919	0	1,2,4 - TRICHLOROBENZENE	0.27	0.4	ug/L	524.2	68	25-175		MDL	
	0	BENZENE	0.50	0.4	ug/L	524.2	125	25-175		MDL	
	0	CARBON TETRACHLORIDE	0.43	0.4	ug/L	524.2	108	25-175		MDL	
	0	CIS - 1,2 - DICHLOROETHYLENE	0.40	0.4	ug/L	524.2	100	25-175		MDL	
	0	DICHLOROMETHANE	0.49	0.4	ug/L	524.2	123	25-175		MDL	
	0	ETHYLBENZENE	0.38	0.4	ug/L	524.2	95	25-175		MDL	
	0	MONOCHLOROBENZENE	0.43	0.4	ug/L	524.2	108	25-175		MDL	
	0	O - DICHLOROBENZENE	0.41	0.4	ug/L	524.2	103	25-175		MDL	
	0	P - DICHLOROBENZENE	0.41	0.4	ug/L	524.2	103	25-175		MDL	
	0	STYRENE	0.34	0.4	ug/L	524.2	85	25-175		MDL	
	0	TETRACHLOROETHYLENE	0.43	0.4	ug/L	524.2	108	25-175		MDL	
	0	TOLUENE	0.43	0.4	ug/L	524.2	108	25-175		MDL	
	0	TRANS - 1,2 - DICHLOROETHYLENE	0.42	0.4	ug/L	524.2	105	25-175		MDL	
	0	TRICHLOROETHYLENE	0.45	0.4	ug/L	524.2	113	25-175		MDL	
	0	VINYL CHLORIDE	0.49	0.4	ug/L	524.2	123	25-175		MDL	

*Notation:
% Recovery = (Result of Analysis)/(True Value) * 100
NA = Indicates % Recovery could not be calculated.
Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

ANALYTICAL

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-10720**
Report Date: 10/24/24

Quality Control Sample

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
1677_240917	0	CYANIDE	0.097	0.100	mg/L	OIA-1677-DW	97	90-110		QCS	
200.7_240916A5	0	ALUMINUM	1.99	2	mg/L	200.7	100	95-105		QCS	
	0	IRON	1.97	2	mg/L	200.7	99	95-105		QCS	
	0	BORON	1.91	2	mg/L	200.7	96	95-105		QCS	
	1	HARDNESS	129	132.3	mg/L	200.7	98	95-105		QCS	
	1	CALCIUM	20.1	20	mg/L	200.7	101	95-105		QCS	
	1	MAGNESIUM	19.2	20	mg/L	200.7	96	95-105		QCS	
	1	POTASSIUM	19.8	20	mg/L	200.7	99	95-105		QCS	
	1	SODIUM	20.1	20	mg/L	200.7	101	95-105		QCS	
200.8_240916A4	0	URANIUM	0.0514	0.0519	mg/L	200.8	99	90-110		QCS	
	0	COPPER	0.0394	0.04	mg/L	200.8	99	90-110		QCS	
	0	MANGANESE	0.0369	0.04	mg/L	200.8	92	90-110		QCS	
	0	SILVER	0.0372	0.04	mg/L	200.8	93	90-110		QCS	
	0	ZINC	0.0385	0.04	mg/L	200.8	96	90-110		QCS	
	0	ANTIMONY	0.041	0.04	mg/L	200.8	103	90-110		QCS	
	0	ARSENIC	0.0384	0.04	mg/L	200.8	96	90-110		QCS	
	0	BARIUM	0.0391	0.04	mg/L	200.8	98	90-110		QCS	
	0	BERYLLIUM	0.039	0.04	mg/L	200.8	98	90-110		QCS	
	0	CADMIUM	0.0374	0.04	mg/L	200.8	94	90-110		QCS	
	0	CHROMIUM	0.0387	0.04	mg/L	200.8	97	90-110		QCS	
	0	LEAD	0.0372	0.04	mg/L	200.8	93	90-110		QCS	
	0	NICKEL	0.0385	0.04	mg/L	200.8	96	90-110		QCS	
	0	SELENIUM	0.0389	0.04	mg/L	200.8	97	90-110		QCS	
	0	THALLIUM	0.0371	0.04	mg/L	200.8	93	90-110		QCS	
200.8_240924HG	0	MERCURY	0.00122	0.00127	mg/L	200.8	96	90-110		QCS	
300.1_240916A	0	BROMATE	0.0095	0.01	mg/L	300.1	95	85-115		QCS	
	0	CHLORITE	0.0189	0.02	mg/L	300.1	95	85-115		QCS	
	0	BROMIDE	0.0960	0.1	mg/L	300.1	96	85-115		QCS	
504_240912	0	1,2 - DIBROMOETHANE (EDB)	1.32	1.37	ug/L	504.1	96	70-130		QCS	
	0	1,2,3 - TRICHLOROPROPANE	1.06	1.11	ug/L	504.1	95	70-130		QCS	
	0	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	1.67	1.69	ug/L	504.1	99	70-130		QCS	
515_240918	0	2,4 - D	43.7	46.4	ug/L	515.4	94	70-130		QCS	
	0	2,4,5 - TP (SILVEX)	19.3	20	ug/L	515.4	97	70-130		QCS	
	0	DALAPON	78.2	78.5	ug/L	515.4	100	70-130		QCS	
	0	DICAMBA	76.7	88.1	ug/L	515.4	87	70-130		QCS	
	0	DINOSEB	49.0	56.1	ug/L	515.4	87	70-130		QCS	
	0	PENTACHLOROPHENOL	8.30	9.64	ug/L	515.4	86	70-130		QCS	
	0	PICLORAM	38.6	39.5	ug/L	515.4	98	70-130		QCS	
531_241002	1	3-HYDROXYCARBOFURAN	29.9	33	ug/L	531.2	91	70-130		QCS	
	1	ALDICARB	50.9	57.8	ug/L	531.2	88	70-130		QCS	
	1	ALDICARB SULFONE	54.4	69	ug/L	531.2	79	70-130		QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent4.rpt

ANALYTICAL

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **24-10720**
Report Date: 10/24/24

Quality Control Sample

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
531_241002	1	ALDICARB SULFOXIDE	35.3	45.1	ug/L	531.2	78	70-130		QCS	
	1	CARBARYL	63.5	75.5	ug/L	531.2	84	70-130		QCS	
	1	CARBOFURAN	53.1	56	ug/L	531.2	95	70-130		QCS	
	1	METHOMYL	38.8	47.8	ug/L	531.2	81	70-130		QCS	
	1	OXAMYL (VYDATE)	29.2	34.6	ug/L	531.2	84	70-130		QCS	
alk_240917	0	ALKALINITY	99.2	100	mg CaCO3/L	SM2320 B	99	90-110		QCS	
CL_240910A	0	FREE CHLORINE RESIDUAL	1.33	1.40	mg/L	SM4500-Cl G	95	90-110		QCS	
COLOR_240910	0	COLOR	10	10	CU	SM2120 B	100	90-110		QCS	
EC_240911R	0	ELECTRICAL CONDUCTIVITY	142	147	uS/cm	SM2510 B	97	90-110		QCS	
IC05_240910A	0	CHLORIDE	6.45	6	mg/L	300.0	108	90-110		QCS	
	0	SULFATE	32.5	30	mg/L	300.0	108	90-110		QCS	
	0	FLUORIDE	4.07	4	mg/L	300.0	102	90-110		QCS	
	0	NITRATE-N	5.96	6	mg/L	300.0	99	90-110		QCS	
	0	NITRITE-N	6.4	6	mg/L	300.0	107	90-110		QCS	
	0	TOTAL NITRATE+NITRITE as N	12.36	12	mg/L	300.0	103	90-110		QCS	
TDS_240912	0	TOTAL DISSOLVED SOLIDS (TDS)	478	500	mg/L	SM2540 C	96	80-120		QCS	
	0	TOTAL DISSOLVED SOLIDS (TDS)	486	500	mg/L	SM2540 C	97	80-120		QCS	
TURB_240910	0	TURBIDITY	1.00	1.00	NTU	180.1	100	90-110		QCS	

*Notation:
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ANALYTICAL

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Reference Number: **24-10720**
Report Date: 10/24/2024

Duplicate

Batch/CAS	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Comments
150.1_240912									
E-10139	52357	HYDROGEN ION (pH)	8.04	8.05	pH Units	**0.1**	0-50		
1677_240917									
57-12-5	15009	CYANIDE	ND	ND	mg/L	**NA**	0-20	IM	
57-12-5	52463	CYANIDE	ND	ND	mg/L	**NA**	0-20		
200.7_240916A5									
E-11778	51061	HARDNESS	227	226	mg/L	**0.4**	0-20		
7439-89-6	51061	IRON	0.60	0.58	mg/L	**3.4**	0-20		
E-11778	51294	HARDNESS	ND	ND	mg CaCO3/L	**NA**	0-20		
7429-90-5	51294	ALUMINUM	ND	ND	mg/L	**NA**	0-20		
7440-42-8	51294	BORON	ND	ND	mg/L	**NA**	0-20		
7440-70-2	51294	CALCIUM	ND	ND	mg/L	**NA**	0-20		
7439-89-6	51294	IRON	ND	ND	mg/L	**NA**	0-20		
7439-95-4	51294	MAGNESIUM	0.7	0.7	mg/L	**0.0**	0-20		
7440-09-7	51294	POTASSIUM	9.1	9.0	mg/L	**1.1**	0-20		
7440-23-5	51294	SODIUM	2.0	2.0	mg/L	**0.0**	0-20		
E-11778	51419	HARDNESS	173	173	mg/L	**0.0**	0-20		
7439-89-6	51419	IRON	0.13	0.14	mg/L	**7.4**	0-20		
7440-23-5	51541	SODIUM	3.4	3.4	mg/L	**0.0**	0-20		
7439-89-6	51895	IRON	0.004	0.004	mg/L	**0.0**	0-20		
7439-89-6	51900	IRON	0.001	0.001	mg/L	**0.0**	0-20		
7439-89-6	51905	IRON	0.002	0.002	mg/L	**0.0**	0-20		
7439-89-6	51913	IRON	10.7	10.8	mg/L	**0.9**	0-20		
7439-89-6	51918	IRON	0.24	0.24	mg/L	**0.0**	0-20		
E-11778	51979	HARDNESS	111	112	mg/L	**0.9**	0-20		
7439-89-6	51979	IRON	8.26	8.37	mg/L	**1.3**	0-20		
7440-23-5	51979	SODIUM	5.8	5.8	mg/L	**0.0**	0-20		
7440-23-5	51980	SODIUM	10.7	10.7	mg/L	**0.0**	0-20		
E-11778	52092	HARDNESS	104	105	mg/L	**1.0**	0-20		
7439-89-6	52092	IRON	ND	ND	mg/L	**NA**	0-20		
7440-23-5	52396	SODIUM	51.5	52.5	mg/L	**1.9**	0-20		
7440-70-2	52427	CALCIUM	7.4	7.3	mg/L	**1.4**	0-20		
E-11778	52427	HARDNESS	27.1	26.9	mg/L	**0.7**	0-20		
E-11778	52482	HARDNESS	136	137	mg CaCO3/L	**0.7**	0-20		
7440-42-8	52482	BORON	ND	ND	mg/L	**NA**	0-20		
7440-70-2	52482	CALCIUM	36.1	36.1	mg/L	**0.0**	0-20		
7439-89-6	52482	IRON	14.9	15.1	mg/L	**1.3**	0-20		
7439-95-4	52482	MAGNESIUM	11.2	11.3	mg/L	**0.9**	0-20		
7440-09-7	52482	POTASSIUM	3.0	3.1	mg/L	**3.3**	0-20		
7440-23-5	52482	SODIUM	19.9	20.0	mg/L	**0.5**	0-20		
E-11778	52669	HARDNESS	ND	ND	mg/L	**NA**	0-20		
7439-89-6	52669	IRON	ND	ND	mg/L	**NA**	0-20		
200.8_240916A4									
7440-36-0	51259	ANTIMONY	ND	ND	mg/L	**NA**	0-20		
7440-38-2	51259	ARSENIC	ND	ND	mg/L	**NA**	0-20		
7440-39-3	51259	BARIUM	0.0753	0.0759	mg/L	**0.8**	0-20		
7440-41-7	51259	BERYLLIUM	ND	ND	mg/L	**NA**	0-20		

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NA = Indicates %RPD could not be calculated

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ANALYTICAL

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Reference Number: **24-10720**
Report Date: 10/24/2024

Duplicate

Batch/CAS	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Comments
7440-43-9	51259	CADMIUM	ND	ND	mg/L	**NA**	0-20		
7440-47-3	51259	CHROMIUM	0.0022	0.0023	mg/L	**4.4**	0-20		
7440-50-8	51259	COPPER	ND	ND	mg/L	**NA**	0-20		
7439-92-1	51259	LEAD	ND	ND	mg/L	**NA**	0-20		
7439-96-5	51259	MANGANESE	ND	ND	mg/L	**NA**	0-20		
7440-02-0	51259	NICKEL	0.0024	0.0025	mg/L	**4.1**	0-20		
7782-49-2	51259	SELENIUM	ND	ND	mg/L	**NA**	0-20		
7440-22-4	51259	SILVER	ND	ND	mg/L	**NA**	0-20		
7440-28-0	51259	THALLIUM	ND	ND	mg/L	**NA**	0-20		
7440-61-1	51259	URANIUM	ND	ND	mg/L	**NA**	0-20		
7440-66-6	51259	ZINC	ND	ND	mg/L	**NA**	0-20		
7440-36-0	52054	ANTIMONY	ND	ND	mg/L	**NA**	0-20		
7440-38-2	52054	ARSENIC	0.0029	0.0029	mg/L	**0.0**	0-20		
7440-39-3	52054	BARIUM	0.0283	0.0282	mg/L	**0.4**	0-20		
7440-41-7	52054	BERYLLIUM	ND	ND	mg/L	**NA**	0-20		
7440-43-9	52054	CADMIUM	ND	ND	mg/L	**NA**	0-20		
7440-47-3	52054	CHROMIUM	0.0015	0.0015	mg/L	**0.0**	0-20		
7440-50-8	52054	COPPER	ND	ND	mg/L	**NA**	0-20		
7439-92-1	52054	LEAD	ND	ND	mg/L	**NA**	0-20		
7439-96-5	52054	MANGANESE	ND	ND	mg/L	**NA**	0-20		
7440-02-0	52054	NICKEL	ND	ND	mg/L	**NA**	0-20		
7782-49-2	52054	SELENIUM	ND	ND	mg/L	**NA**	0-20		
7440-22-4	52054	SILVER	ND	ND	mg/L	**NA**	0-20		
7440-28-0	52054	THALLIUM	ND	ND	mg/L	**NA**	0-20		
7440-66-6	52054	ZINC	0.005	0.005	mg/L	**0.0**	0-20		
7440-38-2	52411	ARSENIC	0.0028	0.0028	mg/L	**0.0**	0-20		
7440-38-2	52504	ARSENIC	ND	ND	mg/L	**NA**	0-20		
7440-38-2	52839	ARSENIC	0.0030	0.0030	mg/L	**0.0**	0-20		
300.1_240916A									
15541-45-4	51824	BROMATE	ND	ND	mg/L	**NA**	0-20		
24959-67-9	51824	BROMIDE	ND	ND	mg/L	**NA**	0-20		
7758-19-2	51824	CHLORITE	ND	ND	mg/L	**NA**	0-20		
15541-45-4	52357	BROMATE	ND	ND	mg/L	**NA**	0-20		
24959-67-9	52357	BROMIDE	0.0280	0.0280	mg/L	**0.0**	0-20		
7758-19-2	52357	CHLORITE	ND	ND	mg/L	**NA**	0-20		
552_240918									
631-64-1	20286	DIBROMOACETIC ACID	ND	ND	ug/L	**NA**	0-30		
79-43-6	20286	DICHLOROACETIC ACID	ND	ND	ug/L	**NA**	0-30		
NA	20286	HAA(5)	ND	ND	ug/L	**NA**	0-30		
79-08-3	20286	MONOBROMOACETIC ACID	ND	ND	ug/L	**NA**	0-30		
79-11-8	20286	MONOCHLOROACETIC ACID	ND	ND	ug/L	**NA**	0-30		
76-03-9	20286	TRICHLOROACETIC ACID	ND	ND	ug/L	**NA**	0-30		
alk_240917									
E-14506	15009	ALKALINITY	102	102	mg CaCO3/L	**0.0**	0-20		
E-14506	51274	ALKALINITY	113	112	mg CaCO3/L	**0.9**	0-20		
CL_240910A									
	51271	CHLORAMINES TOTAL	ND	ND	mg/L	**NA**	0-20		

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EDGE ANALYTICAL

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Reference Number: **24-10720**
Report Date: 10/24/2024

Duplicate

Batch/CAS	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Comments
7782-50-5	51271	FREE CHLORINE RESIDUAL	ND	ND	mg/L	**NA**	0-20		
COLOR_240910									
E-11712	20287	COLOR	ND	ND	COLOR	**NA**	0-20		
E-11712	51271	COLOR	ND	ND	COLOR	**NA**	0-20		
EC_240911R									
E-10184	20285	ELECTRICAL CONDUCTIVITY	161	160	uS/cm	**0.6**	0-20		
E-10184	51274	ELECTRICAL CONDUCTIVITY	231	230	uS/cm	**0.4**	0-20		
E-10184	51295	ELECTRICAL CONDUCTIVITY	ND	ND	uS/cm	**NA**	0-20		
E-10184	51416	ELECTRICAL CONDUCTIVITY	721	723	uS/cm	**0.3**	0-20		
IC05_240910A									
16887-00-6	51259	CHLORIDE	23.8	23.8	mg/L	**0.0**	0-20		
16984-48-8	51259	FLUORIDE	0.16	0.16	mg/L	**0.0**	0-20		
14797-55-8	51259	NITRATE-N	0.25	0.25	mg/L	**0.0**	0-20		
14797-65-0	51259	NITRITE-N	ND	ND	mg/L	**NA**	0-20		
14808-79-8	51259	SULFATE	41.5	41.5	mg/L	**0.0**	0-20		
E-10128	51259	TOTAL NITRATE+NITRITE as N	0.25	0.25	mg/L	**0.0**	0-20		
16887-00-6	51300	CHLORIDE	0.3	0.3	mg/L	**0.0**	0-20		
16984-48-8	51300	FLUORIDE	ND	ND	mg/L	**NA**	0-20		
14797-55-8	51300	NITRATE-N	ND	ND	mg/L	**NA**	0-20		
14797-65-0	51300	NITRITE-N	ND	ND	mg/L	**NA**	0-20		
14808-79-8	51300	SULFATE	ND	ND	mg/L	**NA**	0-20		
E-10128	51300	TOTAL NITRATE+NITRITE as N	ND	ND	mg/L	**NA**	0-20		
16887-00-6	52239	CHLORIDE	21.2	21.1	mg/L	**0.5**	0-20		
16984-48-8	52239	FLUORIDE	0.20	0.20	mg/L	**0.0**	0-20		
14797-55-8	52239	NITRATE-N	ND	ND	mg/L	**NA**	0-20		
14797-65-0	52239	NITRITE-N	ND	ND	mg/L	**NA**	0-20		
14808-79-8	52239	SULFATE	13.6	13.6	mg/L	**0.0**	0-20		
E-10128	52239	TOTAL NITRATE+NITRITE as N	ND	ND	mg/L	**NA**	0-20		
ODOR_240910									
E-11734	20285	ODOR	ND	ND	TON	**NA**	0-20		
Taste_240916									
NA	15010	TASTE	ND	ND	FTN	**NA**	0-10		
NA	51295	TASTE	ND	ND	FTN	**NA**	0-10		
TDS_240912									
E-10173	51408	TOTAL DISSOLVED SOLIDS (TDS)	96	96	mg/L	**0.0**	0-5		
E-10173	52357	TOTAL DISSOLVED SOLIDS (TDS)	240	238	mg/L	**0.8**	0-5		
TURB_240910									
E-10617	51271	TURBIDITY	ND	ND	NTU	**NA**	0-20		
E-10617	52001	TURBIDITY	0.30	0.30	NTU	**0.0**	0-20		

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ANALYTICAL

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Reference Number: **24-10720**
Report Date: 10/24/2024

Laboratory Fortified Matrix (MS)

Batch/CAS	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits*	%RPD	Limits*	QC Qualifier	Comments
1677_240917														
57-12-5	15009	CYANIDE	ND	0.045	0.048	0.050	mg/L	**90**	**96**	70-130	**6.5**	0-20		
57-12-5	52463	CYANIDE	ND	0.047	0.050	0.050	mg/L	**94**	**100**	70-130	**6.2**	0-20		
200.7_240916A5														
E-11778	51061	HARDNESS	227	302	299	86.0	mg/L	**87**	**84**	70-130	**4.1**	0-20		
7439-89-6	51061	IRON	0.60	1.05	1.06	0.50	mg/L	**90**	**92**	70-130	**2.2**	0-20		
E-11778	51294	HARDNESS	ND	90.1	88.8	86.0	mg CaCO3/L	**105**	**103**	70-130	**1.5**	0-20		
7429-90-5	51294	ALUMINUM	ND	0.51	0.50	0.50	mg/L	**102**	**100**	70-130	**2.0**	0-20		
7440-42-8	51294	BORON	ND	0.50	0.51	0.50	mg/L	**100**	**102**	70-130	**2.0**	0-20		
7440-70-2	51294	CALCIUM	ND	13.5	13.3	13.0	mg/L	**104**	**102**	70-130	**1.5**	0-20		
7439-89-6	51294	IRON	ND	0.50	0.50	0.50	mg/L	**100**	**100**	70-130	**0.0**	0-20		
7439-95-4	51294	MAGNESIUM	0.7	13.7	13.5	13.0	mg/L	**100**	**98**	70-130	**1.6**	0-20		
7440-09-7	51294	POTASSIUM	9.1	26.2	25.9	17.5	mg/L	**98**	**96**	70-130	**1.8**	0-20		
7440-23-5	51294	SODIUM	2.0	15.1	14.8	13.0	mg/L	**101**	**98**	70-130	**2.3**	0-20		
E-11778	51419	HARDNESS	173	249	248	86.0	mg/L	**88**	**87**	70-130	**1.3**	0-20		
7439-89-6	51419	IRON	0.13	0.62	0.62	0.50	mg/L	**98**	**98**	70-130	**0.0**	0-20		
7440-23-5	51541	SODIUM	3.4	16.3	15.5	13.0	mg/L	**99**	**93**	70-130	**6.4**	0-20		
7439-89-6	51895	IRON	0.004	0.50	0.51	0.50	mg/L	**99**	**101**	70-130	**2.0**	0-20		
7439-89-6	51900	IRON	0.001	0.51	0.50	0.50	mg/L	**102**	**100**	70-130	**2.0**	0-20		
7439-89-6	51905	IRON	0.002	0.50	0.50	0.50	mg/L	**100**	**100**	70-130	**0.0**	0-20		
7439-89-6	51913	IRON	10.7	10.8	10.8	0.50	mg/L	**20**	**20**	70-130	**0.0**	0-20	IS	
7439-89-6	51918	IRON	0.24	0.72	0.73	0.50	mg/L	**96**	**98**	70-130	**2.1**	0-20		
E-11778	51979	HARDNESS	111	193	192	86.0	mg/L	**95**	**94**	70-130	**1.2**	0-20		
7439-89-6	51979	IRON	8.26	8.46	8.42	0.50	mg/L	**40**	**32**	70-130	**22.2**	0-20	IS	
7440-23-5	51979	SODIUM	5.8	18.5	18.5	13.0	mg/L	**98**	**98**	70-130	**0.0**	0-20		
7440-23-5	51980	SODIUM	10.7	23.0	23.2	13.0	mg/L	**95**	**96**	70-130	**1.6**	0-20		
E-11778	52092	HARDNESS	104	187	187	86.0	mg/L	**97**	**97**	70-130	**0.0**	0-20		
7439-89-6	52092	IRON	ND	0.49	0.49	0.50	mg/L	**98**	**98**	70-130	**0.0**	0-20		
7440-23-5	52396	SODIUM	51.5	64.7	63.8	13.0	mg/L	**102**	**95**	70-130	**7.1**	0-20		
7440-70-2	52427	CALCIUM	7.4	20.4	20.5	13.0	mg/L	**100**	**101**	70-130	**0.8**	0-20		
E-11778	52427	HARDNESS	27.1	113	113	86.0	mg/L	**100**	**100**	70-130	**0.0**	0-20		
E-11778	52482	HARDNESS	136	218	217	86.0	mg CaCO3/L	**95**	**94**	70-130	**1.2**	0-20		
7440-42-8	52482	BORON	ND	0.54	0.53	0.50	mg/L	**108**	**106**	70-130	**1.9**	0-20		
7440-70-2	52482	CALCIUM	36.1	48.2	48.0	13.0	mg/L	**93**	**92**	70-130	**1.7**	0-20		
7439-89-6	52482	IRON	14.9	15.0	15.0	0.50	mg/L	**20**	**20**	70-130	**0.0**	0-20	IS	
7439-95-4	52482	MAGNESIUM	11.2	23.6	23.6	13.0	mg/L	**95**	**95**	70-130	**0.0**	0-20		
7440-09-7	52482	POTASSIUM	3.0	20.7	20.8	17.5	mg/L	**101**	**102**	70-130	**0.6**	0-20		
7440-23-5	52482	SODIUM	19.9	32.1	32.2	13.0	mg/L	**94**	**95**	70-130	**0.8**	0-20		
E-11778	52669	HARDNESS	ND	87.3	86.9	86.0	mg/L	**102**	**101**	70-130	**0.5**	0-20		
7439-89-6	52669	IRON	ND	0.50	0.51	0.50	mg/L	**100**	**102**	70-130	**2.0**	0-20		
200.8_240916A4														
7440-36-0	51259	ANTIMONY	ND	0.0097		0.010	mg/L	**97**		70-130	**NA**	0-20		
7440-38-2	51259	ARSENIC	ND	0.0107		0.010	mg/L	**107**		70-130	**NA**	0-20		
7440-39-3	51259	BARIUM	0.0753	0.0837		0.010	mg/L	**84**		70-130	**NA**	0-20		
7440-41-7	51259	BERYLLIUM	ND	0.0095		0.010	mg/L	**95**		70-130	**NA**	0-20		
7440-43-9	51259	CADMIUM	ND	0.0091		0.010	mg/L	**91**		70-130	**NA**	0-20		

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ANALYTICAL

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Reference Number: **24-10720**
Report Date: 10/24/2024

Laboratory Fortified Matrix (MS)

Batch/CAS	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits*	%RPD	Limits*	QC Qualifier	Comments
7440-47-3	51259	CHROMIUM	0.0022	0.0117		0.010	mg/L	**95**		70-130	**NA**	0-20		
7440-50-8	51259	COPPER	ND	0.0114		0.010	mg/L	**114**		70-130	**NA**	0-20		
7439-92-1	51259	LEAD	ND	0.0099		0.010	mg/L	**99**		70-130	**NA**	0-20		
7439-96-5	51259	MANGANESE	ND	0.0091		0.010	mg/L	**91**		70-130	**NA**	0-20		
7440-02-0	51259	NICKEL	0.0024	0.0112		0.010	mg/L	**88**		70-130	**NA**	0-20		
7782-49-2	51259	SELENIUM	ND	0.0106		0.010	mg/L	**106**		70-130	**NA**	0-20		
7440-22-4	51259	SILVER	ND	0.0080		0.010	mg/L	**80**		70-130	**NA**	0-20		
7440-28-0	51259	THALLIUM	ND	0.0103		0.010	mg/L	**103**		70-130	**NA**	0-20		
7440-61-1	51259	URANIUM	ND	0.0110		0.010	mg/L	**110**		70-130	**NA**	0-20		
7440-66-6	51259	ZINC	ND	0.0093		0.010	mg/L	**93**		70-130	**NA**	0-20		
7440-36-0	52054	ANTIMONY	ND	0.0096		0.010	mg/L	**96**		70-130	**NA**	0-20		
7440-38-2	52054	ARSENIC	0.0029	0.0133		0.010	mg/L	**104**		70-130	**NA**	0-20		
7440-39-3	52054	BARIUM	0.0283	0.0375		0.010	mg/L	**92**		70-130	**NA**	0-20		
7440-41-7	52054	BERYLLIUM	ND	0.0099		0.010	mg/L	**99**		70-130	**NA**	0-20		
7440-43-9	52054	CADMIUM	ND	0.0093		0.010	mg/L	**93**		70-130	**NA**	0-20		
7440-47-3	52054	CHROMIUM	0.0015	0.0098		0.010	mg/L	**83**		70-130	**NA**	0-20		
7440-50-8	52054	COPPER	ND	0.0099		0.010	mg/L	**99**		70-130	**NA**	0-20		
7439-92-1	52054	LEAD	ND	0.0098		0.010	mg/L	**98**		70-130	**NA**	0-20		
7439-96-5	52054	MANGANESE	ND	0.0080		0.010	mg/L	**80**		70-130	**NA**	0-20		
7440-02-0	52054	NICKEL	ND	0.0086		0.010	mg/L	**86**		70-130	**NA**	0-20		
7782-49-2	52054	SELENIUM	ND	0.0106		0.010	mg/L	**106**		70-130	**NA**	0-20		
7440-22-4	52054	SILVER	ND	0.0090		0.010	mg/L	**90**		70-130	**NA**	0-20		
7440-28-0	52054	THALLIUM	ND	0.0102		0.010	mg/L	**102**		70-130	**NA**	0-20		
7440-66-6	52054	ZINC	0.005	0.0142		0.010	mg/L	**92**		70-130	**NA**	0-20		
7440-38-2	52411	ARSENIC	0.0028	0.0132		0.010	mg/L	**104**		70-130	**NA**	0-20		
7440-38-2	52504	ARSENIC	ND	0.0109		0.010	mg/L	**109**		70-130	**NA**	0-20		
7440-38-2	52839	ARSENIC	0.0030	0.0135		0.010	mg/L	**105**		70-130	**NA**	0-20		
200.8_240924HG5														
7439-97-6	51285	MERCURY	ND	0.00045	0.00046	0.0005	mg/L	**90**	**92**	70-130	**2.2**	0-0		
7439-97-6	52396	MERCURY	ND	0.00044	0.00046	0.0005	mg/L	**88**	**92**	70-130	**4.4**	0-0		
7439-97-6	53171	MERCURY	ND	0.00044	0.00044	0.0005	mg/L	**88**	**88**	70-130	**0.0**	0-0		
7439-97-6	53578	MERCURY	ND	0.00044	0.00045	0.0005	mg/L	**88**	**90**	70-130	**2.2**	0-0		
7439-97-6	53744	MERCURY	ND	0.00046	0.00046	0.0005	mg/L	**92**	**92**	70-130	**0.0**	0-0		
7439-97-6	54151	MERCURY	ND	0.00044	0.00044	0.0005	mg/L	**88**	**88**	70-130	**0.0**	0-0		
7439-97-6	54338	MERCURY	ND	0.00041	0.00041	0.0005	mg/L	**82**	**82**	70-130	**0.0**	0-0		
7439-97-6	54552	MERCURY	ND	0.00045	0.00044	0.0005	mg/L	**90**	**88**	70-130	**2.2**	0-0		
7439-97-6	54767	MERCURY	ND	0.00043	0.00044	0.0005	mg/L	**86**	**88**	70-130	**2.3**	0-0		
7439-97-6	55102	MERCURY	ND	0.00047	0.00047	0.0005	mg/L	**94**	**94**	70-130	**0.0**	0-0		
300.1_240916A														
15541-45-4	51824	BROMATE	ND	0.0093		0.010	mg/L	**93**		75-125	**NA**	0-20		
24959-67-9	51824	BROMIDE	ND	0.0114		0.010	mg/L	**114**		75-125	**NA**	0-20		
7758-19-2	51824	CHLORITE	ND	0.0112		0.010	mg/L	**112**		75-125	**NA**	0-20		
15541-45-4	52357	BROMATE	ND	0.0097		0.010	mg/L	**97**		75-125	**NA**	0-20		
24959-67-9	52357	BROMIDE	0.0280	0.0382		0.010	mg/L	**102**		75-125	**NA**	0-20		
7758-19-2	52357	CHLORITE	ND	0.0097		0.010	mg/L	**97**		75-125	**NA**	0-20		
504_240912														

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ANALYTICAL

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Reference Number: **24-10720**
Report Date: 10/24/2024

Laboratory Fortified Matrix (MS)

Batch/CAS	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits*	%RPD	Limits*	QC Qualifier	Comments
106-93-4	51285	1,2 - DIBROMOETHANE (EDB)	ND	0.22		0.25	ug/L	**88**	**NA**	65-135	**NA**	0-20		
96-18-4	51285	1,2,3 - TRICHLOROPROPANE	ND	0.20		0.25	ug/L	**80**	**NA**	65-135	**NA**	0-20		
96-12-8	51285	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	ND	0.22		0.25	ug/L	**88**	**NA**	65-135	**NA**	0-20		
515_240918														
94-75-7	20286	2,4 - D	ND	2.35	2.31	2.5	ug/L	**94**	**92**	70-130	**1.7**	0-20		
93-72-1	20286	2,4,5 - TP (SILVEX)	ND	2.38	2.35	2.5	ug/L	**95**	**94**	70-130	**1.3**	0-20		
75-99-0	20286	DALAPON	ND	2.30	2.31	2.5	ug/L	**92**	**92**	70-130	**0.4**	0-20		
1918-00-9	20286	DICAMBA	ND	2.27	2.23	2.5	ug/L	**91**	**89**	70-130	**1.8**	0-20		
88-85-7	20286	DINOSEB	ND	2.35	2.35	2.5	ug/L	**94**	**94**	70-130	**0.0**	0-20		
87-86-5	20286	PENTACHLOROPHENOL	ND	2.38	2.35	2.5	ug/L	**95**	**94**	70-130	**1.3**	0-20		
1918-02-1	20286	PICLORAM	ND	2.42	2.42	2.5	ug/L	**97**	**97**	70-130	**0.0**	0-20		
525_240917														
15972-60-8	51295	ALACHLOR	ND	2.07		2	ug/L	**104**	**NA**	70-130	**NA**	0-20		
309-00-2	51295	ALDRIN	ND	0.91		1	ug/L	**91**	**NA**	70-130	**NA**	0-20		
1912-24-9	51295	ATRAZINE	ND	2.33		2	ug/L	**117**	**NA**	70-130	**NA**	0-20		
23184-66-9	51295	BUTACHLOR	ND	0.99		1	ug/L	**99**	**NA**	70-130	**NA**	0-20		
103-23-1	51295	DI(2-ETHYLHEXYL)-ADIPATE	ND	0.95		1	ug/L	**95**	**NA**	70-130	**NA**	0-20		
117-81-7	51295	DI(2-ETHYLHEXYL)-PHTHALATE	ND	1.03		1	ug/L	**103**	**NA**	70-130	**NA**	0-20		
60-57-1	51295	DIELDRIN	ND	1.07		1	ug/L	**107**	**NA**	70-130	**NA**	0-20		
1024-57-3	51295	HEPTACHLOR EPOXIDE "B"	ND	0.93		1	ug/L	**93**	**NA**	70-130	**NA**	0-20		
51218-45-2	51295	METOLACHLOR	ND	1.01		1	ug/L	**101**	**NA**	70-130	**NA**	0-20		
21087-64-9	51295	METRIBUZIN	ND	0.73		1	ug/L	**73**	**NA**	70-130	**NA**	0-20		
1918-16-7	51295	PROPACHLOR	ND	1.09		1	ug/L	**109**	**NA**	70-130	**NA**	0-20		
122-34-9	51295	SIMAZINE	ND	0.93		1	ug/L	**93**	**NA**	70-130	**NA**	0-20		
531_241002														
16655-82-6	51274	3-HYDROXYCARBOFURAN	ND	19.1	19.5	20	ug/L	**96**	**98**	70-130	**2.1**	0-20		
116-06-3	51274	ALDICARB	ND	18.6	19.1	20	ug/L	**93**	**96**	70-130	**2.7**	0-20		
1646-88-4	51274	ALDICARB SULFONE	ND	17.3	17.8	20	ug/L	**87**	**89**	70-130	**2.8**	0-20		
1646-87-3	51274	ALDICARB SULFOXIDE	ND	16.5	17.2	20	ug/L	**83**	**86**	70-130	**4.2**	0-20		
63-25-2	51274	CARBARYL	ND	20.0	20.4	20	ug/L	**100**	**102**	70-130	**2.0**	0-20		
1563-66-2	51274	CARBOFURAN	ND	20.1	20.6	20	ug/L	**101**	**103**	70-130	**2.5**	0-20		
16752-77-5	51274	METHOMYL	ND	17.7	18.1	20	ug/L	**89**	**91**	70-130	**2.2**	0-20		
23135-22-0	51274	OXAMYL (VYDATE)	ND	17.8	18.2	20	ug/L	**89**	**91**	70-130	**2.2**	0-20		
547_240926														
1071-83-6	49238	GLYPHOSATE	ND	19.6		20	ug/L	**98**	**NA**	81-126	**NA**	0-20		
1071-83-6	52357	GLYPHOSATE	ND	0.0407		0.04	mg/L	**102**	**NA**	81-126	**NA**	0-20		
548_240916														
145-73-3	51271	ENDOTHALL	ND	2.72		5	ug/L	**54**	**NA**	50-150	**NA**	0-20		
145-73-3	51295	ENDOTHALL	ND	2.68		5	ug/L	**54**	**NA**	50-150	**NA**	0-20		
549_240916														
85-00-7	51294	DIQUAT	ND	15.4		20	ug/L	**77**	**NA**	70-130	**NA**	0-20		
85-00-7	52357	DIQUAT	ND	0.0169		0.020	mg/L	**85**	**NA**	70-130	**NA**	0-20		
552_240918														
631-64-1	20285	DIBROMOACETIC ACID	ND	13.5		12.5	ug/L	**108**	**NA**	70-130	**NA**	0-20		
79-43-6	20285	DICHLOROACETIC ACID	ND	13.3		12.5	ug/L	**106**	**NA**	70-130	**NA**	0-20		

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ANALYTICAL

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Reference Number: **24-10720**
Report Date: 10/24/2024

Laboratory Fortified Matrix (MS)

Batch/CAS	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits*	%RPD	Limits*	QC Qualifier	Comments
79-08-3	20285	MONOBROMOACETIC ACID	ND	13.7		12.5	ug/L	**110**	**NA**	70-130	**NA**	0-20		
79-11-8	20285	MONOCHLOROACETIC ACID	ND	13.5		12.5	ug/L	**108**	**NA**	70-130	**NA**	0-20		
76-03-9	20285	TRICHLOROACETIC ACID	ND	13.9		12.5	ug/L	**111**	**NA**	70-130	**NA**	0-20		
CL_240910A														
7782-50-5	51271	FREE CHLORINE RESIDUAL	ND	0.51	0.54	0.56	mg/L	**91**	**96**	80-120	**5.7**	0-20		
IC05_240910A														
16887-00-6	51259	CHLORIDE	23.8	24.3		1.0	mg/L	**50**		90-110	**NA**	0-20	IS	
16984-48-8	51259	FLUORIDE	0.16	1.09		1.00	mg/L	**93**		90-110	**NA**	0-20		
14797-55-8	51259	NITRATE-N	0.25	1.20		1.00	mg/L	**95**		90-110	**NA**	0-20		
14797-65-0	51259	NITRITE-N	ND	0.90		1.00	mg/L	**90**		90-110	**NA**	0-20		
14808-79-8	51259	SULFATE	41.5	42.7		2.0	mg/L	**60**		90-110	**NA**	0-20	IS	
E-10128	51259	TOTAL NITRATE+NITRITE as N	0.25	2.10		2.00	mg/L	**93**		90-110	**NA**	0-20		
16887-00-6	51300	CHLORIDE	0.3	1.3		1.0	mg/L	**100**		90-110	**NA**	0-20		
16984-48-8	51300	FLUORIDE	ND	0.97		1.00	mg/L	**97**		90-110	**NA**	0-20		
14797-55-8	51300	NITRATE-N	ND	1.00		1.00	mg/L	**100**		90-110	**NA**	0-20		
14797-65-0	51300	NITRITE-N	ND	0.95		1.00	mg/L	**95**		90-110	**NA**	0-20		
14808-79-8	51300	SULFATE	ND	1.9		2.0	mg/L	**95**		90-110	**NA**	0-20		
E-10128	51300	TOTAL NITRATE+NITRITE as N	ND	1.95		2.00	mg/L	**98**		90-110	**NA**	0-20		
16887-00-6	52239	CHLORIDE	21.2	21.7		1.0	mg/L	**50**		90-110	**NA**	0-20	IS	
16984-48-8	52239	FLUORIDE	0.20	1.13		1.00	mg/L	**93**		90-110	**NA**	0-20		
14797-55-8	52239	NITRATE-N	ND	0.96		1.00	mg/L	**96**		90-110	**NA**	0-20		
14797-65-0	52239	NITRITE-N	ND	0.93		1.00	mg/L	**93**		90-110	**NA**	0-20		
14808-79-8	52239	SULFATE	13.6	15.5		2.0	mg/L	**95**		90-110	**NA**	0-20		
E-10128	52239	TOTAL NITRATE+NITRITE as N	ND	1.89		2.00	mg/L	**95**		90-110	**NA**	0-20		

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Qualifier Definitions

Reference Number: 24-10720
Report Date: 10/24/24

Qualifier	Definition
AH	Result was high for this analyte in the end standard, indicating an increase in detector response. No detection of this analyte was found in samples, therefore no further action taken.
H1	Sample analysis performed past holding time.
H3	Sample was received and analyzed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
HR	High QCS recovery due to increased detector response No sample dectections, therefore, no further action taken for this analysis set.
IM	Matrix induced bias assumed
IS	The ratio of the spike concentration to sample background was too low to meet performance criteria
LR	Low recovery can not be accounted for. However, there is adequate sensitivity to detect the compound at the MRL. No sample detections so no further action for this analysis batch.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

CHAIN OF CUSTODY RECORD 24-10720

20267

480-043-30

INVOICE TO/SEND ORIGINAL REPORT TO:	CLIENT NAME TO APPEAR ON REPORT:	LAB USED:	ORDER #
Compliance Designs 159 South Stark Highway Weare, New Hampshire 03281 Tel (603) 273-0954 Fax (603) 695-7318	Menehune Water ~~99-117 Waiua Place~~ Aiea HI 96701	Edge Analytical	60502
		TURNAROUND TIME: STND/BUT ASAP	PWS # :

PROJECT NAME:	PROJECT #:
2024 Annual	480

SAMPLE NUMBER	DATE & TIME OF SAMPLE COLLECTION	SAMPLE DESCRIPTION AND PRODUCTION CODE	NUMBER OF CONTAINERS	ANALYSIS REQUIRED
480-043		Purified Finished Product		50 State Battery With TCP (504) (NO PFAS)
Sample and Ship Same Day		Produced From: Municipal Source		TC, HPC
		Size: **If multiple shipments indicate shipment __ of ___**		
LAB, PLEASE INDICATE DATE AND TIME BOTTLES OPENED (SAMPLE DATE & TIME)		Prod Code: Line:		
		trip blanks	2	

SAMPLER'S SIGNATURE:	PLEASE PRINT BELOW:	COMPLIANCE CRITERIA:
SIGN HERE	PRINT NAME HERE	50 State Compliance

RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	NOTES TO LABORATORY
Sign Here	Date & Time			

CHAIN OF CUSTODY RECORD 24-10720

20287

480-043-30

INVOICE TO/SEND ORIGINAL REPORT TO:	CLIENT NAME TO APPEAR ON REPORT:	LAB USED:	ORDER #
Compliance Designs 159 South Stark Highway Weare, New Hampshire 03281 Tel (603) 273-0954 Fax (603) 695-7318	Menehune Water 99-117 Waiua Place Aiea HI 96701	Edge Analytical	60502
		TURNAROUND TIME: STND/BUT ASAP	PWS #:

PROJECT NAME:	PROJECT #:
2024 Annual	480

SAMPLE NUMBER	DATE & TIME OF SAMPLE COLLECTION	SAMPLE DESCRIPTION AND PRODUCTION CODE	NUMBER OF CONTAINERS	ANALYSIS REQUIRED
480-043	9.9.24	Purified Finished Product ✓	3 bbl	50 State Battery With TCP (504) (NO PFAS)
Sample and SHIP SAMEDAY	6:30 AM	Produced From: Municipal Source		TC, HPC
		Size: **If multiple shipments indicate shipment 1 of 3**		
LAB, PLEASE INDICATE DATE AND TIME BOTTLES OPENED (SAMPLE DATE & TIME)		Prod Code: Line:		
		trip blanks	2	

SAMPLER'S SIGNATURE:	PLEASE PRINT BELOW:	COMPLIANCE CRITERIA:
SIGN HERE	CESAR JAVIER	50 State Compliance

RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	NOTES TO LABORATORY
Sign Here	Date & Time			
		FedEx REC8 9/10/24 1111	MM 10:3	

CHAIN OF CUSTODY RECORD 24-10720 20287

480-043-30

INVOICE TO/SEND	ORIGINAL REPORT TO:	CLIENT NAME TO APPEAR ON REPORT:	LAB USED:	ORDER #
Compliance Designs	159 South Stark Highway Weare, New Hampshire 03281 Tel (603) 273-0954 Fax (603) 695-7318	Menehune Water 99-117 Waiua Place Aiea HI 96701	Edge Analytical	60502
			TURNAROUND TIME: STND/BUT ASAP	PWS #:

PROJECT NAME:	PROJECT #:
2024 Annual	480

SAMPLE NUMBER	DATE & TIME OF SAMPLE COLLECTION	SAMPLE DESCRIPTION AND PRODUCTION CODE	NUMBER OF CONTAINERS	ANALYSIS REQUIRED
480-043	9.9.24	Purified Finished Product ✓	39 bbb	50 State Battery With TCP (504) (NO PFAS)
Sample and SHIP SAMEDAY		Produced From: Municipal Source		TC, HPC
	6:00 AM	Size: **If multiple shipments indicate shipment 1 of 3**		
LAB, PLEASE INDICATE DATE AND TIME BOTTLES OPENED (SAMPLE DATE & TIME)		Prod Code: Line:		
		trip blanks	2	

SAMPLER'S SIGNATURE: SIGN HERE

PLEASE PRINT BELOW: PRINT NAME HERE CESAR JAVIER

COMPLIANCE CRITERIA: 50 State Compliance

RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	NOTES TO LABORATORY
Sign Here	Date & Time			
		FedEx REC8 9/10/24 1111	MM 10.3	

EMSL Analytical, Inc.
200 Route 130 North Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order ID: 042418939
Customer ID: EDGA78
Customer PO:
Project ID:

Attn: Edge
Edge Analytical, Inc.
1620 South Walnut Street
Burlington, WA 98233

Phone: (360) 757-1400
Fax: (360) 757-1402
Received: 09/12/2024
Analyzed: 09/25/2024

Proj: 24-10720 - 50 State Product - 480-043

Test Report: Determination of Asbestos Structures >10µm in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm²)	Area Analyzed (mm²)	ASBESTOS Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
								MFL (million fibers per liter)	
24-20287 042418939-0001	9/18/2024 09:55 AM	25	1345	0.2709	None Detected	ND	0.20	<0.20	0.00 - 0.73

Collection Date/Time: *09/09/2024 09:00 AM*

Sample ozonated prior to analysis due to lab receipt time exceeding 48hr method hold time.

Bottle supplied by client.

Analyst(s)
Sarah Richey (1)

Samantha Rundstrom, Laboratory Manager
or Other Approved Signatory

Any questions please contact Samantha Rundstrom-Cruz.

Initial report from: 09/25/2024 12:18:34

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Data Reporting
Edge Analytical, Inc
1620 S Walnut Street
Burlington, Washington 98233-3231

Generated 9/24/2024 11:04:11 AM

JOB DESCRIPTION

24-10720

JOB NUMBER

380-112514-1

Eurofins Eaton Analytical Pomona
941 Corporate Center Drive
Pomona CA 91768-2642

See page two for job notes and contact information.

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 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 Eaton Analytical, LLC Project Manager.

Compliance Statement

1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.
5. Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. (DW,Water matrices)

Authorization

Generated
9/24/2024 11:04:11 AM

Authorized for release by
Anisha Zachariah, Project Manager
Anisha.Zachariah@et.eurofinsus.com
(626)386-1142

Table of Contents

Definitions/Glossary

Client: Edge Analytical, Inc
Project/Site: 24-10720

Job ID: 380-112514-1

Qualifiers

LCMS

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.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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

Job ID: 380-112514-1 — Eurofins Eaton Analytical Pomona

Job Narrative
380-112514-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 sample was received on 9/11/2024 10:10 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.5°C.

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

General Chemistry
Method 5540C: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: 24_20287 (380-112514-1).

Method 5540C: The following sample was analyzed outside of analytical holding time due to analyst receiving sample 9/12/14: 24_20287 (380-112514-1).

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

Detection Summary

Client: Edge Analytical, Inc
Project/Site: 24-10720

Job ID: 380-112514-1

Client Sample ID: 24_20287 **Lab Sample ID: 380-112514-1**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Edge Analytical, Inc
Project/Site: 24-10720

Job ID: 380-112514-1

Client Sample ID: 24_20287
Date Collected: 09/09/24 09:00
Date Received: 09/11/24 10:10

Lab Sample ID: 380-112514-1
Matrix: Water

Method: EPA 331.0 - Perchlorate (LC/MS/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.50		ug/L			09/12/24 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total (EPA 420.4)	ND		1.0		ug/L			09/16/24 19:20	1
Methylene Blue Active Substances (SM 5540C)	ND	H	0.10		mg/L			09/13/24 15:14	1

Client: Edge Analytical, Inc
Project/Site: 24-10720

Job ID: 380-112514-1

Method: 331.0 - Perchlorate (LC/MS/MS)

Lab Sample ID: MBL 380-108038/10
Matrix: Water
Analysis Batch: 108038

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

Analyte	MBL Result	MBL Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		0.50		ug/L			09/12/24 10:42	1

Lab Sample ID: LCS 380-108038/11
Matrix: Water
Analysis Batch: 108038

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perchlorate			34.3	34.9		ug/L		102	80 - 120		

Lab Sample ID: MRL 380-108038/1008
Matrix: Water
Analysis Batch: 108038

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Perchlorate			0.490	0.467	J	ug/L		95	50 - 150		

Lab Sample ID: 380-112515-J-1 MS
Matrix: Water
Analysis Batch: 108038

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Perchlorate	ND		20.0	20.1		ug/L		99	80 - 120		

Lab Sample ID: 380-112515-J-1 MSD
Matrix: Water
Analysis Batch: 108038

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perchlorate	ND		20.0	19.3		ug/L		95	80 - 120	4	20

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 380-108829/13
Matrix: Water
Analysis Batch: 108829

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		1.0		ug/L			09/16/24 18:17	1

Lab Sample ID: LCS 380-108829/43
Matrix: Water
Analysis Batch: 108829

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Phenols, Total			5.00	5.05		ug/L		101	90 - 110		

Method: 420.4 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCSD 380-108829/44
Matrix: Water
Analysis Batch: 108829

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
Phenols, Total			5.00	4.88		ug/L		98	90 - 110	3	20

Lab Sample ID: MRL 380-108829/14
Matrix: Water
Analysis Batch: 108829

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Phenols, Total			1.00	1.06		ug/L		106	50 - 150		

Lab Sample ID: 380-112514-1 MS
Matrix: Water
Analysis Batch: 108829

Client Sample ID: 24_20287
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Phenols, Total	ND		5.00	4.88		ug/L		98	80 - 120		

Lab Sample ID: 380-112514-1 MSD
Matrix: Water
Analysis Batch: 108829

Client Sample ID: 24_20287
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total	ND		5.00	5.18		ug/L		104	80 - 120	6	20

Method: SM 5540C - Methylene Blue Active Substances (MBAS)

Lab Sample ID: MBL 380-108296/2
Matrix: Water
Analysis Batch: 108296

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

Analyte	MBL Result	MBL Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methylene Blue Active Substances	ND		0.10		mg/L			09/13/24 15:14	1

Lab Sample ID: LCS 380-108296/1
Matrix: Water
Analysis Batch: 108296

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methylene Blue Active Substances			0.200	0.218		mg/L		109	90 - 110		

Lab Sample ID: LCSD 380-108296/12
Matrix: Water
Analysis Batch: 108296

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
Methylene Blue Active Substances			0.200	0.194		mg/L		97	90 - 110	12	20

Method: SM 5540C - Methylene Blue Active Substances (MBAS) (Continued)

Lab Sample ID: MRL 380-108296/3
Matrix: Water
Analysis Batch: 108296

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Methylene Blue Active Substances			0.100	0.115		mg/L		115	75 - 125		

Lab Sample ID: 380-112511-A-1 MS
Matrix: Water
Analysis Batch: 108296

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Methylene Blue Active Substances	ND	F1	0.200	0.280	F1	mg/L		140	80 - 120		

Lab Sample ID: 380-112511-A-1 MSD
Matrix: Water
Analysis Batch: 108296

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylene Blue Active Substances	ND	F1	0.200	0.280	F1	mg/L		140	80 - 120	0	20

QC Association Summary

Client: Edge Analytical, Inc
Project/Site: 24-10720

Job ID: 380-112514-1

LCMS

Analysis Batch: 108038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-112514-1	24_20287	Total/NA	Water	331.0	
MBL 380-108038/10	Method Blank	Total/NA	Water	331.0	
LCS 380-108038/11	Lab Control Sample	Total/NA	Water	331.0	
MRL 380-108038/1008	Lab Control Sample	Total/NA	Water	331.0	
380-112515-J-1 MS	Matrix Spike	Total/NA	Water	331.0	
380-112515-J-1 MSD	Matrix Spike Duplicate	Total/NA	Water	331.0	

General Chemistry

Analysis Batch: 108296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-112514-1	24_20287	Total/NA	Water	SM 5540C	
MBL 380-108296/2	Method Blank	Total/NA	Water	SM 5540C	
LCS 380-108296/1	Lab Control Sample	Total/NA	Water	SM 5540C	
LCSD 380-108296/12	Lab Control Sample Dup	Total/NA	Water	SM 5540C	
MRL 380-108296/3	Lab Control Sample	Total/NA	Water	SM 5540C	
380-112511-A-1 MS	Matrix Spike	Total/NA	Water	SM 5540C	
380-112511-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5540C	

Analysis Batch: 108829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-112514-1	24_20287	Total/NA	Water	420.4	
MB 380-108829/13	Method Blank	Total/NA	Water	420.4	
LCS 380-108829/43	Lab Control Sample	Total/NA	Water	420.4	
LCSD 380-108829/44	Lab Control Sample Dup	Total/NA	Water	420.4	
MRL 380-108829/14	Lab Control Sample	Total/NA	Water	420.4	
380-112514-1 MS	24_20287	Total/NA	Water	420.4	
380-112514-1 MSD	24_20287	Total/NA	Water	420.4	

Lab Chronicle

Client: Edge Analytical, Inc
Project/Site: 24-10720

Job ID: 380-112514-1

Client Sample ID: 24_20287
Date Collected: 09/09/24 09:00
Date Received: 09/11/24 10:10

Lab Sample ID: 380-112514-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	331.0		1	108038	UKDT	EA POM	09/12/24 12:28
Total/NA	Analysis	420.4		1	108829	LQ3M	EA POM	09/16/24 19:20
Total/NA	Analysis	SM 5540C		1	108296	MQP5	EA POM	09/13/24 15:14

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

Accreditation/Certification Summary

Client: Edge Analytical, Inc
Project/Site: 24-10720

Job ID: 380-112514-1

Laboratory: Eurofins Eaton Analytical Pomona

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0833	02-27-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
420.4		Water	Phenols, Total

California	State	2813	06-18-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
420.4		Water	Phenols, Total

Connecticut	State	PH-0107	03-31-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
420.4		Water	Phenols, Total

Hawaii	State	CA00006	01-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
420.4		Water	Phenols, Total

Massachusetts	State	M-CA006	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
420.4		Water	Phenols, Total
SM 5540C		Water	Methylene Blue Active Substances

New Hampshire	NELAP	2959	03-29-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
420.4		Water	Phenols, Total

New Jersey	NELAP	CA008	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
420.4		Water	Phenols, Total

New Mexico	State	CA00006	01-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
331.0		Water	Perchlorate
420.4		Water	Phenols, Total

New York	NELAP	11320	04-01-25

Accreditation/Certification Summary

Client: Edge Analytical, Inc
Project/Site: 24-10720

Job ID: 380-112514-1

Laboratory: Eurofins Eaton Analytical Pomona (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	68-00565	10-31-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
420.4		Water	Phenols, Total

Authority	Program	Identification Number	Expiration Date
Utah	NELAP	CA00006	01-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
420.4		Water	Phenols, Total

Authority	Program	Identification Number	Expiration Date
Vermont	State	VT-0114	12-28-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
420.4		Water	Phenols, Total

Method Summary

Client: Edge Analytical, Inc
Project/Site: 24-10720

Job ID: 380-112514-1

Method	Method Description	Protocol	Laboratory
331.0	Perchlorate (LC/MS/MS)	EPA	EA POM
420.4	Phenolics, Total Recoverable	EPA	EA POM
SM 5540C	Methylene Blue Active Substances (MBAS)	SM	EA POM

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

Sample Summary

Client: Edge Analytical, Inc
Project/Site: 24-10720

Job ID: 380-112514-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-112514-1	24_20287	Water	09/09/24 09:00	09/11/24 10:10

EDGE ANALYTICAL

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	MicrobiologyChem (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7602
Corvallis, OR	MicrobiologyChem (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946
Bend, OR	MicrobiologyChem (e)	20332 Empire Ave., Ste F4	Bend OR 97703	541.639.8425

Subcontract Work Order

Laboratory Name: EUROFINS Eaton Analytical - Pamona
941 Corporate Center Dr
Pamona, CA 91768-2642

Project: **480-043 - 50 State Source**

Date: 9/10/2024
Reference Number: **24-10720**
Date Due: **10/8/2024**

Sample ID: **24_20287** Sample Origin: **HI** Matrix: **Source Water fo** Date Sampled: **9/9/2024** **09:00**

Analyte Name	Units	PQL
Analytical Method: **331.0** ***Prep Method:***		
PERCHLORATE	mg/L	0.00005
Analytical Method: **420.4** ***Prep Method:***		
TOTAL PHENOLIC COMPOUNDS	ug/L	1
Analytical Method: **SM5540 C** ***Prep Method:***		
MBAS (Surfactants)	mg/L	0.05

380 112514 COC

6.8 / 5.7 − 0.2 = 5.5

Please send results to: subcontract@edgeanalytical.com

Relinquished By — 9/10/24 1330 JMC

Date — Time

Received By — 9/9/24 10:10

Date — Time

FORM: cSubCOC.rpt

EDGE ANALYTICAL
(360) 757-1400
EDGE ANALYTICAL
1620 S WALNUT ST
BURLINGTON WA 98233-3231

47 LBS

1 OF 1

DWT: 26,14,14

SHIP TO:
EUROFINS EATON ANALYTICAL
941 CORPORATE CENTER DRIVE
POMONA CA 91768-2642

CA 917 9-11

UPS NEXT DAY AIR SAVER 1P

TRACKING #: 1Z V93 0F6 13 7068 8076

BILLING: P/P

Packing Number: 0000

WS 25.0.14 Zebra ZP 450 37.0A 09/2024

SEE NOTICE ON REVERSE regarding UPS Terms, and notice of limitation of liability. Where allowed by law, shipper authorizes UPS to act as forwarding agent for export control and customs purposes. If exported from the US, shipper certifies that the commodities, technology or software were exported from the US in accordance with the Export Administration Regulations. Diversion contrary to law is prohibited.

Login Sample Receipt Checklist

Client: Edge Analytical, Inc

Job Number: 380-112514-1

Login Number: 112514

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Ngo, Theodore

Question	Answer	Comment
The coolers custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
ClO4 headspace requirement met (>50% for CA, >30% for other states).	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	False	Client provided containers

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

Client Services
Edge Analytical
1620 S. Walnut Street
Burlington WA 98233

REPORT OF LABORATORY ANALYSIS FOR 2,3,7,8-TCDD

Report Summary:

Report Prepared Date:
September 24, 2024

Report Information:

Pace Project #: 10707523
Sample Receipt Date: 09/11/2024
Client Project #: 24-10720
Client Sub PO #: N/A
State Cert #: MN00064

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 Drinking Water Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Kirsten Hogberg, your Pace Project Manager.

This report has been reviewed by:

Brenna Bloome

September 24, 2024

Brenna Bloome,

(fax)

Report of Laboratory Analysis

Pace Analytical Services, LLC
1700 Elm Street SE
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
		Missouri	10100
A2LA	2926.01	Montana	CERT0092
Alabama	40770	Nebraska	NE-OS-18-06
Alaska-DW	MN00064	Nevada	MN00064
Alaska-UST	17-009	New Hampshire	2081
Arizona	AZ0014	New Jersey	MN002
Arkansas - WW	88-0680	New York	11647
Arkansas-DW	MN00064	North Carolina-DW	27700
California	2929	North Carolina-WW	530
Colorado	MN00064	North Dakota	R-036
Connecticut	PH-0256	Ohio-DW	41244
Florida	E87605	Ohio-VAP (1700)	CL101
Georgia	959	Ohio-VAP (1800)	CL110
Hawaii	MN00064	Oklahoma	9507
Idaho	MN00064	Oregon-Primary	MN300001
Illinois	200011	Oregon-Secondary	MN200001
Indiana	C-MN-01	Pennsylvania	68-00563
Iowa	368	Puerto Rico	MN00064
Kansas	E-10167	South Carolina	74003
Kentucky-DW	90062	Tennessee	TN02818
Kentucky-WW	90062	Texas	T104704192
Louisiana-DEQ	AI-84596	Utah	MN00064
Louisiana-DW	MN00064	Vermont	VT-027053137
Maine	MN00064	Virginia	460163
Maryland	322	Washington	C486
Michigan	9909	West Virginia-DEP	382
Minnesota	027-053-137	West Virginia-DW	9952C
Minnesota-Ag	via MN 027-053-137	Wisconsin	999407970
Minnesota-Petrofund	1240	Wyoming-UST	via A2LA 2926.01
Mississippi	MN00064		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Reporting Flags

A = Reporting Limit based on signal to noise (EDL)

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

H2 = Extracted outside of holding time

I = Isotope ratio out of specification

J = Estimated value

L = Suppressive interference, analyte may be biased low

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

ANALYTICAL

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	MicrobiologyChem (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7602
Corvallis, OR	MicrobiologyChem (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946
Bend, OR	MicrobiologyChem (e)	20332 Empire Ave., Ste. F4	Bend, OR 97703	541.639.8425

Subcontract Work Order

Laboratory Name: Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414

Project: **480-043 - 50 State Source**

Date: 9/10/2024
Reference Number: **24-10720**
Date Due: **10/8/2024**

Sample ID: **24_20287** Sample Origin: **HI** Matrix: **Source Water fo** Date Sampled: **9/9/2024** **09:00** 001

Analyte Name	Units	PQL
Analytical Method: **1613**	***Prep Method:***	
DIOXIN (2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN)	pg/L	5

WO# : 10707523

10707523

4.2°C

Please send results to: subcontract@edgeanalytical.com

Relinquished By — 9/10/24 1330 JMC

Date — Time

Received By — 9/11/24 1020

Date — Time

ENV-FRM-MIN4-0150 v17_Sample Condition Upon Receipt

CLIENT NAME: EDGE **PROJECT #:**

WO#: 10707523

PM: KNH **Due Date: 09/25/24**

CLIENT: Edge

COURIER: ☐ Client ☐ Commercial ☐ FedEx ☐ Pace ☐ SpeeDee ☑ UPS ☐ USPS

TRACKING NUMBER: 1Z74W4713440153294 ☐ See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present: ☐ YES ☑ NO **Seals Intact:** ☐ YES ☑ NO **Biological Tissue Frozen:** ☐ YES ☐ NO ☑ N/A

Packing Material: ☑ Bubble Bags ☑ Bubble Wrap ☐ None ☐ Other **Temp Blank:** ☐ YES ☑ NO **Type of Ice:** ☑ Blue ☐ Dry ☐ Wet ☐ Melted ☐ None

Thermometer: ☑ T1 (0461) ☐ T2 (0436) ☐ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) ☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ T9 (0727) ☐ 01339252 (1710)

Did Samples Originate in West Virginia: ☐ YES ☐ NO	**Were All Container Temps taken:** ☐ YES ☐ NO ☐ N/A
Correction Factor: 0.0 **Cooler Temp Read w/Temp Blank:** _____ °C **Cooler Temp Corrected w/Temp Blank:** _____ °C	**Average Corrected Temp (no Temp Blank Only):** 4.2 °C
NOTE: *Temp should be above freezing to 6°C.*	☑ See Exceptions Form ENV-FRM-MIN4-0142 ☐ 1 Container
USDA Regulated Soil: ☑ N/A – Water Sample/Other (describe): _____	**Initials & Date of Person Examining Contents:** CRL 9/12/24
Did Samples originate from one of the following states (check maps) – AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: ☐ YES ☐ NO	Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☐ NO
NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.	

LOCATION (check one): ☐ DULUTH ☑ MINNEAPOLIS ☐ VIRGINIA	YES	NO	N/A	COMMENT(S)
Chain of Custody Present and Filled Out?	☑	☐		1.
Chain of Custody Relinquished?	☑	☐		2.
Sampler Name and/or Signature on COC?	☐	☑	☐	3.
Samples Arrived within Hold Time?	☑	☐		4. If Fecal: ☐ <8 hrs ☐ >8 hr, <24 hr ☐ No
Short Hold Time Analysis (<72 hr)?	☐	☑		5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/*E. coli* ☐ Other: _____
Rush Turn Around Time Requested?	☐	☑		6.
Sufficient Sample Volume?	☑	☐		7.
Correct Containers Used? – Pace Containers Used?	☑ ☐	☐ ☑	☐	8.
Containers Intact?	☑	☐		9.
Field Filtered Volume Received for Dissolved Tests?	☐	☐	☑	10. Is sediment visible in the dissolved container: ☐ YES ☐ NO
Is sufficient information available to reconcile the samples to the COC? **NOTE:** If ID/Date/Time don't match fill out section 11. Matrix: ☐ Oil ☐ Soil ☑ Water ☐ Other	☑	☐		11. **If NO, write ID/Date/Time of container below:** ☐ See Exceptions form ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐	☐	☑	12. Sample #:
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide)	☐	☐	☑	☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxin/PFAS	☑	☐	☐	Positive for Residual Chlorine: ☐ YES ☐ NO
NOTE: If adding preservation to the container, **verify with the PM first.** Clients may require adding preservative to the field and equipment blanks when this occurs.				**pH Paper Lot #** (Residual Chlorine / 0-6 Roll / 0-6 Strip / 0-14 Strip) ☐ See Exceptions form ENV-FRM-MIN4-0142
Headspace in Methyl Mercury Container?	☐	☐	☑	13.
Extra labels present on soil VOA or WIDRO containers?	☐	☐	☑	14.
Headspace in VOA Vials (greater than 6mm)?	☐	☐	☑	☐ See Exceptions form ENV-FRM-MIN4-0140
Trip Blanks Present?	☐	☐	☑	15.
Trip Blank Custody Seals Present?	☐	☐	☑	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION / RESOLUTION **FIELD DATA REQUIRED:** ☐ YES ☐ NO

Person Contacted: _____ Date & Time: _____

Comments / Resolution: _____

Project Manager Review: Kirsten Hogberg **Date:** 9/12/2024

NOTE: *When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).*

Labeled By: CRL **Line:** 2

Workorder #: 10707523

No Temp Blank		
Read Temp	Corrected Temp	Average temp
4.6	→	4.2
3.6	→	
5.1	→	
3.4	→	

PM Notified of Out of Temp Cooler? ☐ YES ☐ NO
If yes, indicate who was contacted, date and time. If no, indicate reason why.
Multiple Cooler Project? ☐ YES ☐ NO

If anything is OVER 6.0°C, you MUST document containers in this section HERE

Tracking Number	Temperature

Out of Temp Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples										
Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition?		Initials
								YES	NO	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	

Comments:

PaceAnalyticalServices,LLC.
1700ElmStreet
Minneapolis,MN,55414

Tel612-607-1700
Fax612-607-6444

Drinking Water Analysis Results
2,3,7,8-TCDD -- USEPA Method 1613B

Sample ID.....24_20287
Client..... Edge Analytical
Lab Sample ID..... 10707523001

Date Collected.....09/09/2024
Date Received.....09/11/2024
Date Extracted.....09/16/2024

	Sample 24_20287	Method Blank	Lab Spike	Lab Spike Dup
[2,3,7,8-TCDD]	**ND**	ND	--	--
LOQ	5.0 pg/L	5.0 pg/L	--	--
2,3,7,8-TCDD Recovery	--	--	132%	137%
Spike Recovery Limit	--	--	73-146%	73-146%
RPD			3.5%	
IS Recovery	**85%**	89%	70%	85%
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%
CS Recovery	**92%**	80%	76%	94%
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%
Filename	F240919A_22	E240917B_13	F240919A_04	F240919A_05
Analysis Date	09/19/2024	09/17/2024	09/19/2024	09/19/2024
Analysis Time	18:05	17:39	09:01	09:30
Analyst	JF	JF	JF	JF
Volume	0.999L	0.974L	0.962L	0.998L
Dilution	NA	NA	NA	NA
ICAL Date	06/11/2024	04/17/2024	06/11/2024	06/11/2024
CCAL Filename	F240919A_03	E240917B_03	F240919A_03	F240919A_03

! = Outside the Control Limits
ND = Not Detected
LOQ = Limit of Quantitation
Limits = Control Limits from Method 1613 (10/94 Revision), Tables 6A and 7A
RPD = Relative Percent Difference of Lab Spike Recoveries
IS = Internal Standard [2,3,7,8-TCDD- $^{13}C_{12}$]
CS = Cleanup Standard [2,3,7,8-TCDD- $^{37}Cl_4$]

Analyst: _____

Project No.....10707523

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

October 03, 2024

Results
Edge Analytical
1620 South Walnut Street
Burlington, WA 98233

RE: Project: 24-10720
Pace Project No.: 30717105

Dear Results:

Enclosed are the analytical results for sample(s) received by the laboratory on September 12, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carla Cmar
carla.cmar@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Karen Crowell, Edge Analytical
Server, Edge Analytical Laboratory

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 24-10720
Pace Project No.: 30717105

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: 24-10720
Pace Project No.: 30717105

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30717105001	**24_20287**	Drinking Water	09/09/24 09:00	09/12/24 10:15

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 24-10720
Pace Project No.: 30717105

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30717105001	**24_20287**	SM 7500RnB-1996	REH1	1	PASI-PA
		EPA 900.0	KET	2	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 24-10720
Pace Project No.: 30717105

Method: **SM 7500RnB-1996**
Description: 7500RnB Radon
Client: EDGE Analytical Laboratories
Date: October 03, 2024

General Information:
1 sample was analyzed for SM 7500RnB-1996 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 24-10720
Pace Project No.: 30717105

Method: **EPA 900.0**
Description: 900.0 Gross Alpha/Beta
Client: EDGE Analytical Laboratories
Date: October 03, 2024

General Information:
1 sample was analyzed for EPA 900.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 24-10720
Pace Project No.: 30717105

Method: **EPA 903.1**
Description: 903.1 Radium 226, DW
Client: EDGE Analytical Laboratories
Date: October 03, 2024

General Information:
1 sample was analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 24-10720
Pace Project No.: 30717105

Method: **EPA 904.0**
Description: 904.0 Radium 228, DW
Client: EDGE Analytical Laboratories
Date: October 03, 2024

General Information:
1 sample was analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 24-10720
Pace Project No.: 30717105

Sample: 24_20287 **Lab ID: 30717105001** Collected: 09/09/24 09:00 Received: 09/12/24 10:15 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Comments:
- Sample collection dates and times were not present on the sample containers.
- Received 2 X VG9U radon vials; bottles sent via GROUND shipping.
- The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radon	SM 7500RnB-1996	**-31.5 ± 43.7 (78.6) C:NA T:NA**	pCi/L	09/13/24 22:10	10043-92-2	
	Pace Analytical Services - Greensburg					
Gross Alpha	EPA 900.0	**-0.338 ± 0.629 (1.95) C:NA T:NA**	pCi/L	09/25/24 08:41	12587-46-1	
Gross Beta	EPA 900.0	**0.367 ± 0.688 (1.61) C:NA T:NA**	pCi/L	09/25/24 08:41	12587-47-2	
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**-0.0471 ± 0.381 (0.785) C:NA T:96%**	pCi/L	10/01/24 12:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.400 ± 0.339 (0.695) C:81% T:85%**	pCi/L	09/26/24 11:24	15262-20-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 24-10720
Pace Project No.: 30717105

QC Batch: 695719
QC Batch Method: SM 7500RnB-1996
Analysis Method: SM 7500RnB-1996
Analysis Description: 7500Rn B Radon
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30717105001

METHOD BLANK: 3388076 Matrix: Water
Associated Lab Samples: 30717105001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radon	0.0 ± 19.8 (34.5) C:NA T:NA	pCi/L	09/13/24 19:23	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 24-10720
Pace Project No.: 30717105

QC Batch: 696799
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228, DW
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30717105001

METHOD BLANK: 3393257 Matrix: Drinking Water
Associated Lab Samples: 30717105001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.568 ± 0.335 (0.647) C:84% T:83%	pCi/L	09/26/24 11:24	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 24-10720
Pace Project No.: 30717105

QC Batch: 696877
QC Batch Method: EPA 900.0
Analysis Method: EPA 900.0
Analysis Description: 900.0 Gross Alpha/Beta
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30717105001

METHOD BLANK: 3393669 Matrix: Water
Associated Lab Samples: 30717105001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	-1.06 ± 0.570 (2.24) C:NA T:NA	pCi/L	09/25/24 08:40	
Gross Beta	-0.211 ± 0.549 (1.57) C:NA T:NA	pCi/L	09/25/24 08:40	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 24-10720
Pace Project No.: 30717105

QC Batch: 696798
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226, DW
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30717105001

METHOD BLANK: 3393256 Matrix: Drinking Water
Associated Lab Samples: 30717105001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.245 (0.509) C:NA T:98%	pCi/L	10/01/24 12:28	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: 24-10720
Pace Project No.: 30717105

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. Is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Pace Analytical Services, LLC
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Greensburg, PA 15601
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 24-10720
Pace Project No.: 30717105

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30717105001	**24_20287**	SM 7500RnB-1996	695719		
30717105001	**24_20287**	EPA 900.0	696877		
30717105001	**24_20287**	EPA 903.1	696798		
30717105001	**24_20287**	EPA 904.0	696799		

EDGE ANALYTICAL

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	MicrobiologyChem (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7602
Corvallis, OR	MicrobiologyChem (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946
Bend, OR	MicrobiologyChem (e)	20332 Empire Ave., Ste. F4	Bend, OR 97703	541.639.8425

Subcontract Work Order

Laboratory Name: PACE ANALYTICAL - Radiological Laboratory
1638 Roseytown Road
Greenburg, PA 15601

Project: **480-043 - 50 State Source**

Date: 9/10/2024
Reference Number: **24-10720**
Date Due: **10/8/2024**

Sample ID: **24_20287** Sample Origin: **HI** Matrix: **Source Water fo** Date Sampled: **9/9/2024** **09:00**

Analyte Name	Units	PQL
Analytical Method: **900.0**	***Prep Method:***	
GROSS ALPHA	pCi/L	
GROSS BETA	pCi/L	
Analytical Method: **903.1**	***Prep Method:***	
RADIUM 226	pCi/L	
Analytical Method: **904.0**	***Prep Method:***	
RADIUM 228	pCi/L	
Analytical Method: **SM7500-Rn B**	***Prep Method:***	
RADON	pCi/L	

Grand

001

NDA

WO# : 30717105

30717105

Received by Pace Greensburg
Therm ID ___ Corr Factor +/- ___
Receipt Temp ___
Corrected Temp ___
Correct Preservation Y N

Please send results to: subcontract@edgeanalytical.com

Relinquish — 9/10/24 1330 JMC

Date — Time

Jack Scott - Pace

Received By

9/12/24 — 1015

Date — Time

FORM: cSubCOC.rpt

DC#_Title: ENV-FRM-GBUR-0088 v07_Sa... Greensburg

Effective Date: 01/04/2024

WO# : 30717105

PM: CMC Due Date: 10/03/24

CLIENT: EDGE

Client Name: Edge Analytical

Courier: ☐ Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Initial / Date

Tracking Number: 1Z741W471343526319

Examined By: EZ 9/12/24

Labeled By: EZ 9/12/24

Temped By: —

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals Intact: ☐ Yes ☑ No

Thermometer Used: — Type of Ice: Wet Blue (None)

Cooler Temperature: Observed Temp — °C Correction Factor: — °C Final Temp: — °C

Temp should be above freezing to 6°C

Comments:	Yes	No	NA
Chain of Custody Present	✓		
Chain of Custody Filled Out:	✓		
-Were client corrections present on COC		✓	
Chain of Custody Relinquished	✓		
Sampler Name & Signature on COC:		✓	
Sample Labels match COC:		✓	
-Includes date/time/ID			
Matrix: DW			
Samples Arrived within Hold Time:	✓		
Short Hold Time Analysis (<72hr remaining):	✓		
Rush Turn Around Time Requested:		✓	
Sufficient Volume:	✓		
Correct Containers Used:	✓		
-Pace Containers Used		✓	
Containers Intact:	✓		
Orthophosphate field filtered:			✓
Hex Cr Aqueous samples field filtered:			✓
Organic Samples checked for dichlorination			✓
Filtered volume received for dissolved tests:			✓
All containers checked for preservation:			✓
exceptions: VOA, coliform, TOC, O&G, Phenolics, (Radon) non-aqueous matrix			
All containers meet method preservation requirements:	✓		
8260C/D: Headspace in VOA Vials (> 6mm)			✓
624.1: Headspace in VOA Vials (0mm)			✓
Radon: Headspace in RAD Vials (0mm)		✓	
Trip Blank Present:			✓
Rad Samples Screened <.05 mrem/hr.	✓		

pH paper Lot# | D.P.D. Residual Chlorine Lot #

1.
2.
3.
4.
5. No sample collect date/time on sample label
6.
7.
8.
9.
10.
11.
12.
13.
14:
15:
16. Radon

Initial when completed EZ | Date/Time of Preservation

Lot# of added Preservative

17.
18.
19. One of the two VOAs has headspace present

Trip blank custody seal present? YES or NO

Initial when completed JS | Date: 9/12/24 | Survey Meter SN: 2501550

Comments: Received 2x VG9U Radon vials. Bottles sent via X GROUND shipping

EZ 9/12/24

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Page 1 of 1

Qualtrax ID: 55680

EDGE ANALYTICAL

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/Chem (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology/Chem (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946
Bend, OR	Microbiology/Chem (e)	20332 Empire Ave., Ste. F4	Bend, OR 97703	541.639.8425

Subcontract Work Order

Laboratory Name: PACE ANALYTICAL - Radiological Laboratory
1638 Roseytown Road
Greenburg, PA 15601

Project: **480-043 - 50 State Source**

Date: 9/10/2024
Reference Number: **24-10720**
Date Due: **10/8/2024**

Sample ID: **24_20287** Sample Origin: **HI** Matrix: **Source Water fo** Date Sampled: **9/9/2024 09:00**

Analyte Name	Units	PQL
Analytical Method: **900.0** ***Prep Method:***		
GROSS ALPHA	pCi/L	
GROSS BETA	pCi/L	
Analytical Method: **903.1** ***Prep Method:***		
RADIUM 226	pCi/L	
Analytical Method: **904.0** ***Prep Method:***		
RADIUM 228	pCi/L	
Analytical Method: **SM7500-Rn B** ***Prep Method:***		
RADON	pCi/L	

NDA

Grand

001

WO#: 30717105
PM: CMC **Due Date: 10/03/24**
CLIENT: EDGE

Received by Pace Greensburg
Therm ID — Corr Factor +/- —
Receipt Temp —
Corrected Temp —
Correct Preservation (Y) / N

Please send results to: subcontract@edgeanalytical.com

Relinquish 9/10/24 1330 JMC

Date Time

Jake Scotti - Pace

Received By

9/17/24 1020

Date Time

FORM: cSubCOC.rpt

DC#_Title: ENV-FRM-GBUR-0088 v07_Sampl
Greensburg

Effective Date: 01/04/2024

WO#: 30717105

PM: CMC Due Date: 10/03/24

CLIENT: EDGE

Client Name: Edge Analytical

Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 1Z 741 W47 03 4476 7700

Initial / Date

Examined By: 9/17/24

Labeled By: 9/17/24

Temped By: —

Custody Seal on Cooler/Box Present: ☒ Yes ☐ No Seals Intact: ☒ Yes ☐ No

Thermometer Used: — Type of Ice: Wet Blue (None)

Cooler Temperature: Observed Temp — °C Correction Factor: — °C Final Temp: — °C

Temp should be above freezing to 6°C

pH paper Lot# 10D1041 D.P.D. Residual Chlorine Lot # —

	Yes	No	NA	
Comments:				1.
Chain of Custody Present	✓			2.
Chain of Custody Filled Out:	✓			
-Were client corrections present on COC		✓		3.
Chain of Custody Relinquished	✓			4.
Sampler Name & Signature on COC:		✓		5. Sample collection time on sample label: 09:00
Sample Labels match COC:		—		Sample collection time on COC: 09:00
-Includes date/time/ID				
Matrix: DW				
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used		✓		
Containers Intact:	✓			11.
Orthophosphate field filtered:			✓	12.
Hex Cr Aqueous samples field filtered:			✓	13.
Organic Samples checked for dichlorination			✓	14:
Filtered volume received for dissolved tests:			✓	15:
All containers checked for preservation:	✓			16.
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix				pH<2
All containers meet method preservation requirements:	✓			Initial when completed EL Date/Time of Preservation
				Lot# of added Preservative
8260C/D: Headspace in VOA Vials (> 6mm)			✓	17.
624.1: Headspace in VOA Vials (0mm)			✓	18.
Radon: Headspace in RAD Vials (0mm)			✓	19.
Trip Blank Present:			✓	Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	✓			Initial when completed JS Date: 9/17/24 Survey Meter SN: 2504380

Comments: Received 2xBPIN & 1xBPZN 9/17/24.

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.