



SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

Analytical Report

PREPARED FOR:

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412410

Client: WWE

Project: WWE_SPECIAL

Routine: UWPD_SPECIAL

Scheduled Sample Date: 03/22/2024

Sampling Team:

Lab Sample#: 2412410-01 **Sample Source:** SPECIAL **External ID:**

Date Collected: 03/22/2024 09:12PM **Date Received:** 03/25/2024 12:17PM **Sample Matrix:** Aqueous **Location Desc:** Beach Chalet North

Test/Analyte

SEM_200.8_WW(EPA 200.8)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Antimony, Sb	DNQ 0.212	µg/L	1	0.09	0.5	05/01/2024	2077729 MARTEAGA	J
Arsenic, As	DNQ 0.776	µg/L	1	0.07	2	05/01/2024	2077729 MARTEAGA	J
Barium, Ba	23.8	µg/L	1			05/01/2024	2077729 MARTEAGA	
Cadmium, Cd	DNQ 0.0637	µg/L	1	0.02	0.25	05/01/2024	2077729 MARTEAGA	J
Chromium, Cr	20.4	µg/L	1	0.2	0.5	05/01/2024	2077729 MARTEAGA	
Cobalt, Co	0.101	µg/L	1			05/01/2024	2077729 MARTEAGA	
Copper, Cu	1.58	µg/L	1	0.8	0.5	05/01/2024	2077729 MARTEAGA	
Lead, Pb	<0.4	µg/L	1	0.4	0.5	05/01/2024	2077729 MARTEAGA	
Manganese, Mn	6.33	µg/L	1			05/01/2024	2077729 MARTEAGA	
Molybdenum, Mo	0.311	µg/L	1			05/01/2024	2077729 MARTEAGA	
Nickel, Ni	1.22	µg/L	1	0.2	1	05/01/2024	2077729 MARTEAGA	
Selenium, Se	<0.4	µg/L	1	0.4	2	05/01/2024	2077729 MARTEAGA	
Silver, Ag	<0.03	µg/L	1	0.03	0.25	05/01/2024	2077729 MARTEAGA	
Thallium, Tl	<0.06	µg/L	1	0.06	1	05/01/2024	2077729 MARTEAGA	
Vanadium, V	6.71	µg/L	1			05/01/2024	2077729 MARTEAGA	
Zinc, Zn	38.6	µg/L	1	1.5	1	05/01/2024	2077729 MARTEAGA	

SEM_245.1_WW(EPA 245.1)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Mercury, Hg	<0.09	µg/L	1	0.09	0.2	03/27/2024	2077683 GMAYS	

Lab Sample#: 2412410-01A **Sample Source:** SPECIAL **External ID:**

Date Collected: 03/22/2024 09:12PM **Date Received:** 03/25/2024 12:17PM **Sample Matrix:** Aqueous **Location Desc:** Beach Chalet North

Test/Analyte

SEM_200.8_WW(EPA 200.8)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Beryllium, Be	NQ 0.00958	µg/L	1	0.007	0.5	05/06/2024	2077729 MARTEAGA	J

Lab Sample#: 2412410-03 **Sample Source:** SPECIAL **External ID:**

Date Collected: 03/22/2024 08:56PM **Date Received:** 03/25/2024 12:17PM **Sample Matrix:** Aqueous **Location Desc:** Minnie Lovie Downstream

Test/Analyte

SEM_200.8_WW(EPA 200.8)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Antimony, Sb	0.732	µg/L	1	0.09	0.5	05/01/2024	2077729 MARTEAGA	
Arsenic, As	DNQ 0.566	µg/L	1	0.07	2	05/01/2024	2077729 MARTEAGA	J
Barium, Ba	46.5	µg/L	1			05/01/2024	2077729 MARTEAGA	
Cadmium, Cd	0.312	µg/L	1	0.02	0.25	05/01/2024	2077729 MARTEAGA	
Chromium, Cr	0.964	µg/L	1	0.2	0.5	05/01/2024	2077729 MARTEAGA	
Cobalt, Co	0.0827	µg/L	1			05/01/2024	2077729 MARTEAGA	
Copper, Cu	5.81	µg/L	1	0.8	0.5	05/01/2024	2077729 MARTEAGA	
Lead, Pb	<0.4	µg/L	1	0.4	0.5	05/01/2024	2077729 MARTEAGA	

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FOLDER ID: 2412410

Client: WWE

Project: WWE_SPECIAL

Scheduled Sample Date: 03/22/2024

Routine: UWPD_SPECIAL

Sampling Team:

Analyte	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Manganese, Mn	20.6	µg/L	1			05/01/2024	2077729 MARTEAGA	
Molybdenum, Mo	0.597	µg/L	1			05/01/2024	2077729 MARTEAGA	
Nickel, Ni	DNQ 0.823	µg/L	1	0.2	1	05/01/2024	2077729 MARTEAGA	J
Selenium, Se	<0.4	µg/L	1	0.4	2	05/01/2024	2077729 MARTEAGA	
Silver, Ag	<0.03	µg/L	1	0.03	0.25	05/01/2024	2077729 MARTEAGA	
Thallium, Tl	<0.06	µg/L	1	0.06	1	05/01/2024	2077729 MARTEAGA	
Vanadium, V	5.22	µg/L	1			05/01/2024	2077729 MARTEAGA	
Zinc, Zn	25.1	µg/L	1	1.5	1	05/01/2024	2077729 MARTEAGA	

SEM_245.1_WW(EPA 245.1)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Mercury, Hg	<0.09	µg/L	1	0.09	0.2	03/27/2024	2077683 GMAYS	

Lab Sample#: 2412410-03A Sample Source: SPECIAL External ID:

Date Collected: 03/22/2024 08:56PM Date Received: 03/25/2024 12:17PM Sample Matrix: Aqueous Location Desc: Minnie Lovie Downstream

Test/Analyte

SEM_200.8_WW(EPA 200.8)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Beryllium, Be	<0.007	µg/L	1	0.007	0.5	05/06/2024	2077729 MARTEAGA	

Lab Sample#: 2412410-04 Sample Source: SPECIAL External ID:

Date Collected: 03/22/2024 10:46PM Date Received: 03/25/2024 12:17PM Sample Matrix: Aqueous Location Desc: Minnie Lovie Upstream

Test/Analyte

SEM_200.8_WW(EPA 200.8)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Antimony, Sb	0.669	µg/L	1	0.09	0.5	05/01/2024	2077729 MARTEAGA	
Arsenic, As	DNQ 0.377	µg/L	1	0.07	2	05/01/2024	2077729 MARTEAGA	J
Barium, Ba	22	µg/L	1			05/01/2024	2077729 MARTEAGA	
Cadmium, Cd	DNQ 0.0438	µg/L	1	0.02	0.25	05/01/2024	2077729 MARTEAGA	J
Chromium, Cr	1.29	µg/L	1	0.2	0.5	05/01/2024	2077729 MARTEAGA	
Cobalt, Co	0.338	µg/L	1			05/01/2024	2077729 MARTEAGA	
Copper, Cu	4.95	µg/L	1	0.8	0.5	05/01/2024	2077729 MARTEAGA	
Lead, Pb	<0.4	µg/L	1	0.4	0.5	05/01/2024	2077729 MARTEAGA	
Manganese, Mn	28.3	µg/L	1			05/01/2024	2077729 MARTEAGA	
Molybdenum, Mo	0.284	µg/L	1			05/01/2024	2077729 MARTEAGA	
Nickel, Ni	1.42	µg/L	1	0.2	1	05/01/2024	2077729 MARTEAGA	
Selenium, Se	<0.4	µg/L	1	0.4	2	05/01/2024	2077729 MARTEAGA	
Silver, Ag	<0.03	µg/L	1	0.03	0.25	05/01/2024	2077729 MARTEAGA	
Thallium, Tl	<0.06	µg/L	1	0.06	1	05/01/2024	2077729 MARTEAGA	
Vanadium, V	2.89	µg/L	1			05/01/2024	2077729 MARTEAGA	
Zinc, Zn	214	µg/L	1	1.5	1	05/01/2024	2077729 MARTEAGA	

SEM_245.1_WW(EPA 245.1)	Result	Unit	Dilution	MDL	MRL	Analysis Date	Run#/Analyst	Flag/Comments
Mercury, Hg	<0.09	µg/L	1	0.09	0.2	03/27/2024	2077683 GMAYS	

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Water Quality Laboratory

FOLDER ID: 2412410

Client: WWE

Project: WWE_SPECIAL

Scheduled Sample Date: 03/22/2024

Routine: UWPD_SPECIAL

Sampling Team:

Lab Sample#: 2412410-04A **Sample Source:** SPECIAL **External ID:**

Date Collected: 03/22/2024 10:46PM **Date Received:** 03/25/2024 12:17PM **Sample Matrix:** Aqueous **Location Desc:** Minnie Lovie Upstream

Test/Analyte

<u>SEM_200.8_WW(EPA 200.8)</u>	<u>Result</u>	<u>Unit</u>	<u>Dilution</u>	<u>MDL</u>	<u>MRL</u>	<u>Analysis Date</u>	<u>Run#/Analyst</u>	<u>Flag/Comments</u>
Beryllium, Be	<0.007	µg/L	1	0.007	0.5	05/06/2024	2077729 MARTEAGA	

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Water Quality Laboratory

FOLDER ID: 2412410

Client: WWE

Project: WWE_SPECIAL

Scheduled Sample Date: 03/22/2024

Routine: UWPD_SPECIAL

Sampling Team:

QC list for Run#: 2077683 and Test: SEM_245.1_WW (EPA 245.1)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
QC2425393-01	BLK	Mercury, Hg		<0.09	µg/L			0.09	0.2	
QC2425393-02	LCS	Mercury, Hg		26.5	µg/L	106		0.2	0.2	
QC2425393-03	DUP of 2403207875	Mercury, Hg	<0.09	DNQ 0.0919	µg/L		N/A	0.09	0.2	Split# 2403207875 (<0.09µg/L) J
QC2425393-04	SPK of 2403207875	Mercury, Hg	<0.09	25.7	µg/L	103		0.05	0.2	Split# 2403207875 (<0.09µg/L)
QC2425393-05	SPKD of 2403207875	Mercury, Hg	<0.09	25.3	µg/L	101	1	0.05	0.2	Split# 2403207875 (<0.09µg/L)
QC2425393-07	ICV	Mercury, Hg		5.47	µg/L	109		0.05	0.2	

QC list for Run#: 2077729 and Test: SEM_200.8_WW (EPA 200.8)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
QC2425417-01	BLK	Antimony, Sb		<0.09	µg/L			0.09	0.5	
	BLK	Arsenic, As		<0.07	µg/L			0.07	2	
	BLK	Barium, Ba		<0	µg/L					
	BLK	Beryllium, Be		<0.007	µg/L			0.007	0.5	
	BLK	Cadmium, Cd		<0.02	µg/L			0.02	0.25	
	BLK	Chromium, Cr		<0.2	µg/L			0.2	0.5	
	BLK	Cobalt, Co		<0	µg/L					
	BLK	Copper, Cu		<0.8	µg/L			0.8	0.5	
	BLK	Lead, Pb		<0.4	µg/L			0.4	0.5	
	BLK	Manganese, Mn		<0	µg/L					
	BLK	Molybdenum, Mo		0.000903	µg/L					
	BLK	Nickel, Ni		<0.2	µg/L			0.2	1	
	BLK	Selenium, Se		<0.4	µg/L			0.4	2	
	BLK	Silver, Ag		<0.03	µg/L			0.03	0.25	
	BLK	Thallium, Tl		<0.06	µg/L			0.06	1	
	BLK	Vanadium, V		0.00426	µg/L					
	BLK	Zinc, Zn		<1.5	µg/L			1.5	1	
QC2425417-01A	BLK	Beryllium, Be	<0.007	<0.007	µg/L			0.007	0.5	Split# QC2425417-01 (<0.007µg/L)
QC2425417-02	LCS	Antimony, Sb		5.11	µg/L	102		0.03	0.5	
	LCS	Arsenic, As		10.3	µg/L	103		0.02	2	
	LCS	Barium, Ba		105	µg/L	105		0.036		
	LCS	Beryllium, Be		1.56	µg/L	156		0.03	0.5	

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FOLDER ID: 2412410

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Project: WWE_SPECIAL

Routine: UWPD_SPECIAL

Scheduled Sample Date: 03/22/2024

Sampling Team:

QC list for Run#: 2077729 and Test: SEM_200.8_WW (EPA 200.8)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
	LCS	Cadmium, Cd		1.01	µg/L	101		0.02	0.25	
	LCS	Chromium, Cr		28.7	µg/L	115		0.2	0.5	
	LCS	Cobalt, Co		14	µg/L	112		0.0016		
	LCS	Copper, Cu		52.9	µg/L	106		0.2	0.5	
	LCS	Lead, Pb		16.1	µg/L	107		0.2	0.5	
	LCS	Manganese, Mn		53.5	µg/L	107		0.026		
	LCS	Molybdenum, Mo		13	µg/L	104		0.21		
	LCS	Nickel, Ni		13.4	µg/L	107		0.06	1	
	LCS	Selenium, Se		5.1	µg/L	102		0.05	2	
	LCS	Silver, Ag		5.23	µg/L	105		0.008	0.25	
	LCS	Thallium, Tl		1.11	µg/L	111		0.04	0.04	
	LCS	Vanadium, V		13.4	µg/L	107		0.021		
	LCS	Zinc, Zn		104	µg/L	104		0.6	1	
QC2425417-02A	LCS	Beryllium, Be	1.56	1.11	µg/L	111		0.03	0.5	Split# QC2425417-02 (1.56µg/L)
QC2425417-04	ICV	Antimony, Sb		47.4	µg/L	102		0.15	2.5	
	ICV	Arsenic, As		51	µg/L	103		0.1	10	
	ICV	Barium, Ba		48.5	µg/L	98		0.1		
	ICV	Beryllium, Be		64.3	µg/L	129		0.2	2.5	
	ICV	Cadmium, Cd		49.2	µg/L	99		0.03	1.25	
	ICV	Chromium, Cr		54.1	µg/L	110		0.02	2.5	
	ICV	Cobalt, Co		53.4	µg/L	108		0.025		
	ICV	Copper, Cu		51	µg/L	102		0.15	2.5	
	ICV	Lead, Pb		50.3	µg/L	103		0.1	2.5	
	ICV	Manganese, Mn		50.5	µg/L	103		0.15		
	ICV	Molybdenum, Mo		47.2	µg/L	96		0.35		
	ICV	Nickel, Ni		52.8	µg/L	107		0.1	5	
	ICV	Selenium, Se		50	µg/L	101		0.15	10	
	ICV	Silver, Ag		50.2	µg/L	101		0.015	1.25	
	ICV	Thallium, Tl		49.4	µg/L	100		0.25	5	
	ICV	Vanadium, V		48.9	µg/L	99		0.035		
	ICV	Zinc, Zn		54.8	µg/L	110		1	5	
QC2425417-04A	ICV	Beryllium, Be	64.3	52	µg/L	105		0.2	2.5	Split# QC2425417-04 (64.3µg/L)
QC2425417-05	DUP of 2412407-01	Antimony, Sb	DNQ 0.495	DNQ 0.486	µg/L		N/A	0.09	0.5	Split# 2412407-01 (DNQ 0.495µg/L) J
	DUP of 2412407-01	Arsenic, As	DNQ 1.37	DNQ 1.31	µg/L		N/A	0.07	2	Split# 2412407-01 (DNQ 1.37µg/L) J

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Water Quality Laboratory

FOLDER ID: 2412410

Client: WWE

Project: WWE_SPECIAL

Routine: UWPD_SPECIAL

Scheduled Sample Date: 03/22/2024

Sampling Team:

QC list for Run#: 2077729 and Test: SEM_200.8_WW (EPA 200.8)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
DUP of 2412407-01	Barium, Ba		39.9	38.4	µg/L		3			Splt# 2412407-01 (39.9µg/L)
DUP of 2412407-01	Beryllium, Be		DNQ 0.0693	DNQ 0.12	µg/L		N/A	0.007	0.5	Splt# 2412407-01 (DNQ 0.0693µg/L) J
DUP of 2412407-01	Cadmium, Cd		0.376	0.373	µg/L		0	0.02	0.25	Splt# 2412407-01 (0.376µg/L)
DUP of 2412407-01	Chromium, Cr		25.7	25.3	µg/L		1	0.2	0.5	Splt# 2412407-01 (25.7µg/L)
DUP of 2412407-01	Cobalt, Co		1.23	1.2	µg/L		1			Splt# 2412407-01 (1.23µg/L)
DUP of 2412407-01	Copper, Cu		9.3	8.4	µg/L		10	0.8	0.5	Splt# 2412407-01 (9.3µg/L)
DUP of 2412407-01	Lead, Pb		3.58	3.44	µg/L		3	0.4	0.5	Splt# 2412407-01 (3.58µg/L)
DUP of 2412407-01	Manganese, Mn		94	91.2	µg/L		3			Splt# 2412407-01 (94µg/L)
DUP of 2412407-01	Molybdenum, Mo		1.53	1.45	µg/L		4			Splt# 2412407-01 (1.53µg/L)
DUP of 2412407-01	Nickel, Ni		9.99	9.78	µg/L		2	0.2	1	Splt# 2412407-01 (9.99µg/L)
DUP of 2412407-01	Selenium, Se		<0.4	<0.4	µg/L		N/A	0.4	2	Splt# 2412407-01 (<0.4µg/L)
DUP of 2412407-01	Silver, Ag		DNQ 0.0644	DNQ 0.0666	µg/L		N/A	0.03	0.25	Splt# 2412407-01 (DNQ 0.0644µg/L) J
DUP of 2412407-01	Thallium, Tl		DNQ 0.245	DNQ 0.24	µg/L		N/A	0.06	1	Splt# 2412407-01 (DNQ 0.245µg/L) J
DUP of 2412407-01	Vanadium, V		17.9	17.2	µg/L		4			Splt# 2412407-01 (17.9µg/L)
DUP of 2412407-01	Zinc, Zn		117	115	µg/L		1	1.5	1	Splt# 2412407-01 (117µg/L)
QC2425417-05A										
DUP of 2412407-01A	Beryllium, Be		DNQ 0.0987	DNQ 0.104	µg/L		N/A	0.007	0.5	Splt# 2412407-01A (DNQ 0.0987µg/L) J
QC2425417-06										
SPK of 2412407-01	Antimony, Sb		DNQ 0.495	5.29	µg/L	106				Splt# 2412407-01 (DNQ 0.495µg/L)
SPK of 2412407-01	Arsenic, As		DNQ 1.37	11.5	µg/L	115				Splt# 2412407-01 (DNQ 1.37µg/L)
SPK of 2412407-01	Barium, Ba		39.9	140	µg/L	100				Splt# 2412407-01 (39.9µg/L)
SPK of 2412407-01	Beryllium, Be		DNQ 0.0693	1.35	µg/L	135				Splt# 2412407-01 (DNQ 0.0693µg/L)
SPK of 2412407-01	Cadmium, Cd		0.376	1.4	µg/L	102				Splt# 2412407-01 (0.376µg/L)
SPK of 2412407-01	Chromium, Cr		25.7	54	µg/L	113				Splt# 2412407-01 (25.7µg/L)
SPK of 2412407-01	Cobalt, Co		1.23	15	µg/L	110				Splt# 2412407-01 (1.23µg/L)
SPK of 2412407-01	Copper, Cu		9.3	59.6	µg/L	101				Splt# 2412407-01 (9.3µg/L)
SPK of 2412407-01	Lead, Pb		3.58	20.1	µg/L	110				Splt# 2412407-01 (3.58µg/L)
SPK of 2412407-01	Manganese, Mn		94	145	µg/L	103				Splt# 2412407-01 (94µg/L)
SPK of 2412407-01	Molybdenum, Mo		1.53	13.2	µg/L	93				Splt# 2412407-01 (1.53µg/L)
SPK of 2412407-01	Nickel, Ni		9.99	22.5	µg/L	99				Splt# 2412407-01 (9.99µg/L)
SPK of 2412407-01	Selenium, Se		<0.4	4.96	µg/L	99				Splt# 2412407-01 (<0.4µg/L)
SPK of 2412407-01	Silver, Ag		DNQ 0.0644	5.3	µg/L	106				Splt# 2412407-01 (DNQ 0.0644µg/L)
SPK of 2412407-01	Thallium, Tl		DNQ 0.245	1.5	µg/L	150				Splt# 2412407-01 (DNQ 0.245µg/L)
SPK of 2412407-01	Vanadium, V		17.9	30.1	µg/L	97				Splt# 2412407-01 (17.9µg/L)
SPK of 2412407-01	Zinc, Zn		117	216	µg/L	98				Splt# 2412407-01 (117µg/L)

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Water Quality Laboratory

FOLDER ID: 2412410

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Project: WWE_SPECIAL

Routine: UWPD_SPECIAL

Scheduled Sample Date: 03/22/2024

Sampling Team:

QC list for Run#: 2077729 and Test: SEM_200.8_WW (EPA 200.8)

Sample #	Name	Analyte	Result		Units	% Rec	RPD	MDL	MRL	Flag/Comments
			Parent	Current						
QC2425417-06A	SPK of 2412407-01A	Beryllium, Be	DNQ 0.0987	1.2	µg/L	120				Splt# 2412407-01A (DNQ 0.0987µg/L)
QC2425417-07	SPKD of 2412407-01	Antimony, Sb	DNQ 0.495	5.37	µg/L	107	1			Splt# 2412407-01 (DNQ 0.495µg/L)
	SPKD of 2412407-01	Arsenic, As	DNQ 1.37	11.4	µg/L	114	0			Splt# 2412407-01 (DNQ 1.37µg/L)
	SPKD of 2412407-01	Barium, Ba	39.9	141	µg/L	101	0			Splt# 2412407-01 (39.9µg/L)
	SPKD of 2412407-01	Beryllium, Be	DNQ 0.0693	1.39	µg/L	139	2			Splt# 2412407-01 (DNQ 0.0693µg/L)
	SPKD of 2412407-01	Cadmium, Cd	0.376	1.39	µg/L	102	0			Splt# 2412407-01 (0.376µg/L)
	SPKD of 2412407-01	Chromium, Cr	25.7	54.3	µg/L	115	0			Splt# 2412407-01 (25.7µg/L)
	SPKD of 2412407-01	Cobalt, Co	1.23	15.1	µg/L	111	0			Splt# 2412407-01 (1.23µg/L)
	SPKD of 2412407-01	Copper, Cu	9.3	59.7	µg/L	101	0			Splt# 2412407-01 (9.3µg/L)
	SPKD of 2412407-01	Lead, Pb	3.58	20.3	µg/L	112	0			Splt# 2412407-01 (3.58µg/L)
	SPKD of 2412407-01	Manganese, Mn	94	145	µg/L	102	0			Splt# 2412407-01 (94µg/L)
	SPKD of 2412407-01	Molybdenum, Mo	1.53	12.9	µg/L	91	1			Splt# 2412407-01 (1.53µg/L)
	SPKD of 2412407-01	Nickel, Ni	9.99	22.1	µg/L	97	1			Splt# 2412407-01 (9.99µg/L)
	SPKD of 2412407-01	Selenium, Se	<0.4	4.96	µg/L	99	0			Splt# 2412407-01 (<0.4µg/L)
	SPKD of 2412407-01	Silver, Ag	DNQ 0.0644	5.34	µg/L	107	0			Splt# 2412407-01 (DNQ 0.0644µg/L)
	SPKD of 2412407-01	Thallium, Tl	DNQ 0.245	1.49	µg/L	149	0			Splt# 2412407-01 (DNQ 0.245µg/L)
	SPKD of 2412407-01	Vanadium, V	17.9	30.2	µg/L	98	0			Splt# 2412407-01 (17.9µg/L)
	SPKD of 2412407-01	Zinc, Zn	117	217	µg/L	99	0			Splt# 2412407-01 (117µg/L)
QC2425417-07A	SPKD of 2412407-01A	Beryllium, Be	DNQ 0.0987	1.26	µg/L	126	4			Splt# 2412407-01A (DNQ 0.0987µg/L)

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412410

Client: WWE

Project: WWE_SPECIAL

Routine: UWPD_SPECIAL

Scheduled Sample Date: 03/22/2024

Sampling Team:

Qualifiers Legend:

Flag

Code	Description
A1	See case narrative, notes, or comments.
B1	Target analyte detected in associated Method Blank.
B2	Target analyte detected in Travel/Trip/Equipment Blank.
E1	Estimated value. Exceeds calibration range. Reanalysis not possible due to insufficient sample vol.
E2	Estimated value. Exceeds calibration range. Reanalysis not performed due to hold time requirement.
E3	EMPC (estimated maximum possible concentration)
H1	Sample analysis performed past the method specified hold time per client request.
H2	Initial analysis within hold time. Reanalysis for the required dilution was past hold time.
H3	Sample was received past hold time.
H4	Confirmatory analysis was past hold time.
H5	Confirmatory analysis was past hold time. Original result not confirmed.
H6	Filtration not completed within method specific time; Filtered in Lab. Filtration exceeded hold time.
I1	I.S. recovery or R.T. outside method limits. Interference confirmed by reanalysis/dilution. GC/GCMS
L1	LCS and/or LCSD is outside acceptance limits. Results might be low biased.
L2	LCS and/or LCSD is outside acceptance limits. Results might be high biased.
M	Matrix interference suspected.
M1	MS/MSD % rec. outside acceptable limits. Batch acceptance by LCS.
M2	MS/MSD RPD outside acceptable limits. Batch acceptance by LCS.
M3	Sample diluted due to matrix. MS recovery not useful. Batch acceptance by LCS.
NA	Not Analyzed
NC	Not for Compliance
NC1	Method specification(s) not met
NC2	Test/analyte is not accredited or accreditation is not available.
NP	Not provided
NS	Not sampled (or no sample received)
P1	Sample received and analyzed without chemical preservation.
P2	Sample received without chemical preservation but preserved by the laboratory.
P3	Sample received with inadequate chemical preservation, but preserved by the laboratory
P4	Sample was received outside recommended temperature range.
P5	Sample received in inappropriate sample container.
P6	Insufficient sample received to meet method requirements.
P7	Sample received with head space.
Q	%D (difference) between the 1st and 2nd column/detector is >50%. Lower value reported.
Q1	Minimum Reporting Limit (MRL) verification failed high, but target analyte was not detected.
R	Data rejected
S	Dilution due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
S1	Sample diluted due to matrix. Surrogate spike recovery provides no useful information.
S2	Surrogate recovery below acceptable limits. Results might be low biased.
S3	Surrogate recovery exceeds acceptable limits. Results might be high biased.
TIC	Tentatively Identified Compound
U	Analyzed but not detected

RQualifier

Code	Description
+	Positive
-	Negative
<	Less Than

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SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Water Quality Laboratory

FOLDER ID: 2412410

Client: WWE

Project: WWE_SPECIAL

Routine: UWPD_SPECIAL

Scheduled Sample Date: 03/22/2024

Sampling Team:

=	Equals
>	Greater Than
A	Bacti result, absent
DNQ	Detected, but Not Quantified
E	Estimated value
I	Bacti result, Inconclusive value. Analyzed, but result is undetermined
ND	Non-detected
P	Bacti result, present

QC Type

Code	Description
BLK	Method Blank Sample
CAL	Calibration Sample
CCV	Continuing Calibration Verification Sample
DUP	Duplicate Sample
ICV	Initial Calibration Verification Sample
LCS	Laboratory Control Standard Sample
LCSD	Laboratory Control Standard Duplicate Sample
MRL_CK	Method Reporting Level Check Sample
SPK	Matrix Spike Sample
SPKD	Matrix Spike Duplicate Sample

Please email labfeedback@sfgwater.org to report any comments, complaints, compliments or suggestions. Please provide detailed descriptions and attach documentation as necessary.

Reported By:

Technical Manager



Digitally signed by
Dolson Kwan
Date: 2024.08.29
08:30:58 -0700'

Reported On: 29-Aug-2024

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