INTEGRATED
PERFORMANCE
CONSULTANTS

October 28th, 2022

Renee Purdy
Executive Officer II
California Regional Water Quality Control Board
Los Angeles Region

Attention: Information Technology Unit

Malibu Civic Center WTP — WDR: R4-2015-0051
2022 3rd Quarter Monitoring Report — MRP: CI-10042

OVERVIEW

Malibu Civic Center Wastewater Treatment Plant performed well all quarter, meeting all permit limits.

SUMMARY OF NON-COMPLIANCE

There were no instances of non-compliance during this reporting period.

INFLUENT & EFFLUENT MONITORING

Monthly influent and effluent monitoring are shown in Attachment A. Quarterly effluent monitoring results are shown in Attachment B. Annual effluent monitoring results are shown in Attachment D.

WASTE HAULING

Hauling details are shown in Attachment C.

IPC, Inc. · 9297 Research Drive · Irvine, CA 92618
(949) 472-0160 · FAX (949) 472-2060

GROUNDWATER AND SURFACE WATER MONITORING

The results of groundwater and surface water monitoring are provided in the attached report compiled by Rincon Consultants.

All analyses were conducted at a laboratory certified for such analyses by the California Department of Health Services, and in accordance with current United States Environmental Protection Agency (USEPA) guideline procedures or as specified in this Monitoring Program. A copy of the ELAP certificate for Sierra Analytical and copies of the completed chain of custody forms are attached.

I certify under penalty of law that this document, including all attachments and supplemental information, were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment.

Executed on the 28th day of October 2022, at Irvine, CA.

Sincerely,

Ric Vardel, IPC Inc.
Chief Plant Operator, License V-4457

Integrated Performance Consultants, Inc.
Contract Operator, License CO-0083

ATTACHMENT A: DAILY, WEEKLY, & MONTHLY INFLUENT & EFFLUENT DATA

	INFLUENT			EFFLUENT																																		
	DAILY	WEEKLY		DAILY																WEEKLY											MONTHLY							
	Q Total Influent	TSS	BOD	Q Total Effluent	Q Lower Reuse	Q Upper Reuse	Q Injection	Q Percolation	Turbidity Avg	Turbidity Max	Turbidity > 0.2	UVT	UV Dose	pH	Total Coliform	Total Coliform	Fecal Coliform	Resid Cl2	BOD	BOD Removal	TSS	TSS Removal	NOx-N	NO3-N	NO2-N	NH3-N	TKN	Organic-N	Total-N	Oil & Grease	Total-P	TDS	Sulfate	Chloride	Boron	MBAS
Units	*kgal*	*mg/L*	*mg/L*	*kgal*	*kgal*	*kgal*	*kgal*	*kgal*	*ntu*	*ntu*	*%*	*%*	*mJ/cm2*	*units*	*mpn*	*mpn*	*mpn*	*mg/L*	*mg/L*	*%*	*mg/L*	*%*	*mg/L*	*mg/L*	*mg/L*	*mpn*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
Limit 1	191			191				50	0.2	0.5	5	65	80	6.5		2.2			20	85	15	85	8	8	1				10		2,000	500	500	2	0.5
Limit 2														8.5	23	7 day			30		40								15							
Limit 3															240	med			45		45															
07/01/2022	Fri	69.2			64.3	0.0	31.8	32.5	0.0	0.03	0.03	0.00	69.7	107.3	7.8	1.79	1.79	1.79	0.150																			
07/02/2022	Sat	71.2			63.7	0.0	0.4	63.3	0.0	0.03	0.04	0.00	69.7	106.4	7.6	1.79	1.79	1.79	0.100																			
07/03/2022	Sun	69.4			69.7	0.0	11.5	58.2	0.0	0.03	0.04	0.00	69.6	106.0	8.1	1.79	1.79	1.79	0.170																			
07/04/2022	Mon	60.3			57.9	0.0	36.5	21.5	0.0	0.03	0.26	0.01	68.9	106.9	7.5	1.79	1.79	1.79	0.160																			
07/05/2022	Tue	58.6	299	444	63.6	0.0	15.6	48.0	0.0	0.03	0.29	0.01	67.9	107.3	7.4	1.79	1.79	1.79	0.160	1.9	99.6	0.9	99.7	0.1	0.1	0.01	0.09	0.99	0.90	1.13							
07/06/2022	Wed	55.4			57.3	0.0	32.0	25.3	0.0	0.03	0.04	0.00	66.7	107.8	7.4	1.79	1.79	1.79	0.150																			
07/07/2022	Thu	56.3			55.3	0.0	18.4	36.9	0.0	0.03	0.04	0.00	66.5	108.8	7.4	1.79	1.79	1.79	0.140																			
07/08/2022	Fri	64.0			52.4	0.0	32.5	19.9	0.0	0.03	0.04	0.00	68.4	108.1	7.4	1.79	1.79	1.79	0.150																			
07/09/2022	Sat	64.8			58.6	0.0	17.3	41.3	0.0	0.03	0.04	0.00	69.2	106.9	7.5	1.79	1.79	1.79	0.090																			
07/10/2022	Sun	64.4			69.7	0.0	17.6	52.0	0.0	0.03	0.04	0.00	68.0	105.2	7.4	1.79	1.79	1.79	0.090																			
07/11/2022	Mon	56.1			52.2	0.0	31.0	21.2	0.0	0.04	0.28	0.02	68.9	115.8	7.4	1.79	1.79	1.79	0.150																			
07/12/2022	Tue	51.6	265	402	57.1	0.0	17.1	40.0	0.0	0.03	0.26	0.01	69.0	123.9	7.4	1.79	1.79	1.79	0.090	1.9	99.5	0.9	99.7	0.1	0.1	0.01	0.19	1.20	1.01	1.33	4.9	0.5	1,000	196	306	0.25	0.20
07/13/2022	Wed	66.0			54.2	0.0	43.8	10.4	0.0	0.03	0.04	0.00	68.9	116.1	7.4	1.79	1.79	1.79	0.160																			
07/14/2022	Thu	59.7			64.6	0.0	23.6	41.1	0.0	0.03	0.04	0.00	69.6	110.7	7.6	1.79	1.79	1.79	0.140																			
07/15/2022	Fri	59.5			51.0	0.0	42.8	8.2	0.0	0.03	0.04	0.00	70.4	117.0	7.5	1.79	1.79	1.79	0.100																			
07/16/2022	Sat	68.7			61.8	0.0	11.7	50.1	0.0	0.03	0.04	0.00	70.9	122.9	7.6	2.00	1.79	1.79	0.100																			
07/17/2022	Sun	69.0			69.0	0.0	17.6	51.4	0.0	0.03	0.04	0.00	71.5	115.5	7.5	1.79	1.79	1.79	0.180																			
07/18/2022	Mon	60.0			55.9	0.0	26.4	29.4	0.0	0.03	0.11	0.00	71.5	109.5	7.5	1.79	1.79	1.79	0.140																			
07/19/2022	Tue	59.4	294	516	61.1	0.0	17.6	43.5	0.0	0.03	0.28	0.01	70.4	115.9	7.5	1.79	1.79	1.79	0.130	2.0	99.6	0.9	99.7	0.1	0.1	0.05	0.19	0.94	0.75	1.07							
07/20/2022	Wed	65.2			60.6	0.0	37.9	22.7	0.0	0.03	0.04	0.00	69.9	115.6	7.4	1.79	1.79	1.79	0.130																			
07/21/2022	Thu	58.0			60.6	0.0	13.8	46.8	0.0	0.03	0.04	0.00	69.7	114.2	7.2	1.79	1.79	1.79	0.150																			
07/22/2022	Fri	60.9			54.6	0.0	16.8	37.8	0.0	0.03	0.04	0.00	69.7	107.5	7.3	1.79	1.79	1.79	0.060																			
07/23/2022	Sat	64.9			63.6	0.0	6.4	57.3	0.0	0.03	0.03	0.00	68.8	107.5	7.4	1.79	1.79	1.79	0.070																			
07/24/2022	Sun	66.8			63.3	0.0	19.1	44.2	0.0	0.03	0.03	0.00	67.9	103.6	7.4	1.79	1.79	1.79	0.110																			
07/25/2022	Mon	58.0			54.8	0.0	22.9	31.9	0.0	0.06	0.26	0.01	67.0	105.5	7.2	1.79	1.79	1.79	0.170																			
07/26/2022	Tue	54.7	330	542	52.6	0.0	12.4	40.2	0.0	0.03	0.25	0.01	66.2	107.5	7.2	1.79	1.79	1.79	0.160	1.9	99.6	0.9	99.7	0.3	0.2	0.03	0.19	1.02	0.83	1.29							
07/27/2022	Wed	63.6			60.1	0.0	30.6	29.5	0.0	0.03	0.04	0.00	66.1	112.0	7.3	1.79	1.79	1.79	0.170																			
07/28/2022	Thu	57.9			63.2	0.0	15.2	48.0	0.0	0.03	0.04	0.00	66.2	116.0	7.5	1.79	1.79	1.79	0.140																			
07/29/2022	Fri	58.2			50.6	0.0	20.2	30.4	0.0	0.03	0.04	0.00	66.1	111.1	7.5	1.79	1.79	1.79	0.140																			
07/30/2022	Sat	64.9			64.2	0.0	4.9	59.3	0.0	0.03	0.04	0.00	66.2	106.6	7.2	1.79	1.79	1.79	0.060																			
07/31/2022	Sun	63.8			60.4	0.0	13.4	47.0	0.0	0.03	0.04	0.00	68.0	110.8	7.1	1.79	1.79	1.79	0.060																			
TOTAL	1,921			1,848	0.0	659	1,189	0																													
MAX	71.2	330	542	69.7	0.0	43.8	63.3	0.0	0.06	0.29	0.02	71.5	123.9	8.1	2.00	1.79	1.79	0.180	2.0	99.6	0.9	99.7	0.3	0.2	0.05	0.19	1.20	1.01	1.33	4.9	0.5	1,000	196	306	0.25	0.20
AVG	62.0	297	476	59.6	0.0	21.2	38.4	0.0	0.03	0.09	0.00	68.6	110.8	7.4	1.80	1.79	1.79	0.128	1.9	99.6	0.9	99.7	0.2	0.1	0.02	0.17	1.04	0.87	1.20	4.9	0.5	1,000	196	306	0.25	0.20
MIN	51.6	265	402	50.6	0.0	0.4	8.2	0.0	0.03	0.03	0.00	66.1	103.6	7.1	1.79	1.79	1.79	0.060	1.9	99.5	0.9	99.7	0.1	0.1	0.01	0.09	0.94	0.75	1.07	4.9	0.5	1,000	196	306	0.25	0.20

KEY:	SE	Sample Error	AE	Analytical Error	NS	No Sample	PND	Results Pending	###	Range Limit 1 Exceeded	###	Range Limit 2 Exceeded

ATTACHMENT A: DAILY, WEEKLY, & MONTHLY INFLUENT & EFFLUENT DATA

		INFLUENT			EFFLUENT																																	
		DAILY	WEEKLY		DAILY															WEEKLY											MONTHLY							
		Q Total Influent	TSS	BOD	Q Total Effluent	Q Lower Reuse	Q Upper Reuse	Q Injection	Q Percolation	Turbidity Avg	Turbidity Max	Turbidity > 0.2	UVT	UV Dose	pH	Total Coliform	Total Coliform	Fecal Coliform	Resid Cl2	BOD	BOD Removal	TSS	TSS Removal	NOx-N	NO3-N	NO2-N	NH3-N	TKN	Organic-N	Total-N	Oil & Grease	Total-P	TDS	Sulfate	Chloride	Boron	MBAS
	Units	*kgal*	*mg/L*	*mg/L*	*kgal*	*kgal*	*kgal*	*kgal*	*kgal*	*ntu*	*ntu*	*%*	*%*	*mJ/cm2*	*units*	*mpn*	*mpn*	*mpn*	*mg/L*	*mg/L*	*%*	*mg/L*	*%*	*mg/L*	*mg/L*	*mg/L*	*mpn*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
	Limit 1	191			191				50	0.2	0.5	5	65	80	6.5		2.2			20	85	15	85	8	8	1				10		2,000	500	500	2	0.5
	Limit 2														8.5	23	7 day			30		40								15							
	Limit 3															240	med			45		45															
08/01/2022	Mon	55.2			58.5	0.0	23.7	34.9	0.0	0.03	0.22	0.01	67.7	115.8	7.5	1.79	1.79	1.79	0.240																			
08/02/2022	Tue	51.9	285	663	51.5	0.0	13.7	37.8	0.0	0.03	0.27	0.01	67.3	112.2	7.4	1.79	1.79	1.79	0.150	6.0	99.1	0.9	99.7	0.3	0.2	0.01	0.09	0.54	0.45	0.79								
08/03/2022	Wed	58.0			58.5	0.0	30.9	27.6	0.0	0.03	0.04	0.00	67.2	108.5	7.4	1.79	1.79	1.79	0.200																			
08/04/2022	Thu	52.2			39.8	0.0	2.1	37.8	0.0	0.03	0.04	0.00	67.9	113.1	7.5	1.79	1.79	1.79	0.140																			
08/05/2022	Fri	57.5			45.5	0.0	0.6	45.0	0.0	0.03	0.31	0.02	68.2	113.3	7.8	1.79	1.79	1.79	0.049																			
08/06/2022	Sat	63.5			58.5	0.0	0.5	58.1	0.0	0.03	0.04	0.00	68.0	106.8	7.6	1.79	1.79	1.79	0.150																			
08/07/2022	Sun	63.3			58.7	0.0	1.5	57.3	0.0	0.03	0.04	0.00	67.4	106.5	7.8	1.79	1.79	1.79	0.050																			
08/08/2022	Mon	52.4			54.8	0.0	5.3	49.5	0.0	0.09	0.22	0.01	67.0	108.6	7.5	1.79	1.79	1.79	0.090																			
08/09/2022	Tue	54.7	331	688	50.4	0.0	0.5	50.0	0.0	0.01	0.24	0.01	66.7	109.2	7.5	1.79	1.79	1.79	0.110	5.0	99.3	0.9	99.7	0.3	0.3	0.01	0.19	0.62	0.43	0.91	4.9	0.0	776	198	209	0.29	0.20
08/10/2022	Wed	67.1			63.1	0.0	0.4	62.7	0.0	0.01	0.02	0.00	66.9	104.7	7.5	1.79	1.79	1.79	0.180																			
08/11/2022	Thu	61.6			56.7	0.0	1.2	55.5	0.0	0.01	0.02	0.00	68.4	113.2	7.3	1.79	1.79	1.79	0.090																			
08/12/2022	Fri	55.9			50.8	0.0	1.8	49.0	0.0	0.01	0.02	0.00	68.8	111.6	7.8	1.79	1.79	1.79	0.080																			
08/13/2022	Sat	67.7			63.8	0.0	5.6	58.2	0.0	0.01	0.02	0.00	68.6	105.2	7.5	1.79	1.79	1.79	0.140																			
08/14/2022	Sun	60.6			60.8	0.0	0.4	60.5	0.0	0.01	0.02	0.00	68.3	107.3	7.6	1.79	1.79	1.79	0.170																			
08/15/2022	Mon	56.8			52.7	0.0	0.6	52.1	0.0	0.01	0.21	0.01	67.8	106.6	7.6	1.79	1.79	1.79	0.140																			
08/16/2022	Tue	53.6			52.4	0.0	0.6	51.7	0.0	0.01	0.23	0.01	67.1	106.1	7.5	1.79	1.79	1.79	0.120			0.9	99.7	0.3	0.2	0.04	0.19	0.64	0.45	0.90								
08/17/2022	Wed	51.3			49.8	0.0	1.5	48.3	0.0	0.01	0.02	0.00	66.4	107.9	7.5	1.79	1.79	1.79	0.100																			
08/18/2022	Thu	54.6	274	530	45.5	0.0	1.2	44.4	0.0	0.01	0.02	0.00	67.7	111.1	7.8	1.79	1.79	1.79	0.040	2.0	99.6																
08/19/2022	Fri	61.1			66.9	0.0	12.4	54.5	0.0	0.01	0.02	0.00	68.4	110.4	7.6	1.79	1.79	1.79	0.160																			
08/20/2022	Sat	61.7			50.8	0.0	3.6	47.2	0.0	0.01	0.02	0.00	68.5	109.5	7.7	1.79	1.79	1.79	0.210																			
08/21/2022	Sun	58.4			59.8	0.0	12.7	47.2	0.0	0.01	0.02	0.00	68.5	88.5	7.6	1.79	1.79	1.79	0.100																			
08/22/2022	Mon	52.8			45.7	0.0	16.5	29.2	0.0	0.01	0.15	0.00	68.0	99.4	7.7	1.79	1.79	1.79	0.150																			
08/23/2022	Tue	53.1	272	564	55.2	0.0	13.1	42.1	0.0	0.01	0.21	0.01	67.5	112.5	7.0	1.79	1.79	1.79	0.170	2.0	99.6	0.9	99.7	0.4	0.4	0.01	0.09	0.76	0.67	1.12								
08/24/2022	Wed	54.6			46.6	0.0	12.9	33.6	0.0	0.01	0.02	0.00	66.8	115.3	7.5	1.79	1.79	1.79	0.160																			
08/25/2022	Thu	56.2			58.8	0.0	11.3	47.5	0.0	0.01	0.02	0.00	66.6	115.4	7.5	1.79	1.79	1.79	0.170																			
08/26/2022	Fri	66.3			63.1	0.0	33.1	30.1	0.0	0.01	0.32	0.01	66.6	109.3	7.8	1.79	1.79	1.79	0.170																			
08/27/2022	Sat	63.0			54.3	0.0	4.3	50.0	0.0	0.01	0.02	0.00	67.0	110.4	7.4	1.79	1.79	1.79	0.120																			
08/28/2022	Sun	60.7			62.9	0.0	13.8	49.1	0.0	0.01	0.02	0.00	67.1	109.8	7.9	1.79	1.79	1.79	0.180																			
08/29/2022	Mon	50.6			55.4	0.0	22.2	33.2	0.0	0.01	0.09	0.00	66.8	113.5	7.5	1.79	1.79	1.79	0.080																			
08/30/2022	Tue	49.4	236	583	52.4	0.0	13.8	38.6	0.0	0.01	0.20	0.00	66.4	113.7	7.5	1.79	1.79	1.79	0.130	5.0	99.1	3.0	98.7	1.0	1.0	0.04	0.24	1.16	0.92	2.15								
08/31/2022	Wed	49.9			39.5	0.0	25.1	14.4	0.0	0.01	0.02	0.00	65.7	111.6	7.5	1.79	1.79	1.79	0.120																			
TOTAL		1,775			1,683	0	286	1,397	0																													
MAX		67.7	331	688	66.9	0.0	33.1	62.7	0.0	0.09	0.32	0.02	68.8	115.8	7.9	1.79	1.79	1.79	0.240	6.0	99.6	3.0	99.7	1.0	1.0	0.04	0.24	1.16	0.92	2.15	4.9	0.0	776	198	209	0.29	0.20
AVG		57.3	280	606	54.3	0.0	9.2	45.1	0.0	0.02	0.10	0.00	67.5	109.3	7.6	1.79	1.79	1.79	0.134	4.0	99.4	1.3	99.5	0.4	0.4	0.02	0.16	0.74	0.58	1.17	4.9	0.0	776	198	209	0.29	0.20
MIN		49.4	236	530	39.5	0.0	0.4	14.4	0.0	0.01	0.02	0.00	65.7	88.5	7.0	1.79	1.8	1.79	0.040	2.0	99.1	0.9	98.7	0.3	0.2	0.01	0.09	0.54	0.43	0.79	4.9	0.0	776	198	209	0.29	0.20

KEY:	SE	Sample Error	AE	Analytical Error	NS	No Sample	PND	Results Pending	###	Range Limit 1 Exceeded	###	Range Limit 2 Exceeded

ATTACHMENT A: DAILY, WEEKLY, & MONTHLY INFLUENT & EFFLUENT DATA

		INFLUENT			EFFLUENT																																	
		DAILY	WEEKLY		DAILY															WEEKLY											MONTHLY							
		Q Total Influent	TSS	BOD	Q Total Effluent	Q Lower Reuse	Q Upper Reuse	Q Injection	Q Percolation	Turbidity Avg	Turbidity Max	Turbidity > 0.2	UVT	UV Dose	pH	Total Coliform	Total Coliform	Fecal Coliform	Resid Cl2	BOD	BOD Removal	TSS	TSS Removal	NOx-N	NO3-N	NO2-N	NH3-N	TKN	Organic-N	Total-N	Oil & Grease	Total-P	TDS	Sulfate	Chloride	Boron	MBAS
Units		*kgal*	*mg/L*	*mg/L*	*kgal*	*kgal*	*kgal*	*kgal*	*kgal*	*ntu*	*ntu*	*%*	*%*	*mJ/cm2*	*units*	*mpn*	*mpn*	*mpn*	*mg/L*	*mg/L*	*%*	*mg/L*	*%*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
Limit 1		191			191				50	0.2	0.5	5	65	80	6.5		2.2			20	85	15	85	8	8	1				10		2,000	500	500	2	0.5
Limit 2															8.5	23	7 day			30		40								15							
Limit 3																240	med			45		45															
09/01/2022	Thu	70.8			67.2	0.0	14.3	52.8	0.0	0.01	0.02	0.00	66.0	107.4	7.6	1.79	1.79	1.79	0.180																			
09/02/2022	Fri	68.6			63.5	0.0	40.1	23.4	0.0	0.01	0.02	0.00	67.5	105.6	7.6	1.79	1.79	1.79	0.150																			
09/03/2022	Sat	65.1			61.7	0.0	9.1	52.6	0.0	0.01	0.02	0.00	67.8	107.7	7.4	1.79	1.79	1.79	0.170																			
09/04/2022	Sun	65.6			62.2	0.0	12.9	49.3	0.0	0.01	0.02	0.00	68.1	107.3	7.5	1.79	1.79	1.79	0.090																			
09/05/2022	Mon	66.1			61.7	0.0	31.9	29.8	0.0	0.01	0.17	0.00	68.4	109.7	7.4	1.79	1.79	1.79	0.090																			
09/06/2022	Tue	56.1	316	485	65.5	0.0	12.9	52.6	0.0	0.01	0.22	0.01	68.7	116.3	7.5	1.79	1.79	1.79	0.150	4.0	99.2	0.9	99.7	0.2	0.2	0.05	0.09	0.74	0.65	0.96							
09/07/2022	Wed	59.1			50.5	0.0	32.2	18.3	0.0	0.01	0.02	0.00	68.2	110.9	7.5	1.79	1.79	1.79	0.100																			
09/08/2022	Thu	80.0			69.1	0.0	0.6	68.4	0.0	0.01	0.02	0.00	69.0	108.4	6.7	1.79	1.79	1.79	0.150																			
09/09/2022	Fri	78.9			77.4	0.0	0.3	77.0	0.0	0.01	0.02	0.00	71.8	114.3	6.8	1.79	1.79	1.79	0.190																			
09/10/2022	Sat	66.2			72.2	0.0	0.3	71.8	0.0	0.01	0.02	0.00	67.2	108.5	7.6	1.79	1.79	1.79	0.080																			
09/11/2022	Sun	64.9			63.4	0.0	0.4	63.0	0.0	0.01	0.02	0.00	66.8	105.6	7.7	1.79	1.79	1.79	0.130																			
09/12/2022	Mon	64.8			43.9	0.0	0.9	43.0	0.0	0.01	0.15	0.00	67.6	106.1	6.7	1.79	1.79	1.79	0.100																			
09/13/2022	Tue	59.2	216	429	44.7	0.0	12.9	31.8	0.0	0.02	0.31	0.03	66.4	106.3	7.5	1.79	1.79	1.79	0.200	3.0	99.3	0.9	99.6	0.3	0.3	0.01	0.09	1.12	1.03	1.38							
09/14/2022	Wed	70.9			49.6	0.0	20.7	28.9	0.0	0.01	0.02	0.00	68.5	105.9	7.6	1.79	1.79	1.79	0.130																			
09/15/2022	Thu	62.0			59.2	0.0	13.7	45.5	0.0	0.01	0.02	0.00	70.0	105.5	7.5	1.79	1.79	1.79	0.230																			
09/16/2022	Fri	64.6			49.9	0.0	33.4	16.4	0.0	0.01	0.02	0.00	70.5	105.5	7.4	1.79	1.79	1.79	0.200																			
09/17/2022	Sat	67.7			46.5	0.0	3.7	42.8	0.0	0.01	0.02	0.00	70.5	104.6	7.5	1.79	1.79	1.79	0.110																			
09/18/2022	Sun	63.2			58.4	0.0	13.2	45.3	0.0	0.01	0.02	0.00	70.7	106.2	7.2	1.79	1.79	1.79	0.120																			
09/19/2022	Mon	57.5			44.1	0.0	21.1	23.0	0.0	0.01	0.02	0.00	70.7	119.0	7.4	1.79	1.79	1.79	0.100																			
09/20/2022	Tue	62.0	264	371	51.8	0.0	13.3	38.6	0.0	0.01	0.07	0.00	69.9	122.4	7.2	1.79	1.79	1.79	0.070	3.0	99.2	0.9	99.7	0.2	0.2	0.05	0.09	1.08	0.99	1.28							
09/21/2022	Wed	67.7			47.0	0.0	21.1	25.9	0.0	0.01	0.02	0.00	70.0	117.5	7.8	1.79	1.79	1.79	0.110																	4.9	1.8	812	189	176	0.30	0.19
09/22/2022	Thu	60.8			59.4	0.0	13.6	45.8	0.0	0.01	0.02	0.00	69.4	112.9	7.6	1.79	1.79	1.79	0.080																			
09/23/2022	Fri	62.3			53.6	0.0	33.7	20.0	0.0	0.01	0.02	0.00	69.0	108.0	7.5	1.79	1.79	1.79	0.100																			
09/24/2022	Sat	66.0			54.9	0.0	3.7	51.2	0.0	0.01	0.02	0.00	68.9	105.8	7.5	1.79	1.79	1.79	0.049																			
09/25/2022	Sun	65.1			67.5	0.0	12.9	54.6	0.0	0.01	0.02	0.00	68.9	104.6	7.0	1.79	1.79	1.79	0.100																			
09/26/2022	Mon	57.1			54.1	0.0	21.5	32.6	0.0	0.01	0.09	0.00	68.6	136.7	7.7	1.79	1.79	1.79	0.060																			
09/27/2022	Tue	57.3	302	138	61.0	0.0	13.6	47.4	0.0	0.01	0.02	0.00	68.4	124.1	7.4	1.79	1.79	1.79	0.060	5.0	96.4	1.0	99.7	1.1	1.1	0.05	0.09	1.93	1.84	3.08							
09/28/2022	Wed	60.7			51.5	0.0	20.6	30.9	0.0	0.01	0.02	0.00	68.7	109.6	7.6	1.79	1.79	1.79	0.130																			
09/29/2022	Thu	53.1			63.1	0.0	12.7	50.4	0.0	0.01	0.02	0.00	68.9	109.2	7.5	1.79	1.79	1.79	0.070																			
09/30/2022	Fri	53.9			47.7	0.0	33.1	14.6	0.0	0.01	0.07	0.00	69.2	108.8	7.6	1.79	1.79	1.79	0.080																			
TOTAL		1,917			1,722	0	475	1,248	0																													
MAX		80.0	316	485	77.4	0.0	40.1	77.0	0.0	0.02	0.31	0.03	71.8	136.7	7.8	1.79	1.79	1.79	0.230	5.0	99.3	1.0	99.7	1.1	1.1	0.05	0.09	1.93	1.84	3.08	4.9	1.8	812	189	176	0.30	0.19
AVG		63.9	275	356	57.4	0.0	15.8	41.6	0.0	0.01	0.05	0.00	68.8	110.7	7.4	1.79	1.79	1.79	0.119	3.8	98.5	0.9	99.7	0.5	0.4	0.04	0.09	1.22	1.13	1.67	4.9	1.8	812	189	176	0.30	0.19
MIN		53.1	216	138	43.9	0.0	0.3	14.6	0.0	0.01	0.02	0.00	66.0	104.6	6.7	1.79	1.79	1.79	0.049	3.0	96.4	0.9	99.6	0.2	0.2	0.01	0.09	0.74	0.65	0.96	4.9	1.8	812	189	176	0.30	0.19

KEY:	SE	Sample Error	AE	Analytical Error	NS	No Sample	PND	Results Pending

###	Range Limit 1 Exceeded	###	Range Limit 2 Exceeded

ATTACHMENT B: QUARTERLY EFF

	>> DATE >>		1/12	4/13	7/26				
	MCL	Units	Q1	Q2	Q3	Q4	MAX	AVG	MIN
A1 - Inorganic Chemicals									
Aluminum	1	mg/L	0.036	0.050	0.048		0.05	0.044667	0.036
Antimony	0.006	mg/L	0.0009	0.0012	0.0014		0.0014	0.001167	0.0009
Arsenic	0.01	mg/L	0.0006	0.0008	0.0015		0.0015	0.000967	0.0006
Asbestos	7	MFL	0	0	0		0	0	0
Barium	1	mg/L	0.038	0.068	0.039		0.068	0.048333	0.038
Beryllium	0.004	mg/L	0.00019	0.00019	0.00019		0.00019	0.00019	0.00019
Cadmium	0.005	mg/L	0.00019	0.00019	0.00019		0.00019	0.00019	0.00019
Chromium	0.05	mg/L	0.0021	0.0027	0.0034		0.0034	0.002733	0.0021
Cyanide	0.15	mg/L	0.006	0.0039	0.003		0.006	0.004300	0.003
Mercury	0.002	mg/L	0.00019	0.00019	0.00049		0.00049	0.00029	0.00019
Nickel	0.1	mg/L	0.0049	0.0044	0.0051		0.0051	0.0048	0.0044
Selenium	0.05	mg/L	0.0019	0.0019	0.002		0.002	0.001933	0.0019
Thallium	0.002	mg/L	0.0009	0.0009	0.0009		0.0009	0.0009	0.0009
Perchlorate	0.006	mg/L	0	0	0		0	0	0
Fluoride	2	mg/L	0.6	0.7	1.35		1.35	0.883333	0.6
A2 - Radioactivity									
Radium-226 + Radium-228	5	pCi/L	1.053	1.053	1.053		1.053	1.053000	1.053
Gross Alpha Particle Activity[1]	15	pCi/L	2.41	2.08	2.71		2.71	2.4	2.08
Tritium	20,000	pCi/L	434	434	434		434	434	434
Strontium-90	8	pCi/L	0	0.519	0.275		0.519	0.264667	0
Gross Beta Particle Activity	50	pCi/L	5.7	2.03	1.610		5.7	3.113333	1.61
Uranium	20	pCi/L	1.4	1.5	1.40		1.5	1.433333	1.4
A3 - Volatile Organic Chemicals									
Benzene	0.001	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
Carbon Tetrachloride (CTC)	0.0005	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
1,2-Dichlorobenzene	0.6	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
1.4-Dichlorobenzene	0.005	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
1, 1-Dichloroethane	0.005	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
1,2-Dichloroethane (1,2-DCA)	0.0005	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
1, 1-Dichloroethene (1, 1-DCE)	0.006	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
Cis-1,2-Dichloroethylene	0.006	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
Trans-1,2-Dichloroethylene	0.01	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
Dichloromethane	0.005	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
1,2-Dichloropropane	0.005	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
1,3-Dichloropropene	0.0005	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
Ethylbenzene	0.3	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
Methyl-tert-butyl-ether (MTBE)	0.013	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
Monochlorobenzene	0.07	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
Styrene	0.1	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049

	>> DATE >>		1/12	4/13	7/26				
	MCL	Units	Q1	Q2	Q3	Q4	MAX	AVG	MIN
A3 - Non-Volatile Synthetic Organics									
Alachlor	0.002	mg/L	0.00019	0.00019	0.00019		0.00019	0.00019	0.00019
Atrazine	0.001	mg/L	0.00019	0.00019	0.00019		0.00019	0.00019	0.00019
Bentazon	0.018	mg/L	0.0009	0.0009	0.0011		0.0011	0.00097	0.0009
Benzo(a)pyrene	0.0002	mg/L	0.000049	0.000049	0.000049		0.000049	0.000049	0.000049
Carbofuran	0.018	mg/L	0	0	0		0	0	0
Chlordane	0.0001	mg/L	0.000089	0.00009	0.00009		0.00009	0.000090	0.000089
2,4-D	0.07	mg/L	0.0009	0.0009	0.009		0.009	0.0036	0.0009
Dalapon	0.2	mg/L	0.0049	0.0049	0.0049		0.0049	0.0049	0.0049
1,2-Dibromo-3-chloropropane (DBCP)	0.0002	mg/L	0.000009	0.000009	0.00003		0.00003	0.000016	0.000009
Di(2-ethylhexyl)adipate	0.4	mg/L	0.0019	0.0019	0.0019		0.0019	0.0019	0.0019
Di(2-ethylhexyl)phthalate	0.004	mg/L	0.0019	0.0019	0.0019		0.0019	0.0019	0.0019
Dinoseb	0.007	mg/L	0.0009	0.0028	0.0019		0.0028	0.00187	0.0009
Diquat	0.02	mg/L	0	0	0		0	0	0
Endothall	0.1	mg/L	0	0	0		0	0	0
Endrin	0.002	mg/L	0.000009	0.000009	0.00002		0.00002	0.000013	0.000009
Ethylene Dibromide (EDB)	0.00005	mg/L	0.000019	0.000019	0.000029		0.000029	0.000022	0.000019
Glyphosate	0.7	mg/L	0	0	0		0	0	0
Heptachlor	0.00001	mg/L	0.000009	0.000009	0.000009		0.000009	0.0000090	0.000009
Heptachlor Epoxide	0.00001	mg/L	0.000009	0.000009	0.000009		0.000009	0.0000090	0.000009
Hexachlorobenzene	0.001	mg/L	0.000009	0.000009	0.000009		0.000009	0.0000090	0.000009
Hexachlorocyclopentadiene	0.05	mg/L	0.0001	0.000009	0.00004		0.0001	0.0000497	0.000009
lindane	0.0002	mg/L	0.000009	0.000009	0.000009		0.000009	0.0000090	0.000009
Methoxychlor	0.03	mg/L	0.000049	0.000049	0.00008		0.00008	0.0000593	0.000049
Molinate	0.02	mg/L	0.00019	0.00019	0.00019		0.00019	0.0001900	0.00019
Oxamyl	0.05	mg/L	0	0	0		0	0	0
Pentachlorophenol	0.001	mg/L	0.000089	0.00009	0.00009		0.00009	0.0000897	0.000089
Picloram	0.5	mg/L	0.0009	0.0009	0.0009		0.0009	0.0009	0.0009
Polychlorinated Biphenyls	0.0005	mg/L	0.000089	0.00009	0.00009		0.00009	0.0000897	0.000089
Simazine	0.004	mg/L	0.0026	0.00019	0.00019		0.0026	0.0009933	0.00019
Thiobencarb	0.07	mg/L	0.00019	0.00019	0.00019		0.00019	0.00019	0.00019
Toxaphene	0.003	mg/L	0.000089	0.00009	0.00009		0.00009	0.0000897	0.000089
2,3,7,8-TCDD (Dioxin)	3x10-a	mg/L	0.00848	0.00842	0.00823		0.00848	0.0083767	0.00823
2,4,5-TP (Silvex)	0.05	mg/L	0.00019	0.00019	0.00019		0.00019	0.00019	0.00019
A4 - Disinfection Byproducts									
Total Trihalomethanes (TTHM)	0.08	ppb	10.5	10.2	14.4		14.4	11.7	10.2
Bromodichloromethane		ug/l	0.049	0.00049	4.8		4.8	1.61650	0.00049
Bromoform		ug/l	0.049	0.00049	0.00049		0.049	0.01666	0.00049
Chloroform		ug/l	10.5	10.2	10.2		10.5	10.3	10.2
Dibromochloromethane		ug/l	0.49	0.49	1.8		1.8	0.93	0.49
Haloacetic acid (five) (HAA5)	0.06	ppb	14.4	17.6	19.6		19.6	17.20	14.4

ATTACHMENT B: QUARTERLY EFF

	>> DATE >>		1/12	4/13	7/26				
	MCL	Units	Q1	Q2	Q3	Q4	MAX	AVG	MIN
1,1,2,2-Tetrachloroethane	0.001	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
Tetrachloroethylene (PCE)	0.005	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
Toluene	0.15	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
1,2,4-Trichlorobenzene	0.005	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
1, 1, 1-Trichloroethane	0.2	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
1, 1,2-Trichloroethane	0.005	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
Trichloroethylene (TCE)	0.005	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
Trichlorofluoromethane	0.15	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
1, 1,2-Trichloro-1,2,2-Trifluoroethane	1.2	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
Vinyl Chloride	0.0005	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
Xylene (m,p)	1.75	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049

Notes:
1) Including Radium-226 but Excluding Radon and Uranium)

	>> DATE >>		1/12	4/13	7/26				
	MCL	Units	Q1	Q2	Q3	Q4	MAX	AVG	MIN
Monochloroacetic acid		ppb	1.94	1.73	2.86		2.86	2.18	1.73
Dichloroacetic acid		ppb	8.14	10.2	9.5		10.2	9.29	8.14
Trichloroacetic acid		ppb	3.42	4.62	4.0		4.62	4.03	3.42
Monobromoacetic acid		ppb	0.9	1.00	1.93		1.93	1.28	0.9
Dibromoacetic acid		ppb	0.9	0.9	1.21		1.21	1.00	0.9
Bromate 121	0.01	ppb	4.9	664	27.3		664	232.07	4.9
Chlorite131	1	ppb	19	123	37.5		123	59.83	19
A5 - Secondary MCLs									
Aluminum	0.2	mg/L	0.036	0.05	0.048		0.05	0.044667	0.036
Color	150	CU	18.8	23.8	18.9		23.8	20.50	18.8
Copper	1	mg/L	0.0009	0.0011	0.0009		0.0011	0.000967	0.0009
Corrosivity (Langelier Index)	Non		-2.8	-0.21	-3.5		-0.21	-2.17	-3.5
Foam Agents (MBAS)	0.5	mg/L	0.45	0.19	0.63		0.63	0.423333	0.19
Iron	0.3	mg/L	0.02	0.09	0.04		0.09	0.05	0.02
Manganese	0.05	mg/L	0.023	0.066	0.031		0.066	0.0400000	0.023
Methyl-tert-butyl-ether (MTBE)	0.005	mg/L	0.00049	0.00049	0.00049		0.00049	0.00049	0.00049
Odor - Threshold	3	T.O.N.	1	1	0.9		1	0.966667	0.9
Silver	0.1	mg/L	0.00019	0.00019	0.00019		0.00019	0.00019	0.00019
Thiobencarb	0.001	mg/L	0.00019	0.00019	0.00019		0.00019	0.00019	0.00019
Zinc	5	mg/L	0.047	0.018	0.018		0.047	0.027667	0.018

Date	Day	Gallons	Location	Description	Reason for Haul	Destination	Hauler
07/13/2022	Wed	5,000	Solids Storage Tank	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping & Septic Systems
07/14/2022	Thu	5,000	Solids Storage Tank	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping & Septic Systems
08/03/2022	Wed	10,000	Solids Storage Tank	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping & Septic Systems
08/10/2022	Wed	10,000	Solids Storage Tank	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping & Septic Systems
09/14/2022	Wed	15,000	Solids Storage Tank	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping & Septic Systems
Total		**45,000**					

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 11-Jul-22 14:50
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22F0796-01) Collected: 30-Jun-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AF23014	1.8	30-Jun-22	02-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF23014	1.8	30-Jun-22	02-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG20714	0.1	30-Jun-22	30-Jun-22	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF23016	0.05	30-Jun-22	30-Jun-22	**0.20 mg/l**	
EFF (Sample I.D.# : 22G0007-01) Collected: 01-Jul-22 By CA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG20110	1.8	01-Jul-22	03-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG20110	1.8	01-Jul-22	03-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG20714	0.1	01-Jul-22	01-Jul-22	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG20114	0.05	01-Jul-22	01-Jul-22	**0.15 mg/l**	
EFF (Sample I.D.# : 22G0018-01) Collected: 02-Jul-22 By Customer							
Microbiological							
Fecal Coliforms	SM 9221E	AG20235	1.8	02-Jul-22	05-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG20235	1.8	02-Jul-22	05-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG20714	0.1	02-Jul-22	02-Jul-22	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG20533	0.05	05-Jul-22	05-Jul-22	**0.10 mg/l**	
EFF (Sample I.D.# : 22G0024-01) Collected: 03-Jul-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG20323	1.8	03-Jul-22	05-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG20323	1.8	03-Jul-22	05-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG20714	0.1	03-Jul-22	03-Jul-22	**8.1 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG20533	0.05	05-Jul-22	05-Jul-22	**0.17 mg/l**	

Respectfully Submitted,

Stephen Sakai 7/11/2022
Lab Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 11-Jul-22 14:50
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22G0032-01) Collected: 04-Jul-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG20528	1.8	05-Jul-22	08-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG20528	1.8	05-Jul-22	08-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG20714	0.1	04-Jul-22	04-Jul-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG20533	0.05	05-Jul-22	05-Jul-22	**0.16 mg/l**	
EFF (Sample I.D.# : 22G0073-01) Collected: 05-Jul-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG20528	1.8	05-Jul-22	08-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG20528	1.8	05-Jul-22	08-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG20714	0.1	05-Jul-22	05-Jul-22	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG20533	0.05	05-Jul-22	05-Jul-22	**0.16 mg/l**	
EFF (Sample I.D.# : 22G0109-01) Collected: 06-Jul-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG20627	1.8	06-Jul-22	08-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG20627	1.8	06-Jul-22	08-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG20714	0.1	06-Jul-22	06-Jul-22	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG20632	0.05	06-Jul-22	06-Jul-22	**0.15 mg/l**	
EFF (Sample I.D.# : 22G0157-01) Collected: 07-Jul-22 By KV of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG20716	1.8	07-Jul-22	09-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG20716	1.8	07-Jul-22	09-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG21130	0.1	07-Jul-22	07-Jul-22	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG20717	0.05	07-Jul-22	07-Jul-22	**0.14 mg/l**	

Respectfully Submitted,

Stephen Sakai 7/11/2022
Lab Director

PAT-CHEM
LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 11-Jul-22 14:50
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22G0187-01) Collected: 08-Jul-22 By CA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG20813	1.8	08-Jul-22	10-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG20813	1.8	08-Jul-22	10-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG21130	0.1	08-Jul-22	08-Jul-22	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG20827	0.05	08-Jul-22	08-Jul-22	**0.15 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 7/11/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22F0796

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive		Sampled by: Mario Aguirre	P.O. #:
Irvine CA 92618		Report Attention: Eric Vardel / Golan Kfir	Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	6/30/22	12:06	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
JUN 30 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Mario Aguirre (IPC)	6/30/22	12:10
Received by		Juan Deniz (IPC)	6/30/22	12:13
Relinquished by		Juan Deniz IPC	6/30/22	13:35
Received by				
Relinquished by				
Received in lab by			JUN 30 2022	1335

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	**HC** - HCl
Comp	**HS** - H_2SO_4
Matrix	**HN** - HNO_3
AQ - Water	**HP** - H_3PO_4
SO -Soil / Sludge	**OH** - NaOH
OT - Other	**ST** - Sodium Thiosulfate
Bottle Type	**AA** - Ascorbic Acid
P - Plastic	**Al** - $AlCl_3$
G - Amber Glass	**Cu** -$CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2260007

Customer: IPC - Integrated Performance Consultants, Inc.		**Project:** (MCC) Daily EFF	
Address: 9297 Research Drive		**Sampled by:** Carlos Alvarez	**P.O. #:**
Irvine CA 92618		**Report Attention:** Ric Vardel / Golan Kfir	**Phone #:** 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	07/01/22	1150	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	
1	1	1							
Geotracker EDD:									
Logcode: iPCI									
Global ID: WDR100000359									

RECEIVED
JUL 01 2022

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (SRE)	07/01/22	1158
Received by		Jonathan V. Ipus	07/01	12:09
Relinquished by		Jonathan V. Ipus	07/1	13:25
Received by				
Relinquished by				
Received in lab by		JUL 01 2022		1325

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Sample Received Checklist

Temperature upon receipt:	4°C
# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22G0018

Customer:	IPC - Integrated Performance Consultants, Inc.	Project:	(MCC) Daily EFF
Address:	9297 Research Drive	Sampled by:	Jesus Avalos
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7/2/22	11:50	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
〃	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avalos	Jesus Avalos (IPC)	7/2/22	11:55
Received by:	Richard Martinez (PCL)	7/2/22	1215
Relinquished by:			
Received by:			
Relinquished by:			
Received in lab by:	Richard Martinez (PCL)	07/02/22	1500

Sample Received Checklist

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO - Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2260024

Customer: IPC - Integrated Performance Consultants, Inc.
Project: (MCC) Daily EFF

Address: 9297 Research Drive
Irvine CA 92618

Sampled by: E. Morris
Report Attention: Ric Vardel / Golan Kfir

P.O. #:
Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7-3-22	940	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	8.1 / 16.2 C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
JUL 03 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: E. Morris	E. MORRIS IPC	7-3-22	945
Received by: CM	Cindy MAPTINEZ	7.3.22	11:15
Relinquished by: CM	Cindy MARTINEZ	7.3.22	1245
Received by:			
Relinquished by:			
Received in lab by:	JUL 03 2022		12:45

Sample Received Checklist

Temperature upon receipt: 4 °C
# of bottles agrees with COC? Yes No
Samples intact? Yes No
Samples properly preserved? Yes No
Samples in holding time? Yes No

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2260032

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	**(MCC) Daily EFF**
Address:	9297 Research Drive	Sampled by:	E. Morris
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field (Lab)
EFF	7-4-22	1000	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	pH: 7.48
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	Temp: 5.3°c

RECEIVED
JUL 04 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	E. Morris	E. Morris	7-4-22	1015
Received by	Alex Walker Jr.	Alex Walker Jr.	7-4-22	1320
Relinquished by				
Received by				
Relinquished by				
Received in lab by	Alex Walker Jr.		JUL 04 2022	1530

Sample Received Checklist

Temperature upon receipt: 4°C
# of bottles agrees with COC? Yes No
Samples intact? Yes No
Samples properly preserved? Yes No
Samples in holding time? Yes No

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type	Preservations
Grab	**HC** - HCl
Comp	**HS** - H_2SO_4
Matrix	**HN** - HNO_3
AQ - Water	**HP** - H_3PO_4
SO -Soil / Sludge	**OH** - NaOH
OT - Other	**ST** - Sodium Thiosulfate
Bottle Type	**AA** - Ascorbic Acid
P - Plastic	**Al** - $AlCl_3$
G - Amber Glass	**Cu** -$CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 226@073

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	**(MCC) Daily EFF**
Address:	9297 Research Drive	Sampled by:	
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7-5-22	1105	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.45/23.2°C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
JUL 05 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		E. Morris	7-5-22	1134
Received by		Juan Deris (PCL)	7-5-22	12:42
Relinquished by		Juan Deris (PCL)	7/5/22	15:28
Received by				
Relinquished by				
Received in lab by		JUL 05 2022		1528

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO -Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu -$CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 226109

Customer:	IPC - Integrated Performance Consultants, Inc.	Project:	(MCC) Daily EFF
Address:	9297 Research Drive	Sampled by:	emorris
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7-6-22	1040	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.40/19.8°C
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
JUL 06 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: emorris	E. Morris	7-6-22	1117
Received by:	Juan Davis (PCL)	7-6-22	13:57
Relinquished by:	Juan Davis (PCL)	7-6-22	17:21
Received by:			
Relinquished by:			
Received in lab by:		JUL 06 2022	1721

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	**HC** - HCl
Comp	**HS** - H_2SO_4
Matrix	**HN** - HNO_3
AQ - Water	**HP** - H_3PO_4
SO -Soil / Sludge	**OH** - NaOH
OT - Other	**ST** - Sodium Thiosulfate
Bottle Type	**AA** - Ascorbic Acid
P - Plastic	**Al** - $AlCl_3$
G - Amber Glass	**Cu** -$CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 220157

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	**(MCC) Daily EFF**
Address:	9297 Research Drive	Sampled by:	Kyle Vardel
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: ~~Field~~ Lab
EFF	7/7/22	1120	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.40 / 26.6°C
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
JUL 07 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Kyle Vardel (IPC)	7/7/22	1125
Received by		Armando Olmos (PCL)	7/7/22	12:20
Relinquished by		Armando Olmos (PCL)	7/7/22	15:15
Received by				
Relinquished by				
Received in lab by		JUL 07 2022		15:15

Sample Received Checklist

Temperature upon receipt: 4.0 °C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type: Grab, Comp

Matrix: AQ - Water; SO -Soil / Sludge; OT - Other

Bottle Type: P - Plastic; G - Amber Glass; VOA - 40 ml Vial; Coli - bacteria

Preservations: HC - HCl; HS - H_2SO_4; HN - HNO_3; HP - H_3PO_4; OH - NaOH; ST - Sodium Thiosulfate; AA - Ascorbic Acid; Al - $AlCl_3$; Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2260187

Customer:	IPC - Integrated Performance Consultants, Inc.	Project:	(MCC) Daily EFF
Address:	9297 Research Drive	Sampled by:	Carlos Alvarez
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	07/08/22	1204	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.35 / 25.2
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
JUL 08 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	07/08/22	1210
Received by		Armando Olmos (PCL)	7/8/22	12:10
Relinquished by		Armando Olmos (PCL)	7/8/22	1405
Received by				
Relinquished by				
Received in lab by			JUL 08 2022	1405

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO - Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	AI - $AlCl_3$
G - Amber Glass	Cu - $CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 15-Jul-22 11:06
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22G0204-01) Collected: 09-Jul-22 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG21014	1.8	10-Jul-22	12-Jul-22	**<1.8 MPN/100 ml**	O-04
Total Coliforms	SM 9221B	AG21014	1.8	10-Jul-22	12-Jul-22	**<1.8 MPN/100 ml**	O-04
Inorganic Constituents							
pH	SM 4500H-B	AG21130	0.1	09-Jul-22	09-Jul-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG21136	0.05	11-Jul-22	11-Jul-22	**0.09 mg/l**	
EFF (Sample I.D.# : 22G0216-01) Collected: 10-Jul-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG21014	1.8	10-Jul-22	12-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG21014	1.8	10-Jul-22	12-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG21130	0.1	10-Jul-22	10-Jul-22	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG21136	0.05	11-Jul-22	11-Jul-22	**0.09 mg/l**	
EFF (Sample I.D.# : 22G0231-01) Collected: 11-Jul-22 By DH of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG21132	1.8	11-Jul-22	14-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG21132	1.8	11-Jul-22	14-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG21509	0.1	11-Jul-22	11-Jul-22	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG21136	0.05	11-Jul-22	11-Jul-22	**0.15 mg/l**	
EFF (Sample I.D.# : 22G0260-01) Collected: 12-Jul-22 By MA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG21222	1.8	12-Jul-22	14-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG21222	1.8	12-Jul-22	14-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG21509	0.1	12-Jul-22	12-Jul-22	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG21228	0.05	12-Jul-22	12-Jul-22	**0.09 mg/l**	

Respectfully Submitted,

Stephen Sakai 7/15/2022
Lab Director

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 15-Jul-22 11:06
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Notes and Definitions

O-04 This sample was analyzed outside the EPA recommended holding time.

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 7/15/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 220204

Customer:	IPC - Integrated Performance Consultants, Inc.	Project:	(MCC) Daily EFF
Address:	9297 Research Drive	Sampled by:	Jose Avalos
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7/9/22	11:50	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
〃	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: Jose Avalos	Jose Avalos (IPC)	7/9/22	11:55
Received by:	Richard Martinez (BC)	7/9/22	11:55
Relinquished by:			
Received by:			
Relinquished by:			
Received in lab by:	Richard Martinez (PC)	7/9/22	1550

Sample Received Checklist

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2260216

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	**(MCC) Daily EFF**
Address:	9297 Research Drive	Sampled by:	
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
P.O. #:		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field (Lab)
EFF	7-10-22	915	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	pH: 7.38
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	Temp: 9.6°c

RECEIVED
JUL 10 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		E. Morris IPC	7-10-22	930
Received by		Alex Wan Jr	7/10/22	1240
Relinquished by				
Received by				
Relinquished by				
Received in lab by		JUL 10 2022		1500

Sample Received Checklist

Temperature upon receipt: 4 °c

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22G0231

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	**(MCC) Daily EFF**
Address:	9297 Research Drive	Sampled by:	Daniel Huey
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7/11/22	1140	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.44/23.3°C
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
JUL 11 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	Daniel Huey	Daniel (IPC)	7/11/22	1145
Received by		Juan Deris (PCL)	7/11/22	12:30
Relinquished by		Juan Deris (PCL)	7/11/22	15:25
Received by				
Relinquished by				
Received in lab by			JUL 11 2022	1525

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Matrix	Bottle Type
(Grab) Comp	(AQ) - Water	P - Plastic
	SO -Soil / Sludge	G - Amber Glass
	OT - Other	VOA - 40 ml Vial
		(Coli) - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 226@266

Customer:	IPC - Integrated Performance Consultants, Inc.	Project:	(MCC) Daily EFF
Address:	9237 Research Drive	Sampled by:	Marc Aguirre
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7/12/22	9:58	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.45/22.5°C
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
JUL 12 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Marc Aguirre (IPC)	7/12/22	10:35
Received by		Juan Nevis (PCL)	7/12/22	12:42
Relinquished by		Juan Nevis (PCL)	7/12/22	17:41
Received by				
Relinquished by				
Received in lab by		JUL 12 2022		1741

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Sample Received Checklist

Temperature upon receipt:	4°C
# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Matrix	Bottle Type
Grab	AQ - Water	P - Plastic
Comp	SO - Soil / Sludge	G - Amber Glass
	OT - Other	VOA - 40 ml Vial
		Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 28-Jul-22 09:10
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22G0299-01) Collected: 13-Jul-22 By C.A of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG21334	1.8	13-Jul-22	15-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG21334	1.8	13-Jul-22	15-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG21509	0.1	13-Jul-22	13-Jul-22	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG21339	0.05	13-Jul-22	13-Jul-22	**0.16 mg/l**	
EFF (Sample I.D.# : 22G0332-01) Collected: 14-Jul-22 By DH of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG21411	1.8	14-Jul-22	18-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG21411	1.8	14-Jul-22	18-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG21509	0.1	14-Jul-22	14-Jul-22	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG21417	0.05	14-Jul-22	14-Jul-22	**0.14 mg/l**	
EFF (Sample I.D.# : 22G0357-01) Collected: 15-Jul-22 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG21508	1.8	15-Jul-22	28-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG21508	1.8	15-Jul-22	28-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG22028	0.1	15-Jul-22	15-Jul-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG21516	0.05	15-Jul-22	15-Jul-22	**0.10 mg/l**	
EFF (Sample I.D.# : 22G0371-01) Collected: 16-Jul-22 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG21620	1.8	16-Jul-22	20-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG21620	1.8	16-Jul-22	20-Jul-22	**2.0 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG22028	0.1	16-Jul-22	16-Jul-22	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG21831	0.05	18-Jul-22	18-Jul-22	**0.10 mg/l**	

Respectfully Submitted,

Stephen Sakai 7/28/2022
Lab Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 28-Jul-22 09:10
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
Effluent (Sample I.D.# : 22G0379-01) Collected: 17-Jul-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG21726	1.8	17-Jul-22	19-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG21726	1.8	17-Jul-22	19-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG22028	0.1	17-Jul-22	17-Jul-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG21831	0.05	18-Jul-22	18-Jul-22	**0.18 mg/l**	
Effluent (Sample I.D.# : 22G0395-01) Collected: 18-Jul-22 By DH of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG21832	1.8	18-Jul-22	21-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG21832	1.8	18-Jul-22	21-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG22028	0.1	18-Jul-22	18-Jul-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG21831	0.05	18-Jul-22	18-Jul-22	**0.14 mg/l**	
Effluent (Sample I.D.# : 22G0431-01) Collected: 19-Jul-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG21927	1.8	19-Jul-22	21-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG21927	1.8	19-Jul-22	21-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG22028	0.1	19-Jul-22	19-Jul-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG21926	0.05	19-Jul-22	19-Jul-22	**0.13 mg/l**	
EFF (Sample I.D.# : 22G0476-01) Collected: 20-Jul-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG22031	1.8	20-Jul-22	22-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG22031	1.8	20-Jul-22	22-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG22632	0.1	20-Jul-22	20-Jul-22	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG22034	0.05	20-Jul-22	20-Jul-22	**0.13 mg/l**	

Respectfully Submitted,

Stephen Sakai 7/28/2022
Lab Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 28-Jul-22 09:10
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
Effluent (Sample I.D.# : 22G0505-01) Collected: 21-Jul-22 By DH of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG22110	1.8	21-Jul-22	23-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG22110	1.8	21-Jul-22	23-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG22632	0.1	21-Jul-22	21-Jul-22	**7.2 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG22112	0.05	21-Jul-22	21-Jul-22	**0.15 mg/l**	
EFF (Sample I.D.# : 22G0518-01) Collected: 22-Jul-22 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG22204	1.8	22-Jul-22	24-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG22204	1.8	22-Jul-22	24-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG22632	0.1	22-Jul-22	22-Jul-22	**7.3 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG22538	0.05	25-Jul-22	25-Jul-22	**0.06 mg/l**	
EFF (Sample I.D.# : 22G0533-01) Collected: 23-Jul-22 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG22325	1.8	23-Jul-22	25-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG22325	1.8	23-Jul-22	25-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG22632	0.1	23-Jul-22	23-Jul-22	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG22538	0.05	25-Jul-22	25-Jul-22	**0.07 mg/l**	
EFF (Sample I.D.# : 22G0539-01) Collected: 24-Jul-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG22421	1.8	24-Jul-22	26-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG22421	1.8	24-Jul-22	26-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG22632	0.1	24-Jul-22	24-Jul-22	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG22538	0.05	25-Jul-22	25-Jul-22	**0.11 mg/l**	

Respectfully Submitted,

Stephen Sakai 7/28/2022
Lab Director

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 28-Jul-22 09:10
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 7/28/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22G0299

Customer:	IPC - Integrated Performance Consultants, Inc.	Project:	**(MCC) Daily EFF**
Address:	9297 Research Drive	Sampled by:	Carlos Alvarez
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	07/13/22	1058	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.44/22.4°C
1	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
JUL 13 2022

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	07/13/22	1110
Received by		Juan Davis (PCL)	7/13/22	12:17
Relinquished by		Juan Davis (PCL)	7/13/22	16:26
Received by				
Relinquished by				
Received in lab by		JUL 13 2022		1626

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
~~Grab~~	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO - Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu - $CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2206332

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	**(MCC) Daily EFF**
Address:	9297 Research Drive	Sampled by:	Daniel Huey
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7/14/22	1100	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
JUL 14 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Daniel (IPC)	7/14/22	1105
Received by		Juan Davis (PCL)	7/14/22	12:30
Relinquished by		Juan Davis (PCL)	7/14/22	16:46
Received by				
Relinquished by				
Received in lab by			JUL 14 2022	1646

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO -Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu -$CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2260357

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive		Sampled by: Jesus Avalos	P.O. #:
Irvine	CA 92618	Report Attention: Ric Vardel / Golan Kfir	Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7/15/22	11:40	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.47/24.4°C
1/			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
JUL 15 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avalos	Jesus Avalos (IPC)	7/15/22	11:45
Received by: do	Armando Olmos (IPC)	7/15/22	12:05
Relinquished by: do	Armando Olmos (IPC)	7/15/22	14:30
Received by:			
Relinquished by:			
Received in lab by:	JUL 15 2022		1430

Sample Received Checklist

Temperature upon receipt: 4°C
# of bottles agrees with COC? Yes No
Samples intact? Yes No
Samples properly preserved? Yes No
Samples in holding time? Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Matrix	Bottle Type
Grab	AQ - Water	P - Plastic
Comp	SO -Soil / Sludge	G - Amber Glass
	OT - Other	VOA - 40 ml Vial
		Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: _____

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618	**Sampled by:** Jesus Avalos **Report Attention:** Ric Vardel / Golan Kfir	**P.O. #:** **Phone #:** 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7/16/22	11:45	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
1/	1/	1/	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	
Geotracker EDD: Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avalos	Jesus Avalos (IPC)	7/16/22	11:50
Received by			
Relinquished by			
Received by			
Relinquished by			
Received in lab by	Richard Martinez (PCL)	7/16/22	1510

Sample Received Checklist

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type	Preservations
Grab Comp	HC - HCl HS - H_2SO_4 HN - HNO_3 HP - H_3PO_4 OH - NaOH ST - Sodium Thiosulfate AA - Ascorbic Acid Al - $AlCl_3$ Cu - $CuSO_4$
Matrix AQ - Water SO - Soil / Sludge OT - Other	
Bottle Type P - Plastic G - Amber Glass VOA - 40 ml Vial Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2260379

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive, Irvine, CA 92618	Sampled by: ERIC MORRIS / Ric Vardel / Golan Kfir	P.O. #:	
	Report Attention:	Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7-17-22	925	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
JUL 17 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		E. MORRIS IPC	7-17-22	935
Received by		Cindy Mapraw	7-17-22	11:11
Relinquished by		Cindy Mapraw	7-17-22	14:15
Received by				
Relinquished by				
Received in lab by			JUL 17 2022	1415

Sample Received Checklist 4°C

Temperature upon receipt:	
# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO - Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu - $CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 226 0395

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Daily EFF
Address:	9297 Research Drive Irvine CA 92618	Sampled by: Daniel Huey Report Attention: Ric Vardel / Golan Kfir	P.O. #: Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7/18/22	1115	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.49/22.9°C
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
JUL 18 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	Daniel Huey	Daniel (IPC)	7/18/22	1125
Received by		Juan Davis (PCL)	7/18/22	13:02
Relinquished by		Juan Davis (PCL)	7/18/22	16:05
Received by				
Relinquished by				
Received in lab by			JUL 18 2022	1605

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO - Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu - $CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22G0437

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive, Irvine, CA 92618		Sampled by: E. MORRIS / Report Attention: Ric Vardel / Golan Kfir	P.O. #: / Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7-19-22	1147	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.46 | 24.6°C
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
JUL 19 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: E. MORRIS	E. MORRIS	7-19-22	1159
Received by:	Juan Davis (PCL)	7-19-22	12:44
Relinquished by:	Juan Davis (PCL)	7-19-22	16:20
Received by:			
Relinquished by:			
Received in lab by:	JUL 19 2022		1620

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Matrix	Bottle Type
Grab	AQ - Water	P - Plastic
Comp	SO -Soil / Sludge	G - Amber Glass
	OT - Other	VOA - 40 ml Vial
		Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 226476

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	**(MCC) Daily EFF**
Address:	9297 Research Drive	Sampled by:	E. MORRIS
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7-20-22	1115	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.4 @ 24.9 °C
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
JUL 20 2022
By Alex Valdez Jr.

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: E. MORRIS	E. MORRIS	7-20-22	1156
Received by: Juan Nevis (PCL)	Juan Nevis (PCL)	7/20/22	12:12
Relinquished by: Juan Nevis (PCL)	Juan Nevis (PCL)	7/20/22	16:20
Received by:			
Relinquished by:			
Received in lab by: Alex Valdez Jr.	JUL 20 2022		1020

Sample Received Checklist

Temperature upon receipt: 4.1 °C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
(Grab)
Comp

Matrix
(AQ) - Water
SO -Soil / Sludge
OT - Other

Bottle Type
(P) - Plastic
G - Amber Glass
VOA - 40 ml Vial
(Coli) - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2260505

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Daily EFF
Address:	9297 Research Drive Irvine CA 92618	Sampled by: Daniel Huey Report Attention: Ric Vardel / Golan Kfir	P.O. #: Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7/21/22	1100	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.25/23.1°C
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
JUL 21 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Daniel Huey	Daniel (IPC)	7/21/22	1105
Received by:	Juan Deniz (PCL)	7/21/22	12:00
Relinquished by:	Juan Deniz (PCL)	7/21/22	14:20
Received by:			
Relinquished by:			
Received in lab by:	JUL 21 2022		1420

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO - Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu - $CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22G0518

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: Jesus Avalos Report Attention: ~~Ric Vardel / Golan Kfir~~	P.O. #: Phone #: ~~949-382-9067~~	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7/22/22	11:40	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.30/24.5°C
4	4	C	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
JUL 22 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avalos	Jesus Avalos (IPC)	7/22/22	11:50
Received by:	MARIO SANTIESTEBAN (PCL)	7/22/22	1233
Relinquished by:	MARIO SANTIESTEBAN (PCL)	7/22/22	1435
Received by:			
Relinquished by:			
Received in lab by:	JUL 22 2022		1435

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab Comp	HC - HCl HS - H_2SO_4 HN - HNO_3 HP - H_3PO_4 OH - NaOH ST - Sodium Thiosulfate AA - Ascorbic Acid Al - $AlCl_3$ Cu - $CuSO_4$
Matrix AQ - Water SO - Soil / Sludge OT - Other	
Bottle Type P - Plastic G - Amber Glass VOA - 40 ml Vial Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2260533

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: Jorge Avalos Report Attention: ~~Ric Vardel / Golan Kfir~~	P.O. #: Phone #: ~~949-382-9067~~	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7/23/22	11:50	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
〃	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	
Geotracker EDD:									
Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: Jorge Avalos	Jorge Avalos (IPC)	7/23/22	11:55
Received by	Richard Martinez (PCL)	7/25/22	1155
Relinquished by			
Received by			
Relinquished by			
Received in lab by	Richard Martinez (PCL)	7/25/22	1445

Sample Received Checklist

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type	Preservations
Grab **Comp**	**HC** - HCl **HS** - H_2SO_4
Matrix **AQ** - Water **SO** -Soil / Sludge **OT** - Other	**HN** - HNO_3 **HP** - H_3PO_4 **OH** - NaOH **ST** - Sodium Thiosulfate
Bottle Type **P** - Plastic **G** - Amber Glass **VOA** - 40 ml Vial **Coli** - bacteria	**AA** - Ascorbic Acid **Al** - $AlCl_3$ **Cu** -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2260539

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: E. Morris Report Attention: Ric Vardel / Golan Kfir	P.O. #:	Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7-24-22	930	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.4 / 16.9
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
JUL 24 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	E. Morris	E. MORRIS IPC	7-24-22	1040
Received by	CM	Cindy Mackey	7.24.22	1040
Relinquished by	CM	Cindy Mackey	7.24.22	20
Received by				
Relinquished by				
Received at lab by	Alex Valdez Jr.		JUL 24 2022	12:20

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO - Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu - $CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 03-Aug-22 14:27
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22G0556-01) Collected: 25-Jul-22 By DH of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG22535	1.8	25-Jul-22	27-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG22535	1.8	25-Jul-22	27-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG22632	0.1	25-Jul-22	25-Jul-22	**7.2 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG22538	0.05	25-Jul-22	25-Jul-22	**0.17 mg/l**	
EFF (Sample I.D.# : 22G0588-01) Collected: 26-Jul-22 By MA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG22637	1.8	26-Jul-22	28-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG22637	1.8	26-Jul-22	28-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH20223	0.1	26-Jul-22	26-Jul-22	**7.2 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG22639	0.05	26-Jul-22	26-Jul-22	**0.16 mg/l**	
EFF (Sample I.D.# : 22G0609-01) Collected: 27-Jul-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG22737	1.8	27-Jul-22	29-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG22737	1.8	27-Jul-22	29-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH20223	0.1	27-Jul-22	27-Jul-22	**7.3 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG22740	0.05	27-Jul-22	27-Jul-22	**0.17 mg/l**	
EFF (Sample I.D.# : 22G0633-01) Collected: 28-Jul-22 By DH of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG22812	1.8	28-Jul-22	30-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG22812	1.8	28-Jul-22	30-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH20223	0.1	28-Jul-22	28-Jul-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG22815	0.05	28-Jul-22	28-Jul-22	**0.14 mg/l**	

Respectfully Submitted,

Stephen Sakai 8/3/2022
Lab Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 03-Aug-22 14:27
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22G0654-01) Collected: 29-Jul-22 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG22913	1.8	29-Jul-22	31-Jul-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG22913	1.8	29-Jul-22	31-Jul-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH20223	0.1	29-Jul-22	29-Jul-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG22917	0.05	29-Jul-22	29-Jul-22	**0.14 mg/l**	
EFF (Sample I.D.# : 22G0671-01) Collected: 30-Jul-22 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG23021	1.8	30-Jul-22	01-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG23021	1.8	30-Jul-22	01-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH20223	0.1	30-Jul-22	30-Jul-22	**7.2 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH20143	0.05	01-Aug-22	01-Aug-22	**0.06 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 8/3/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22G0556

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive, Irvine, CA 92618	Sampled by: Daniel Huey / Rie Vardel / Golan Kfir	P.O. #:	
	Report Attention:	Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7/25/22	1115	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.23 23.4°C
u	u	u	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
JUL 25 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Daniel (IPC)	7/25/22	1120
Received by		Juan Dervis (PCL)	7/25/22	2:44
Relinquished by		Juan Dervis (PCL)	7/25/22	14:12
Received by				
Relinquished by				
Received in lab by			JUL 25 2022	1412

Sample Received Checklist

Temperature upon receipt:	4°C
# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Matrix	Bottle Type
Grab	AQ - Water	P - Plastic
Comp	SO - Soil / Sludge	G - Amber Glass
	OT - Other	VOA - 40 ml Vial
		Coli - bacteria

Preservations	
HC - HCl	
HS - H_2SO_4	
HN - HNO_3	
HP - H_3PO_4	
OH - NaOH	
ST - Sodium Thiosulfate	
AA - Ascorbic Acid	
AI - $AlCl_3$	
Cu - $CuSO_4$	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22G0588

Customer: IPC - Integrated Performance Consultants, Inc.		Project : **(MCC) Daily EFF**	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: Mario Aguirre Report Attention: ~~Ric Vardel~~ / Golan Kfir	P.O. #: Phone #: ~~949-382-9067~~	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7/26/22	11:10	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.23 125.4°C
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
JUL 26 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Mario Aguirre (IPC)	7/26/22	11:40
Received by		Juan Devis (PCL)	7/26/22	14:11
Relinquished by		Juan Devis (PCL)	7/26/22	17:20
Received by				
Relinquished by				
Received in lab by		JUL 26 2022		1720

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22G0689

Customer: IPC - Integrated Performance Consultants, Inc.		Project : **(MCC) Daily EFF**	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: emorris Report Attention: Ric Vardel / Golan Kfir	P.O. #: Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7-27-22	0939	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
	7-27-22	0939	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED JUL 27 2022 By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: emorris	E. MORRIS	7-27-22	1003
Received by:	Juan Devis (PCL)	7/27/22	1548
Relinquished by:	Juan Devis (PCL)	7/27/22	15:54
Received by:			
Relinquished by:			
Received in Lab by:		JUL 27 2022	1554

Sample Received Checklist

Temperature upon receipt: 4° C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO - Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu - $CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 226633

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Daily EFF
Address:	9297 Research Drive Irvine CA 92618	Sampled by: Daniel Huey Report Attention: Ric Vardel / Golan Kfir	P.O. #: Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7/28/22	1105	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.48/25.4°C
〃	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
JUL 28 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Daniel Huey	Daniel (IPC)	7/28/22	1110
Received by:	Juan Nevis (PCL)	7/28/22	12:00
Relinquished by:	Juan Nevis (PCL)	7/28/22	14:45
Received by:			
Relinquished by:			
Received in lab by:	JUL 28 2022		1445

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Matrix	Bottle Type
Grab	AQ - Water	P - Plastic
Comp	SO -Soil / Sludge	G - Amber Glass
	OT - Other	VOA - 40 ml Vial
		Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22G0654

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: Jesus Acuña Report Attention: Ric Vardel / Golan Kfir	P.O. #: Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7/29/22	11:20	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.5 / 28.7
〃	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Acuña	Jesus Acuña (IPC)	7/29/22	11:30
Received by: [signature]	Cindy Murray	7.29.22	1130
Relinquished by: [signature]	Cindy Murray	7.29.22	1220
Received by: [signature]	E. Alavid of PCL	7/29/22	1433
Relinquished by:			
Received in lab by:			

Sample Received Checklist

Temperature upon receipt: _____

# of bottles agrees with COC? Yes No

Samples intact? Yes No

Samples properly preserved? Yes No

Samples in holding time? Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 220671

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) Daily EFF	
Address: 9297 Research Drive, Irvine, CA 92618	**Sampled by:** Jesus Andres	**P.O. #:**	
	Report Attention: Ric Vardel / Golan Kfir	**Phone #:** 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7/30/22	11:45	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Andres	Jesus Andres (IPC)	7/30/22	11:50
Received by:	Richard Martinez (PCL)	7/30/22	11:50
Relinquished by:			
Received by:			
Relinquished by:			
Received in lab by:	Richard Martinez (PCL)	7/30/22	1425

Sample Received Checklist

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO -Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu -$CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 18-Aug-22 14:26
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22G0675-01) Collected: 31-Jul-22 By CM of PCL							
Microbiological							
Fecal Coliforms	SM 9221E	AG23121	1.8	31-Jul-22	03-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG23121	1.8	31-Jul-22	03-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH20223	0.1	31-Jul-22	31-Jul-22	**7.1 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH20143	0.05	01-Aug-22	01-Aug-22	**0.06 mg/l**	
EFF (Sample I.D.# : 22H0021-01) Collected: 01-Aug-22 By DH of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH20135	1.8	01-Aug-22	03-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH20135	1.8	01-Aug-22	03-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH20223	0.1	01-Aug-22	01-Aug-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH20143	0.05	01-Aug-22	01-Aug-22	**0.24 mg/l**	
EFF (Sample I.D.# : 22H0075-01) Collected: 02-Aug-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH20228	1.8	02-Aug-22	05-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH20228	1.8	02-Aug-22	05-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH20831	0.1	02-Aug-22	02-Aug-22	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH20231	0.05	02-Aug-22	02-Aug-22	**0.15 mg/l**	
EFF (Sample I.D.# : 22H0101-01) Collected: 03-Aug-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH20332	1.8	03-Aug-22	05-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH20332	1.8	03-Aug-22	05-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH20831	0.1	03-Aug-22	18-Aug-22	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH20333	0.05	03-Aug-22	03-Aug-22	**0.20 mg/l**	

Respectfully Submitted,

Stephen Sakai 8/18/2022
Lab Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 18-Aug-22 14:26
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22H0152-01) Collected: 04-Aug-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH20514	1.8	05-Aug-22	06-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH20514	1.8	05-Aug-22	06-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH20831	0.1	04-Aug-22	04-Aug-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH20414	0.05	04-Aug-22	04-Aug-22	**0.14 mg/l**	
EFF (Sample I.D.# : 22H0166-01) Collected: 05-Aug-22 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH20514	1.8	05-Aug-22	07-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH20514	1.8	05-Aug-22	07-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH20831	0.1	05-Aug-22	05-Aug-22	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH20516	0.05	05-Aug-22	05-Aug-22	**<0.05 mg/l**	
EFF (Sample I.D.# : 22H0175-01) Collected: 06-Aug-22 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH20626	1.8	06-Aug-22	08-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH20626	1.8	06-Aug-22	08-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH20831	0.1	06-Aug-22	06-Aug-22	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH20836	0.05	08-Aug-22	08-Aug-22	**0.15 mg/l**	
EFF (Sample I.D.# : 22H0186-01) Collected: 07-Aug-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH20716	1.8	07-Aug-22	10-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH20716	1.8	07-Aug-22	10-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH20831	0.1	07-Aug-22	07-Aug-22	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH20836	0.05	08-Aug-22	08-Aug-22	**0.05 mg/l**	

Respectfully Submitted,

Stephen Sakai 8/18/2022
Lab Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 18-Aug-22 14:26
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22H0207-01) Collected: 08-Aug-22 By DH of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH20834	1.8	08-Aug-22	10-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH20834	1.8	08-Aug-22	10-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH21812	0.1	08-Aug-22	08-Aug-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH20836	0.05	08-Aug-22	08-Aug-22	**0.09 mg/l**	
EFF (Sample I.D.# : 22H0229-01) Collected: 09-Aug-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH20928	1.8	09-Aug-22	11-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH20928	1.8	09-Aug-22	11-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH21812	0.1	09-Aug-22	09-Aug-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH20929	0.05	09-Aug-22	09-Aug-22	**0.11 mg/l**	
EFF (Sample I.D.# : 22H0267-01) Collected: 10-Aug-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH21026	1.8	10-Aug-22	12-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH21026	1.8	10-Aug-22	12-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH21812	0.1	10-Aug-22	10-Aug-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH21032	0.05	10-Aug-22	10-Aug-22	**0.18 mg/l**	
EFF (Sample I.D.# : 22H0295-01) Collected: 11-Aug-22 By M.A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH21113	1.8	11-Aug-22	13-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH21113	1.8	11-Aug-22	13-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH21812	0.1	11-Aug-22	11-Aug-22	**7.3 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH21220	0.05	12-Aug-22	12-Aug-22	**0.09 mg/l**	

Respectfully Submitted,

Stephen Sakai 8/18/2022
Lab Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 18-Aug-22 14:26
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22H0319-01) Collected: 12-Aug-22 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH21221	1.8	12-Aug-22	14-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH21221	1.8	12-Aug-22	14-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH21812	0.1	12-Aug-22	12-Aug-22	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH21220	0.05	12-Aug-22	12-Aug-22	**0.08 mg/l**	
EFF (Sample I.D.# : 22H0332-01) Collected: 13-Aug-22 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH21327	1.8	13-Aug-22	15-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH21327	1.8	13-Aug-22	15-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH21812	0.1	13-Aug-22	13-Aug-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH21534	0.05	15-Aug-22	15-Aug-22	**0.14 mg/l**	
EFF (Sample I.D.# : 22H0341-01) Collected: 14-Aug-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH21417	1.8	14-Aug-22	16-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH21417	1.8	14-Aug-22	16-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH21812	0.1	14-Aug-22	14-Aug-22	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH21534	0.05	15-Aug-22	15-Aug-22	**0.17 mg/l**	
EFF (Sample I.D.# : 22H0360-01) Collected: 15-Aug-22 By DH of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH21530	1.8	15-Aug-22	17-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH21530	1.8	15-Aug-22	17-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH21812	0.1	15-Aug-22	15-Aug-22	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH21534	0.05	15-Aug-22	15-Aug-22	**0.14 mg/l**	

Respectfully Submitted,

Stephen Sakai 8/18/2022
Lab Director

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 18-Aug-22 14:26
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 8/18/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22G0675

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Daily EFF
Address:	9297 Research Drive Irvine CA 92618	Sampled by:	emorr
		Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7-31-22	940	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.1 / 26.3 °C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
JUL 31 2022

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: emorr	E. Morrin	7-31-22	955
Received by:	Cindy Mary	7/31/22	11:15
Relinquished by:	Cindy Mary	7/31/22	1153
Received by:			
Relinquished by:			
Received in lab by:	JUL 31 2022		1153

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0021

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive, Irvine, CA 92618	Sampled by: Daniel Huey / Ric Vardel / Golan Kfir	P.O. #:	
	Report Attention:	Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/1/22	1130	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.54/23.8°C
4	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
AUG 0 1 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	Daniel Huey	Daniel (IPC)	8/1/22	1135
Received by		Juan Davis (PCL)	8/1/22	13:21
Relinquished by			8/1/22	15:15
Received by				
Relinquished by				
Received in lab by			AUG 0 1 2022	15:15

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO -Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	AI - $AlCl_3$
G - Amber Glass	Cu -$CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0075

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive		Sampled by: emorris	P.O. #:
Irvine CA 92618		Report Attention: Ric Vardel / Golan Kfir	Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8-2-22	1111	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.43/24.6°C
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
AUG 02 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: emorris	E. Morris	8-2-22	1149
Received by:	Juan Davis (PCL)	8-2-22	12:13
Relinquished by:	Juan Davis (PCL)	8-2-22	16:00
Received by:			
Relinquished by:			
Received in lab by:	AUG 02 2022		1600

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	(Yes)	No
Samples intact?	(Yes)	No
Samples properly preserved?	(Yes)	No
Samples in holding time?	(Yes)	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
(Grab) Comp	HC - HCl
Matrix	HS - H_2SO_4
(AQ) - Water	HN - HNO_3
SO -Soil / Sludge	HP - H_3PO_4
OT - Other	OH - NaOH
Bottle Type	(ST) - Sodium Thiosulfate
(P) - Plastic	AA - Ascorbic Acid
G - Amber Glass	Al - $AlCl_3$
VOA - 40 ml Vial	Cu -$CuSO_4$
(Coli) - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0101

Customer:	IPC - Integrated Performance Consultants, Inc.	**Project :**	(MCC) Daily EFF
Address:	9297 Research Drive Irvine CA 92618	**Sampled by:**	Ric Vardel / Golan Kfir
		Report Attention:	
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8-3-22	1120	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.40 / 25.1°C
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
AUG 0 3 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	E. Morrin	8-3-22	1133
Received by	Juan Davis (PCL)	8-3-22	12:15
Relinquished by	Juan Davis (PCL)	8-3-22	15:50
Received by			
Relinquished by			
Received in lab by		AUG 0 3 2022	15:50

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
(Grab)
Comp

Matrix
(AQ) - Water
SO -Soil / Sludge
OT - Other

Bottle Type
(P) - Plastic
G - Amber Glass
VOA - 40 ml Vial
(Coli) - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0152

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive, Irvine, CA 92618		Sampled by: Daniel Huey	P.O. #:
		Report Attention: ~~Ric Vardel / Golan Kfir~~	Phone #: ~~949-382-9067~~

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/4/22	1135	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.46 25.2°C
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
AUG 04 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Daniel Huey	Daniel (IPC)	8/4/22	1140
Received by:	Juan Davis (PCL)	8/4/22	12:00
Relinquished by:	Juan Davis (PCL)	8/4/22	15:27
Received by:			
Relinquished by:			
Received in lab by:	AUG 04 2022		1527

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	(Yes) No
Samples intact?	(Yes) No
Samples properly preserved?	(Yes) No
Samples in holding time?	(Yes) No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
(Grab) Comp	HC - HCl
Matrix	HS - H_2SO_4
(AQ) - Water	HN - HNO_3
SO -Soil / Sludge	HP - H_3PO_4
OT - Other	OH - NaOH
Bottle Type	(ST) - Sodium Thiosulfate
(P) - Plastic	AA - Ascorbic Acid
G - Amber Glass	AI - $AlCl_3$
VOA - 40 ml Vial	Cu - $CuSO_4$
(Coli) - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0166

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive, Irvine, CA 92618	Sampled by: Jesus Avila / Ric Vardel / Golan Kfir	P.O. #:	
	Report Attention:	Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/5/22	11:50	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.81 15.7
〃	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
AUG 05 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avila	Jesus Avila (IPC)	8/5/22	11:55
Received by: Cindy MAPLES	Cindy MAPLES	8-5-22	1325
Relinquished by: Cindy MAPLES	Cindy MAPLES	8-5-22	1432
Received by:			
Relinquished by:			
Received in lab by:		AUG 05 2022	1432

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H-0175

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618	**Sampled by:** Jesus Avalos **Report Attention:** Ric Vardel / Golan Kfir	**P.O. #:** **Phone #:** 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/6/22	8:40	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
〃	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	
Geotracker EDD:									
Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avalos	Jesus Avalos (IPC)	8/6/22	11:43
Received by:	Richard Martinez (CL)	8/6/22	1145
Relinquished by:			
Received by:			
Relinquished by:			
Received in lab by:	Richard Martinez (CL)	8/6/22	1512

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC? (Yes) No

Samples intact? (Yes) No

Samples properly preserved? (Yes) No

Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0186

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	**(MCC) Daily EFF**
Address:	9297 Research Drive	Sampled by:	
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8-7-22	940	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.8
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	17.2

RECEIVED
AUG 07 2022
BY

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	E. MORRIS	8-7-22	950
Received by	Cindy Mapuy	8-7-22	11:05
Relinquished by	Cindy Mapuy	8-7-22	12:00
Received by			
Relinquished by			
Received in lab by	AUG 07 2022		12:00

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0207

Customer: IPC - Integrated Performance Consultants, Inc.

Project: **(MCC) Daily EFF**

Address: 9297 Research Drive, Irvine, CA 92618

Sampled by: Daniel Hwang / Ric Vardel / Golan Kfir

Report Attention:

P.O. #:

Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/8/22	1200	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
2	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
AUG 0 8 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by:	Daniel (IPC)	8/8/22	1205
Received by:	Jonathan V. (PCL)	8/8/22	12:25
Relinquished by:	Jonathan V. (PCL)	8/8/22	13:50
Received by:			
Relinquished by			
Received in lab by:		AUG 0 8 2022	1350

Sample Received Checklist

Temperature upon receipt: 4.0C

# of bottles agrees with COC? (Yes) No

Samples intact? (Yes) No

Samples properly preserved? (Yes) No

Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
(Grab)
Comp

Matrix
(AQ) - Water
SO -Soil / Sludge
OT - Other

Bottle Type
(P) - Plastic
G - Amber Glass
VOA - 40 ml Vial
(Coli) - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0229

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive, Irvine CA 92618	Sampled by: emart	P.O. #:	
	Report Attention: Ric Vardel / Golan Kfir	Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8-9-22	1148	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.52/24.4°C
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
AUG 09 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: emart	E. MORRIS	8-9-22	12:12
Received by:	Juan Davis (PCL)	8-9-22	12:37
Relinquished by:	Juan Davis (PCL)	8-9-22	14:34
Received by:			
Relinquished by:			
Received in lab by:		AUG 09 2022	1434

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO - Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu - $CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0267

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: E. Morris Report Attention: Ric Vardel / Golan Kfir	P.O. #: Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8-10-22	10:00	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.51/24.0 °C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
AUG 10 2022
By

Geotracker EDD:
Logcode: IPC!
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: E. Morris	E. MORRIS	8-10-22	1054
Received by: Juan Devis (PCL)	Juan Devis (PCL)	8/10/22	13:46
Relinquished by: Juan Devis (PCL)	Juan Devis (PCL)	8/10/22	17:00
Received by			
Relinquished by			
Received in lab by: Patchem	Patchem AUG 10 2022		1700

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0295

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Daily EFF
Address:	9297 Research Drive	Sampled by:	Mario Aguirre
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/11/22	11:30	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.34/24.6°C
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
AUG 11 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Mario Aguirre (IPC)	8/11/22	11:32
Received by	Juan Devis (PCL)	8/11/22	12:39
Relinquished by	Juan Devis (PCL)	8/11/22	14:48
Received by			
Relinquished by			
Received in lab by		AUG 11 2022	1448

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO -Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	AI - $AlCl_3$
G - Amber Glass	Cu -$CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0319

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Daily EFF
Address:	9297 Research Drive	Sampled by:	Jesus Avila
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/12/22	11:50	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.77/32.7
4	4	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
AUG 12 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avila	Jesus Avila (IPC)	8/12/22	11:55
Received by:	MARIO CANTU ESTEBAN (PCL)	8/12/22	13
Relinquished by:	MARIO CANTU ESTEBAN (PCL)	8/12/22	1515
Received by:			
Relinquished by:			
Received in lab by:		AUG 12 2022	1515

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Sample Received Checklist

Temperature upon receipt:	4 °C	
# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Matrix	Bottle Type
Grab	AQ - Water	P - Plastic
Comp	SO - Soil / Sludge	G - Amber Glass
	OT - Other	VOA - 40 ml Vial
		Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 220332

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Daily EFF
Address:	9297 Research Drive	Sampled by:	Jesus Andres
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/13/22	11:45	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
〃	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Andres	Jesus Andres (IPC)	8/13/22	11:50
Received by:	Richard Martinez (PCL)	8/13/22	1215
Relinquished by:			
Received by:			
Relinquished by:			
Received in lab by:	Richard Martinez (PCL)	8/13/22	1450

Sample Received Checklist

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type	Preservations
Grab	**HC** - HCl
Comp	**HS** - H_2SO_4
Matrix	**HN** - HNO_3
AQ - Water	**HP** - H_3PO_4
SO -Soil / Sludge	**OH** - NaOH
OT - Other	**ST** - Sodium Thiosulfate
Bottle Type	**AA** - Ascorbic Acid
P - Plastic	**Al** - $AlCl_3$
G - Amber Glass	**Cu** -$CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0341

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: emerris Report Attention: Ric Vardel / Golan Kfir	P.O. #:	Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8-14-22	940	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

RECEIVED
AUG 14 2022
By

Signature	Print Name (Company)	Date	Time
Relinquished by: emerris	E. Morris	8-14-22	950
Received by:	Cindy Martin	8.14.22	11:30
Relinquished by:	Cindy Martinez	8.14.22	12:22
Received by:			
Relinquished by:			
Received in lab by:		AUG 14 2022	1222

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab Comp	**HC** - HCl **HS** - H_2SO_4 **HN** - HNO_3 **HP** - H_3PO_4 **OH** - NaOH **ST** - Sodium Thiosulfate **AA** - Ascorbic Acid **AI** - $AlCl_3$ **Cu** - $CuSO_4$
Matrix **AQ** - Water **SO** - Soil / Sludge **OT** - Other	
Bottle Type **P** - Plastic **G** - Amber Glass **VOA** - 40 ml Vial **Coli** - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22140360

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	**(MCC) Daily EFF**
Address:	9297 Research Drive	Sampled by:	Daniel Huey
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/15/22	1055	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

RECEIVED
AUG 15 2022
By

Signature	Print Name (Company)	Date	Time
Relinquished by: Daniel Huey	Daniel (IPC)	8/15/22	1100
Received by:	Jonathan V. (IPC)	8/15	1211
Relinquished by:	Jonathan V. (IPC)	8/15	1328
Received by:			
Relinquished by:			
Received in lab by:	AUG 15 2022		1328

Sample Received Checklist

Temperature upon receipt:	4°C	
# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 23-Aug-22 14:48
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22H0379-01) Collected: 16-Aug-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH21635	1.8	16-Aug-22	19-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH21635	1.8	16-Aug-22	19-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH21812	0.1	16-Aug-22	16-Aug-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH21637	0.05	16-Aug-22	16-Aug-22	**0.12 mg/l**	
EFF (Sample I.D.# : 22H0423-01) Collected: 17-Aug-22 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH21732	1.8	17-Aug-22	20-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH21732	1.8	17-Aug-22	20-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH21812	0.1	18-Aug-22	18-Aug-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH21735	0.05	17-Aug-22	17-Aug-22	**0.10 mg/l**	
EFF (Sample I.D.# : 22H0467-01) Collected: 18-Aug-22 By DH of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH21813	1.8	18-Aug-22	20-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH21813	1.8	18-Aug-22	20-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH22230	0.1	18-Aug-22	18-Aug-22	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH21816	0.05	18-Aug-22	18-Aug-22	**0.04 mg/l**	
EFF (Sample I.D.# : 22H0487-01) Collected: 19-Aug-22 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH21911	1.8	19-Aug-22	21-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH21911	1.8	19-Aug-22	21-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH22230	0.1	19-Aug-22	19-Aug-22	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH22233	0.05	22-Aug-22	22-Aug-22	**0.16 mg/l**	

Respectfully Submitted,

Stephen Sakai 8/23/2022
Lab Director

PAT-CHEM
LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 23-Aug-22 14:48
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22H0499-01) Collected: 20-Aug-22 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH22022	1.8	20-Aug-22	23-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH22022	1.8	20-Aug-22	23-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH22230	0.1	20-Aug-22	20-Aug-22	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH22233	0.05	22-Aug-22	22-Aug-22	**0.21 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 8/23/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0379

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive, Irvine CA 92618	Sampled by: Ric Vardel / Golan Kfir	P.O. #:	
	Report Attention:	Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8-16-22	11:26	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
AUG 16 2022
BY

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	E. MORRIS	8-16-22	11:26
Received by	J. Vasquez (PC)	8/16	11:08
Relinquished by	Jonathan V. (PC)	8/16	13:25
Received by			
Relinquished by			
Received in lab by	AUG 16 2022		1325

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO -Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	AI - $AlCl_3$
G - Amber Glass	Cu -$CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2210423

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) Daily EFF	
Address: 9297 Research Drive, Irvine, CA 92618	**Sampled by:** Jesus Andres / Ric Vardel / Golan Kfir	**P.O. #:**	
	Report Attention:	**Phone #:** 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/17/22	11:15	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
AUG 17 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Andres	Jesus Andres (IPC)	8/17/22	11:20
Received by:	Jonathan Vi (PW)	8/17	12:00
Relinquished by:	Jonathan Vi (PW)	8/17	13:46
Received by:			
Relinquished by:			
Received in lab by:	AUG 17 2022		17:46

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2210467

(MCC) Daily EFF

Customer: IPC - Integrated Performance Consultants, Inc.

Project :

Address: 9297 Research Drive, Irvine, CA 92618

Sampled by: Daniel Hwy / Ric Vardell / Golan Kfir

Report Attention:

P.O. #:

Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/18/22	1145	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
u	u	u	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
AUG 18 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Daniel Hwy	Daniel (IPC)	8/18/22	1150
Received by:	Jonathan V. (PAL)	8/18	12:00
Relinquished by:	Jonathan V. (PAL)	8/18	13:29
Received by:			
Relinquished by:			
Received in lab by:	AUG 18 2022		1325

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0487

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Daily EFF
Address:	9297 Research Drive Irvine CA 92618	Sampled by:	Jesus Andes
		Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/19/22	11:50	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
〃	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
AUG 19 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Andes	Jesus Andes (IPC)	8/19/22	12:00
Received by:	Jonathan V. (PC)	8/19	1210
Relinquished by:	Jonathan V. (PC)	8/19	1330
Received by:			
Relinquished by:			
Received in lab by:		AUG 19 2022	1830

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Sample Received Checklist

Temperature upon receipt:	4°	
# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu -$CuSO_4$

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0499

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive, Irvine, CA 92618	Sampled by: Jesus Avalos / Ric Vardel / Golan Kfir	P.O. #:	
	Report Attention:	Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/20/22	11:50	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
1/	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avalos	Jesus Avalos (IPC)	8/20/22	11:55
Received by:	Richard Martinez (PCL)	8/20/22	1215
Relinquished by:			
Received by:			
Relinquished by:			
Received in lab by:	Richard Martinez (PCL)	8/20/22	1450

Sample Received Checklist

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type	Preservations
Grab Comp	HC - HCl HS - H_2SO_4 HN - HNO_3 HP - H_3PO_4 OH - NaOH ST - Sodium Thiosulfate AA - Ascorbic Acid Al - $AlCl_3$ Cu - $CuSO_4$
Matrix AQ - Water SO - Soil / Sludge OT - Other	
Bottle Type P - Plastic G - Amber Glass VOA - 40 ml Vial Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 01-Sep-22 12:31
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22H0504-01) Collected: 21-Aug-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH22117	1.8	21-Aug-22	23-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH22117	1.8	21-Aug-22	23-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH22230	0.1	21-Aug-22	21-Aug-22	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH22233	0.05	22-Aug-22	22-Aug-22	**0.10 mg/l**	
EFF (Sample I.D.# : 22H0522-01) Collected: 22-Aug-22 By DH of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH22232	1.8	22-Aug-22	24-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH22232	1.8	22-Aug-22	24-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH22338	0.1	23-Aug-22	23-Aug-22	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH22233	0.05	22-Aug-22	22-Aug-22	**0.15 mg/l**	
EFF (Sample I.D.# : 22H0537-01) Collected: 23-Aug-22 By KV of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH22339	1.8	23-Aug-22	25-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH22339	1.8	23-Aug-22	25-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH22619	0.1	23-Aug-22	23-Aug-22	**7.0 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH22341	0.05	23-Aug-22	23-Aug-22	**0.17 mg/l**	
EFF (Sample I.D.# : 22H0563-01) Collected: 24-Aug-22 By KV of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH22438	1.8	24-Aug-22	26-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH22438	1.8	24-Aug-22	26-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH22619	0.1	24-Aug-22	24-Aug-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH22442	0.05	24-Aug-22	24-Aug-22	**0.16 mg/l**	

Respectfully Submitted,

Stephen Sakai 9/1/2022
Lab Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 01-Sep-22 12:31
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22H0604-01) Collected: 25-Aug-22 By Golan Kfir of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH22510	1.8	25-Aug-22	27-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH22510	1.8	25-Aug-22	27-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH22619	0.1	26-Aug-22	26-Aug-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH22518	0.05	25-Aug-22	25-Aug-22	**0.17 mg/l**	
EFF (Sample I.D.# : 22H0623-01) Collected: 26-Aug-22 By DH of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH22613	1.8	26-Aug-22	28-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH22613	1.8	26-Aug-22	28-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH23118	0.1	26-Aug-22	01-Sep-22	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH22621	0.05	26-Aug-22	26-Aug-22	**0.17 mg/l**	
EFF (Sample I.D.# : 22H0633-01) Collected: 27-Aug-22 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH22723	1.8	27-Aug-22	29-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH22723	1.8	27-Aug-22	29-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH23118	0.1	27-Aug-22	01-Sep-22	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH22933	0.05	29-Aug-22	30-Aug-22	**0.12 mg/l**	
EFF (Sample I.D.# : 22H0644-01) Collected: 28-Aug-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH22825	1.8	28-Aug-22	30-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH22825	1.8	28-Aug-22	30-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH23118	0.1	28-Aug-22	01-Sep-22	**7.9 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH22933	0.05	29-Aug-22	30-Aug-22	**0.18 mg/l**	

Respectfully Submitted,

Stephen Sakai 9/1/2022
Lab Director

PAT-CHEM
LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 01-Sep-22 12:31
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22H0659-01) Collected: 29-Aug-22 By DH of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH22929	1.8	29-Aug-22	31-Aug-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH22929	1.8	29-Aug-22	31-Aug-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH23118	0.1	29-Aug-22	01-Sep-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH22933	0.05	29-Aug-22	30-Aug-22	**0.08 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 9/1/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22140504

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: emerr Report Attention: Ric Vardel / Golan Kfir	P.O. #: Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8-21-22	952	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
AUG 21 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: emerr	E. Morris	8-21-22	959
Received by:		8/21/22	1315
Relinquished by:			
Received by:			
Relinquished by:			
Received in lab by:	Patchem AUG 21 2022		1620

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab Comp	HC - HCl HS - H_2SO_4 HN - HNO_3 HP - H_3PO_4 OH - NaOH ST - Sodium Thiosulfate AA - Ascorbic Acid Al - $AlCl_3$ Cu - $CuSO_4$
Matrix AQ - Water SO - Soil / Sludge OT - Other	
Bottle Type P - Plastic G - Amber Glass VOA - 40 ml Vial Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0522

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: Daniel Huey Report Attention: Ric Vardel / Golan Kfir	P.O. #: Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/22/22	1110	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.68/20.7°C
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
AUG 2 2 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Daniel (IPC)	8/22/22	1115
Received by		Juan Devis (PCL)	8/22/22	2:11
Relinquished by		Juan Devis (PCL)	8/22/22	16:14
Received by				
Relinquished by				
Received in lab by		Pat-chem Lab	AUG 2 2 2022	1614

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Matrix	Bottle Type
Grab	AQ - Water	P - Plastic
Comp	SO - Soil / Sludge	G - Amber Glass
	OT - Other	VOA - 40 ml Vial
		Coli - bacteria

Preservations	
HC - HCl	
HS - H_2SO_4	
HN - HNO_3	
HP - H_3PO_4	
OH - NaOH	
ST - Sodium Thiosulfate	
AA - Ascorbic Acid	
Al - $AlCl_3$	
Cu - $CuSO_4$	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2240537

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive, Irvine, CA 92618	Sampled by: Kyle Vardel	P.O. #:	
	Report Attention: Ric Vardel / Golan Kfir	Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/23/22	1110	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.0 3/23.1°C
	1.	1110	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
AUG 23 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Kyle Vardel (IPC)	8/23/22	1120
Received by	Juan Davis (PCL)	8/23/22	12:20
Relinquished by	Juan Davis (PCL)	8/23/22	13:40
Received by			
Relinquished by			
Received in lab by	Pat-Chem Lab	AUG 23 2022	1340

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab Comp	HC - HCl HS - H_2SO_4 HN - HNO_3 HP - H_3PO_4 OH - NaOH ST - Sodium Thiosulfate AA - Ascorbic Acid AI - $AlCl_3$ Cu - $CuSO_4$
Matrix AQ - Water SO - Soil / Sludge OT - Other	
Bottle Type P - Plastic G - Amber Glass VOA - 40 ml Vial Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0563

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive		Sampled by: Kyle Vardel	P.O. #:
Irvine	CA 92618	Report Attention: Ric Vardel / Golan Kfir	Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/24/22	1105	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.52123.1°C
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

RECEIVED
AUG 24 2022
By

Signature	Print Name (Company)	Date	Time
Relinquished by	Kyle Vardel (IPC)	8/24/22	1110
Received by	Juan Davis (PCL)	8/24/22	12:14
Relinquished by	Juan Davis (PCL)	8/24/22	14:10
Received by			
Relinquished by			
Received in lab by	AUG 24 2022		1410

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO - Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	AI - $AlCl_3$
G - Amber Glass	Cu - $CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0604

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: Golan Kfir Report Attention: Ric Vardel / Golan Kfir	P.O. #: Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/25/22	11:45	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.48 / 21.5°C
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
AUG 25 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by GK	Golan IPC	8/25/22	12:00
Received by	Juan Nevis (PCL)	8/25/22	12:15
Relinquished by	Juan Nevis (PCL)	8/25/22	14:00
Received by			
Relinquished by			
Received in lab by	Pat-Chem	AUG 25 2022	1400

Sample Received Checklist ψ c

Temperature upon receipt: _____

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Matrix	Bottle Type
(G) Grab Comp	(AQ) - Water SO -Soil / Sludge OT - Other	P - Plastic G - Amber Glass VOA - 40 ml Vial Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2240623

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Daily EFF
Address:	9297 Research Drive	Sampled by:	Daniel Huey
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/26/22	1140	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.75/25.7°C
u	u	u	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
AUG 25 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Daniel Huey	Daniel (IPC)	8/26/22	1145
Received by:	MARIO SANTIESTEBAN (PCL)	8/26/22	1252
Relinquished by:	MARIO SANTIESTEBAN (PCL)	8/26/22	1400
Received by:			
Relinquished by:			
Received in lab by:	Pat-chem Lab	AUG 25 2022	

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO -Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu -$CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0633

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) Daily EFF	
Address: 9297 Research Drive		**Sampled by:** Jorge Avalos	**P.O. #:**
Irvine CA 92618		**Report Attention:** Ric Vardel / Golan Kfir	**Phone #:** 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/27/22	1150	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
〃	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	
Geotracker EDD:									
Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: Jorge Avalos	Jorge Avalos (IPC)	8/27/22	1:55
Received by:	Richard Martinez (PCL)	8/27/22	1205
Relinquished by:			
Received by:			
Relinquished by:			
Received in lab by:	Richard Martinez (PCL)	8/27/22	1445

Sample Received Checklist

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type	Preservations
Grab **Comp**	**HC** - HCl **HS** - H_2SO_4
Matrix **AQ** - Water **SO** -Soil / Sludge **OT** - Other	**HN** - HNO_3 **HP** - H_3PO_4 **OH** - NaOH **ST** - Sodium Thiosulfate
Bottle Type **P** - Plastic **G** - Amber Glass **VOA** - 40 ml Vial **Coli** - bacteria	**AA** - Ascorbic Acid **Al** - $AlCl_3$ **Cu** -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2210644

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	**(MCC) Daily EFF**
Address:	9297 Research Drive	Sampled by:	emart
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
P.O. #:		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8-22-22	930	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.9/16.7
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
AUG 28 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: emart	Emart (IPC)	8-22-22	950
Received by:	Carlos Nuñez	8.28.22	1040
Relinquished by:	Cindy Martinez	8.28.22	1230
Received by:			
Relinquished by:			
Received in lab by:	Alex Walk. Jr. (ACL) AUG 28 2022		1230

Sample Received Checklist

Temperature upon receipt:	4°C	
# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0659

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Daily EFF
Address:	9297 Research Drive Irvine CA 92618	Sampled by:	Daniel Huey
		Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: (Field) Lab
EFF	8/29/22	1105	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.47 | 25.2
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

RECEIVED
AUG 29 2022
By

Signature	Print Name (Company)	Date	Time
Relinquished by: Daniel Huey	Daniel (IPC)	8/29/22	1110
Received by	Amanda Olmos (PCL)	8/29/22	12:10
Relinquished by	Amanda Olmos (PCL)	8/29/22	14:35
Received by			
Relinquished by			
Received in lab by	Alex Walker Jr (PCL)	AUG 29 2022	1435

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Sample Received Checklist

Temperature upon receipt: 4° C

# of bottles agrees with COC?	(Yes) No
Samples intact?	(Yes) No
Samples properly preserved?	(Yes) No
Samples in holding time?	(Yes) No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
(Grab)
Comp

Matrix
(AQ) - Water
SO -Soil / Sludge
OT - Other

Bottle Type
(P) - Plastic
G - Amber Glass
VOA - 40 ml Vial
(Coli) - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 14-Sep-22 09:24
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22H0678-01) Collected: 30-Aug-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH23033	1.8	30-Aug-22	01-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH23033	1.8	30-Aug-22	01-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH23118	0.1	30-Aug-22	01-Sep-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH23036	0.05	30-Aug-22	30-Aug-22	**0.13 mg/l**	
EFF (Sample I.D.# : 22H0711-01) Collected: 31-Aug-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH23115	1.8	31-Aug-22	02-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH23115	1.8	31-Aug-22	02-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI20730	0.1	31-Aug-22	31-Aug-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI20107	0.05	01-Sep-22	01-Sep-22	**0.12 mg/l**	
EFF (Sample I.D.# : 22I0017-01) Collected: 01-Sep-22 By DH of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI20110	1.8	01-Sep-22	03-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI20110	1.8	01-Sep-22	03-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI20730	0.1	01-Sep-22	01-Sep-22	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI20637	0.05	06-Sep-22	06-Sep-22	**0.18 mg/l**	
EFF (Sample I.D.# : 22I0035-01) Collected: 02-Sep-22 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI20215	1.8	02-Sep-22	04-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI20215	1.8	02-Sep-22	04-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI20730	0.1	02-Sep-22	02-Sep-22	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI20637	0.05	06-Sep-22	06-Sep-22	**0.15 mg/l**	

Respectfully Submitted,

Stephen Sakai 9/14/2022
Lab Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 14-Sep-22 09:24
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22I0050-01) Collected: 03-Sep-22 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI20303	1.8	03-Sep-22	06-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI20303	1.8	03-Sep-22	06-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI20730	0.1	03-Sep-22	03-Sep-22	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI20637	0.05	06-Sep-22	06-Sep-22	**0.17 mg/l**	
EFF (Sample I.D.# : 22I0056-01) Collected: 04-Sep-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI20415	1.8	04-Sep-22	07-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI20415	1.8	04-Sep-22	07-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI20730	0.1	04-Sep-22	04-Sep-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI20637	0.05	06-Sep-22	06-Sep-22	**0.09 mg/l**	
EFF (Sample I.D.# : 22I0064-01) Collected: 05-Sep-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI20632	1.8	06-Sep-22	07-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI20632	1.8	06-Sep-22	07-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI20730	0.1	05-Sep-22	05-Sep-22	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI20637	0.05	06-Sep-22	06-Sep-22	**0.09 mg/l**	
EFF (Sample I.D.# : 22I0095-01) Collected: 06-Sep-22 By MA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI20632	1.8	06-Sep-22	07-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI20632	1.8	06-Sep-22	07-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI20730	0.1	07-Sep-22	12-Sep-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI20637	0.05	06-Sep-22	06-Sep-22	**0.15 mg/l**	

Respectfully Submitted,

Stephen Sakai 9/14/2022
Lab Director

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 14-Sep-22 09:24
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 9/14/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0678

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Daily EFF
Address:	9297 Research Drive	Sampled by:	E. Morris
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/30/22 11	1010 11	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
AUG 30 2022
By Alex Walker Jr.

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: E. Morris	E. MORRIS	8/30/22	1146
Received by: Juan Davis (PCL)	Juan Davis (PCL)	8/30/22	12:03
Relinquished by: Juan Davis (PCL)	Juan Davis (PCL)	8/30/22	14:25
Received by			
Relinquished by			
Received in lab by: Alex Walker Jr.	Alex Walker Jr (PCL)	AUG 30 2022	1425

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Matrix	Bottle Type
(C) Grab	AQ - Water	P - Plastic
Comp	SO - Soil / Sludge	G - Amber Glass
	OT - Other	VOA - 40 ml Vial
		(C) Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
(S) ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0711

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Daily EFF
Address:	9297 Research Drive Irvine CA 92618	Sampled by:	Ric Vardel / Golan Kfir
		Report Attention:	
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: (Field) Lab
EFF	8-31-22	1037	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.52/22.6°C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
AUG 31 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	E. MORRIS	8-31-22	1045
Received by	Amanda Olmos (IPC)	9/31/22	12:10
Relinquished by	Amanda Olmos (IPC)	9/31/22	14:20
Received by			
Relinquished by			
Received in lab by	Alex Wallwork (Acc) AUG	31 2022	1420

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	(Yes) No
Samples intact?	(Yes) No
Samples properly preserved?	(Yes) No
Samples in holding time?	(Yes) No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
(Grab) Comp	HC - HCl HS - H_2SO_4 HN - HNO_3 HP - H_3PO_4 OH - NaOH (ST) - Sodium Thiosulfate AA - Ascorbic Acid Al - $AlCl_3$ Cu - $CuSO_4$
Matrix (AQ) - Water SO -Soil / Sludge OT - Other	
Bottle Type (P) - Plastic G - Amber Glass VOA - 40 ml Vial (Coli) - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0017

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive, Irvine, CA 92618	Sampled by: Daniel Huey / Ric Vardel / Golan Kfir	P.O. #:	
	Report Attention:	Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: (Field) Lab
EFF	9/1/22	1115	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.58/26.8°C
u	u	u	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
SEP 01 2022
By Alex Walker Jr.

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Daniel Huey	Daniel (IPC)	9/1/22	1120
Received by:	Armando Olmos (PCL)	9/1/22	12:10
Relinquished by:	Armando Olmos (PCL)	9/1/22	13:45
Received by:			
Relinquished by:			
Received in lab by: Alex Walker Jr.	Alex Walker Jr. (PCL) SEP	01 2022	1345

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Matrix	Bottle Type
Grab	AQ - Water	P - Plastic
Comp	SO -Soil / Sludge	G - Amber Glass
	OT - Other	VOA - 40 ml Vial
		Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0035

Customer: IPC - Integrated Performance Consultants, Inc.		Project: (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: Jesus Avalos Report Attention: Ric Vardel / Golan Kfir	P.O. #:	Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: ~~Field~~ Lab
EFF	9/2/22	10:50	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.56/26.7°C
4	11	11	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
SEP 02 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avalos	Jesus Avalos (IPC)	9/2/22	11:00
Received by: AO	Armando Olmos (PCL)	9/2/22	12:10
Relinquished by: AO	Armando Olmos (PCL)	9/2/22	14:15
Received by:			
Relinquished by:			
Received in lab by:	Alex Walker Jr. (PCL)	SEP 02 2022	1415

Sample Received Checklist

Temperature upon receipt:	4°C
# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Matrix	Bottle Type
~~Grab~~	AQ - Water	P - Plastic
Comp	SO - Soil / Sludge	G - Amber Glass
	OT - Other	VOA - 40 ml Vial
		Coli - bacteria

Preservations

HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0050

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618	**Sampled by:** Cris Avalos **Report Attention:** ~~Ric Vardel / Golan Kfir~~	**P.O. #:** **Phone #:** ~~949-382-9067~~	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9/3/22	11:50	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
〃	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	
Geotracker EDD:									
Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avalos	Jesus Avalos (IPC)	9/3/22	11:55
Received by:	Richard Martinez (PCL)	9/5/22	1220
Relinquished by:			
Received by:			
Relinquished by:			
Received in lab by:	Richard Martinez (PCL)	09/03/22	1440

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC? (Yes) No

Samples intact? (Yes) No

Samples properly preserved? (Yes) No

Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab **Comp**	**HC** - HCl **HS** - H_2SO_4
Matrix **AQ** - Water **SO** -Soil / Sludge **OT** - Other	**HN** - HNO_3 **HP** - H_3PO_4 **OH** - NaOH **ST** - Sodium Thiosulfate
Bottle Type **P** - Plastic **G** - Amber Glass **VOA** - 40 ml Vial **Coli** - bacteria	**AA** - Ascorbic Acid **AI** - $AlCl_3$ **Cu** -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0056

Customer: IPC - Integrated Performance Consultants, Inc.		Project: **(MCC) Daily EFF**	
Address: 9297 Research Drive		Sampled by: emorris	P.O. #:
Irvine	CA 92618	Report Attention: Ric Vardel / Golan Kfir	Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: **Field** **Lab**
EFF	9-4-22	950	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

RECEIVED
SEP 04 2022
By

Signature	Print Name (Company)	Date	Time
Relinquished by: emorris	E. Morris	9-4-22	10 00
Received by: Alex Walker Jr.	Alex Walker Jr.	9-4-22	12:20
Relinquished by:			
Received by:			
Relinquished by:			
Received in lab by: Alex Walker Jr.	(PCL)	SEP 04 2022	15:00

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Matrix	Bottle Type
Grab	AQ - Water	P - Plastic
Comp	SO -Soil / Sludge	G - Amber Glass
	OT - Other	VOA - 40 ml Vial
		Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0064

Customer: IPC - Integrated Performance Consultants, Inc.		Project : **(MCC) Daily EFF**	
Address: 9297 Research Drive Irvine CA 92618		Sampled by: ~~emorris~~ Ric Vardel / Golan Kfir Report Attention:	P.O. #: Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9/5/22	920	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
SEP 05 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	emorris	E. Morris	9/5/22	930
Received by		Juan Deus (IPC)	9/5/22	12:40
Relinquished by		Juan Deus (IPC)	9/5/22	14:37
Received by				
Relinquished by				
Received in lab by		Alex Walk Jr (PCL) SEP 05 2022		1437

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO -Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu -$CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0095

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	**(MCC) Daily EFF**
Address:	9297 Research Drive	Sampled by:	Marie Aguirre
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9/6/22	11:05	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
SEP 0 6 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Marie Aguirre (IPC)	9/6/22	11:48
Received by		Juan Davis (PCL)	9/6/22	13:05
Relinquished by		Juan Davis (PCL)	9/6/22	16:00
Received by				
Relinquished by				
Received (lab) by		PCL	SEP 0 6 2022	1600

Sample Received Checklist

Temperature upon receipt: 4° C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Matrix	Bottle Type
(G)rab	AQ - Water	P - Plastic
Comp	SO -Soil / Sludge	G - Amber Glass
	OT - Other	VOA - 40 ml Vial
		Coli - bacteria

Preservations	
HC - HCl	
HS - H_2SO_4	
HN - HNO_3	
HP - H_3PO_4	
OH - NaOH	
(ST) - Sodium Thiosulfate	
AA - Ascorbic Acid	
AI - $AlCl_3$	
Cu - $CuSO_4$	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 16-Sep-22 11:51
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22I0144-01) Collected: 07-Sep-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI20737	1.8	07-Sep-22	10-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI20737	1.8	07-Sep-22	10-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI21236	0.1	07-Sep-22	07-Sep-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI20740	0.05	07-Sep-22	07-Sep-22	**0.10 mg/l**	
EFF (Sample I.D.# : 22I0177-01) Collected: 08-Sep-22 By DH of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI20818	1.8	08-Sep-22	10-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI20818	1.8	08-Sep-22	10-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI21236	0.1	08-Sep-22	08-Sep-22	**6.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI20819	0.05	08-Sep-22	08-Sep-22	**0.15 mg/l**	
EFF (Sample I.D.# : 22I0209-01) Collected: 09-Sep-22 By DH of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI20923	1.8	09-Sep-22	11-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI20923	1.8	09-Sep-22	11-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI21236	0.1	09-Sep-22	09-Sep-22	**6.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI20924	0.05	09-Sep-22	09-Sep-22	**0.19 mg/l**	
EFF (Sample I.D.# : 22I0224-01) Collected: 10-Sep-22 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI21025	1.8	10-Sep-22	12-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI21025	1.8	10-Sep-22	12-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI21236	0.1	10-Sep-22	10-Sep-22	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI21243	0.05	12-Sep-22	12-Sep-22	**0.08 mg/l**	

Respectfully Submitted,

Stephen Sakai 9/16/2022
Lab Director

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 16-Sep-22 11:51
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22I0232-01) Collected: 11-Sep-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI21120	1.8	11-Sep-22	13-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI21120	1.8	11-Sep-22	13-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI21236	0.1	11-Sep-22	11-Sep-22	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI21243	0.05	12-Sep-22	12-Sep-22	**0.13 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 9/16/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0144

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Daily EFF
Address:	9297 Research Drive Irvine CA 92618	Sampled by:	Ric Vardel / Golan Kfir
		Report Attention:	
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9-7-22	1130	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
SEP 07 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		E. MORRIS	9-7-22	1152
Received by		MARIO SANTIESTEBAN (PCL)	9/7/22	1335
Relinquished by		MARIO SANTIESTEBAN (PCL)	9/7/22	1525
Received by				
Relinquished by				
Received in lab by		PCL	SEP 07 2022	1525

Sample Received Checklist

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
(Grab)
Comp

Matrix
(AQ) - Water
SO -Soil / Sludge
OT - Other

Bottle Type
(P) - Plastic
G - Amber Glass
VOA - 40 ml Vial
(Coli) - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0177

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive, Irvine, CA 92618	Sampled by: Daniel Huey / Ric Vardel / Golan Kfir	P.O. #:	
	Report Attention:	Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9/8/22	1110	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	6.7/26.6 C
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
SEP 13 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Daniel Huey	Daniel (IPC)	9/8/22	1115
Received by: Cindy Martinez	Cindy Martinez	9-8-22	1147
Relinquished by: Cindy Martinez	Cindy Martinez	9-8-22	1455
Received by:			
Relinquished by:			
Received in lab by: Alex Wallenstein	Alex Wallenstein (PCL) SEP 13 2022		1455

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO - Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	AI - $AlCl_3$
G - Amber Glass	Cu - $CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 220209

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Daily EFF
Address:	9297 Research Drive Irvine CA 92618	Sampled by:	Jesus Avalos
		Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9/9/22	[redacted]	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	6.8 | 26.6
〃	〃	11:50	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
SEP 09 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avalos	Jesus Avalos (IPC)	9/9/22	12:00
Received by:	[illegible]	9-9-22	13:11
Relinquished by:	[illegible]	9.9.22	1530
Received by:			
Relinquished by:			
Received in lab by:	SEP 09 2022		1530

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0224

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) Daily EFF	
Address: 9297 Research Drive		**Sampled by:** Jesus Acuña	**P.O. #:**
Irvine CA 92618		**Report Attention:** Ric Vardel / Golan Kfir	**Phone #:** 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9/10/22	11:45	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
〃	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	
Geotracker EDD:									
Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Acuña	Jesus Acuña (IPC)	9/10/22	11:50
Received by:	Richard Matthes (PCL)	9/10/22	1200
Relinquished by:			
Received by:			
Relinquished by:			
Received in lab by:	Richard Matthes (PCL)	9/10/22	1415

Sample Received Checklist

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type	Preservations
Grab **Comp**	**HC** - HCl **HS** - H_2SO_4
Matrix **AQ** - Water **SO** -Soil / Sludge **OT** - Other	**HN** - HNO_3 **HP** - H_3PO_4 **OH** - NaOH **ST** - Sodium Thiosulfate
Bottle Type **P** - Plastic **G** - Amber Glass **VOA** - 40 ml Vial **Coli** - bacteria	**AA** - Ascorbic Acid **Al** - $AlCl_3$ **Cu** -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22F0232

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Daily EFF
Address:	9297 Research Drive Irvine CA 92618	Sampled by:	E Morris
		Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field / Lab
EFF	9-11-22	945	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.7 / 7.6
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
SEP 11 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: E Morris	E. MORRIS	9-11-22	955
Received by:	(Cindy Murphy)	9-11-22	1120
Relinquished by:	Cindy Murphy	9-11-2212:5	
Received by:			
Relinquished by:			
Received in lab by:	SEP 11 2022		1215

Sample Received Checklist

Temperature upon receipt: 4°C
# of bottles agrees with COC? Yes No
Samples intact? Yes No
Samples properly preserved? Yes No
Samples in holding time? Yes No

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 22-Sep-22 11:05
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22I0263-01) Collected: 12-Sep-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI21239	1.8	12-Sep-22	14-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI21239	1.8	12-Sep-22	14-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI22022	0.1	12-Sep-22	12-Sep-22	**6.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI21243	0.05	12-Sep-22	12-Sep-22	**0.10 mg/l**	
EFF (Sample I.D.# : 22I0285-01) Collected: 13-Sep-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI21332	1.8	13-Sep-22	15-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI21332	1.8	13-Sep-22	15-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI22022	0.1	13-Sep-22	13-Sep-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI21334	0.05	13-Sep-22	13-Sep-22	**0.20 mg/l**	
EFF (Sample I.D.# : 22I0328-01) Collected: 14-Sep-22 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI21427	1.8	14-Sep-22	16-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI21427	1.8	14-Sep-22	16-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI22022	0.1	14-Sep-22	14-Sep-22	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI21432	0.05	14-Sep-22	14-Sep-22	**0.13 mg/l**	
EFF (Sample I.D.# : 22I0370-01) Collected: 15-Sep-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI21513	1.8	15-Sep-22	17-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI21513	1.8	15-Sep-22	17-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI22022	0.1	15-Sep-22	15-Sep-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI21615	0.05	15-Sep-22	15-Sep-22	**0.23 mg/l**	

Respectfully Submitted,

Stephen Sakai 9/22/2022
Lab Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 22-Sep-22 11:05
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22I0394-01) Collected: 16-Sep-22 By GK of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI21611	1.8	16-Sep-22	18-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI21611	1.8	16-Sep-22	18-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI22022	0.1	16-Sep-22	16-Sep-22	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI21615	0.05	16-Sep-22	16-Sep-22	**0.20 mg/l**	
EFF (Sample I.D.# : 22I0402-01) Collected: 17-Sep-22 By GK of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI21718	1.8	17-Sep-22	19-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI21718	1.8	17-Sep-22	19-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI22022	0.1	17-Sep-22	17-Sep-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI21940	0.05	19-Sep-22	19-Sep-22	**0.11 mg/l**	
EFF (Sample I.D.# : 22I0414-01) Collected: 18-Sep-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI21827	1.8	18-Sep-22	20-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI21827	1.8	18-Sep-22	20-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI22022	0.1	18-Sep-22	18-Sep-22	**7.2 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI21940	0.05	19-Sep-22	19-Sep-22	**0.12 mg/l**	
EFF (Sample I.D.# : 22I0429-01) Collected: 19-Sep-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI21938	1.8	19-Sep-22	21-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI21938	1.8	19-Sep-22	21-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI22022	0.1	20-Sep-22	21-Sep-22	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI21940	0.05	19-Sep-22	19-Sep-22	**0.10 mg/l**	

Respectfully Submitted,

Stephen Sakai 9/22/2022
Lab Director

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 22-Sep-22 11:05
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 9/22/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2210263

Customer: IPC - Integrated Performance Consultants, Inc.

Project : **(MCC) Daily EFF**

Address: 9297 Research Drive, Irvine, CA 92618

Sampled by: Kyle Vardel

Report Attention: Ric Vardel / Golan Kfir

P.O. #:

Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9/12/22	1150	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	6.7 / 16.2
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
SEP 12 2022
By Alex Walker Jr.

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Kyle Vardel (IPC)	9/12/22	1155
Received by	Cindy Martinez	9-12-22	1155
Relinquished by	Cindy Martinez	9-12-22	1320
Received by			
Relinquished by			
Received in lab by	Alex Walker Jr. (PCL)	SEP 12 2022	1320

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC? Yes No

Samples intact? Yes No

Samples properly preserved? Yes No

Samples in holding time? Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO - Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2210285

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Daily EFF
Address:	9297 Research Drive Irvine CA 92618	Sampled by:	Ric Valdel / Golan Klir
		Report Attention:	
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9-13-22	1052	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
	"	1052	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
SEP 13 2022

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		E. Morris	9-13-22	1151
Received by		Juan Davis (PCL)	9-13-22	12:05
Relinquished by		Juan Davis (PCL)	9-13-22	13:20
Received by				
Relinquished by				
Received in lab by		Alex Walsh (PCL)	SEP 13 2022	1320

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab Comp	HC - HCl HS - H_2SO_4
Matrix AQ - Water SO - Soil / Sludge OT - Other	HN - HNO_3 HP - H_3PO_4 OH - NaOH ST - Sodium Thiosulfate
Bottle Type P - Plastic G - Amber Glass VOA - 40 ml Vial Coli - bacteria	AA - Ascorbic Acid Al - $AlCl_3$ Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0328

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive		Sampled by: Jesus Acuña	P.O. #:
Irvine	CA 92618	Report Attention: Ric Vardel / Golan Kfir	Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9/14/22	11:15	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
〃	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
SEP 14 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by:	Jesus Acuña (IPC)	9/14/22	11:20
Received by:	MARIO SANTIESTEBAN (PCL)	9/14/22	1332
Relinquished by:	MARIO SANTIESTEBAN (PCL)	9/14/22	1520
Received by:			
Relinquished by:			
Received in lab by:	Alex Walker Jr. (PCL)	SEP 14 2022	1520

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0370

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Daily EFF
Address:	9297 Research Drive Irvine CA 92618	Sampled by:	E. Morris
		Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9-15-22	1045	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
SEP 15 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	E. Morris	E. MORRIS	9-15-22	1115
Received by		MARIO SANTIESTEBAN (PCL)	9/15/22	1528
Relinquished by		MARIO SANTIESTEBAN (PCL)	9/15/22	1723
Received by				
Relinquished by				
Received in lab by	Alex Walkin Jr.	Alex Walkin (PCL) SEP 15 2022		1725

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO - Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0394

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive, Irvine, CA 92618		Sampled by: Golan Kfir	P.O. #:
		Report Attention: Ric Vardel / Golan Kfir	Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9/16/22	15:35	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
SEP 16 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: GK	Golan IPC	9/16/22	1535
Received by:	MARIO SANTIESTEBAN (PCL)	9/16/22	1535
Relinquished by:	MARIO SANTIESTEBAN (PCL)	9/16/22	1650
Received by:			
Relinquished by:			
Received in lab by:	Alexander M Jr (PCL)	SEP 16 2022	1650

Sample Received Checklist 4°C

Temperature upon receipt:		
# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO -Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu -$CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0482

Customer:	IPC - Integrated Performance Consultants, Inc.	**Project :**	(MCC) Daily EFF
Address:	9297 Research Drive Irvine CA 92618	**Sampled by:**	Jesus Avalos Ric Vardel / Golan Kfir
		Report Attention:	
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9/17/22	11:25	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
4	4	4	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avalos	Jesus Avalos (IPC)	9/17/22	4:50
Received by: Richard Martinez	Richard Martinez (PCL)	9/17/22	1215
Relinquished by:			
Received by:			
Relinquished by:			
Received in lab by: Richard Martinez	Richard Martinez (PCL)	9/17/22	1345

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	(Yes) No
Samples intact?	(Yes) No
Samples properly preserved?	(Yes) No
Samples in holding time?	(Yes) No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO -Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu -$CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2210414

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) Daily EFF	
Address: 9297 Research Drive, Irvine, CA 92618	**Sampled by:** Ric Vardel / Golan Kfir	**P.O. #:**	
	Report Attention:	**Phone #:** 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9-18-22	1000	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.2 / 15.2°C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
SEP 18 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	E. MORRIS	9-18-22	1010
Received by	Cindy Marley	9-8-22	1205
Relinquished by	Cindy Marley	9-18-22	1306
Received by			
Relinquished by			
Received in lab by	Alex Walker (PCL) SEP 18 2022		1306

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0429

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Daily EFF
Address:	9297 Research Drive	Sampled by:	E. Morris
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9/19/22	1141	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.43/22.4°C
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
SEP 19 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: E. Morris	E. MORRIS	9/19/22	1145
Received by: AO	Amanda Olmos (Rev)	9/19/22	13:30
Relinquished by: AO	Amanda Olmos (Rev)	9/19/22	16:55
Received by:			
Relinquished by:			
Received in lab by: A. Eichhorn Jr.	NexWaves (Rev) SEP 19 2022		1655

Sample Received Checklist

Temperature upon receipt:	4°C
# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM
LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 06-Oct-22 13:21
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22I0466-01) Collected: 20-Sep-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI22026	1.8	20-Sep-22	23-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI22026	1.8	20-Sep-22	23-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI22213	0.1	20-Sep-22	20-Sep-22	**7.2 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI22031	0.05	20-Sep-22	20-Sep-22	**0.07 mg/l**	
EFF (Sample I.D.# : 22I0494-01) Collected: 21-Sep-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI22140	1.8	21-Sep-22	23-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI22140	1.8	21-Sep-22	23-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI22213	0.1	21-Sep-22	21-Sep-22	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI22143	0.05	21-Sep-22	21-Sep-22	**0.11 mg/l**	
EFF (Sample I.D.# : 22I0539-01) Collected: 22-Sep-22 By Golan Kfir of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI22214	1.8	22-Sep-22	24-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI22214	1.8	22-Sep-22	24-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI22729	0.1	22-Sep-22	22-Sep-22	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI22218	0.05	22-Sep-22	22-Sep-22	**0.08 mg/l**	
EFF (Sample I.D.# : 22I0561-01) Collected: 23-Sep-22 By JA							
Microbiological							
Fecal Coliforms	SM 9221E	AI22322	1.8	23-Sep-22	25-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI22322	1.8	23-Sep-22	25-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI22729	0.1	23-Sep-22	23-Sep-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI22327	0.05	23-Sep-22	23-Sep-22	**0.10 mg/l**	

Respectfully Submitted,

Stephen Sakai 10/6/2022
Lab Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 06-Oct-22 13:21
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22I0577-01) Collected: 24-Sep-22 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI22428	1.8	24-Sep-22	26-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI22428	1.8	24-Sep-22	26-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI22729	0.1	24-Sep-22	24-Sep-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI22726	0.05	27-Sep-22	27-Sep-22	**<0.05 mg/l**	
EFF (Sample I.D.# : 22I0584-01) Collected: 25-Sep-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI22522	1.8	25-Sep-22	28-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI22522	1.8	25-Sep-22	28-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI22729	0.1	25-Sep-22	25-Sep-22	**7.0 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI22726	0.05	27-Sep-22	27-Sep-22	**0.10 mg/l**	
EFF (Sample I.D.# : 22I0597-01) Collected: 26-Sep-22 By DH of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI22637	1.8	26-Sep-22	28-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI22637	1.8	26-Sep-22	28-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI22729	0.1	26-Sep-22	26-Sep-22	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI22726	0.05	27-Sep-22	27-Sep-22	**0.06 mg/l**	
EFF (Sample I.D.# : 22I0626-01) Collected: 27-Sep-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI22725	1.8	27-Sep-22	29-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI22725	1.8	27-Sep-22	29-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI23019	0.1	27-Sep-22	27-Sep-22	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI22826	0.05	28-Sep-22	28-Sep-22	**0.06 mg/l**	

Respectfully Submitted,

Stephen Sakai 10/6/2022
Lab Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 06-Oct-22 13:21
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22I0650-01) Collected: 28-Sep-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI22829	1.8	28-Sep-22	30-Sep-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI22829	1.8	28-Sep-22	30-Sep-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI23019	0.1	28-Sep-22	28-Sep-22	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI22907	0.05	28-Sep-22	28-Sep-22	**0.13 mg/l**	
EFF (Sample I.D.# : 22I0694-01) Collected: 29-Sep-22 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI22908	1.8	29-Sep-22	02-Oct-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI22908	1.8	29-Sep-22	02-Oct-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI23019	0.1	29-Sep-22	29-Sep-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI23015	0.05	30-Sep-22	30-Sep-22	**0.07 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 10/6/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0494

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: [signature] Ric Vardel / Golan Kfir	P.O. #:	
	Report Attention:	Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9-21-22	1130	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.8/27.3
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED By [signature]

Gectracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	[signature]	E. MWPAS	9-21-22	1147
Received by	[signature]	Cindy MWPAS	9-21-22	1147
Relinquished by	[signature]	Cindy MWPAS	9/21/22	1247
Received by				
Relinquished by				
Received in lab by	[signature]	Alex Walton Jr. (PCL)	SEP 21 2022	14:27

Sample Received Checklist

Temperature upon receipt:	4°C	
# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab Comp	HC - HCl HS - H_2SO_4 HN - HNO_3 HP - H_3PO_4 OH - NaOH ST - Sodium Thiosulfate AA - Ascorbic Acid Al - $AlCl_3$ Cu - $CuSO_4$
Matrix AQ - Water SO - Soil / Sludge OT - Other	
Bottle Type P - Plastic G - Amber Glass VOA - 40 ml Vial Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22IO539

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive		Sampled by: Golan Kfir	P.O. #:
Irvine	CA 92618	Report Attention: Ric Vardel / Golan Kfir	Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9/22/22	12:45	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
SEP 22 2022

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Golan IPC	9/22/22	12:36
Received by	Jivan Devis (PCL)	9/22/22	10:34
Relinquished by	Jivan Devis (PCL)	9/22/22	14:24
Received by			
Relinquished by			
Received in lab by	Alex Walhutin (PCL)	SEP 22 2022	1424

Sample Received Checklist

Temperature upon receipt: 4 °C
# of bottles agrees with COC? Yes No
Samples intact? Yes No
Samples properly preserved? Yes No
Samples in holding time? Yes No

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2210561

Customer:	IPC - Integrated Performance Consultants, Inc.	**Project :**	(MCC) Daily EFF
Address:	9297 Research Drive Irvine CA 92618	**Sampled by:**	Jesus Andes Ric Vardel / Golan Kfir
		Report Attention:	
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9/23/22	10:20	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
4	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

RECEIVED
SEP 23 2022
By

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Andes	Jesus Andes (IPC)	9/23/22	11:30
Received by:	Jonathan V. (PC)	9/23	11:50
Relinquished by:	Jonathan V. (PC)	9/23	12:57
Received by:			
Relinquished by:			
Received in lab by:	PCL	SEP 23 2022	1257

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC? Yes No

Samples intact? Yes No

Samples properly preserved? Yes No

Samples in holding time? Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0584

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Daily EFF
Address:	9297 Research Drive	Sampled by:	
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9/25/22	935	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.0 / 14.6
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
SEP 23 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	EMORALES	9-25-22	945
Received by	Cindy Martinez	9.25.22	1012
Relinquished by	Cindy Martinez	9/25/22	1207
Received by			
Relinquished by			
Received in lab by	Ver Hamson (PCL)	SEP 23 2022	1012

Sample Received Checklist

Temperature upon receipt: 4°

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO - Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu - $CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2210597

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Daily EFF
Address:	9297 Research Drive Irvine CA 92618	Sampled by: Daniel Huey Report Attention: Ric Vardel / Golan Kfir	P.O. #: Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: (Field) Lab
EFF	9/26/22	1120	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.67/27.5°C
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
SEP 26 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	Daniel Huey	Daniel (IPC)	9/26/22	1125
Received by		Armando Olmos (PCL)	9/26/22	12:10
Relinquished by		Armando Olmos (PCL)	9/26/22	13:50
Received by				
Relinquished by				
Received in lab by		Alex Ghanta (PCL) SEP 26 2022		17:50

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0626

Customer: IPC - Integrated Performance Consultants, Inc.		Project: (MCC) Daily EFF	
Address: 9297 Research Drive		Sampled by: E Morris	
Irvine CA 92618		Report Attention: Ric Vardel / Golan Kfir	Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9-27-22	1135	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.39 / 37.8°C
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
SEP 27 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		E MORRIS	9-27-22	1154
Received by		Juan Perez (PCL)	9-27-22	12:54
Relinquished by		Juan Perez (PCL)	9-27-22	14:42
Received by				
Relinquished by				
Received in lab by		Alex Walker (PCL) SEP 27 2022		1442

Sample Received Checklist

Temperature upon receipt: 4°C
# of bottles agrees with COC? Yes No
Samples intact? Yes No
Samples properly preserved? Yes No
Samples in holding time? Yes No

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0694

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive, Irvine, CA 92618	Sampled by: Jesus Avalos	P.O. #:	
	Report Attention: Ric Vardel / Golan Kfir	Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: (Field) Lab
EFF	9/29/22	11:25	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.50/25.1
〃	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	
✓									

RECEIVED
SEP 29 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avalos	Jesus Avalos (IPC)	9/29/22	11:30
Received by: 〃	Armando Olmos (PCL)	9/29/22	13:20
Relinquished by: 〃	Armando Olmos (PCL)	9/29/22	16:00
Received by:			
Relinquished by:			
Received in lab by: Alex Walkenhorst Jr.	Alex Walkenhorst Jr. SEP 29 2022		1600

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Matrix	Bottle Type
Grab	AQ - Water	P - Plastic
Comp	SO - Soil / Sludge	G - Amber Glass
	OT - Other	VOA - 40 ml Vial
		Coli - bacteria

Preservations

HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 13-Oct-22 12:46
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22I0714-01) Collected: 30-Sep-22 By MA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI23017	1.8	30-Sep-22	02-Oct-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI23017	1.8	30-Sep-22	02-Oct-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AJ20436	0.1	30-Sep-22	30-Sep-22	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI23025	0.05	30-Sep-22	30-Sep-22	**0.08 mg/l**	
EFF (Sample I.D.# : 22J0006-01) Collected: 01-Oct-22 By MA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AJ20124	1.8	01-Oct-22	03-Oct-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AJ20124	1.8	01-Oct-22	03-Oct-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AJ20436	0.1	01-Oct-22	01-Oct-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AJ20429	0.05	04-Oct-22	04-Oct-22	**0.04 mg/l**	
EFF (Sample I.D.# : 22J0011-01) Collected: 02-Oct-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AJ20227	1.8	02-Oct-22	04-Oct-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AJ20227	1.8	02-Oct-22	04-Oct-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AJ20436	0.1	02-Oct-22	02-Oct-22	**7.3 pH Units**	
Residual Chlorine	SM 4500Cl-G	AJ20429	0.05	04-Oct-22	04-Oct-22	**0.08 mg/l**	
EFF (Sample I.D.# : 22J0027-01) Collected: 03-Oct-22 By DH of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AJ20333	1.8	03-Oct-22	05-Oct-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AJ20333	1.8	03-Oct-22	05-Oct-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AJ20436	0.1	03-Oct-22	03-Oct-22	**8.0 pH Units**	
Residual Chlorine	SM 4500Cl-G	AJ20429	0.05	04-Oct-22	04-Oct-22	**0.11 mg/l**	

Respectfully Submitted,

Stephen Sakai 10/13/2022
Lab Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 13-Oct-22 12:46
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22J0067-01) Collected: 04-Oct-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AJ20434	1.8	04-Oct-22	07-Oct-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AJ20434	1.8	04-Oct-22	07-Oct-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AJ21128	0.1	04-Oct-22	04-Oct-22	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AJ20533	0.05	05-Oct-22	05-Oct-22	**0.18 mg/l**	
EFF (Sample I.D.# : 22J0098-01) Collected: 05-Oct-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AJ20540	1.8	05-Oct-22	13-Oct-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AJ20540	1.8	05-Oct-22	13-Oct-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AJ21128	0.1	05-Oct-22	05-Oct-22	**7.2 pH Units**	
Residual Chlorine	SM 4500Cl-G	AJ20613	0.05	06-Oct-22	06-Oct-22	**0.17 mg/l**	
EFF (Sample I.D.# : 22J0149-01) Collected: 06-Oct-22 By DH of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AJ20619	1.8	06-Oct-22	08-Oct-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AJ20619	1.8	06-Oct-22	08-Oct-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AJ21128	0.1	06-Oct-22	06-Oct-22	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AJ20621	0.05	06-Oct-22	06-Oct-22	**0.15 mg/l**	
EFF (Sample I.D.# : 22J0174-01) Collected: 07-Oct-22 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AJ20712	1.8	07-Oct-22	09-Oct-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AJ20712	1.8	07-Oct-22	09-Oct-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AJ21128	0.1	07-Oct-22	07-Oct-22	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AJ21045	0.05	10-Oct-22	10-Oct-22	**0.07 mg/l**	

Respectfully Submitted,

Stephen Sakai 10/13/2022
Lab Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 13-Oct-22 12:46
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22J0190-01) Collected: 08-Oct-22 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AJ20821	1.8	08-Oct-22	10-Oct-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AJ20821	1.8	08-Oct-22	10-Oct-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AJ21128	0.1	08-Oct-22	08-Oct-22	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AJ21045	0.05	10-Oct-22	10-Oct-22	**0.08 mg/l**	
EFF (Sample I.D.# : 22J0198-01) Collected: 09-Oct-22 By EM of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AJ20919	1.8	09-Oct-22	11-Oct-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AJ20919	1.8	09-Oct-22	11-Oct-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AJ21128	0.1	09-Oct-22	09-Oct-22	**7.1 pH Units**	
Residual Chlorine	SM 4500Cl-G	AJ21045	0.05	10-Oct-22	10-Oct-22	**0.08 mg/l**	
EFF (Sample I.D.# : 22J0212-01) Collected: 10-Oct-22 By Golan Kfir of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AJ21040	1.8	10-Oct-22	12-Oct-22	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AJ21040	1.8	10-Oct-22	12-Oct-22	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AJ21128	0.1	10-Oct-22	10-Oct-22	**7.3 pH Units**	
Residual Chlorine	SM 4500Cl-G	AJ21045	0.05	10-Oct-22	10-Oct-22	**0.08 mg/l**	

Respectfully Submitted,

Stephen Sakai 10/13/2022
Lab Director

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 13-Oct-22 12:46
Subject: (MCC) Daily EFF

Project/P.O.#: (MCC) Daily EFF

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 10/13/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0714

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Daily EFF
Address:	9297 Research Drive Irvine CA 92618	Sampled by:	Mario Aguirre
		Report Attention:	~~Ric Vardel / Golan Kfir~~
		P.O. #:	
		Phone #:	~~949-382-9067~~

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9/30/22	11:45	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.58/26.2°C
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
SEP 30 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Mario Aguirre (IPC)	9/30/22	11:50
Received by	Juan Devis (PCL)	9/30/22	13:14
Relinquished by	Juan Devis (PCL)	9/30/22	15:25
Received by			
Relinquished by			
Received in lab by	Alex Wallace (PCL)	SEP 30 2022	15:25

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab Comp	HC - HCl HS - H_2SO_4 HN - HNO_3 HP - H_3PO_4 OH - NaOH ST - Sodium Thiosulfate AA - Ascorbic Acid AI - $AlCl_3$ Cu - $CuSO_4$
Matrix AQ - Water SO - Soil / Sludge OT - Other	
Bottle Type P - Plastic G - Amber Glass VOA - 40 ml Vial Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2210006

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618	**Sampled by:** Jesus Avalos **Report Attention:** Ric Vardel / Golan Kfir	**P.O. #:** **Phone #:** 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	10/01/22	11:50	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	
Geotracker EDD: Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avalos	Jesus Avalos (IPC)	10/01/22	11:55
Received by: Richard Martinez	Richard Martinez (PCL)	10/01/22	1155
Relinquished by:			
Received by:			
Relinquished by:			
Received in lab by: Richard Martinez	Richard Martinez (PCL)	10/01/22	1430

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC? (Yes) No

Samples intact? (Yes) No

Samples properly preserved? (Yes) No

Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO - Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22J0011

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Daily EFF
Address:	9297 Research Drive Irvine CA 92618	Sampled by:	Ric Vardel / Golan Kfir
		Report Attention:	
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field / Lab
EFF	10-2-22	935	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.3 | 17.1
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
OCT 02 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	E. Morris	10-2-22	945
Received by	Cindy Murray	10-2-22	1125
Relinquished by	cindy murray	10-2-22	1218
Received by			
Relinquished by			
Received in lab by	Alex Walker Jr. (ALJ)	OCT 02 2022	12:18

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22J0027

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: Daniel Huey Report Attention: Rio Vardell / Golan Kfir	P.O. #: Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	10/3/22	1125	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	pH = 7.98
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	Temp = 22.2°C
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

RECEIVED
OCT 03 2022
By

Signature	Print Name (Company)	Date	Time
Relinquished by	Daniel (IPC)	10/3/22	1130
Received by	MARIO SANTIESTEBAN (PCL)	10/3/22	1341
Relinquished by	MARIO SANTIESTEBAN (PCL)	10/3/22	1530
Received by			
Relinquished by			
Received lab by	(PCL)	OCT 03 2022	1530

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22J0067

Customer: IPC - Integrated Performance Consultants, Inc.		Project: – (MCC) Daily EFF	
Address: 9297 Research Drive, Irvine, CA 92618		Sampled by: Ric Vardel / Golan Kfir	P.O. #:
		Report Attention:	Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	10/4/22	1145	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.49/31.7°C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
OCT 04 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		E. Morales	10/4/22	1152
Received by		Juan Devis (PCL)	10/4/22	12:21
Relinquished by		Juan Devis (PCL)	10/4/22	14:00
Received by				
Relinquished by				
Received in lab by		Alex Walker, Jr. (PCL)	OCT 04 2022	1420

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
(G) Grab
Comp

Matrix
(AQ) - Water
SO -Soil / Sludge
OT - Other

Bottle Type
(P) - Plastic
G - Amber Glass
VOA - 40 ml Vial
(Coli) - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22J0098

Customer:	IPC - Integrated Performance Consultants, Inc.	**Project :**	(MCC) Daily EFF
Address:	9297 Research Drive Irvine CA 92618	**Sampled by:**	E. Morris
		Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH/Temperature) pH: Field Lab
EFF	10-5-22	1013	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.2 | 16.2
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
OCT 05 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	E. Morris	E. MORRIS	10-5-22	1030
Received by		Cindy Manning	10.5.22	1142
Relinquished by		Cindy Manning	10.5.22	1255
Received by				
Relinquished by				
Received in lab by		Alex Walkin (PC)	OCT 05 2022	1255

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22J0149

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: Daniel Hoey Report Attention: Ric Vardell / Golan Kfir	P.O. #: Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	10/6/22	1110	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	
Geotracker EDD: Logcode: IPCI Global ID: WDR100000359									

RECEIVED
OCT 06 2022
By

Signature	Print Name (Company)	Date	Time
Relinquished by	Daniel (IPC)	10/6/22	1115
Received by	Jonathan V. (PCL)	10/6	12:10
Relinquished by	Jonathan V. (PCL)	10/6	13:10
Received by			
Relinquished by			
Received in lab by	Alex Wolcott (PCL)	OCT 06 2022	1310

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type: (Grab) Comp

Matrix: (AQ) - Water; SO -Soil / Sludge; OT - Other

Bottle Type: (P) - Plastic; G - Amber Glass; VOA - 40 ml Vial; (Coli) - bacteria

Preservations: HC - HCl; HS - H_2SO_4; HN - HNO_3; HP - H_3PO_4; OH - NaOH; (ST) - Sodium Thiosulfate; AA - Ascorbic Acid; AI - $AlCl_3$; Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22J0174

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive		Sampled by: Jesus Avalos	P.O. #:
Irvine	CA 92618	Report Attention: Ric Vardel / Golan Kfir	Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field / Lab
EFF	10/7/22	11:30	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.76 / 25.1
	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
OCT 07 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avalos	Jesus Avalos (IPC)	10/7/22	11:40
Received by:	Cindy Mwaniki	10-7-22	12:32
Relinquished by:	Cindy Mwaniki	10-7-22	1345
Received by:			
Relinquished by:			
Received in lab by:	Alex Walkinshaw (Pat)	OCT 07 2022	1345

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2250190

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618	**Sampled by:** Jesus Avalos **Report Attention:** ~~Ric Vardel / Golan Kfir~~	**P.O. #:** **Phone #:** ~~949-382-9067~~	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	10/8/22	11:50	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avalos	Jesus Avalos (PC)	10/8/22	11:55
Received by:	Richard Martinez (PC)	10/8/22	1155
Relinquished by:			
Received by:			
Relinquished by:			
Received in lab by:	Richard Martinez (PC)	10/8/22	1535

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC? (Yes) No

Samples intact? (Yes) No

Samples properly preserved? (Yes) No

Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab Comp	HC - HCl HS - H_2SO_4 HN - HNO_3 HP - H_3PO_4 OH - NaOH ST - Sodium Thiosulfate AA - Ascorbic Acid Al - $AlCl_3$ Cu - $CuSO_4$
Matrix AQ - Water SO - Soil / Sludge OT - Other	
Bottle Type P - Plastic G - Amber Glass VOA - 40 ml Vial Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 220198

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) Daily EFF	
Address: 9297 Research Drive		**Sampled by:** Ric Vardel / Golan Kfir	**P.O. #:**
Irvine CA 92618		**Report Attention:**	**Phone #:** 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field / Lab
EFF	10-9-22	945	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.1 / 5.6
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	E. MORRIS	10-9-22	955
Received by	Cindy Mary	10-9-22	1130
Relinquished by	Chemmarcy	10-9-22	12:25
Received by			
Relinquished by			
Received in lab by	MARIO SANTIESTEBAN (PCL)	10/9/22	1225

Sample Received Checklist

Temperature upon receipt: 2 °C
# of bottles agrees with COC? (Yes) No
Samples intact? (Yes) No
Samples properly preserved? (Yes) No
Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2210212

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive, Irvine CA 92618	Sampled by: Golan Kfir	P.O. #:	
	Report Attention: Ric Vardel / Golan Kfir	Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field / Lab
EFF	10/10/22	11:07	1	pH, T.Res.Chlorine	Grab	AQ	500ml Plastic	4°C	7.39 / 28.3
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli Bottle	4°C, ST	

RECEIVED
OCT 10 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by GK	Golan IPC	10/10/22	11:08
Received by	Cindy MARTINEZ	10/10/22	11:8
Relinquished by	Cindy MARTINEZ	10/10/22	12:05
Received by			
Relinquished by			
Received in lab by	Alex Wallwa (Acq) OCT 10 2022		1205

Sample Received Checklist 4°C

Temperature upon receipt:		
# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 09-Jul-22 12:40
Subject: (MCC) Weekly EFF A

Project/P.O.#: (MCC) Weekly EFF A

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22G0079-01) Collected: 05-Jul-22 By EM of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AG20618	1	06-Jul-22	06-Jul-22	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AG20815	0.10	08-Jul-22	08-Jul-22	**<0.10 mg/l**	
Nitrate as N	EPA 353.2	AG20534	0.05	05-Jul-22	05-Jul-22	**0.13 mg/l**	
Nitrite as N	EPA 353.2	AG20534	0.05	05-Jul-22	05-Jul-22	**0.006 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AG20631	0.10	06-Jul-22	08-Jul-22	**0.99 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 7/9/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22GW679

Customer: IPC - Integrated Performance Consultants, Inc.

Project : **(MCC) Weekly EFF - A**

Address: 9297 Research Drive

Irvine CA 92618

Sampled by:

Report Attention: Ric Vardel / Golan Kfir

P.O. #:

Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preser-vation	Field Data (pH / Temperature) pH: **Field** **Lab**
EFF	7-5-22	1105	1	TSS	Grab	AQ	1-Liter-Plastic	4°C	
		"	1	Ammonia, TKN	Grab	AQ	500ml Plastic	4°C	
		"	1	Nitrate, Nitrite	Grab	AQ	250ml Plastic	4°C	

RECEIVED
JUL 05 2022
By

Geotracker EDD:

Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		E. MORRIS	7-5-22	1134
Received by		Juan Davis (PCL)	7-5-22	12:42
Relinquished by		Juan Davis (PCL)	7/5/22	15:28
Received by				
Relinquished by				
Received in lab by			JUL 05 2022	1528

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC? **Yes** No

Samples intact? **Yes** No

Samples properly preserved? **Yes** No

Samples in holding time? **Yes** No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 12-Jul-22 15:04
Subject: (MCC) Weekly EFF B

Project/P.O.#: (MCC) Weekly EFF B

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22G0112-01) Collected: 05-Jul-22 By EM of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AG20710	2	07-Jul-22	12-Jul-22	**<2 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 7/12/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22 G0112

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	**(MCC) Weekly EFF - B**
Address:	9297 Research Drive	Sampled by:	
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7-5-22	2359	1	Biochemical Oxygen Demand (BOD)	Comp	AQ	1-Liter-Plastic	4°C	

RECEIVED
JUL 06 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		E. MORRIS IPC	7-6-22	1117
Received by		Juan Davis (PCL)	7-6-22	13:57
Relinquished by		Juan Davis (PCL)	7-6-22	17:21
Received by				
Relinquished by				
Received in lab by			JUL 06 2022	1724

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab Comp	HC - HCl HS - H_2SO_4
Matrix AQ - Water SO - Soil / Sludge OT - Other	HN - HNO_3 HP - H_3PO_4 OH - NaOH ST - Sodium Thiosulfate
Bottle Type P - Plastic G - Amber Glass VOA - 40 ml Vial Coli - bacteria	AA - Ascorbic Acid Al - $AlCl_3$ Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 19-Jul-22 08:57
Subject: (MCC) Weekly EFF A

Project/P.O.#: (MCC) Weekly EFF A

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22G0268-01) Collected: 12-Jul-22 By EM of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AG21336	1	13-Jul-22	14-Jul-22	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AG21414	0.20	14-Jul-22	14-Jul-22	**<0.20 mg/l**	
Nitrate as N	EPA 353.2	AG21325	0.05	13-Jul-22	13-Jul-22	**0.12 mg/l**	
Nitrite as N	EPA 353.2	AG21325	0.05	13-Jul-22	13-Jul-22	**0.007 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AG21621	0.10	16-Jul-22	18-Jul-22	**1.20 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 7/19/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 226268

Customer:	IPC - Integrated Performance Consultants, Inc.	Project:	(MCC) Weekly EFF - A
Address:	9297 Research Drive	Sampled by:	Mario Aguirre
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7/12/22	9:56	1	TSS	Grab	AQ	1-Liter-Plastic	4°C	
"	"	"	1	Ammonia, TKN	Grab	AQ	500ml Plastic	4°C	
"	"	"	1	Nitrate, Nitrite	Grab	AQ	250ml Plastic	4°C	

RECEIVED
JUL 12 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Mario Aguirre (IPC)	7/12/22	10:35
Received by		Juan Devis (IPCL)	7/12/22	12:41
Relinquished by		Juan Devis (IPCL)	7/12/22	17:41
Received by				
Relinquished by				
Received in lab by			JUL 12 2022	1741

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO - Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu - $CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 19-Jul-22 08:59
Subject: (MCC) Weekly EFF B

Project/P.O.#: (MCC) Weekly EFF B

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22G0307-01) Collected: 12-Jul-22 By C.A of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AG21403	2	14-Jul-22	19-Jul-22	**<2 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 7/19/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 226307

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	**(MCC) Weekly EFF - B**
Address:	9297 Research Drive	Sampled by:	Carlos Alvarez
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	07/12/22	2359	1	Biochemical Oxygen Demand (BOD)	Comp	AQ	1-Liter-Plastic	4°C	

RECEIVED
JUL 13 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	07/13/22	11:10
Received by		Juan Davis (PLL)	7/13/22	12:17
Relinquished by		Juan Davis (PLL)	7/13/22	16:26
Received by				
Relinquished by				
Received in lab by		JUL 13 2022		1626

Sample Received Checklist

Temperature upon receipt: 4°C
# of bottles agrees with COC? Yes No
Samples intact? Yes No
Samples properly preserved? Yes No
Samples in holding time? Yes No

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 05-Aug-22 14:14
Subject: (MCC) Weekly EFF A

Project/P.O.#: (MCC) Weekly EFF A

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22G0443-01) Collected: 19-Jul-22 By EM of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AG22025	1	20-Jul-22	20-Jul-22	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AG22631	0.20	26-Jul-22	05-Aug-22	**<0.20 mg/l**	
Nitrate as N	EPA 353.2	AG21836	0.05	19-Jul-22	19-Jul-22	**0.08 mg/l**	
Nitrite as N	EPA 353.2	AG21836	0.05	19-Jul-22	19-Jul-22	**0.05 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AG21924	0.10	19-Jul-22	22-Jul-22	**0.94 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 8/5/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2206443

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Weekly EFF - A
Address:	9297 Research Drive	Sampled by:	emorris
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
P.O. #:		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7-19-22	1147	1	TSS	Grab	AQ	1-Liter-Plastic	4°C	
	"	"	1	Ammonia, TKN	Grab	AQ	500ml Plastic	4°C	
	"	"	1	Nitrate, Nitrite	Grab	AQ	250ml Plastic	4°C	

RECEIVED
JUL 19 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	emorris	E. Morris	7-19-22	1154
Received by		Juan Devis (PCL)	7-19-22	12:44
Relinquished by		Juan Devis (PCL)	7-19-22	16:20
Received by				
Relinquished by				
Received in lab by		JUL 19 2022		1620

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO - Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu - $CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 28-Jul-22 09:41
Subject: (MCC) Weekly EFF B

Project/P.O.#: (MCC) Weekly EFF B

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22G0481-01) Collected: 19-Jul-22 By EM of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AG22205	2	22-Jul-22	27-Jul-22	**2 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 7/28/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2260481

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	**(MCC)** Weekly **EFF - B**
Address:	9297 Research Drive	Sampled by:	E. Morris
	Irvine CA 92618	Report Attention:	Ric Vardel / Goian Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7-19-22	2359	1	Biochemical Oxygen Demand (BOD)	Comp	AQ	1-Liter-Plastic	4°C	

RECEIVED
JUL 20 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	E. Morris	E. MORRIS IPC	7-20-22	1156
Received by		Juan Davis (PCL)	7-20-22	12:17
Relinquished by		Juan Davis (PCL)	7-20-22	16:20
Received by				
Relinquished by				
Received in lab by		JUL 20 2022		1620

Sample Received Checklist

Temperature upon receipt:	4°C	
# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab Comp	HC - HCl HS - H_2SO_4 HN - HNO_3 HP - H_3PO_4 OH - NaOH ST - Sodium Thiosulfate AA - Ascorbic Acid Al - $AlCl_3$ Cu - $CuSO_4$
Matrix AQ - Water SO - Soil / Sludge OT - Other	
Bottle Type P - Plastic G - Amber Glass VOA - 40 ml Vial Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 18-Aug-22 08:49
Subject: (MCC) Weekly EFF A

Project/P.O.#: (MCC) Weekly EFF A

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22G0594-01) Collected: 26-Jul-22 By Mario Aguirre of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AG22804	1	28-Jul-22	28-Jul-22	**<1 mg/l**	
Inorganic Constituents							
Nitrate as N	EPA 353.2	AG22734	0.05	27-Jul-22	27-Jul-22	**0.24 mg/l**	
Nitrite as N	EPA 353.2	AG22734	0.05	27-Jul-22	27-Jul-22	**0.03 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AG22725	0.10	27-Jul-22	17-Aug-22	**1.02 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 8/18/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 226Ø594

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	**(MCC)** Weekly **EFF - A**
Address:	9297 Research Drive	Sampled by:	Maric Aguirre
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7/26/22	11:11	1	TSS	Grab	AQ	1-Liter-Plastic	4°C	
"	"	"	1	Ammonia, TKN	Grab	AQ	500ml Plastic	4°C	
"	"	"	1	Nitrate, Nitrite	Grab	AQ	250ml Plastic	4°C	

RECEIVED
JUL 26 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Maric Aguirre (IPC)	7/26/22	11:46
Received by	Juan Davis (PCL)	7/26/22	17:11
Relinquished by	Juan Davis (PCL)	7/26/22	17:20
Received by			
Relinquished by			
Received in lab by		JUL 26 2022	1770

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
C Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories (PCL) Terms and Conditions

1. Definitions

"Terms and Conditions" means those Terms and Conditions of sale, including the price schedule, and any additions or amendments hereto which are agreed to in writing. "Client" means the individual or entity who may request laboratory services, consulting or sampling services and his or its heirs, successors, assigns and representatives. "Price Schedule" means Pat-Chem Laboratories (PCL) standard price schedule as such document may be amended or reissued from time to time by PCL.

2. Independent Contractor

PCL acts solely as an independent contractor in performing all services.

3. Orders and Acceptance

PCL offers and will accept orders for services (as defined herein) only under the following General Terms and Conditions (the "Terms"). These Terms shall not apply if PCL and the Client shall have executed a separate agreement in writing which does not incorporate the Terms. No modifications to the Terms shall be valid and binding unless in writing and signed by an authorized representative of the client and PCL.

The client may order services by submitting a written chain of custody (COC) to PCL. Any such order constitutes 1. an acceptance by the client of PCL's offer to do business with the client under the terms and condition and 2. an agreement to be bound by these terms and conditions. The Client's delivery of samples to PCL or initiation of consulting services constitutes the client's express assent to be governed by these terms and conditions. No contrary or additional terms and conditions expressed in a client's document shall be deemed to become a part of the contract created upon acceptance of the terms and conditions.

For purpose of this agreement, "services" shall mean all work to be performed for the client, including provision of all equipment and materials to be furnished by PCL.

4. Limit of Liability

PCL will perform the services in accordance with the normal standards of workmanship in the profession. Where applicable, PCL will use analytical methodologies which are in substantial conformity with the U.S. Environmental Protection Agency (EPA), CA Waterboard (ELAP), American Society for Testing and Materials (ASTM), Association of Official Analytical Chemists (AOAC), Standard Methods (SM) of the Examination of Water and Wastewater and/or other recognized methodologies. PCL reserves the right to deviate from these methodologies if necessary or appropriate due to the nature or compositions of the samples or otherwise based on the reasonable judgement of PCL. Deviations, if any, will be made on a basis consistent with the recognized standards of the industry and/or PCL Standard Operating Procedures (SOP) and/or our QA/QC policies. The total liability of PCL, its officers, agents, employees or successors to the client, arising out of or in connection with the services to be provided herein, shall not exceed the invoiced amount for said services. Client's acceptance of a work order and /or proposal releases PCL from any liability in excess of the invoiced amount for the services notwithstanding any provisions to the contrary in any client purchase orders or contracts.

5. Clients Responsibility

Unless PCL personnel performs the sampling, the client shall be responsible for the condition which the samples are collected and for conditions in and about the sampling site and for advising PCL of the same and all information required to enable PCL to perform its services safely and efficiently.

6. Cancellation

Client may cancel any order for services hereunder subject to payment for all services rendered and out-of-pocket expenses incurred up to the date of cancellation in accordance with the applicable Price Schedule.

7. Overriding Agreement

The parties agree that the Terms shall govern performance of client's initial order and all subsequent orders for additional services, whether placed in writing or verbally, except to the extent the Terms are modified in writing and executed by an authorized representative of both parties.

8. Force Majeure

PCL shall not be responsible for delay or failure to perform the services pursuant to this agreement due to causes beyond its control.

9. Confidentiality

Data and the sample materials provided by client or at client's request and the results obtained by PCL shall be held in confidence (unless such information is generally available to the public or is the public domain or client has filed to pay PCL for all services rendered or is otherwise in breach of the agreement) subject to any disclosure required by law or legal process. PCL shall use the same standard of care it uses in protecting its own confidential data and shall not be responsible for unauthorized disclosure of said data where such standard was observed. PCL reports and information provided therein are for the exclusive use and benefit of client and client agrees there shall be no third party beneficiaries of such reports, data or information. Client will not disclose to any third party any information concerning technical information, software programs or other formulations.

10. Hold Harmless

Client releases and shall save, indemnify, defend and hold PCL, its employees, officers, directors, agents, affiliates, subsidiaries and parent harmless from and against any and all liabilities, losses or damages, claims, demands, causes of action, suits and associated expenses including, but not limited to all court fees (the Litigation Expenses) and awards arising in favor of Client or any third party as a result of, and/or in any way occurring incident to arising out of, or in connection with the performance of services by PCL pursuant to this agreement and/or transportation, handling or disposal of clients hazardous materials. 1. Injury, disease or death of persons 2. Loss of, damage to, loss of, or loss of use of property and or 3. Financial loss of every kind of character. This indemnity does not apply to any of the foregoing losses, costs, damages, or injuries caused solely by the gross negligence or willful misconduct of PCL or its employees. Further, this indemnity shall specifically apply to losses, claims damages, actions of every kind and character arising out of or in connection with the negligence of or breach of contract by any indemnified Person, whether actual or alleged, in the performance of services under this agreement. The foregoing indemnities will be in addition to any liability which the client might otherwise have to PCL and the other indemnified Persons. To the extent necessary under applicable law, client agrees that its indemnity obligation will be supported by available liability insurance coverage to be furnished by client, which insurance shall be in the maximum amounts permitted under applicable law. In no event shall PCL be liable to client for indirect, punitive, special, incidental or consequential damages (including, without limitation, loss of profit or business interruption). Litigation Expenses or other fees including, without limitation, attorney's fees, court costs, and /or pre or post judgment interest), or any other expenses or costs incurred by client or any other party in any litigation against or involving PCL or any indemnified person in connection with this agreement or any services provided under this agreement even if client is the prevailing party.

11. Hazardous Substances

For PCL to perform the services requested by client, client will provide and PCL will receive samples materials for analyses such as asbestos, polychlorinated Biphenyls, bacteria or any other hazardous or toxic material, wastes and substances which are defined, determined or identified as such under federal, state or local laws, rules, PCL policies or regulations (whether now existing or hereafter enacted or promulgated or any judicial or administrative interpretation of any thereof the "Hazardous Materials"). Client understands and agrees that any hazardous material received by PCL from client or at client's request shall remain the property of Client and that upon completion of PCL's services, PCL will dispose of all unused portions of samples as specified by client or by PCL's QA/QC policies. In the event the client does not specify its preferred method of disposal, PCL will return to the client all unused samples which contain Hazardous Materials. PCL reserves the right to charge the client for the disposal of unused samples in accordance with PCL's current sample disposal policy. In addition, all samples received by PCL for any/all bacterial analysis, client will be charged a sample disposal fee, per sample submitted, in accordance with our QA/QC policies and procedures.

12. Prices/Payments

Client shall pay PCL in accordance with PCL's applicable price schedule in effect in the area of operations on the date the services were rendered or with prices quoted and later confirmed in writing. The price schedule is subject to change at any time without notice. Payment in advance or when analysis is completed is required for all new clients or until a history of payment and/or credit account has been established with PCL. For those clients with an established credit account, the terms for payment of charges are NET CASH within thirty (30) days from date of invoices. To the fullest extent permitted (if at all) by applicable law, any amount unpaid at the end of thirty (30) days is subject to interest at the lessor of the maximum rate permitted by law or one and one-half percent (1.5%) per month on the unpaid balances. If unpaid amounts are collected through legal proceedings or by an attorney, the client shall pay reasonable costs and attorney's fees or agents' fees associated with such collection procedure or efforts.

13. Agreement Modification

Changes, modifications or amendments to the terms shall be effective only in writing and executed by an officer of PCL and by client's authorized representative, except that subsequent orders for additional services may be verbal or in writing.

14. No Third Party Beneficiaries: No Right of Reliance

PCL shall have no responsibility or liability for client's use of or reliance on data, information, or reports furnished by PCL. Client is securing services hereunder for his own account, and not as agent or broker, or in any other representative capacity for any other person or entity. It is agreed and acknowledged that there are no third party beneficiaries to this agreement, and that no third party may rely on such data, information or reports. Client represents, warrants, and agrees that said data, information and reports are not requested, or shall be used, furnished or in connection with or as part of, the purchase, sale, offer, writing, or distribution of any securities, any periodic or other reporting to the holders of any security, the securing, amendment, renewal, or extension of any loan from any financial institution or other lender or the certification to or contracting with, directly or indirectly, any governmental agency or department.

15. Rush Analysis

Rush analyses are available for an additional charge and must be arranged in advanced. If, for any unforeseen reason, the rush turnaround time cannot be met, the normal price will apply.

16. Holding Times

PCL cannot be responsible for holding times that are exceeded because of samples that are delivered on weekends or after 3pm on weekdays without prior notification and acceptance. Standard holding times and storage conditions should be reviewed prior to any samples being received by PCL. A list of holding times can be provided to the client if requested. All analyses with holding times of 96 hours or less, samples must arrive within 96 hours to allow PCL to meet holding times without applying a rush surcharge. All short holding times, 2-7 days, samples must arrive at the lab within 24 hours before expiration to insure that the holding times can be met. Short Holding Times of 48 hours or less (bacteria is 6 hours) must be delivered that same day in order to guarantee holding times are met. After hours, late delivery, freight company delays or similar issues are subject to additional rush fees and/or the inability to meet holding times. All holding times are in effect as of the publication date of this fee schedule and are subject to change without notice.

17. Sample Retention

All samples are retained for at least thirty (30) days after analysis has been completed. Sample storage for longer periods is by request only. Pre-arranged long term storage is subject to an additional charge. Samples will be discarded at the end of the pre-arranged storage time.

18. Sample Pick Up/Field Tech Sampling

All pick up/sampling fees have been notated on the fee schedule. Reasonable time has been allocated for each pick up or service. Unnecessary delays during the pick up or sampling, might be accessed an additional fee.

August 10, 2022

Lab No. : SP 2212350
Customer No. : 2012670

Pat-Chem Laboratories
ATTN:Steven Jefferson
1824 1st St
San Fernando, CA 91340

Laboratory Report

Introduction: This report package contains a total of 3 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(1 page)	: Results for each sample submitted.
Quality Control	(1 page)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
22G0594-01	07/26/2022	08/02/2022	SP 2212350-001	W

Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary	
SM 4500-NH3 G	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: MKH

Approved By **David Terz, B.A., M.B.A.** Digitally signed by David Terz, B.A., M.B.A.
Title: QA Director
Date: 2022-08-10

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

August 10, 2022

Pat-Chem Laboratories
ATTN:Steven Jefferson
1824 1st St
San Fernando, CA 91340

Description : 22G0594-01
Project : Pat-Chem Laboratories 22G0594

Lab No. : SP 2212350-001
Customer No. : 2012670

Sampled On : July 26, 2022 at 11:11
Sampled By : N/A
Received On : August 2, 2022 at 11:13
Matrix : Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Ammonia Nitrogen	ND	0.2	mg/L		1	U	08/08/2022	16:20	lcr	SM 4500-NH3 G	08/09/2022	11:08	lcr

DQF Flags Definition:
U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

Page 2 of 3

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

August 10, 2022

Pat-Chem Laboratories

Lab No. : SP 2212350
Customer No. : 2012670

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Ammonia Nitrogen	4500NH3G	08/08/2022:208923LCR	Blank	mg/L		ND	<0.2	
			LCS	mg/L	2.000	95.9%	90-110	
			MS	mg/L	2.000	93.1%	46-139	
		(SP 2212663-001)	MSD	mg/L	2.000	94.4%	46-139	
			MSRPD	mg/L	2.000	1.4%	≤20	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyted. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
ND : Non-detect - Result was below the DQO listed for the analyte.

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

SUBCONTRACT ORDER

Pat-Chem Laboratories

22G0594 2212350

SENDING LABORATORY:

Pat-Chem Laboratories
1824 First Street
San Fernando, CA 91340
Phone: 818-639-5300
Fax: 818-639-5306
Project Manager: Stephen Berentsen

RECEIVING LABORATORY:

Fruit Growers - FGL
853 Corporation Street
Santa Paula, CA 93060
Phone :(805) 525-3824
Fax: (805) 525-4172

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 22G0594-01	**Water**	**Sampled:26-Jul-22 11:11**		**IPC - (MCC) Weekly EFF**
Ammonia as N 350.1	10-Aug-22 12:00	23-Aug-22 11:11		
Containers Supplied:				

Released By: Alexander Jr. — Date: AUG 02 2022 — Received By: MC — Date: 8/2/22 11:13

Released By — Date — Received By — Date

RUI 6

Condition Upon Receipt (Attach to COC) SP 2212350

Sample Receipt at SP:

1. Number of ice chests/packages received: **OTC**
2. Shipper tracking numbers _____
3. Were samples received in a chilled condition?
   Temps: **ROI** / **6C** / _____ / _____ / _____ / _____ / _____

4. Surface water (SWTR) bact samples: A sample that has a temperature upon receipt of >10C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

5. Do the number of bottles received agree with the COC?	**Yes**	**No**	**N/A**	
6. Verify sample date, time, sampler	**Yes**	**No**	**N/A**	
7. Were the samples received intact? (i.e. no broken bottles, leaks, etc.)	**Yes**	**No**		
8. Were sample custody seals intact?	**Yes**	**No**	**N/A**	

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable?	**Yes**	**No**		
2. Did bottle labels correspond with the client's ID's?	**Yes**	**No**		
3. Were all bottles requiring sample preservation properly preserved? [Exception: Oil & Grease, VOA and CrVI verified in lab]	**Yes**	**No**	**N/A**	**FGL**
4. VOAs checked for Headspace?	**Yes**	**No**	**N/A**	
5. Were all analyses within holding times at time of receipt?	**Yes**	**No**		
6. Have rush or project due dates been checked and accepted?	**Yes**	**No**	**N/A**	

Include a copy of the COC for lab delivery. (Bacti. Inorganics and Radio)

Sample Receipt, Login and Verification completed by: Reviewed and Approved By **Matthew Casas** Digitally signed by Matthew Casas Title: Sample Receiving Date: 08/02/2022-17:35:23

Discrepency Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: _____ Phone Number: _____
   Initiated By: _____ Date: _____
   Problem:

   Resolution:

2. Person Contacted: _____ Phone Number: _____
   Initiated By: _____ Date: _____
   Problem:

   Resolution:

(2012670)
Pat-Chem Laboratories
SP 2212350
MDC-08/02/2022-17:35:23

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 02-Aug-22 11:33
Subject: (MCC) Weekly EFF B

Project/P.O.#: (MCC) Weekly EFF B

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22G0614-01) Collected: 26-Jul-22 By EM of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AG22803	2	28-Jul-22	02-Aug-22	**<2 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 8/2/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 226614

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	**(MCC) Weekly EFF - B**
Address:	9297 Research Drive	Sampled by:	
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
P.O. #:		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7-26-22	2359	1	Biochemical Oxygen Demand (BOD)	Comp	AQ	1-Liter-Plastic	4°C	

RECEIVED
JUL 27 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	E. Moppys	7-27-22	1003
Received by	Juan Davis (PCL)	7/27/22	1548
Relinquished by	Juan Davis (PCL)	7/27/22	15:54
Received by			
Relinquished by			
Received in lab by		JUL 27 2022	1554

Sample Received Checklist

Temperature upon receipt:	4°C
# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 26-Aug-22 12:08
Subject: (MCC) Weekly EFF A

Project/P.O.#: (MCC) Weekly EFF A

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22H0080-01) Collected: 02-Aug-22 By EM of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AH20328	1	03-Aug-22	03-Aug-22	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AH22434	0.10	24-Aug-22	24-Aug-22	**<0.10 mg/l**	
Nitrate as N	EPA 353.2	AH20506	0.05	04-Aug-22	04-Aug-22	**0.24 mg/l**	
Nitrite as N	EPA 353.2	AH20506	0.05	04-Aug-22	04-Aug-22	**0.01 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AH22437	0.10	24-Aug-22	26-Aug-22	**0.54 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 8/26/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0080

Customer:	IPC - Integrated Performance Consultants, Inc.	Project:	**(MCC) Weekly EFF - A**
Address:	9297 Research Drive	Sampled by:	E. MORRIS
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8-2-22	1110	1	TSS	Grab	AQ	1-Liter-Plastic	4°C	
	"	"	1	Ammonia, TKN	Grab	AQ	500ml Plastic	4°C	
	"	"	1	Nitrate, Nitrite	Grab	AQ	250ml Plastic	4°C	

RECEIVED
AUG 0 2 2022
By

~~Geotracker EDD:~~
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	E. MORRIS	8-2-22	1149
Received by	Juan Davis (PCL)	8-2-22	12:13
Relinquished by	Juan Davis (PCL)	8-2-22	16:00
Received by			
Relinquished by			
Received in lab by		AUG 0 2 2022	1600

Sample Received Checklist

Temperature upon receipt: 4.2

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO - Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu - $CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 09-Aug-22 12:15
Subject: (MCC) Weekly EFF B

Project/P.O.#: (MCC) Weekly EFF B

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22H0116-01) Collected: 02-Aug-22 By EM of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AH20404	2	04-Aug-22	09-Aug-22	**6 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 8/9/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0116

Customer: IPC - Integrated Performance Consultants, Inc.		Project: **(MCC) Weekly EFF - B**	
Address: 9297 Research Drive		Sampled by: emorris	P.O. #:
Irvine CA 92618		Report Attention: Ric Vardel / Golan Kfir	Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8-2-22	2359	1	Biochemical Oxygen Demand (BOD)	Comp	AQ	1-Liter-Plastic	4°C	

RECEIVED
AUG 03 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: emorris	Eric Morris	8-3-22	1133
Received by:	Juan Davis (PCL)	8-3-22	12:15
Relinquished by:	Juan Davis (PCL)	8-3-22	15:50
Received by:			
Relinquished by:			
Received in lab by:	AUG 03 2022		15:50

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
(Grab)
Comp

Matrix
(AQ) - Water
SO -Soil / Sludge
OT - Other

Bottle Type
(P) - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 14-Aug-22 14:34
Subject: (MCC) Weekly EFF A

Project/P.O.#: (MCC) Weekly EFF A

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22H0235-01) Collected: 09-Aug-22 By EM of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AH21027	1	10-Aug-22	11-Aug-22	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AH21024	0.20	10-Aug-22	10-Aug-22	**<0.20 mg/l**	
Nitrate as N	EPA 353.2	AH21025	0.05	10-Aug-22	10-Aug-22	**0.28 mg/l**	
Nitrite as N	EPA 353.2	AH21025	0.05	10-Aug-22	10-Aug-22	**0.01 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AH21103	0.10	11-Aug-22	12-Aug-22	**0.62 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 8/14/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0235

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	**(MCC) Weekly EFF - A**
Address:	9297 Research Drive	Sampled by:	E. Morris
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/9/22	1135	1	TSS	Grab	AQ	1-Liter-Plastic	4°C	
	"	"	1	Ammonia, TKN	Grab	AQ	500ml Plastic	4°C	
	"	"	1	Nitrate, Nitrite	Grab	AQ	250ml Plastic	4°C	

RECEIVED
AUG 09 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: E. Morris	E. Morris	8/9/22	1212
Received by: Juan Devis (IPC)	Juan Devis (IPC)	8/9/22	12:37
Relinquished by: Juan Devis (IPC)	Juan Devis (IPC)	8/9/22	14:34
Received by:			
Relinquished by:			
Received in lab by:	AUG 09 2022		14:34

Sample Received Checklist

Temperature upon receipt: 4°C
# of bottles agrees with COC? Yes No
Samples intact? Yes No
Samples properly preserved? Yes No
Samples in holding time? Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 16-Aug-22 10:03
Subject: (MCC) Weekly EFF B

Project/P.O.#: (MCC) Weekly EFF B

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22H0277-01) Collected: 09-Aug-22 By EM of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AH21104	2	11-Aug-22	16-Aug-22	**5 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 8/16/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2210277

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	**(MCC) Weekly EFF - B**
Address:	9297 Research Drive	Sampled by:	
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8-9-22	2359	1	Biochemical Oxygen Demand (BOD)	Comp	AQ	1-Liter-Plastic	4°C	

RECEIVED
AUG 10 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	E. MORRIS	8-10-22	1054
Received by	Juan Davis (PCL)	8-10-22	13:46
Relinquished by	Juan Davis (PCL)	8-10-22	17:00
Received by			
Relinquished by			
Received in lab by	Pat-Chem AUG 10 2022		17:00

Sample Received Checklist

Temperature upon receipt:	4°C	
# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab W S Comp	HC - HCl HS - H_2SO_4 HN - HNO_3 HP - H_3PO_4 OH - NaOH ST - Sodium Thiosulfate AA - Ascorbic Acid Al - $AlCl_3$ Cu - $CuSO_4$
Matrix AQ - Water SO - Soil / Sludge OT - Other	
Bottle Type P - Plastic G - Amber Glass VOA - 40 ml Vial Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 19-Aug-22 14:58
Subject: (MCC) Weekly EFF A

Project/P.O.#: (MCC) Weekly EFF A

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22H0382-01) Collected: 16-Aug-22 By EM of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AH21807	1	18-Aug-22	18-Aug-22	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AH21726	0.20	17-Aug-22	17-Aug-22	**<0.20 mg/l**	
Nitrate as N	EPA 353.2	AH21727	0.05	17-Aug-22	17-Aug-22	**0.22 mg/l**	
Nitrite as N	EPA 353.2	AH21727	0.05	17-Aug-22	17-Aug-22	**0.04 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AH21904	0.10	19-Aug-22	19-Aug-22	**0.64 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 8/19/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0382

Customer:	IPC - Integrated Performance Consultants, Inc.	Project:	**(MCC) Weekly EFF - A**
Address:	9297 Research Drive	Sampled by:	emorris
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8-16-22	1120	1	TSS	Grab	AQ	1-Liter-Plastic	4°C	
			1	Ammonia, TKN	Grab	AQ	500ml Plastic	4°C	
			1	Nitrate, Nitrite	Grab	AQ	250ml Plastic	4°C	

RECEIVED
AUG 16 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: emorris	E. MORRIS	8-16-22	1136
Received by:	Jonathan V. (PCL)	8/16	12:08
Relinquished by:	Jonathan V. (PCL)	8/16	13:25
Received by:			
Relinquished by:			
Received in lab by:	AUG 16 2022		1325

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO - Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	AI - $AlCl_3$
G - Amber Glass	Cu - $CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 24-Aug-22 10:35
Subject: (MCC) Weekly EFF B

Project/P.O.#: (MCC) Weekly EFF B

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22H0489-01) Collected: 18-Aug-22 By EM of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AH21909	2	19-Aug-22	24-Aug-22	**2 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 8/24/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2210489

Customer: IPC - Integrated Performance Consultants, Inc.		Project: **(MCC) Weekly EFF - B**	
Address: 9297 Research Drive		Sampled by: Carlos Alvarez	P.O. #:
Irvine CA 92618		Report Attention: Ric Vardel / Golan Kfir	Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: **Field** **Lab**
EFF	08/18/22	2359	1	Biochemical Oxygen Demand (BOD)	Comp	AQ	1-Liter-Plastic	4°C	

RECEIVED
AUG 19 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	08/19/22	1145
Received by		Jonathan V. (PCL)	8/19	1210
Relinquished by		Jonathan V. (PCL)	8/19	1330
Received by				
Relinquished by				
Received in lab by		AUG 19 2022		1330

Sample Received Checklist

Temperature upon receipt: 4°

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Matrix	Bottle Type
Grab	AQ - Water	P - Plastic
Comp	SO - Soil / Sludge	G - Amber Glass
	OT - Other	VOA - 40 ml Vial
		Coli - bacteria

Preservations

HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 30-Aug-22 12:27
Subject: (MCC) Weekly EFF A

Project/P.O.#: (MCC) Weekly EFF A

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22H0538-01) Collected: 23-Aug-22 By KV of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AH22431	1	24-Aug-22	24-Aug-22	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AH22434	0.10	24-Aug-22	24-Aug-22	**<0.10 mg/l**	
Nitrate as N	EPA 353.2	AH22427	0.05	24-Aug-22	24-Aug-22	**0.35 mg/l**	
Nitrite as N	EPA 353.2	AH22427	0.05	24-Aug-22	24-Aug-22	**0.006 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AH22921	0.10	29-Aug-22	30-Aug-22	**0.76 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 8/30/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2210538

Customer:	IPC - Integrated Performance Consultants, Inc.	Project:	**(MCC) Weekly EFF - A**
Address:	9297 Research Drive	Sampled by:	Kyle Vardel
	Irvine CA 92618	Report Attention:	Ric Vardel / Goian Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/23/22	1110	1	TSS	Grab	AQ	1-Liter-Plastic	4°C	
	"	1110	1	Ammonia, TKN	Grab	AQ	500ml Plastic	4°C	
	"	1110	1	Nitrate, Nitrite	Grab	AQ	250ml Plastic	4°C	

RECEIVED
AUG 23 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Kyle Vardel (IPC)	8/23/22	1120
Received by	Juan Devis (PCL)	8/23/22	12:20
Relinquished by	Juan Devis (PCL)	8/23/22	1340
Received by			
Relinquished by			
Received in lab by	Pat-Chem Lab AUG 23 2022		1340

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 30-Aug-22 09:23
Subject: (MCC) Weekly EFF B

Project/P.O.#: (MCC) Weekly EFF B

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22H0565-01) Collected: 23-Aug-22 By KV of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AH22506	2	25-Aug-22	30-Aug-22	**2 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 8/30/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0565

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Weekly EFF - B
Address:	9297 Research Drive	Sampled by:	Kyle Vardel
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
P.O. #:		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/23/22	2359	1	Biochemical Oxygen Demand (BOD)	Comp	AQ	1-Liter-Plastic	4°C	

RECEIVED
AUG 24 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Kyle Vardel (IPC)	8/24/22	1110
Received by	Juan Devis (PCL)	8/24/22	12:29
Relinquished by	Juan Devis (PCL)	8/24/22	14:10
Received by			
Relinquished by			
Received in lab by		AUG 24 2022	1410

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type: (Grab) Comp

Matrix: (AQ) - Water; SO -Soil / Sludge; OT - Other

Bottle Type: (P) - Plastic; G - Amber Glass; VOA - 40 ml Vial; Coli - bacteria

Preservations: HC - HCl; HS - H_2SO_4; HN - HNO_3; HP - H_3PO_4; OH - NaOH; ST - Sodium Thiosulfate; AA - Ascorbic Acid; Al - $AlCl_3$; Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 02-Sep-22 11:44
Subject: (MCC) Weekly EFF A

Project/P.O.#: (MCC) Weekly EFF A

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22H0687-01) Collected: 30-Aug-22 By EM of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AH23116	1	31-Aug-22	31-Aug-22	**3 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AI20109	0.10	01-Sep-22	01-Sep-22	**0.24 mg/l**	
Nitrate as N	EPA 353.2	AH23028	0.05	31-Aug-22	01-Sep-22	**0.95 mg/l**	
Nitrite as N	EPA 353.2	AH23028	0.05	31-Aug-22	01-Sep-22	**0.04 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AI20103	0.10	01-Sep-22	02-Sep-22	**1.16 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 9/2/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 224 0687

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Weekly EFF - A
Address:	9297 Research Drive	Sampled by:	
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/30/22	1010	1	TSS	Grab	AQ	1-Liter-Plastic	4°C	
	"	"	1	Ammonia, TKN	Grab	AQ	500ml Plastic	4°C	
	"	"	1	Nitrate, Nitrite	Grab	AQ	250ml Plastic	4°C	

RECEIVED
AUG 30 2022
By

~~Geotracker~~ EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	E. MORRIS IPC	8/30/22	1146
Received by	Juan Devis IPC	8/30/22	12:03
Relinquished by	Juan Devis IPC	8/30/22	14:25
Received by			
Relinquished by			
Received in lab by	Alex Walker (ACL) AUG 30 2022		

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO - Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	AI - $AlCl_3$
G - Amber Glass	Cu - $CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 06-Sep-22 22:24
Subject: (MCC) Weekly EFF B

Project/P.O.#: (MCC) Weekly EFF B

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22H0712-01) Collected: 30-Aug-22 By EM of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AI20108	2	01-Sep-22	06-Sep-22	**5 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 9/6/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0712

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	**(MCC)** Weekly **EFF - B**
Address:	9297 Research Drive	Sampled by:	
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
P.O. #:		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8-30-22	23:59	1	Biochemical Oxygen Demand (BOD)	Comp	AQ	1-Liter-Plastic	4°C	

RECEIVED
AUG 3 1 2022
By

~~Geotracker~~ EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		E. MORRIS	8-31-22	1045
Received by		Armando Olmos (PCL)	8/31/22	12:10
Relinquished by		Armando Olmos (PCL)	8/31/22	14:70
Received by				
Relinquished by				
Received in lab by		Alex Wahlstrom (PCL) AUG 3 1 2022		1420

Sample Received Checklist

Temperature upon receipt:	Y-C	
# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO -Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu -$CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 14-Sep-22 12:39
Subject: (MCC) Weekly EFF A

Project/P.O.#: (MCC) Weekly EFF A

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22I0106-01) Collected: 06-Sep-22 By MA of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AI20809	1	08-Sep-22	08-Sep-22	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AI20816	0.10	08-Sep-22	08-Sep-22	**<0.10 mg/l**	
Nitrate as N	EPA 353.2	AI20733	0.05	07-Sep-22	07-Sep-22	**0.17 mg/l**	
Nitrite as N	EPA 353.2	AI20733	0.05	07-Sep-22	07-Sep-22	**<0.05 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AI21228	0.10	12-Sep-22	14-Sep-22	**0.74 mg/l**	

Notes and Definitions

QC-5 Sample was originally analyzed within hold time. However, it was determined that positive interference was contributing to the sample result. So the sample was reanalyzed at a dilution to eliminate the interference.

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 9/14/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0106

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	**(MCC)** Weekly **EFF - A**
Address:	9297 Research Drive	Sampled by:	Mari Aguirre
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: **Field** **Lab**
EFF	9/6/22	11:07	1	TSS	Grab	AQ	1-Liter-Plastic	4°C	
〃	〃	〃	1	Ammonia, TKN	Grab	AQ	500ml Plastic	4°C	
〃	〃	〃	1	Nitrate, Nitrite	Grab	AQ	250ml Plastic	4°C	

RECEIVED
SEP 06 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Mari Aguirre (IPC)	9/6/22	11:48
Received by		Juan Devis (PCL)	9/6/22	13:05
Relinquished by		Juan Devis (PCL)	9/6/22	16:00
Received by				
Relinquished by				
Received in lab by		PCL SEP 06 2022		

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC?	(Yes) No
Samples intact?	(Yes) No
Samples properly preserved?	(Yes) No
Samples in holding time?	(Yes) No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
(G)rab
Comp

Matrix
(AQ) - Water
SO -Soil / Sludge
OT - Other

Bottle Type
(P) - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
(HS) - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 14-Sep-22 09:07
Subject: (MCC) Weekly EFF B

Project/P.O.#: (MCC) Weekly EFF B

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22I0150-01) Collected: 06-Sep-22 By EM of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AI20813	2	08-Sep-22	13-Sep-22	**4 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 9/14/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0150

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	**(MCC) Weekly EFF - B**
Address:	9297 Research Drive	Sampled by:	
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9-6-22	2259	1	Biochemical Oxygen Demand (BOD)	Comp	AQ	1-Liter-Plastic	4°C	

RECEIVED
SEP 07 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	E. MORRIS	9-7-22	1152
Received by	MARIO SANTIESTEBAN (PCL)	9/7/22	1335
Relinquished by	MARIO SANTIESTEBAN (PCL)	9/7/22	1525
Received by			
Relinquished by			
Received in lab by	PCL	SEP 07 2022	1525

Sample Received Checklist

Temperature upon receipt: 4.C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO -Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	AI - $AlCl_3$
G - Amber Glass	Cu -$CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 29-Sep-22 11:28
Subject: (MCC) Weekly EFF A

Project/P.O.#: (MCC) Weekly EFF A

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22I0300-01) Collected: 13-Sep-22 By EM of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AI21510	1	15-Sep-22	15-Sep-22	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AI22137	0.10	21-Sep-22	26-Sep-22	**<0.10 mg/l**	
Nitrate as N	EPA 353.2	AI21424	0.05	14-Sep-22	14-Sep-22	**0.25 mg/l**	
Nitrite as N	EPA 353.2	AI21424	0.05	14-Sep-22	14-Sep-22	**0.006 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AI22135	0.10	21-Sep-22	29-Sep-22	**1.12 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 9/29/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22IO300

Customer: IPC - Integrated Performance Consultants, Inc.	Project : (MCC) Weekly EFF - A	
Address: 2257 Research Drive	Sampled by: emorris	P.O. #:
	Report Attention:	Phone #:

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9-13-22	1052	1	TSS	Grab	AQ	1-Liter Plastic	4°C	
	"	"	1	Ammonia, TKN	Grab	AQ	500ml Plastic	4°C	
			1	Nitrate, Nitrite	Grab	AQ	250ml Plastic	4°C	

RECEIVED
SEP 13 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: emorris	E. MORRIS	9-13-22	1151
Received by:	Juan Devis (PCL)	9-13-22	12:05
Relinquished by:	Juan Devis (PCL)	9-13-22	13:20
Received by:			
Relinquished by:			
Received in lab by:	Alex Walker Jr. (PCL)	SEP 13 2022	1320

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 20-Sep-22 13:30
Subject: (MCC) Weekly EFF B

Project/P.O.#: (MCC) Weekly EFF B

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22I0331-01) Collected: 13-Sep-22 By C.A of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AI21512	2	15-Sep-22	20-Sep-22	**3 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 9/20/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0331

Customer: IPC - Integrated Performance Consultants, Inc.		Project: (MCC) Weekly EFF - B	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: Carlos Alvarez Report Attention: Ric Vardel / Golan Kfir	P.O. #: Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	09/13/22	2359	1	Biochemical Oxygen Demand (BOD)	Comp	AQ	1-Liter-Plastic	4°C	

RECEIVED
SEP 14 2022

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	09/14/22	1130
Received by		MARIO SANTIESTEBAN (PCL)	9/14/22	1532
Relinquished by		MARIO SANTIESTEBAN (PCL)	9/14/22	1530
Received by				
Relinquished by				
Received in lab by		Alex Walton Jr. (PCL)	SEP 14 2022	1520

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
(C) Grab Comp	HC - HCl HS - H_2SO_4
Matrix (AQ) - Water SO -Soil / Sludge OT - Other	HN - HNO_3 HP - H_3PO_4 OH - NaOH ST - Sodium Thiosulfate
Bottle Type (P) - Plastic G - Amber Glass VOA - 40 ml Vial Coli - bacteria	AA - Ascorbic Acid AI - $AlCl_3$ Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 05-Oct-22 14:17
Subject: (MCC) Weekly EFF A

Project/P.O.#: (MCC) Weekly EFF A

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22I0464-01) Collected: 20-Sep-22 By EM of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AI22216	1	22-Sep-22	23-Sep-22	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AI22137	0.10	21-Sep-22	26-Sep-22	**<0.10 mg/l**	
Nitrate as N	EPA 353.2	AI22132	0.05	21-Sep-22	21-Sep-22	**0.15 mg/l**	
Nitrite as N	EPA 353.2	AI22132	0.05	21-Sep-22	21-Sep-22	**<0.05 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AI22631	0.10	26-Sep-22	05-Oct-22	**1.08 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 10/5/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0464

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) Weekly EFF - A	
Address: 9297 Research Drive		**Sampled by:** E. Morris	**P.O. #:**
Irvine	CA 92618	**Report Attention:** Ric Vardel / Golan Kfir	**Phone #:** 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9/20/22	1115	1	TSS	Grab	AQ	1-Liter-Plastic	4°C	
	"	"	1	Ammonia, TKN	Grab	AQ	500ml Plastic	4°C	
	"	"	1	Nitrate, Nitrite	Grab	AQ	250ml Plastic	4°C	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

RECEIVED
SEP 20 2022
By

	Signature	Print Name (Company)	Date	Time
Relinquished by		E. MORRIS	9/20/22	1130
Received by		Juan Deras (PCL)	9/20/22	13:00
Relinquished by		Juan Deras (PCL)	9/20/22	14:27
Received by				
Relinquished by				
Received in lab by		Alex Walkin Jr. (PCL)	SEP 20 2022	1427

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Matrix	Bottle Type
Grab	AQ - Water	P - Plastic
Comp	SO - Soil / Sludge	G - Amber Glass
	OT - Other	VOA - 40 ml Vial
		Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 28-Sep-22 10:41
Subject: (MCC) Weekly EFF B

Project/P.O.#: (MCC) Weekly EFF B

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22I0507-01) Collected: 20-Sep-22 By EM of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AI22209	2	22-Sep-22	27-Sep-22	**3 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 9/28/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2210507

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Weekly EFF - B	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: EMorris Report Attention: Ric Vardel / Golan Kfir	P.O. #:	Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9-20-22	2359	1	Biochemical Oxygen Demand (BOD)	Comp	AQ	1-Liter-Plastic	4°C	7.7 / 26.3

RECEIVED
SEP 21 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	E MORRIS	9-21-22	1147
Received by	Cindy Morris	9.21.22	1150
Relinquished by	Cindy Mathieu	9.21.22	2:29
Received by			
Relinquished by			
Received in lab by	Alex Walker (AW) SEP 21 2022		14:27

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab Comp	HC - HCl HS - H_2SO_4 HN - HNO_3 HP - H_3PO_4 OH - NaOH ST - Sodium Thiosulfate AA - Ascorbic Acid AI - $AlCl_3$ Cu - $CuSO_4$
Matrix AQ - Water SO - Soil / Sludge OT - Other	
Bottle Type P - Plastic G - Amber Glass VOA - 40 ml Vial Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 07-Oct-22 17:20
Subject: (MCC) Weekly EFF A

Project/P.O.#: (MCC) Weekly EFF A

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22I0634-01) Collected: 27-Sep-22 By EM of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AI22830	1	28-Sep-22	29-Sep-22	**1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AI22827	0.10	28-Sep-22	28-Sep-22	**<0.10 mg/l**	
Nitrate as N	EPA 353.2	AI22629	0.05	28-Sep-22	28-Sep-22	**1.10 mg/l**	
Nitrite as N	EPA 353.2	AI22629	0.05	28-Sep-22	28-Sep-22	**<0.05 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AJ20617	0.10	06-Oct-22	07-Oct-22	**1.93 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 10/7/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0634

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	**(MCC) Weekly EFF - A**
Address:	9297 Research Drive	Sampled by:	E. Morris
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9-27-22	1135	1	TSS	Grab	AQ	1-Liter-Plastic	4°C	
	"	"	1	Ammonia, TKN	Grab	AQ	500ml Plastic	4°C	
	"	"	1	Nitrate, Nitrite	Grab	AQ	250ml Plastic	4°C	

RECEIVED
SEP 27 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	E. Morris	9-27-22	1154
Received by	Juan Nevis (PCL)	9/27/22	12:54
Relinquished by	Juan Nevis (PCL)	9/27/22	14:42
Received by			
Relinquished by			
Received in lab by	Alex Wackstrom (PCL)	SEP 27 2022	1442

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab Comp	**HC** - HCl **HS** - H_2SO_4 **HN** - HNO_3 **HP** - H_3PO_4 **OH** - NaOH **ST** - Sodium Thiosulfate **AA** - Ascorbic Acid **AI** - $AlCl_3$ **Cu** - $CuSO_4$
Matrix **AQ** - Water **SO** - Soil / Sludge **OT** - Other	
Bottle Type **P** - Plastic **G** - Amber Glass **VOA** - 40 ml Vial **Coli** - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 04-Oct-22 12:50
Subject: (MCC) Weekly EFF B

Project/P.O.#: (MCC) Weekly EFF B

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22I0652-01) Collected: 27-Sep-22 By EM of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AI22906	2	29-Sep-22	04-Oct-22	**5 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 10/4/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0652

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) Weekly EFF - B
Address:	9297 Research Drive	Sampled by:	
	Irvine CA 92618	Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9-27-22	23:59	1	Biochemical Oxygen Demand (BOD)	Comp	AQ	1-Liter-Plastic	4°C	

RECEIVED
SEP 28 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		ERIC MORRIS	9-28-22	1046
Received by		Armando Olmos (PCL)	9/28/22	13:30
Relinquished by		Armando Olmos (PCL)	9/28/22	15:30
Received by				
Relinquished by				
Received in lab by		Abel Wallace Jr. (PCL)	SEP 28 2022	1530

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO - Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	AI - $AlCl_3$
G - Amber Glass	Cu - $CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 12-Jul-22 15:07
Subject: (MCC) Weekly INF

Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 22G0116-01) Collected: 05-Jul-22 By EM of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AG20706	1	07-Jul-22	07-Jul-22	**299 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AG20710	2	07-Jul-22	12-Jul-22	**444 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 7/12/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22GW116

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Weekly INF	
Address: 9297 Research Drive, Irvine, CA 92618	Sampled by: Ric Vardel / Golan Kfir	P.O. #:	
	Report Attention:	Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
INF	7-5-22	2359	1	TSS	Comp	AQ	1-Liter Plastic	4°C	
	"	"	1	BOD	Comp	AQ	1-Liter Plastic	4°C	

RECEIVED
JUL 06 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		E. MORRIS IPC	7-6-22	1117
Received by		Juan Nevis (PCL)	7-6-22	13:57
Relinquished by		Juan Nevis (PCL)	7-6-22	17:21
Received by				
Relinquished by				
Received in lab by			JUL 06 2022	1721

Sample Received Checklist

Temperature upon receipt: 4°C
# of bottles agrees with COC? Yes No
Samples intact? Yes No
Samples properly preserved? Yes No
Samples in holding time? Yes No

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type	Preservations
Grab **Comp**	**HC** - HCl **HS** - H_2SO_4
Matrix **AQ** - Water **SO** -Soil / Sludge **OT** - Other	**HN** - HNO_3 **HP** - H_3PO_4 **OH** - NaOH **ST** - Sodium Thiosulfate
Bottle Type **P** - Plastic **G** - Amber Glass **VOA** - 40 ml Vial **Coli** - bacteria	**AA** - Ascorbic Acid **AI** - $AlCl_3$ **Cu** -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 19-Jul-22 09:01
Subject: (MCC) Weekly INF

Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 22G0310-01) Collected: 12-Jul-22 By C.A of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AG21412	1	14-Jul-22	15-Jul-22	**265 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AG21403	2	14-Jul-22	19-Jul-22	**402 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 7/19/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 226031Ø

Customer:	IPC - Integrated Performance Consultants, Inc.	Project:	(MCC) Weekly INF
Address:	9297 Research Drive Irvine CA 92618	Sampled by:	Carlos Alvarez
		Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
INF	07/12/22	2359	1	TSS	Comp	AQ	1-Liter Plastic	4°C	
	"	"	1	BOD	Comp	AQ	1-Liter Plastic	4°C	
1									

RECEIVED
JUL 13 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	07/13/22	11:10
Received by		Swan Davis (PCL)	7/13/22	12:17
Relinquished by		Swan Davis (PCL)	7/13/22	16:26
Received by				
Relinquished by				
Received in lab by			JUL 13 2022	1626

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC?	(Yes)	No
Samples intact?	(Yes)	No
Samples properly preserved?	(Yes)	No
Samples in holding time?	(Yes)	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
(Grab) Comp	HC - HCl HS - H_2SO_4 HN - HNO_3 HP - H_3PO_4 OH - NaOH ST - Sodium Thiosulfate AA - Ascorbic Acid Al - $AlCl_3$ Cu - $CuSO_4$
Matrix (AQ) - Water SO - Soil / Sludge OT - Other	
Bottle Type (P) - Plastic G - Amber Glass VOA - 40 ml Vial Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 28-Jul-22 09:39
Subject: (MCC) Weekly INF

Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 22G0482-01) Collected: 19-Jul-22 By EM of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AG22106	1	21-Jul-22	21-Jul-22	**294 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AG22205	2	22-Jul-22	27-Jul-22	**516 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 7/28/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22G0482

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Weekly INF	
Address: 9297 Research Drive Irvine CA 92618		Sampled by: Ric Vardel / Golan Kfir	P.O. #: 949-382-9067
		Report Attention:	Phone #:

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
INF	7-19-22	2359	1	TSS	Comp	AQ	1-Liter Plastic	4°C	
	"	"	1	BOD	Comp	AQ	1-Liter Plastic	4°C	

RECEIVED
JUL 20 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Relinquished by / Received by	Signature	Print Name (Company)	Date	Time
Relinquished by		E. MORRIS	7-20-22	1156
Received by		Juan Davis (PCL)	7-20-22	12:12
Relinquished by		Juan Davis (PCL)	7-20-22	16:28
Received by				
Relinquished by				
Received in lab by		JUL 20 2022		1620

Sample Received Checklist

Temperature upon receipt: 4.0 °C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO -Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu -$CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 02-Aug-22 11:31
Subject: (MCC) Weekly INF

Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 22G0615-01) Collected: 26-Jul-22 By EM of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AG22904	1	29-Jul-22	29-Jul-22	**330 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AG22803	2	28-Jul-22	02-Aug-22	**542 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 8/2/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample 226

Sample I.D.#: 226160 22 GG615

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Weekly INF	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: emorris Ric Vardel / Golan Kfir	P.O. #:	949-382-9067
	Report Attention:	Phone #:	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
INF	7-26-22	2359	1	TSS	Comp	AQ	1-Liter Plastic	4°C	
	7-26-22	2359	1	BOD	Comp	AQ	1-Liter Plastic	4°C	

RECEIVED
JUL 27 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: emorris	E. Morris	7-27-22	1003
Received by: Juan Nevis (PCL)	Juan Nevis (PCL)	7-27-22	11:48
Relinquished by: Juan Nevis (PCL)	Juan Nevis (PCL)	7-27-22	15:54
Received by:			
Relinquished by:			
Received in lab by:	JUL 27 2022		1554

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO -Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu -$CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 09-Aug-22 12:17
Subject: (MCC) Weekly INF

Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 22H0117-01) Collected: 02-Aug-22 By EM of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AH20410	1	04-Aug-22	05-Aug-22	**285 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AH20404	2	04-Aug-22	09-Aug-22	**663 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 8/9/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0117

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Weekly INF	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: Ric Vardel / Golan Kfir	P.O. #:	
	Report Attention:	Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
INF	8-2-22	2359	1	TSS	Comp	AQ	1-Liter Plastic	4°C	
			1	BOD	Comp	AQ	1-Liter Plastic	4°C	

RECEIVED
AUG 03 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	E. Martin	8-3-22	1133
Received by	Juan Davis (PCL)	8-3-22	12:15
Relinquished by	Juan Davis (PCL)	8-3-22	15:50
Received by			
Relinquished by			
Received in lab by		AUG 03 2022	15:50

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO - Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu - $CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 16-Aug-22 10:04
Subject: (MCC) Weekly INF

Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 22H0278-01) Collected: 09-Aug-22 By EM of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AH21206	1	12-Aug-22	12-Aug-22	**331 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AH21104	2	11-Aug-22	16-Aug-22	**688 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 8/16/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H6278

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Weekly INF	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: emerris Ric Vardel / Golan Kfir	P.O. #:	
	Report Attention:	Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
INF	8-9-22	2359	1	TSS	Comp	AQ	1-Liter Plastic	4°C	
			1	BOD	Comp	AQ	1-Liter Plastic	4°C	

RECEIVED
AUG 10 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by emerris	E. MORRIS	8-10-22	1054
Received by	Juan Davis (PCL)	8-10-22	13:46
Relinquished by	Juan Davis (PCL)	8-10-22	17:00
Received by			
Relinquished by			
Received in lab by	Pat-Chem AUG 10 2022		1700

Sample Received Checklist

Temperature upon receipt:	4 °C
# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO - Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	AI - $AlCl_3$
G - Amber Glass	Cu - $CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 24-Aug-22 10:33
Subject: (MCC) Weekly INF

Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 22H0490-01) Collected: 18-Aug-22 By CA of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AH22222	1	22-Aug-22	22-Aug-22	**274 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AH21909	2	19-Aug-22	24-Aug-22	**530 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 8/24/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0490

Customer:	IPC - Integrated Performance Consultants, Inc.	**Project:**	(MCC) Weekly INF
Address:	9297 Research Drive	**Sampled by:**	Carlos Alvarez
	Irvine CA 92618	**Report Attention:**	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
INF	08/18/22	2359	1	TSS	Comp	AQ	1-Liter Plastic	4°C	
"	"	"	1	BOD	Comp	AQ	1-Liter Plastic	4°C	

RECEIVED
AUG 19 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	08/19/22	1145
Received by		Jonathan V. (PC)	8/19	1145
Relinquished by		Jonathan V. (PC)	8/19	13:30
Received by				
Relinquished by				
Received in lab by		AUG 19 2022		1330

Sample Received Checklist

Temperature upon receipt: 4°C
# of bottles agrees with COC? Yes No
Samples intact? Yes No
Samples properly preserved? Yes No
Samples in holding time? Yes No

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 30-Aug-22 09:26
Subject: (MCC) Weekly INF

Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 22H0567-01) Collected: 23-Aug-22 By KV of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AH22511	1	25-Aug-22	25-Aug-22	**274 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AH22506	2	25-Aug-22	30-Aug-22	**564 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 8/30/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2210567

Customer: IPC - Integrated Performance Consultants, Inc.

Project: (MCC) ~~Weekly INF~~

Address: 9297 Research Drive, Irvine, CA 92618

Sampled by: Kyle Vardel

Report Attention: Ric Vardel / Golan Kfir

P.O. #:

Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
~~INF~~	8/23/22	2359	1	TSS	Comp	AQ	1-Liter Plastic	4°C	
	"	"	1	BOD	Comp	AQ	1-Liter Plastic	4°C	

RECEIVED
AUG 24 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Kyle Vardel (IPC)	8/24/22	1110
Received by		Juan Nevis (LL)	8/24/22	12:14
Relinquished by		Juan Nevis (PCL)	8/24/22	14:10
Received by				
Relinquished by				
Received in lab by			AUG 24 2022	1410

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO -Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu -$CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 08-Sep-22 14:00
Subject: (MCC) Weekly INF

Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 22H0713-01) Collected: 30-Aug-22 By EM of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AI20809	1	08-Sep-22	08-Sep-22	**236 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AI20108	2	01-Sep-22	06-Sep-22	**583 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 9/8/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22H0713

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Weekly INF	
Address: 9297 Research Drive, Irvine, CA 92618	Sampled by: Ric Vardel / Golan Kfir	P.O. #:	
	Report Attention:	Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
INF	8-30-22	2359	1	TSS	Comp	AQ	1-Liter Plastic	4°C	
			1	BOD	Comp	AQ	1-Liter Plastic	4°C	

RECEIVED
AUG 31 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	E. MORRIS	8-31-22	1045
Received by	Armando Olmos (PCL)	8/31/22	12:10
Relinquished by	Armando Olmos (PCL)	8/31/22	14:20
Received by			
Relinquished by			
Received in lab by	Nga Walton (PCL) AUG 31 2022		1420

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO - Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 14-Sep-22 09:05
Subject: (MCC) Weekly INF

Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 22I0151-01) Collected: 06-Sep-22 By EM of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AI20914	1	09-Sep-22	09-Sep-22	**316 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AI20813	2	08-Sep-22	13-Sep-22	**485 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 9/14/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0151

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Weekly INF	
Address: 9297 Research Drive, Irvine, CA 92618	Sampled by: Ric Vardel / Golan Kfir	P.O. #:	
	Report Attention:	Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
INF	9-6-22	2359	1	TSS	Comp	AQ	1-Liter Plastic	4°C	
	"	"	1	BOD	Comp	AQ	1-Liter Plastic	4°C	

RECEIVED
SEP 07 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	E. Morris	9-7-22	1152
Received by	MARIO SANTIESTEBAN (PCL)	9/7/22	1330
Relinquished by	MARIO SANTIESTEBAN (PCL)	9/7/22	1525
Received by			
Relinquished by			
Received in lab by	PCL	SEP 07 2022	1525

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC?	(Yes) No
Samples intact?	(Yes) No
Samples properly preserved?	(Yes) No
Samples in holding time?	(Yes) No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
(Grab)
Comp

Matrix
(AQ) - Water
SO -Soil / Sludge
OT - Other

Bottle Type
(P) Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 20-Sep-22 13:29
Subject: (MCC) Weekly INF

Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 22I0332-01) Collected: 13-Sep-22 By CA of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AI21515	1	15-Sep-22	16-Sep-22	**216 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AI21512	2	15-Sep-22	20-Sep-22	**429 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 9/20/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0332

Customer: IPC - Integrated Performance Consultants, Inc.

Project : (MCC) Weekly INF

Address: 9297 Research Drive, Irvine, CA 92618

Sampled by: Carlos Alvarez

Report Attention: Ric Vardel / Golan Kfir

P.O. #:

Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
INF	09/13/22	2359	1	TSS	Comp	AQ	1-Liter Plastic	4°C	
			1	BOD	Comp	AQ	1-Liter Plastic	4°C	

RECEIVED
SEP 14 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Carlos Alvarez (IPC)	09/14/22	1130
Received by	MARIO SANTIESTEBAN (PCL)	9/14/22	1333
Relinquished by	MARIO SANTIESTEBAN (PCL)	9/14/22	1520
Received by			
Relinquished by			
Received in lab by	Alexander Jr. (PCL)	SEP 14 2022	1520

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC? Yes No

Samples intact? Yes No

Samples properly preserved? Yes No

Samples in holding time? Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 28-Sep-22 10:42
Subject: (MCC) Weekly INF

Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 22I0508-01) Collected: 20-Sep-22 By EM of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AI22216	1	22-Sep-22	23-Sep-22	**264 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AI22209	2	22-Sep-22	27-Sep-22	**371 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 9/28/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0508

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Weekly INF	
Address: 9297 Research Drive, Irvine, CA 92618	Sampled by: Ric Vardel / Golan Kfir	P.O. #:	
	Report Attention:	Phone #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
INF	9-20-22	2359	1	TSS	Comp	AQ	1-Liter Plastic	4°C	8.0/13.0 C
			1	BOD	Comp	AQ	1-Liter Plastic	4°C	

RECEIVED
SEP 21 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	E. MURPHY	9-21-22	1147
Received by	Cindy Murphy	9.21.22	1450
Relinquished by	Cindy Murphy	9/21/22	2:27
Received by			
Relinquished by			
Received in lab by	Alex Wallin-(Pat) SEP 21 2022		14:27

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Matrix	Bottle Type
(G) Grab	AQ - Water	P - Plastic
Comp	SO -Soil / Sludge	G - Amber Glass
	OT - Other	VOA - 40 ml Vial
		Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 04-Oct-22 12:46
Subject: (MCC) Weekly INF

Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 22I0657-01) Collected: 27-Sep-22 By EM of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AI23010	1	30-Sep-22	30-Sep-22	**302 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AI22906	2	29-Sep-22	04-Oct-22	**138 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 10/4/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22I0657

Customer: IPC - Integrated Performance Consultants, Inc.	Project : (MCC) ~~Weekly~~ INF
Address: 9297 Research Drive, Irvine CA 92618	Sampled by: Ric Vardel / Golan Kfir
Report Attention:	P.O. #: 949-382-9067
	Phone #:

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
INF	9-27-22	2359	1	TSS	Comp	AQ	1-Liter Plastic	4°C	
	〃	〃	1	BOD	Comp	AQ	1-Liter Plastic	4°C	

RECEIVED
SEP 28 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	E. Morris	9-28-22	1046
Received by	Armando Olmos IPC	9/28/22	13:50
Relinquished by	Armando Olmos IPC	9/28/22	15:30
Received by			
Relinquished by			
Received in lab by	Alex Walton SEP 28 2022		1530

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 19-Jul-22 14:33
Subject: (MCC) Monthly EFF

Project/P.O.#: (MCC) Monthly EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22G0267-01) Collected: 12-Jul-22 By MA of IPC							
Physical Properties							
Total Dissolved Solids	SM 2540C	AG21822	5	18-Jul-22	19-Jul-22	**1000 mg/l**	
Inorganic Constituents							
Chloride	EPA 300.0	AG21828	20.0	18-Jul-22	18-Jul-22	**306 mg/l**	
Sulfate as SO4	EPA 300.0	AG21828	10.0	18-Jul-22	18-Jul-22	**196 mg/l**	
Boron	EPA 200.7	AG21324	0.10	13-Jul-22	14-Jul-22	**0.25 mg/l**	
Phosphorus, Total as P	EPA 365.3	AG21504	0.05	15-Jul-22	15-Jul-22	**0.50 mg/l**	
Aggregate Organic Constituents							
MBAS	SM 5540 C	AG21328	0.20	13-Jul-22	13-Jul-22	**0.20 mg/l**	
Oil & Grease (HEM)	EPA 1664A	AG21408	5	14-Jul-22	14-Jul-22	**<5 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 7/19/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22G0267

Customer: IPC - Integrated Performance Consultants, Inc.		Project: (MCC) Monthly - EFF	
Address: 9297 Research Drive		Sampled by: Mario Aguirre	P.O. #:
Irvine	CA 92618	Report Attention: Ric Vardel / Golan Kfir	Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7/12/22	9:50	1	SO4,Cl,TDS	Grab	AQ	1/2gal Plastic	4°C	
			1	MBAS	Grab	AQ	500ml Plastic	4°C	
			1	Oil & Grease	Grab	AQ	1-Liter Amber	4°C, HCl	
			1	Boron	Grab	AQ	250ml Plastic	4°C, HNO	
			1	T.Phos	Grab	AQ	500ml Plastic	4°C	

RECEIVED
JUL 12 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Mario Aguirre (IPC)	7/12/22	10:35
Received by		Juan Devis III (CL)	7/12/22	12:41
Relinquished by		Juan Devis III (CL)	7/12/22	17:47
Received by				
Relinquished by				
Received in lab by		JUL 12 2022		1744

Sample Received Checklist

Temperature upon receipt: 4°C
# of bottles agrees with COC? Yes No
Samples intact? Yes No
Samples properly preserved? Yes No
Samples in holding time? Yes No

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu - $CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 16-Aug-22 09:54
Subject: (MCC) Monthly EFF

Project/P.O.#: (MCC) Monthly EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22H0236-01) Collected: 09-Aug-22 By EM of IPC							
Physical Properties							
Total Dissolved Solids	SM 2540C	AH21112	5	11-Aug-22	15-Aug-22	**776 mg/l**	
Inorganic Constituents							
Chloride	EPA 300.0	AH21205	20.0	12-Aug-22	12-Aug-22	**209 mg/l**	
Sulfate as SO4	EPA 300.0	AH21205	10.0	12-Aug-22	12-Aug-22	**198 mg/l**	
Boron	EPA 200.7	AH21105	0.10	11-Aug-22	12-Aug-22	**0.29 mg/l**	
Phosphorus, Total as P	EPA 365.3	AH20924	0.05	10-Aug-22	11-Aug-22	**<0.05 mg/l**	
Aggregate Organic Constituents							
MBAS	SM 5540 C	AH21022	0.20	10-Aug-22	10-Aug-22	**0.20 mg/l**	
Oil & Grease (HEM)	EPA 1664A	AH21021	5	10-Aug-22	10-Aug-22	**<5 mg/l**	

Notes and Definitions

J Detected but below the method reporting limit (RL); therefore, result is an estimated concentration. Result is between the RL and method detection limit (MDL). (CLP J-flag)

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 8/16/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2214236

Customer: IPC - Integrated Performance Consultants, Inc.		Project: (MCC) Monthly - EFF	
Address: 9297 Research Drive		Sampled by: emorris	P.O. #:
Irvine	CA 92618	Report Attention: Ric Vardel / Golan Kfir	Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8-9-22	1137	1	SO4,Cl,TDS	Grab	AQ	1/2gal Plastic	4°C	
	"	"	1	MBAS	Grab	AQ	500ml Plastic	4°C	
	"	"	1	Oil & Grease	Grab	AQ	1-Liter Amber	4°C, HCl	
	"	"	1	Boron	Grab	AQ	250ml Plastic	4°C, HNO	
	"	"	1	T.Phos	Grab	AQ	500ml Plastic	4°C	

RECEIVED
AUG 09 2022
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: emorris	E. MORRIS	8-9-22	12:12
Received by:	Ryan Revis (PCL)	8-9-22	12:27
Relinquished by:	Ryan Revis (PCL)	8-9-22	14:34
Received by:			
Relinquished by:			
Received in lab by:	AUG 09 2022		1434

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes	No
Samples intact?	Yes	No
Samples properly preserved?	Yes	No
Samples in holding time?	Yes	No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO - Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	AI - $AlCl_3$
G - Amber Glass	Cu - $CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 05-Oct-22 14:21
Subject: (MCC) Monthly EFF

Project/P.O.#: (MCC) Monthly EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22I0511-01) Collected: 21-Sep-22 By CA of IPC							
Physical Properties							
Total Dissolved Solids	SM 2540C	AI22211	5	22-Sep-22	26-Sep-22	**812 mg/l**	
Inorganic Constituents							
Chloride	EPA 300.0	AJ20327	100	03-Oct-22	04-Oct-22	**176 mg/l**	
Sulfate as SO4	EPA 300.0	AJ20327	50.0	03-Oct-22	04-Oct-22	**189 mg/l**	
Boron	EPA 200.7	AI22203	0.10	22-Sep-22	26-Sep-22	**0.30 mg/l**	
Phosphorus, Total as P	EPA 365.3	AI22722	0.50	27-Sep-22	27-Sep-22	**1.83 mg/l**	
Aggregate Organic Constituents							
MBAS	SM 5540 C	AI22207	0.20	22-Sep-22	22-Sep-22	**0.19 mg/l**	
Oil & Grease (HEM)	EPA 1664A	AI22723	5	27-Sep-22	27-Sep-22	**<5 mg/l**	

Notes and Definitions

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 10/5/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 2210511

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) Monthly - EFF	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: Carlos Alvarez Report Attention: Ric Vardel / Golan Kfir	P.O. #:	Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	09/21/22	1135	1	SO4,Cl,TDS	Grab	AQ	1/2gal Plastic	4°C	7.8/20.1°C
			1	MBAS	Grab	AQ	500ml Plastic	4°C	
			1	Oil & Grease	Grab	AQ	1-Liter Amber	4°C, HCl	
			1	Boron	Grab	AQ	250ml Plastic	4°C, HNO	
			1	T.Phos	Grab	AQ	500ml Plastic	4°C	

RECEIVED
SEP 21 2022

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	09/21/22	1135
Received by		Courier	9.21.22	1135
Relinquished by		Cindy Mattner	9.21.22	2:27
Received by				
Relinquished by				
Received in lab by		Alex Watkins Jr. (PCL)	SEP 21 2022	14:27

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
AI - $AlCl_3$
Cu -$CuSO_4$

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 11-Oct-22 11:14
Subject: (MCC) Quarterly EFF

Project/P.O.#: (MCC) Quarterly EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22G0592-01) Collected: 26-Jul-22 By MA of IPC							
Physical Properties							
Total Alkalinity	SM 2320B	AH20222	1	02-Aug-22	02-Aug-22	**182 mg/l**	
Carbonate Alkalinity	SM 2320B	AH20222	1	02-Aug-22	02-Aug-22	**<1 mg/l**	
Bicarbonate Alkalinity	SM 2320B	AH20222	1	02-Aug-22	02-Aug-22	**182 mg/l**	
Hydroxide Alkalinity	SM 2320B	AH20222	1	02-Aug-22	02-Aug-22	**<1 mg/l**	
Color	SM 2120 C	AG22742	5.0	27-Jul-22	27-Jul-22	**18.9 CU**	
Specific Conductance (EC)	SM 2510B	AH20922	0.1	09-Aug-22	10-Aug-22	**1360 uS/cm**	
Odor	SM 2150B	AG22743	1	27-Jul-22	27-Jul-22	**<1 T.O.N.**	
Inorganic Constituents							
Silver	EPA 200.8	AH20128	0.2	01-Aug-22	02-Aug-22	**<0.2 ug/l**	
Aluminum	EPA 200.8	AH20128	5.0	01-Aug-22	02-Aug-22	**48 ug/l**	
Fluoride	EPA 300.0	AH20132	0.10	01-Aug-22	01-Aug-22	**1.35 mg/l**	
Arsenic	EPA 200.8	AH20128	0.2	01-Aug-22	02-Aug-22	**1.5 ug/l**	
Barium	EPA 200.8	AH20128	0.5	01-Aug-22	02-Aug-22	**39 ug/l**	
Beryllium	EPA 200.8	AH20128	0.2	01-Aug-22	02-Aug-22	**<0.2 ug/l**	
Calcium	EPA 200.7	AG22726	0.10	27-Jul-22	28-Jul-22	**51.5 mg/l**	
Cadmium	EPA 200.8	AH20128	0.2	01-Aug-22	02-Aug-22	**<0.2 ug/l**	
Chromium - Total	EPA 200.8	AH20128	0.2	01-Aug-22	02-Aug-22	**3.4 ug/l**	
Copper	EPA 200.8	AH20128	0.2	01-Aug-22	02-Aug-22	**0.9 ug/l**	
Cyanide (total)	SM 4500-CN-E	AG22907	0.0040	29-Jul-22	29-Jul-22	**0.0030 mg/l**	
Iron	EPA 200.7	AG22726	0.02	27-Jul-22	28-Jul-22	**0.04 mg/l**	
Mercury	EPA 245.1	AG22908	0.20	29-Jul-22	29-Jul-22	**0.49 ug/l**	
Magnesium	EPA 200.7	AG22726	0.10	27-Jul-22	28-Jul-22	**21.2 mg/l**	
Manganese	EPA 200.8	AH20128	0.5	01-Aug-22	02-Aug-22	**31 ug/l**	
Nickel	EPA 200.8	AH20128	0.5	01-Aug-22	02-Aug-22	**5.1 ug/l**	
Lead	EPA 200.8	AH20128	0.2	01-Aug-22	02-Aug-22	**<0.2 ug/l**	
pH	SM 4500H-B	AH20223	0.1	26-Jul-22	26-Jul-22	**7.5 pH Units**	A-01

Respectfully Submitted,

Stephen Sakai 10/11/2022
Lab Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 11-Oct-22 11:14
Subject: (MCC) Quarterly EFF

Project/P.O.#: (MCC) Quarterly EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22G0592-01) Collected: 26-Jul-22 By MA of IPC							
Inorganic Constituents							
Antimony	EPA 200.8	AH20128	1.0	01-Aug-22	02-Aug-22	**1.4 ug/l**	
Selenium	EPA 200.8	AH20128	2.0	01-Aug-22	02-Aug-22	**2.0 ug/l**	
Thallium	EPA 200.8	AH20128	1.0	01-Aug-22	02-Aug-22	**<1.0 ug/l**	
Uranium	EPA 200.8	AH20128	0.7	01-Aug-22	02-Aug-22	**1.4 pCi/L**	
Zinc	EPA 200.8	AH20128	1.0	01-Aug-22	02-Aug-22	**18 ug/l**	
Aggregate Organic Constituents							
MBAS	SM 5540 C	AG22730	0.20	27-Jul-22	27-Jul-22	**0.63 mg/l**	
Volatile Organic Chemicals (VOCs)							
Benzene	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
Carbon tetrachloride	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
1,2-Dichlorobenzene	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
1,4-Dichlorobenzene	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
1,1-Dichloroethane	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
1,2-Dichloroethane	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
1,1-Dichloroethylene	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
cis-1,2-Dichloroethylene	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
trans-1,2-Dichloroethylene	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
Methylene chloride (Dichloromethane)	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
1,2-Dichloropropane	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
cis-1,3-Dichloropropene	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
trans-1,3-Dichloropropene	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
Ethylbenzene	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
Methyl tert-butyl ether	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
Chlorobenzene	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
Styrene	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
1,1,2,2-Tetrachloroethane	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	

Respectfully Submitted,

Stephen Sakai 10/11/2022
Lab Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 11-Oct-22 11:14
Subject: (MCC) Quarterly EFF

Project/P.O.#: (MCC) Quarterly EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22G0592-01) Collected: 26-Jul-22 By MA of IPC							
Volatile Organic Chemicals (VOCs)							
Tetrachloroethylene	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
Toluene	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
1,2,4-Trichlorobenzene	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
1,1,1-Trichloroethane	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
1,1,2-Trichloroethane	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
Trichloroethylene	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
Trichlorofluoromethane (Freon 11)	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
Vinyl chloride	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
m,p-Xylene	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
o-Xylene	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
Bromodichloromethane	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**4.8 ug/l**	
Bromoform	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**<0.5 ug/l**	
Chloroform	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**7.8 ug/l**	
Dibromochloromethane	EPA 524.2	AG22733	0.5	27-Jul-22	27-Jul-22	**1.8 ug/l**	
Surrogate: Bromofluorobenzene	EPA 524.2	AG22733		27-Jul-22	27-Jul-22	*94.0 % (80-120)*	
Surrogate: Dibromofluoromethane	EPA 524.2	AG22733		27-Jul-22	27-Jul-22	*110 % (80-120)*	
Surrogate: Toluene-d8	EPA 524.2	AG22733		27-Jul-22	27-Jul-22	*99.7 % (80-120)*	
Disinfection Byproducts							
Monochloroacetic Acid	EPA 552.2	AH20140	1.00	01-Aug-22	14-Aug-22	**2.86 ug/l**	
Dichloroacetic Acid	EPA 552.2	AH20140	1.00	01-Aug-22	14-Aug-22	**9.54 ug/l**	
Trichloroacetic Acid	EPA 552.2	AH20140	1.00	01-Aug-22	14-Aug-22	**4.04 ug/l**	
Monobromoacetic Acid	EPA 552.2	AH20140	1.00	01-Aug-22	14-Aug-22	**1.93 ug/l**	
Dibromoacetic Acid	EPA 552.2	AH20140	1.00	01-Aug-22	14-Aug-22	**1.21 ug/l**	
Surrogate: 2,3-Dibromopropionic Acid	EPA 552.2	AH20140		01-Aug-22	14-Aug-22	*120 % (60-140)*	
Bromate	EPA 300.1	AH20330	25.0	03-Aug-22	04-Aug-22	**27.3 ug/l**	
Chlorite	EPA 300.1	AH20330	100	03-Aug-22	04-Aug-22	**37.5 ug/l**	

Respectfully Submitted,

Stephen Sakai 10/11/2022
Lab Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 11-Oct-22 11:14
Subject: (MCC) Quarterly EFF

Project/P.O.#: (MCC) Quarterly EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22G0592-01) Collected: 26-Jul-22 By MA of IPC							
Disinfection Byproducts							
Haloacetic Acids (HAA5)	[CALC]	[CALC]	1.00	27-Jul-22	14-Aug-22	**19.6 ug/l**	
Total Trihalomethanes	[CALC]	[CALC]	2.00	27-Jul-22	27-Jul-22	**14.4 ug/l**	
Synthetic Organic Chemicals (SOCs)							
1,2-Dibromo-3-Chloropropane (DBCP)	EPA 504.1	AH20139	0.030	05-Aug-22	05-Aug-22	**<0.030 ug/l**	
Ethylene Dibromide (EDB)	EPA 504.1	AH20139	0.030	05-Aug-22	05-Aug-22	**<0.030 ug/l**	
Di(2-ethylhexyl)adipate	EPA 506	AH20513	2.0	05-Aug-22	06-Aug-22	**<2.0 ug/l**	
Di(2-ethylhexyl)phthalate	EPA 506	AH20513	2.0	05-Aug-22	06-Aug-22	**<2.0 ug/l**	
Surrogate: o-Terphenyl	EPA 506	AH20513		05-Aug-22	06-Aug-22	*101 % (50-120)*	
Alachlor	EPA 507	AH20138	0.2	01-Aug-22	04-Aug-22	**<0.2 ug/l**	
Atrazine	EPA 507	AH20138	0.2	01-Aug-22	04-Aug-22	**<0.2 ug/l**	
Molinate	EPA 507	AH20138	0.2	01-Aug-22	04-Aug-22	**<0.2 ug/l**	
Simazine	EPA 507	AH20138	0.2	01-Aug-22	04-Aug-22	**<0.2 ug/l**	
Thiobencarb (Bolero)	EPA 507	AH20138	0.2	01-Aug-22	04-Aug-22	**<0.2 ug/l**	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 507	AH20138		01-Aug-22	04-Aug-22	*60.8 % (40-120)*	
Chlordane	EPA 508	AG20812	0.1	28-Jul-22	09-Aug-22	**<0.1 ug/l**	
Endrin	EPA 508	AG20812	0.01	28-Jul-22	09-Aug-22	**0.02 ug/l**	
Heptachlor	EPA 508	AG20812	0.01	28-Jul-22	09-Aug-22	**<0.01 ug/l**	
Heptachlor Epoxide	EPA 508	AG20812	0.01	28-Jul-22	09-Aug-22	**<0.01 ug/l**	
Hexachlorobenzene	EPA 508	AG20812	0.01	28-Jul-22	09-Aug-22	**<0.01 ug/l**	
Hexachlorocyclopentadiene	EPA 508	AG20812	0.01	28-Jul-22	09-Aug-22	**0.04 ug/l**	
gamma-BHC (Lindane)	EPA 508	AG20812	0.01	28-Jul-22	09-Aug-22	**<0.01 ug/l**	
Methoxychlor	EPA 508	AG20812	0.05	28-Jul-22	09-Aug-22	**0.08 ug/l**	
Aroclor 1016 (PCB)	EPA 508	AG20812	0.1	28-Jul-22	09-Aug-22	**<0.1 ug/l**	
Aroclor 1221 (PCB)	EPA 508	AG20812	0.1	28-Jul-22	09-Aug-22	**<0.1 ug/l**	
Aroclor 1232 (PCB)	EPA 508	AG20812	0.1	28-Jul-22	09-Aug-22	**<0.1 ug/l**	
Aroclor 1242 (PCB)	EPA 508	AG20812	0.1	28-Jul-22	09-Aug-22	**<0.1 ug/l**	

Respectfully Submitted,

Stephen Sakai 10/11/2022
Lab Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 11-Oct-22 11:14
Subject: (MCC) Quarterly EFF

Project/P.O.#: (MCC) Quarterly EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 22G0592-01) Collected: 26-Jul-22 By MA of IPC							
Synthetic Organic Chemicals (SOCs)							
Aroclor 1248 (PCB)	EPA 508	AG20812	0.1	28-Jul-22	09-Aug-22	**<0.1 ug/l**	
Aroclor 1254 (PCB)	EPA 508	AG20812	0.1	28-Jul-22	09-Aug-22	**<0.1 ug/l**	
Aroclor 1260 (PCB)	EPA 508	AG20812	0.1	28-Jul-22	09-Aug-22	**<0.1 ug/l**	
Total PCBs	EPA 508	AG20812	0.1	28-Jul-22	09-Aug-22	**<0.1 ug/l**	
Toxaphene	EPA 508	AG20812	0.1	28-Jul-22	09-Aug-22	**<0.1 ug/l**	
Surrogate: Tetrachloro-m-xylene	EPA 508	AG20812		28-Jul-22	09-Aug-22	*66.0 % (50-120)*	
Surrogate: Decachlorobiphenyl	EPA 508	AG20812		28-Jul-22	09-Aug-22	*60.0 % (50-120)*	
Bentazon	EPA 515.1	AH20137	1.0	08-Aug-22	21-Aug-22	**1.1 ug/l**	
2,4-D	EPA 515.1	AH20137	1.0	08-Aug-22	21-Aug-22	**<1.0 ug/l**	
Dalapon	EPA 515.1	AH20137	5.0	08-Aug-22	21-Aug-22	**<5.0 ug/l**	
Dinoseb	EPA 515.1	AH20137	1.0	08-Aug-22	21-Aug-22	**1.9 ug/l**	
Pentachlorophenol (PCP)	EPA 515.1	AH20137	0.1	08-Aug-22	21-Aug-22	**<0.1 ug/l**	
Picloram	EPA 515.1	AH20137	1.0	08-Aug-22	21-Aug-22	**<1.0 ug/l**	
2,4,5-TP	EPA 515.1	AH20137	0.2	08-Aug-22	21-Aug-22	**<0.2 ug/l**	
Surrogate: 2,4-DCAA	EPA 515.1	AH20137		08-Aug-22	21-Aug-22	*77.8 % (60-140)*	
Benzo (a) pyrene	EPA 550	AG22806	0.05	28-Jul-22	04-Aug-22	**<0.05 ug/l**	
Surrogate: Decafluorobiphenyl	EPA 550	AG22806		28-Jul-22	04-Aug-22	*105 % (45-120)*	

Respectfully Submitted,

Stephen Sakai 10/11/2022
Lab Director

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 11-Oct-22 11:14
Subject: (MCC) Quarterly EFF

Project/P.O.#: (MCC) Quarterly EFF

Notes and Definitions

A-01 Langelier Index = -3.5 (Serious Corrosion)

RL Reporting Limit - The lowest amount of a constituent that can be reliably quantified and reported.

Respectfully Submitted,

Stephen Sakai 10/11/2022
Lab Director

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22G0592

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Quarterly	Page 1 of 2
Address: 9297 Research Drive		Sampled by: Mario Aguirre	P.O. #:
Irvine CA 92618		Report Attention: Ric Vardel / Golan Kfir	Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	7/26/22	10:00	1	Ag, Al, As, Ba, Be, Ca, Cd, Cr, Cu, Fe, Mn, Hg, Ni, Sb, Se, Tl, U, Zn	Grab	AQ	1L P	HN	
			1	Fluoride, Bromate, Chlorite, Color, Odor, pH, Conductivity, Alkalinity, Temperature	Grab	AQ	1/2 Gal. P	4°C	
			1	Cyanide	Grab	AQ	250 P	OH, AA	
			1	MBAS	Grab	AQ	500 P	4°C	
			6	524, 504	Grab	AQ	3-VOA Vials	4°C	
			7	507, 515, 632, 508, 550, 506, 552	Grab	AQ	1L G	4°C	
			2	547 Glyphosate **(Sub-Out)**	Grab	AQ	Vials Amber	4°C	
			1	548 Endothall **(Sub-Out)**	Grab	AQ	1L G	4°C	
			1	549 Diquat **(Sub-Out)**	Grab	AQ	1L P Amber	4°C	
			1	Dioxin - 2,3,7,8 TCDD **(Sub-Out)**	Grab	AQ	1L G	4°C	

RECEIVED
JUL 26 2022

	Signature	Print Name (Company)	Date	Time
Relinquished by		Mario Aguirre (IPC)	7/26/22	10:30
Received by		Juan Davis (PCL)	7/26/22	14:11
Relinquished by		Juan Davis (PCL)	7/26/22	17:20
Received by				
Relinquished by				
Received in lab by			JUL 26 2022	17:20

Sample Received Checklist

Temperature upon receipt: 4° C

# of bottles agrees with COC?	Yes No
Samples intact?	Yes No
Samples properly preserved?	Yes No
Samples in holding time?	Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO - Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu - $CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
Fax (818) 639-5306

Environmental Sample

Sample I.D.#: 22G0592

Customer: IPC - Integrated Performance Consultants, Inc.
9297 Research Drive
Address: Irvine CA 92618

Project : (MCC) EFF - Quarterly

Sampled by: Mario Aguirre
Report Attention: Ric Vardell / Golan Kfir

P.O. #:
Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab EC =
EFF	7/26/22	10:00	4	Radium-226 & 228 (Sub-Out) Gross Alpha, Gross Beta	Grab	AQ	1L P	4°C	
			1	Strontium-90 (Sub-Out)	Grab	AQ	1L P	4°C	
			2	Tritium (Sub-Out)	Grab	AQ	VOA Vials	4°C	
			1	Perchlorate (Sub-Out, leave headspace)	Grab	AQ	500 P	4°C	
			1	Asbestos (Sub-Out)	Grab	AQ	1L G	4°C	

RECEIVED
JUL 26 2022
BY

	Signature	Print Name (Company)	Date	Time
Relinquished by		Mario Aguirre (IPC)	7/26/22	10:30
Received by		Juan Devis (PLW)	7/26/22	14:11
Relinquished by		Juan Devis (PLW)	7/26/22	17:28
Received by				
Relinquished by				
Received in lab by		JUL 26 2022		

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Sample Received Checklist

Temperature upon receipt: _____
# of bottles agrees with COC? Yes No
Samples intact? Yes No
Samples properly preserved? Yes No
Samples in holding time? Yes No

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
Grab
Comp

Matrix
AQ - Water
SO -Soil / Sludge
OT - Other

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Coli - bacteria

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
Al - $AlCl_3$
Cu - $CuSO_4$

LA Testing
520 Mission Street South Pasadena, CA 91030
Phone/Fax: (323) 254-9960 / (323) 254-9982
http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order ID: 322214758
Customer ID: PTCM42
Customer PO:
Project ID:

Attn: Steve Berentsen
Pat Chem Laboratories
1824 1st St
San Fernando, CA 91340

Phone: (805) 532-0012
Fax:
Received: 07/27/2022
Analyzed: 08/06/2022

Proj: 22G0592

Test Report: Determination of Asbestos Structures ≥ 0.5 µm & > 10µm in 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)		
22G0592-01 322214758-0001	7/27/2022 11:20 AM	30	1288	0.2210	≥ 0.5 µm	None Detected	ND	0.19	<0.19	0.00 - 0.72
					> 10 µm only	None Detected	ND	0.19	<0.19	0.00 - 0.72

Collection Date/Time: *07/26/2022 10:00 AM*

Analyst(s)
Sherrie Ahmad (1)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

Any questions please contact Jerry Drapala.

Initial report from: 08/07/2022 07:03:13

LA Testing maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by LA Testing. LA Testing bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty is available on request. Sample collection and containers provided by the client, acceptable bottle blank level is defined as ≤0.01MFL>10um. ND=None Detected. No Fibers Detected: the value will be reported as less than 369% of the concentration equivalent to one fiber. 1 to 4 fibers: The result will be reported as less than the corresponding upper 95% confidence limit (Poisson),5 to 30 fibers: Mean and 95% confidence intervals will be reported on the basis of the Poisson assumption. When more than 30 fibers are counted, both the Gaussian 95% confidence interval and the Poisson 95% confidence interval will be calculated. The large of these two intervals will be selected for data reporting. When the Gaussian 95% confidence interval is selected for data reporting, the Poisson will also be noted.

Samples analyzed by LA Testing South Pasadena, CA CA ELAP 2283

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders: 2H01057

Project: 22G0626

Attn: Stephen Berentsen

Client: Pat-Chem Laboratories, Inc.
1824 1st Street
San Fernando, CA 91340

Report Date: 9/13/2022

Received Date: 8/1/2022

Turnaround Time: Normal

Phones: (818) 639-5300

Fax: (818) 639-5306

P.O. #:

Billing Code:

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH #4047 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

Dear Stephen Berentsen,

Enclosed are the results of analyses for samples received 8/01/22 with the Chain-of-Custody document. The samples were received in good condition, at 19.0 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:

Rahul R. Nair
Project Manager

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Pat-Chem Laboratories, Inc.
1824 1st Street
San Fernando, CA 91340

Project Number: 22G0626

Project Manager: Stephen Berentsen

Reported:
09/13/2022 13:43

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
22G0626-01	Client	2H01057-01	Water	07/28/22 08:35	

Analyses Accreditation Summary

Analyte	CAS #	Not By NELAP	ANAB ISO 17025
EPA 8321A in Water			
3-Hydroxycarbofuran	16655-82-6	✓	
Aldicarb	116-06-3	✓	
Aldicarb sulfone	1646-88-4	✓	
Aldicarb sulfoxide	1646-87-3	✓	
Propoxur (Baygon)	114-26-1	✓	
Carbaryl	63-25-2	✓	
Carbofuran	1563-66-2	✓	
Methiocarb	2032-65-7	✓	
Methomyl	16752-77-5	✓	
Oxamyl	23135-22-0	✓	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Pat-Chem Laboratories, Inc.
1824 1st Street
San Fernando, CA 91340

Project Number: 22G0626

Project Manager: Stephen Berentsen

Reported: 09/13/2022 13:43

Sample Results

Sample: 22G0626-01 — Sampled: 07/28/22 8:35 by Client

2H01057-01 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Diquat and Paraquat by EPA 549.2						
Method: EPA 549.2		**Instr:** LC10				
Batch ID: W2H0401 **Preparation:** EPA 549.2/SPE		**Prepared:** 08/04/22 07:22				**Analyst:** pjs
Diquat	ND	4.0	ug/l	1	08/17/22	
Endothall By EPA 548.1						
Method: EPA 548.1		**Instr:** GCMS06				
Batch ID: W2H0096 **Preparation:** EPA 548.1/SPE		**Prepared:** 08/02/22 08:06				**Analyst:** rmr
Endothall	ND	45	ug/l	1	08/04/22	
Pesticides/Herbicides and Other Organic compounds by LC/MS/MS						
Method: EPA 8321A		**Instr:** LCMS03				
Batch ID: W2H0771 **Preparation:** _NONE (LC)		**Prepared:** 08/09/22 13:37				**Analyst:** pjs
3-Hydroxycarbofuran	ND	0.50	ug/l	1	08/09/22	
Aldicarb	ND	0.50	ug/l	1	08/09/22	
Aldicarb sulfone	ND	0.50	ug/l	1	08/09/22	
Aldicarb sulfoxide	ND	0.50	ug/l	1	08/09/22	
Carbaryl	ND	0.50	ug/l	1	08/09/22	
Carbofuran	ND	0.50	ug/l	1	08/09/22	
Diuron	ND	1.0	ug/l	1	08/09/22	
Methiocarb	ND	0.50	ug/l	1	08/09/22	
Methomyl	ND	0.50	ug/l	1	08/09/22	
Oxamyl	ND	0.50	ug/l	1	08/09/22	
Propoxur (Baygon)	ND	0.50	ug/l	1	08/09/22	

Sample Results

Sample: 22G0626-01 — Sampled: 07/28/22 8:35 by Client

2H01057-01RE1 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Glyphosate by EPA 547						
Method: EPA 547		**Instr:** LC11				
Batch ID: W2H0325 **Preparation:** _NONE (LC)		**Prepared:** 08/03/22 12:25				**Analyst:** PJS
Glyphosate	ND	25	ug/l	5	08/04/22	M-05

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Pat-Chem Laboratories, Inc.
1824 1st Street
San Fernando, CA 91340

Project Number: 22G0626

Project Manager: Stephen Berentsen

Reported:
09/13/2022 13:43

Quality Control Results

Diquat and Paraquat by EPA 549.2

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0401 - EPA 549.2										
Blank (W2H0401-BLK1)				**Prepared: 08/04/22**	**Analyzed: 08/17/22**					
Diquat	ND	4.0	ug/l							
LCS (W2H0401-BS1)				**Prepared: 08/04/22**	**Analyzed: 08/17/22**					
Diquat	14.7	4.0	ug/l	20.0		73	70-130			
Matrix Spike (W2H0401-MS1)	**Source: 2H02052-01**			**Prepared: 08/04/22**	**Analyzed: 08/17/22**					
Diquat	13.8	4.0	ug/l	20.0	ND	69	46-122			
Matrix Spike Dup (W2H0401-MSD1)	**Source: 2H02052-01**			**Prepared: 08/04/22**	**Analyzed: 08/17/22**					
Diquat	15.2	4.0	ug/l	20.0	ND	76	46-122	10	30	

Quality Control Results

Endothall By EPA 548.1

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0096 - EPA 548.1										
Blank (W2H0096-BLK1)				**Prepared: 08/02/22**	**Analyzed: 08/04/22**					
Endothall	ND	45	ug/l							
LCS (W2H0096-BS1)				**Prepared: 08/02/22**	**Analyzed: 08/04/22**					
Endothall	88.1	45	ug/l	100		88	31-117			
Matrix Spike (W2H0096-MS1)	**Source: 2G29055-01**			**Prepared: 08/02/22**	**Analyzed: 08/04/22**					
Endothall	3.28	45	ug/l	100	ND	3	0.1-109			
Matrix Spike Dup (W2H0096-MSD1)	**Source: 2G29055-01**			**Prepared: 08/02/22**	**Analyzed: 08/04/22**					
Endothall	2.81	45	ug/l	100	ND	3	0.1-109	200	30	R-03

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Pat-Chem Laboratories, Inc.
1824 1st Street
San Fernando, CA 91340

Project Number: 22G0626

Project Manager: Stephen Berentsen

Reported:
09/13/2022 13:43

Quality Control Results

(Continued)

Glyphosate by EPA 547

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0325 - EPA 547										
Blank (W2H0325-BLK1)				**Prepared & Analyzed: 08/03/22**						
Glyphosate	ND	5.0	ug/l							
Blank (W2H0325-BLK2)				**Prepared: 08/03/22 Analyzed: 08/04/22**						
Glyphosate	ND	5.0	ug/l							QC-2
LCS (W2H0325-BS1)				**Prepared & Analyzed: 08/03/22**						
Glyphosate	27.7	5.0	ug/l	25.0		111	70-130			
LCS (W2H0325-BS2)				**Prepared: 08/03/22 Analyzed: 08/04/22**						
Glyphosate	28.5	5.0	ug/l	25.0		114	70-130			QC-2
Matrix Spike (W2H0325-MS1)	**Source: 2G27047-01**			**Prepared & Analyzed: 08/03/22**						
Glyphosate	33.1	5.0	ug/l	25.0	3.82	117	41-149			
Matrix Spike (W2H0325-MS2)	**Source: 2G28125-01**			**Prepared & Analyzed: 08/03/22**						
Glyphosate	26.3	5.0	ug/l	25.0	ND	105	41-149			
Matrix Spike Dup (W2H0325-MSD1)	**Source: 2G27047-01**			**Prepared & Analyzed: 08/03/22**						
Glyphosate	34.5	5.0	ug/l	25.0	3.82	123	41-149	4	30	
Matrix Spike Dup (W2H0325-MSD2)	**Source: 2G28125-01**			**Prepared & Analyzed: 08/03/22**						
Glyphosate	29.5	5.0	ug/l	25.0	ND	118	41-149	12	30	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Pat-Chem Laboratories, Inc.
1824 1st Street
San Fernando, CA 91340

Project Number: 22G0626

Project Manager: Stephen Berentsen

Reported:
09/13/2022 13:43

Quality Control Results

(Continued)

Pesticides/Herbicides and Other Organic compounds by LC/MS/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0771 - EPA 8321A										
Blank (W2H0771-BLK1)				**Prepared & Analyzed: 08/09/22**						
3-Hydroxycarbofuran	ND	0.50	ug/l							
Aldicarb	ND	0.50	ug/l							
Aldicarb sulfone	ND	0.50	ug/l							
Aldicarb sulfoxide	ND	0.50	ug/l							
Carbaryl	ND	0.50	ug/l							
Carbofuran	ND	0.50	ug/l							
Diuron	ND	0.50	ug/l							
Methiocarb	ND	0.50	ug/l							
Methomyl	ND	0.50	ug/l							
Oxamyl	ND	0.50	ug/l							
Propoxur (Baygon)	ND	0.50	ug/l							
LCS (W2H0771-BS1)				**Prepared & Analyzed: 08/09/22**						
3-Hydroxycarbofuran	4.38	0.50	ug/l	5.00		88	80-120			
Aldicarb	4.75	0.50	ug/l	5.00		95	80-120			
Aldicarb sulfone	4.85	0.50	ug/l	5.00		97	80-120			
Aldicarb sulfoxide	4.75	0.50	ug/l	5.00		95	80-120			
Carbaryl	4.93	0.50	ug/l	5.00		99	80-120			
Carbofuran	4.39	0.50	ug/l	5.00		88	80-120			
Diuron	4.65	0.50	ug/l	5.00		93	68-125			
Methiocarb	4.33	0.50	ug/l	5.00		87	80-120			
Methomyl	4.61	0.50	ug/l	5.00		92	80-120			
Oxamyl	4.82	0.50	ug/l	5.00		96	80-120			
Propoxur (Baygon)	4.34	0.50	ug/l	5.00		87	80-120			
Matrix Spike (W2H0771-MS1)	**Source: 2G29055-01**			**Prepared & Analyzed: 08/09/22**						
3-Hydroxycarbofuran	4.61	0.50	ug/l	5.00	ND	92	65-135			
Aldicarb	4.45	0.50	ug/l	5.00	ND	89	65-135			
Aldicarb sulfone	5.25	0.50	ug/l	5.00	ND	105	65-135			
Aldicarb sulfoxide	4.76	0.50	ug/l	5.00	ND	95	65-135			
Carbaryl	4.72	0.50	ug/l	5.00	ND	94	65-135			
Carbofuran	4.25	0.50	ug/l	5.00	ND	85	65-135			
Diuron	4.57	0.50	ug/l	5.00	ND	91	58-160			
Methiocarb	5.04	0.50	ug/l	5.00	ND	101	65-135			
Methomyl	3.95	0.50	ug/l	5.00	ND	79	65-135			
Oxamyl	4.04	0.50	ug/l	5.00	ND	81	65-135			
Propoxur (Baygon)	4.89	0.50	ug/l	5.00	ND	98	65-135			
Matrix Spike Dup (W2H0771-MSD1)	**Source: 2G29055-01**			**Prepared & Analyzed: 08/09/22**						
3-Hydroxycarbofuran	5.58	0.50	ug/l	5.00	ND	112	65-135	19	30	
Aldicarb	4.81	0.50	ug/l	5.00	ND	96	65-135	8	30	
Aldicarb sulfone	5.99	0.50	ug/l	5.00	ND	120	65-135	13	30	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Pat-Chem Laboratories, Inc.
1824 1st Street
San Fernando, CA 91340

Project Number: 22G0626

Project Manager: Stephen Berentsen

Reported:
09/13/2022 13:43

Quality Control Results

(Continued)

Pesticides/Herbicides and Other Organic compounds by LC/MS/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0771 - EPA 8321A (Continued)										
Matrix Spike Dup (W2H0771-MSD1)	**Source: 2G29055-01**			**Prepared & Analyzed: 08/09/22**						
Aldicarb sulfoxide	5.34	0.50	ug/l	5.00	ND	107	65-135	11	30	
Carbaryl	5.82	0.50	ug/l	5.00	ND	116	65-135	21	30	
Carbofuran	5.04	0.50	ug/l	5.00	ND	101	65-135	17	30	
Diuron	5.53	0.50	ug/l	5.00	ND	111	58-160	19	30	
Methiocarb	4.94	0.50	ug/l	5.00	ND	99	65-135	2	30	
Methomyl	4.44	0.50	ug/l	5.00	ND	89	65-135	12	30	
Oxamyl	4.87	0.50	ug/l	5.00	ND	97	65-135	19	30	
Propoxur (Baygon)	5.33	0.50	ug/l	5.00	ND	107	65-135	9	30	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Pat-Chem Laboratories, Inc.
1824 1st Street
San Fernando, CA 91340

Project Number: 22G0626

Project Manager: Stephen Berentsen

Reported:
09/13/2022 13:43

Notes and Definitions

Item	Definition
M-05	Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
QC-2	This QC sample was reanalyzed to complement samples that require re-analysis on different date. See analysis date.
R-03	The RPD is not applicable for result below the reporting limit (either ND or J value).
%REC	Percent Recovery
Dil	Dilution
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

CERES Analytical Laboratory, Inc.
4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762

August 12, 2022 Ceres ID: 15473

Pat-Chem Laboratories
1824 1st Street
San Fernando, CA 91340

The following report contains the results for the one waste water sample received on August 1, 2022. This sample was analyzed for 2,3,7,8-TCDD by EPA 1613. Routine turn-around time was provided for this work.

This work was authorized under Pat-Chem Laboratories' Project # 22G0592.

Continuing Calibration Verification (CCV) Requirements
All associated calibration verification standard(s) (CCV) met the acceptance criteria.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,

James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

Ceres Sample ID:	Sample ID	Date Received	Collection Date	&Time
15473-001	22G0592-01	8/1/2022	7/26/2022	10:00

Section II: Data Summary

CERES Analytical Laboratory, Inc.
4919 Windplay Dr.Suite 1, El Dorado Hills, CA 95762

EPA Method 1613B

Quality Assurance Sample **Method Blank**		**Date Received:** NA
	QC Batch #: 2678	**Date Extracted:** 8/10/2022
	Matrix: Aqueous	**Date Analyzed:** 8/11/2022
Project ID: 22G0592	**Sample Size:** 1.000 L	

Analyte	Conc. (pg/L)	MDL	RL	Qual.	Labeled Standards	% R	LCL-UCL (a)	Qualifiers
2,3,7,8-TCDD	DL= 2.05	3.12	5.00		13C-2378-TCDD	92.1	31-137	
					CRS			
					37Cl4-2378-TCDD	98.2	35-197	

DL - Signifies Non-Detect (ND<) sample specific detection limit.
EMPC - Estimated Maximum Possible Concentration due to ion abundance ratio failure.
(a) - Lower control limit - Upper control limit

Analyst: JMH **Reviewed by: BS**

CERES Analytical Laboratory, Inc.
4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762

EPA Method 1613B

Quality Assurance Sample **Ongoing Precision and Recovery**		**Date Received:** NA
	QC Batch #: 2678	**Date Extracted:** 8/10/2022
	Matrix: Aqueous	**Date Analyzed:** 8/11/2022
Project ID: 22G0592	**Sample Size:** 1.000 L	

Analyte	Conc. (ng/mL)	Limits (a)	Labeled Standards	% Rec.	Limits (a)
2,3,7,8-TCDD	8.23	7.3-14.6	13C-2378-TCDD	97.2	25-141
			CRS		
			37Cl4-2378-TCDD	103	37-158

(a) Limits based on method acceptance criteria.

Analyst: JMH **Reviewed by: BS**

CERES Analytical Laboratory, Inc.
4919 Windplay Dr.Suite 1, El Dorado Hills, CA 95762

EPA Method 1613B

Client Sample ID: 22G0592-01		
Project ID: 22G0592	**Ceres Sample ID:** 15473-001	**Date Received:** 8/1/2022
	QC Batch #: 2676	**Date Extracted:** 8/10/2022
Date Collected: 7/26/2022	**Matrix:** Aqueous	**Date Analyzed:** 8/11/2022
Time Collected: 10:00	**Sample Size:** 0.960 L	

Analyte	Conc. (pg/L)	MDL	RL	Qual.	Labeled Standards	% R	LCL-UCL (a)	Qualifiers
2,3,7,8-TCDD	DL= 1.06	0.772	5.21		13C-2378-TCDD	74.0	31-137	
					CRS			
					37Cl4-2378-TCDD	89.6	42-164	

DL - Signifies Non-Detect (ND<) sample specific detection limit.
EMPC - Estimated Maximum Possible Concentration due to ion abundance ratio failure.
(a) - Lower control limit - Upper control limit

Analyst: JMH **Reviewed by: BS**

Section VI: Sample Tracking

SUBCONTRACT ORDER

Pat-Chem Laboratories

22G0592

SENDING LABORATORY:

Pat-Chem Laboratories
1824 First Street
San Fernando, CA 91340
Phone: 818-639-5300
Fax: 818-639-5306
Project Manager: Stephen Berentsen

RECEIVING LABORATORY:

Ceres Analytical Laboratoy, Inc
4919 Windplay Dr. Suite 1
El Dorado Hills, CA 95762
Phone :(916) 932-5011
Fax: (888) 932-5011

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 22G0592-01	**Water**	**Sampled:26-Jul-22 10:00**		**Wastewater/IPC [MCC] EFF-Quarterly**
Dioxin 2,3,7,8-TCDD 1613 (Su	10-Aug-22 12:00	02-Aug-22 10:00		
Containers Supplied:				

Released By	Date	Received By	Date
[signature]	JUL 27 2022 11:30AM	[signature]	8/1/22 09:55
Released By	Date	Received By	Date

Sample Receipt Check List Logged by: _____(initials)

Ceres ID: 15473		Date/Time: 8/1/22 09:56
Client Project ID: 220592		Received Temp: 23.8 °C Acceptable: Y / N
Chain of Custody Relinquished by signed?		Y / N
Chain of Custody Received by signed?		Y / N
Custody Seals?	Present? Intact? NA:	Y / N Y / N NA
Unlabeled / Illegible Samples		Y / N
Proper Containers:		Y / N
Preservation Acceptable (Chemical or Temperature)? Ref upon Receipt		Y / N
Drinking Water, Sodium Thiosulfate present? Residual Cl? Aqueous sample pH: 7		Y / N / NA Y / N / NA NA

List COC discrepancies:

8/1/22

List Damaged Samples:

8/1/22

Section VII: Qualifiers/Abbreviations

J	Concentration found below the lower quantitation limit but greater than zero.
B	Analyte present in the associated Method Blank.
E	Concentration found exceeds the Calibration range of the HRGC/HRMS.
D	This analyte concentration was calculated from a dilution.
X	The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample.
H	Recovery limits exceeded. See cover letter.
*****	Results taken from dilution.
I	Interference. See cover letter.
Conc.	Concentration Found
DL	Calculated Detection Limit
ND	Non-Detect
% Rec.	Percent Recovery

September 28, 2022

Pat-Chem Laboratories
ATTN:Steven Jefferson
1824 1st St
San Fernando, CA 91340

Subject: Subcontract Analysis for FGL Lab No. SP 2212141

Enclosed please find results for the following sample(s) which were received by FGL.

- Sub Contracted-Strontium 90

Please note that this analysis was performed by Eberline Analytical

Thank you for using FGL Environmental.

Sincerely,

Cindy Aguirre Digitally signed by Cindy Aguirre
Title: Customer Service Rep
Date: 2022-09-28

Enclosure

FGL ENVIRONMENTAL, INC.

SP 2212141

STANDARD LEVEL IV
REPORT OF ANALYSIS

WORK ORDER #22-08010-OR

September 23, 2022

EBERLINE ANALYTICAL/OAK RIDGE LABORATORY
OAK RIDGE, TN

TABLE OF CONTENTS

SECTION	DESCRIPTION	PAGE
I	Chain of Custody & pH Check	0004
II	Sample Acknowledgement	0008
III	Case Narrative	0011
IV	Analytical Results Summary	0014
V	Analytical Standard	0016
VI	Quality Control Sample Results Summary	0021
VII	Laboratory Technician's Notes	0024
VIII	Analytical Data (Strontium-90)	0028
	Last Page Number	0043

Eberline Services – Oak Ridge Laboratory

LABORATORY DATA SUPPORT CHECKLIST

MP-001-3

Eberline Services Work Order # 22-08010

The checklist items listed below are to be initialed by appropriate staff upon completion/verification.

Date for Partial	Initials	Date	Initials	Checklist Items
		8/3/22		Sample Log-In
		8/19/22		Data Compilation
		8/22/22		First Technical Data Review
		8/22/22		Second Technical Data Review
		9/22/22		Data Entry/Electronic Deliverable
		9/22/22		Case Narrative
		9/22/22		Electronic Deliverable Proof
		9/22/22		Samples Analyzed within Holding Time Yes? ☑ No? ☐
		9/22/22		QA/QC Review
				Client in Possession of Data Electronic or Hard Copy
				Invoiced by Laboratory

Technical/Clerical Corrections, Signatures Needed, Problems, Etc	Date/Initials

Date package approved by: _____ 9/23/22

Laboratory Manager Date

Copy No. _____

SECTION I

CHAIN OF CUSTODY
& pH CHECK

ENVIRONMENTAL AGRICULTURAL Analytical Chemists

Subcontract to Eberline Analytical

CHAIN OF CUSTODY
AND ANALYSES REQUEST FORM

Chain of Custody Information

Lab Number:

Client: Fruit Growers Laboratory
Address: 853 Corporation St.
Santa Paula, CA 93060-3005

Phone: Fax:
Contact:
Project: **SP 2212141**
Purchase Order:

Sampler(s): N/A

Compositor Setup Date: Time:

REC'D AUG 03 2022

22-08010

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite (C) Grab(G)	Type of Sample	Potable(P) Non-Potable(NP) Ag Waiver (AgW)	Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)	Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)	Test Description(s): Sub Contracted-Strontium 90 250 ml(AGT)								
1	22G0592-01	07/26/2022	10:00	G	W				1								

4

Remarks

Relinquished	Date	Time	Relinquished	Date	Time	Relinquished	Date	Time
FedEx	8/1/22	17:00	UPS					
Received By:	**Date**	**Time**	**Received By:**	**Date**	**Time**	**Received By:**	**Date**	**Time**
UPS	1	1	Randolph Spencer	8-3-22	16:00			

9000

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

EBERLINE SERVICES
Oak Ridge Laboratory

Internal Chain of Custody

Work Order #	22-08010
Lab Deadline	8/24/2022
Analysis	Sr090 - Level 4
Sample Matrix	Water

Comments

Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
04	40	HH1.4
05	50	HH1.4
06	40	HH1.4
07	30	HH1.4
08	20	HH1.4
09	20	HH1.4

	Location (circle one)					Initials	Date
Received by	(Sample Storage)	Rough Prep	Prep	Separations	Count Room	EGtel	8-8-22 / 1400
Relinquished by	Sample Storage	Rough Prep	Prep	(Separations)	Count Room	EGG	8/8/22 1025
Received by	Sample Storage	Rough Prep	Prep	Separations	(Count Room)	KP 8/18/22	1028
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	(Count Room)	KB 8/18/22	1028
Received by	(Sample Storage)	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

EBERLINE SERVICES

Sample Receiving Report
(Volumes, pH, & CPM)

Internal Work Order
22-08010
Received By
RSPENCER

FR	ClientID	# Btls	Comments	Matrix	Storage	Rec Vol Ttl	CPM Max
01	LCS	0		WA	HH1.4		
02	BLANK	0		WA	HH1.4		
03	DUP	0		WA	HH1.4		
04	22G0592-01	1		WA	HH1.4	0.47	40
			Container Number	pH Orig	pH Final	Volume (L)	CPM
			1	7	7	0.4700	40
05	AIRPORT NO 2 WELL	1		WA	HH1.4	0.47	50
			Container Number	pH Orig	pH Final	Volume (L)	CPM
			1	<2	<2	0.4700	50
06	TATE WTP-TREATED	1		WA	HH1.4	0.47	40
			Container Number	pH Orig	pH Final	Volume (L)	CPM
			1	<2	<2	0.4700	40
07	WELL 38	1		WA	HH1.4	0.47	30
			Container Number	pH Orig	pH Final	Volume (L)	CPM
			1	<2	<2	0.4700	30
08	WELL 39	1		WA	HH1.4	0.47	20
			Container Number	pH Orig	pH Final	Volume (L)	CPM
			1	<2	<2	0.4700	20
09	22G0626-01	1		WA	HH1.4	0.47	20
			Container Number	pH Orig	pH Final	Volume (L)	CPM
			1	7	7	0.4700	20

Received by: Randolph Spencer Date: 8-3-22

SECTION II

SAMPLE ACKNOWLEDGEMENT

Client Name	Contract/PO	Project Type	Date Received	Required Turnaround Days	Eberline Services Work Order
Fruit Growers Laboratory, Inc.	SP 2212141	Environmental	08/03/2022	28	22-08010
Project Name	**Client WO**	**Sample Disp**	**Lab Deadline**	**Internal Deadline**	**Client Deadline**
SP 2212141	SP 2212141	W	08/24/2022	08/30/2022	08/31/2022

Internal ID	Client ID	Sample Date	Matrix	Storage	Sr090																						Ttl
01	LCS	08/04/22	WA	HH1.4	X																						1
02	BLANK	08/04/22	WA	HH1.4	X																						1
03	DUP	08/04/22	WA	HH1.4	X																						1
04	22G0592-01	07/26/22 10:00	WA	HH1.4	X																						1
05	AIRPORT NO 2 WELL	07/14/22 09:50	WA	HH1.4	X																						1
06	TATE WTP-TREATED	07/14/22 11:20	WA	HH1.4	X																						1
07	WELL 38	07/13/22 09:40	WA	HH1.4	X																						1
08	WELL 39	07/13/22 11:20	WA	HH1.4	X																						1
09	22G0626-01	07/28/22 08:35	WA	HH1.4	X																						1
																											0
																											0
																											0
																											0
																											0
																											0
																											0
																											0
																											0
																											0
																											0
Totals Per Analysis (non QA samples)					6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

6000

EBERLINE SERVICES

Sample Log In Report

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830

Voice: (865) 481-0683
Fax: (865) 483-4621

Invoice	
	Accounts Payable
	FGL Environmental, Inc.
	853 Corporation St
	Santa Paula, CA 93060-3005
Voice	805-392-2000
Fax	

Contact	
	Cindy Aguirre
Voice	805-392-2012
Fax	

Report Data	
	Cindy Aguirre
	FGL Environmental, Inc.
	853 Corporation St
	Santa Paula, CA 93060-3005
Voice	805-392-2012
Fax	

Printed: 8/4/2022 3:58 PM

Eberline Services – Oak Ridge Laboratory

SAMPLE RECEIPT CHECKLIST
MP-001-2

WORK ORDER # 22-08010

SAMPLE MATRIX/MATRICES: (CIRCLE ONE OR BOTH)

(AQUEOUS) NON-AQUEOUS

(CIRCLE EITHER YES, NO, OR N/A)

WERE SAMPLES:

Received in good condition?	(Y)	N	
If aqueous, properly preserved	(Y)	N	N/A

WERE CHAIN OF CUSTODY SEALS:

Present on outside of package?	(Y)	N
Unbroken on outside of package?	(Y)	N
Present on samples?	(Y)	N
Unbroken on samples?	(Y)	N
Was chain of custody present upon sample receipt?	(Y)	N

IF THE RESPONSE TO ANY OF THE ABOVE IS **NO**, A DISCREPANT SAMPLE RECEIPT REPORT (DSR) HAS BEEN ISSUED.

REMARKS: _____

SIGNATURE: Randolph Spencer DATE: 8-3-22

SECTION III

CASE NARRATIVE

EBERLINE ANALYTICAL

EBERLINE ANALYTICAL CORPORATION
601 SCARBORO ROAD
OAK RIDGE, TENNESSEE 37830
PHONE (865) 481-0683
FAX (865) 483-4621

EBS-OR-50154

September 28, 2022

Cindy Aguirre
FGL Environmental, Inc.
853 Corporation St
Santa Paula, CA 93060-3005

CASE NARRATIVE - REVISED
CWB accredited – Lab ID 9257348
Work Order # 22-08010-OR

SAMPLE RECEIPT

This work order contains one water sample received 08/03/2022. Sample was analyzed for Strontium-90.

CLIENT ID	LAB ID
22G0592-01	22-08010-04

ANALYTICAL METHODS

Strontium-90 was analyzed using EPA Method 905.0 Modified.

ANALYTICAL RESULTS

Combined Standard Uncertainty is reported at 1-sigma value.

Minimum Detectable Activity (MDA) values for data represented in this report are sample-specific. MDA measurements are determined based on factors and conditions including instrument settings, aliquot size, and matrix type.

STRONTIUM-90

Sample was prepared by removing a representative aliquot followed by acid digestion as appropriate for the matrix. Digested sample was acidified. Strontium was selectively extracted and precipitated which began the ingrowth time for Yttrium-90. Strontium extractions were acidified, and Strontium-90 (Total Strontium) was selectively separated using crown ethers. After sufficient ingrowth, an elemental Yttrium carrier was added, and Yttrium-90 was selectively precipitated. Yttrium-90 was mounted on filter media. Yttrium-90 yield was determined by gravimetric recovery. Yttrium-90 activity reflects Strontium-90 activity in the sample.

ANALYTICAL RESULTS CONTINUED

STRONTIUM-90 CONTINUED

Sample demonstrated acceptable results for all Strontium-90 analyses. The Strontium-90 method blank demonstrated an acceptable result. Chemical recovery was acceptable for all analyses. Results for the Strontium-90 duplicate demonstrated a high relative percent difference; however, normalized difference is acceptable for this analytical technique. The Strontium-90 laboratory control sample demonstrated an acceptable percent recovery.

CERTIFICATION OF ACCURACY

I certify that this data report complies with the terms and conditions of the Purchase Order, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the cognizant project manager or his/her designee to be accurate as verified by the following signature.

M.R. McDougall
Laboratory Manager

Date: 9/28/2022

Eberline Analytical wants and encourages your feedback regarding our performance providing radioanalytical services. Please visit http://eberlineanalytical.com/ to provide us with feedback on our services.

SECTION IV

ANALYTICAL RESULTS SUMMARY

Eberline Analytical
Final Report of Analysis

Report To:

Cindy Aguirre
FGL Environmental, Inc.
853 Corporation St
Santa Paula, CA 93060-3005

Work Order Details:

SDG:	**22-08010 REVISED**
Purchase Order:	SP 2212141
Analysis Category:	ENVIRONMENTAL
Sample Matrix:	WA

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units
22-08010-01	LCS	KNOWN	08/04/22 00:00	8/3/2022	8/18/2022	22-08010	Strontium-90	EPA 905.0 Modified	4.97E+01	2.78E-01			pCi/l
22-08010-01	LCS	SPIKE	08/04/22 00:00	8/3/2022	8/18/2022	22-08010	Strontium-90	EPA 905.0 Modified	4.11E+01	1.36E+00	5.76E+00	8.28E-01	pCi/l
22-08010-02	MBL	BLANK	08/04/22 00:00	8/3/2022	8/18/2022	22-08010	Strontium-90	EPA 905.0 Modified	2.75E-01	3.40E-01	3.42E-01	6.96E-01	pCi/l
22-08010-03	DUP	22G0592-01	07/26/22 10:00	8/3/2022	8/18/2022	22-08010	Strontium-90	EPA 905.0 Modified	8.41E-01	7.01E-01	7.10E-01	1.41E+00	pCi/l
22-08010-04	DO	22G0592-01	07/26/22 10:00	8/3/2022	8/18/2022	22-08010	Strontium-90	EPA 905.0 Modified	1.92E+00	7.45E-01	7.89E-01	1.35E+00	pCi/l

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (1-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

EBERLINE ANALYTICAL

EBERLINE ANALYTICAL CORPORATION
601 SCARBORO ROAD OAK RIDGE, TN 37830 865/481-0683 FAX 865/483-4621

SECTION V

ANALYTICAL STANDARD

National Institute of Standards & Technology

Certificate

Standard Reference Material 4234A
Strontium-90 Radioactivity Standard

This Standard Reference Material (SRM) consists of radioactive strontium-90 chloride, non-radioactive strontium chloride, non-radioactive yttrium chloride, and hydrochloric acid dissolved in 5 mL of distilled water. The solution is contained in a flame-sealed NIST borosilicate-glass ampoule. The SRM is intended for the calibration of beta-particle counting instruments and for the monitoring of radiochemical procedures.

Radiological Hazard

The SRM ampoule contains strontium-90 with a total activity of approximately 13 MBq. Strontium-90 decays by beta-particle emission to yttrium-90, which also decays by beta-particle emission. None of the beta particles escape from the SRM ampoule. The beta particles emitted from strontium-90 and yttrium-90 produce bremsstrahlung photons with energies up to 2 MeV. Most of these photons escape from the SRM ampoule and can represent a radiation hazard. Approximate unshielded dose rates at several distances (as of the reference time) are given in note [a]*. Appropriate shielding and/or distance should be used to minimize personnel exposure. The SRM should be used only by persons qualified to handle radioactive material.

Chemical Hazard

The SRM ampoule contains hydrochloric acid (HCl) with a concentration of 1 mole per liter of water. The solution is corrosive and represents a health hazard if it comes in contact with eyes or skin. If the ampoule is to be opened to transfer the solution, the recommended procedure is given on page 2. The ampoule should be opened only by persons qualified to handle both radioactive material and strong acid solution.

Storage and Handling

The SRM should be stored and used at a temperature between 5 and 65 °C. The solution in an unopened ampoule should remain stable and homogeneous until at least March 2005.

The ampoule (or any subsequent container) should always be clearly marked as containing radioactive material. If the ampoule is transported it should be packed, marked, labeled, and shipped in accordance with the applicable national, international, and carrier regulations. The solution in the ampoule is a dangerous good (hazardous material) both because of the radioactivity and because of the strong acid.

Preparation

This Standard Reference Material was prepared in the Physics Laboratory, Ionizing Radiation Division, Radioactivity Group, J.M.R. Hutchinson, Group Leader. The overall technical direction and physical measurements leading to certification were provided by L.L. Lucas of the Radioactivity Group and D.B. Golas, Nuclear Energy Institute Research Associate.

The support aspects involved in the preparation, certification, and issuance of this SRM were coordinated through the Standard Reference Materials Program by N.M. Trahey.

Gaithersburg, Maryland 20899
May 1995 (Text only revised November 1997)

Thomas E. Gills, Chief
Standard Reference Materials Program

*Notes and references are on pages 5 and 6.

EBERLINE SERVICES

QUALITY CONTROL PROGRAM

QCP-009

Rev.8; 11/10/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE SOLUTIONS
PRIMARY DILUTION RECERTIFICATION
QCP 009-1

CURRENT DATE 5/9/22

SOLUTION REFERENCE # NIST 4234A **SOLUTION #** Sr-13

Principal Radionuclide	Half Life, Years	Half Life, Days
^{90}Strontium	2.870E+01	1.048E+04

Radionuclide ^{90}Strontium
Certified Activity μCi
Certified Concentration 6.7405E+01 μCi per gram

Reference Date 3/13/1995 0:00

Ampoule /Solution Gross	9.2400	Weight, Grams
Empty Ampoule	4.1769	Weight, Grams
Solution Net	5.0631	Weight, Grams
Total Activity in Ampoule	341.2803	μCi

Chemical Composition of Standard Solution
$^{90}SrCl_2$ in 1M HCl

Dilution Instructions:

Dilution Solvent Used 1M HCl

Dilute to a volume of 1000.00 **milliliters**

Certified Total Activity of 341.2803 μCi **Which Equals** 7.576E+08 **dpm at the date listed above**

And after dilution the activity of this solution is 7.576E+05 **dpm/ml**

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: May 5, 2023

Recertified By _____ Date: 5/9/22

Verified & QC Approved By Mananne Mary 5-9-22

EBERLINE SERVICES

QUALITY CONTROL PROGRAM
QCP-009

Rev 8; 11/10/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS
SECONDARY DILUTION RECERTIFICATION

	QCP-009-1-A	Date	05/09/22
Solution Reference #	NIST 4234A	Solution #	Sr-13a

Principal Radionuclide	Half Life, Years	Half Life, Days
^{90}Sr	2.878E+01	1.051E+04

Radionuclide of Interest	^{90}Sr	Reference Date	3/13/1995 0:00
Parent Solution Conc.	7.58E+05 dpm/ml		

Chemical Composition of Standard Solution
$^{90}SrCl_2$ in 1M HCl

Dilution Instructions: **Dilution Solvent Used** 1M HCl

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution:	3.5558 ml	Final Activity Concentration:	2.6939E+03 dpm/ml
Total Activity:	2.6939E+06 dpm		
Final Volume:	1000.00 ml		

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: May 5, 2023

Recertified By _____ Date: 5/9/22

Verified & QC Approved By: Marianne Day Date: 5-9-22

EBERLINE SERVICES

QUALITY CONTROL PROGRAM
QCP-009

Rev 8; 11/10/03
Title: Radioactive Reference Standards Solutions & Records

EBERLINE SERVICES - OAK RIDGE LABORATORY
RADIOACTIVE REFERENCE STANDARD SOLUTIONS

	QCP-009-1-A	Date	05/09/22
Solution Reference #	NIST 4234A	Solution #	Sr-13b

Principal Radionuclide	Half Life, Years	Half Life, Days
^{90}Sr	2.878E+01	1.051E+04

Radionuclide of Interest	^{90}Sr	Reference Date	1/10/2018 0:00
Parent Solution Conc.	4.36E+05 dpm/ml		

Chemical Composition of Standard Solution
$^{90}SrCl_2$ in 1M HCl

Dilution Instructions: **Dilution Solvent Used** 1M HCl

SECONDARY VOLUMETRIC DILUTION

Vol. Parent Solution:	0.9720	ml
Total Activity:	4.2344E+05	dpm
Final Volume:	990.00	ml

Final Activity Concentration: 427.720 dpm/ml

NOTES:

This activity concentration is based on the original reference date listed above. All activities are corrected to the date and time of analysis by the laboratory data processing software.

Expiration Date: May 5, 2023

Recertified By _____ Date: 5/9/22

Verified & QC Approved By Marianne Mary Date: 5-9-22

SECTION VI

QUALITY CONTROL SAMPLE RESULTS SUMMARY

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
22-08010	Sr090	1	pCi	l	Fruit Growers Laboratory, Inc.

Laboratory Control Sample

Analyte	LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
SR-90	82.77%	13.99%	100.00%	0.56%	4.97E+01	2.78E-01	4.11E+01	5.76E+00	Sr-13b	3.83E+02	5.60E-01	2.88E-01

Matrix Spike

Analyte	*Normalized Difference*	*MS Actual % Rec*	*Expected MS Result*	*Expected MS Uncert*	*Actual MS Result*	*Actual MS CSU*	*Sample Result*	*Sample CSU*	*Sample Aliquot*	*Standard ID*	*Standard ACT (dpm)*	*Standard Error %*	*Standard Added (g)*

Replicate Sample

Analyte	*Normalized Difference*	*RPD*	*Original Result*	*Original CSU*	*Replicate Result*	*Replicate CSU*
SR-90	1.99	78.08	1.92E+00	7.89E-01	8.41E-01	7.10E-01

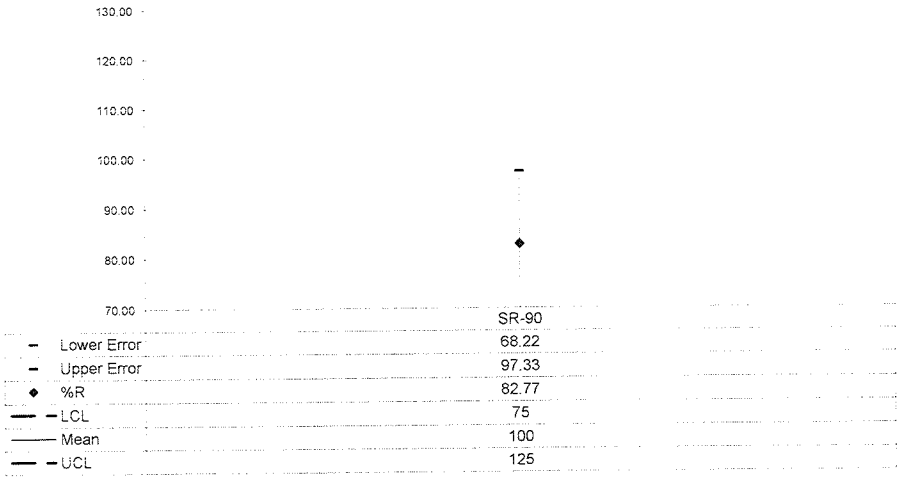
QC Summary

LCS Relative Bias	*LCS % R*	*MS % R*	*MS ND*	*Rep RPD*	*Rep ND*
0.83	OK			NA	OK

0022

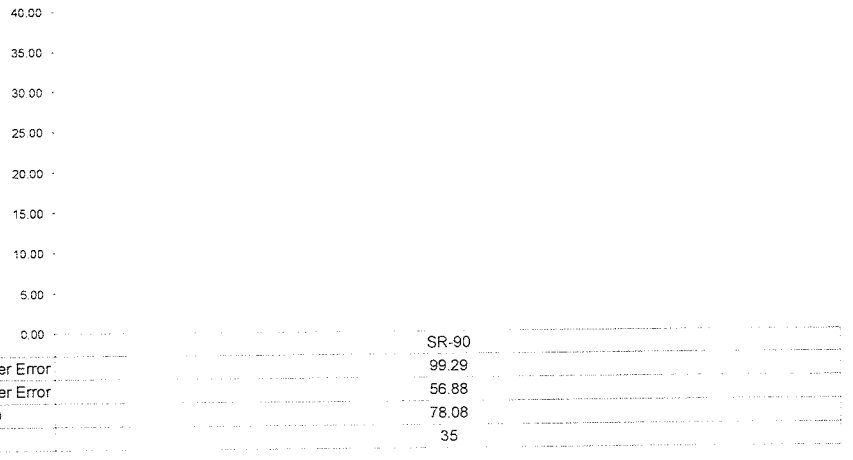
WO	Analysis	Run	Activity Units	Alicuot Units	Client Name
22-08010	Sr090	1	pCi	I	Fruit Growers Laboratory, Inc.

LCS % Recovery



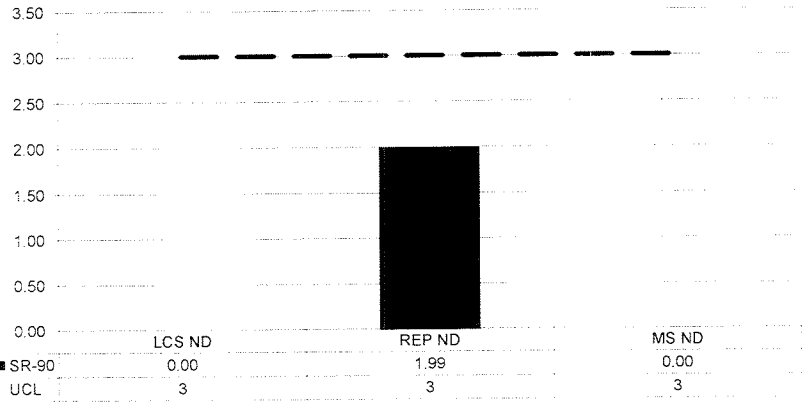
	SR-90
Lower Error	68.22
Upper Error	97.33
%R	82.77
LCL	75
Mean	100
UCL	125

Replicate Sample RPD



	SR-90
Lower Error	99.29
Upper Error	56.88
RPD	78.08
CL	35

Normalized Difference



	LCS ND	REP ND	MS ND
SR-90	0.00	1.99	0.00
UCL	3	3	3

No Matrix Spike

0023

Version

SECTION VII

LABORATORY TECHNICIAN'S NOTES

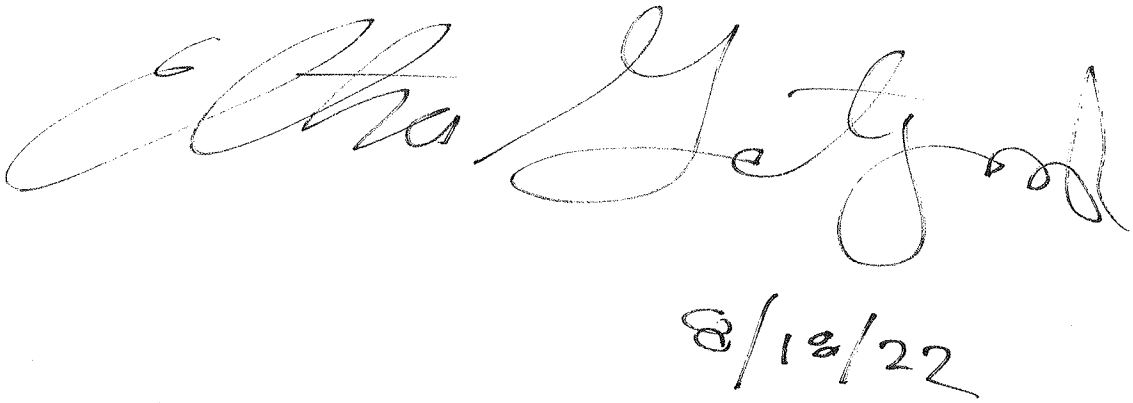
EBERLINE SERVICES

Work Order Analysis Notes

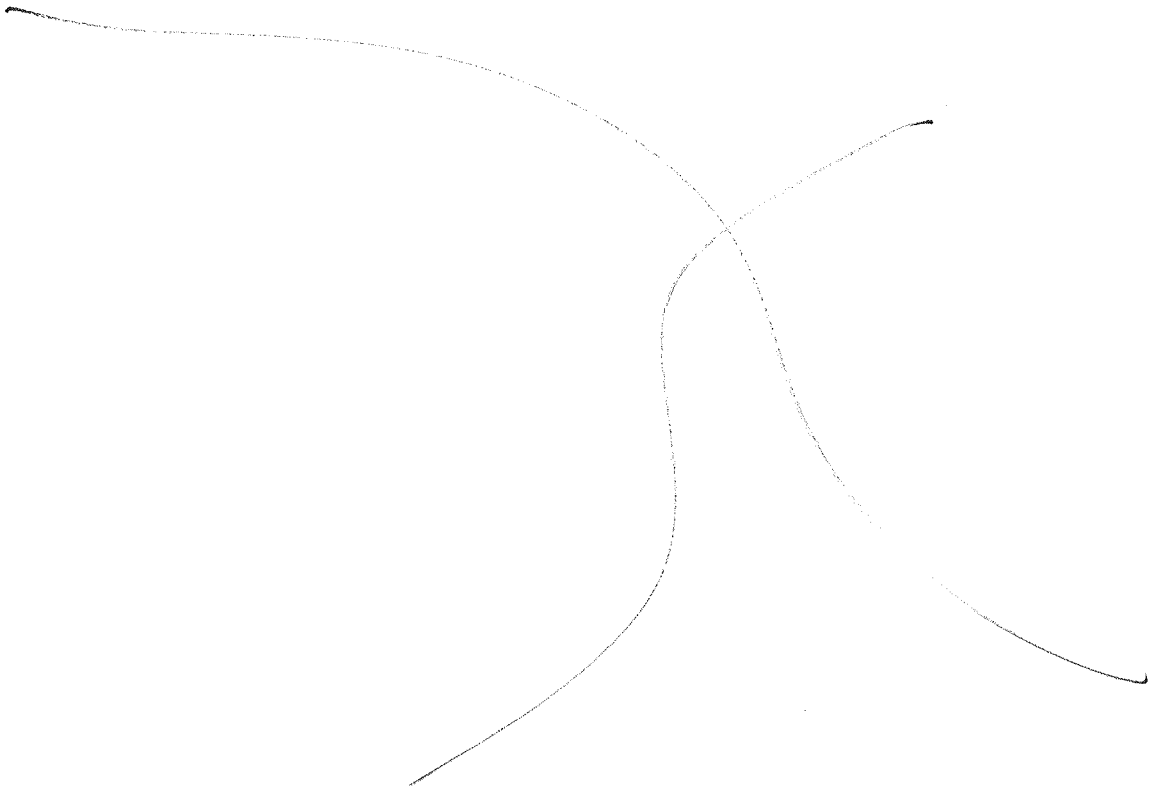
Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830
Voice: 865.481.0683
www.eberlineservices.com

Internal Work Order	22-08010
Analysis Code	Sr090
Run Number	1

#	Date	Dept	User	Notes
1	08/18/22 09:03	PREP	EGETGOOD	Strontium was selectively extracted and then Strontium was selectively precipitated and ingrowth started at this time. After sufficient ingrowth, Yttrium carriers were added and Yttrium-90 was selectively precipitated. The Yttrium-90 and elemental Yttrium was then mounted on filter media, yield was determined by gravimetric Yttrium and then samples were sent to the count room.



8/18/22



EBERLINE SERVICES

Reagents Used in an Analysis

Internal Work Order	
22-08010	
Analysis Code	Run
Sr090	1

Reagent ID	Reagent Name	Reagent Concentration	Analyst ID	Date Recorded
023894D04	Ammonium Oxalate	5%	EGETGOOD	8/18/2022
024041D31	Nitric Acid	1N	EGETGOOD	8/18/2022
024041D32	Nitric Acid	6N	EGETGOOD	8/18/2022
024593S	Sodium Hydroxide	10M	EGETGOOD	8/18/2022
024592S	Sodium Hydroxide	18M	EGETGOOD	8/18/2022
024295S	Yttrium Carrier	9 mg/ml	EGETGOOD	8/18/2022

Aqua LB4110

Date	Sample #	Client	Load Time	Count Time	Analysis	Tech
8/15/22	220800 4SY (1)	UCOR	1012	30 min	Sr^{90}	KP
8/15/22	220800 4SY (2-4)	UCOR	1012	2 hrs	Sr^{90}	KP
8/15/22	220800 5SY (1-4)	UCOR	1013	2 hrs	Sr^{90}	KP
8/15/22	220803 7AB (1)	USA	1043	30 min	$\alpha\beta$	KP
8/15/22	WHy Filters 8s (12)	Lab	1114	5 min	$\alpha\beta$	KP
8/15/22	220804 6AB (1,2)	BR Water Well	1120	2 hrs	$\alpha\beta$	KP
8/15/22	220710 1Ra (1-4)	UCOR	1215	2 hrs	Ra^{8}	KP
8/15/22	220804 6AB (3,4)	BR Water Well	1216	2 hrs	$\alpha\beta$	KP
8/15/22	220802 0AB (1-3)	CalEnergy	1217	2 hrs	$\alpha\beta$	KP
8/16/22	Daily Bkgd/QC	Lab	0531/0644	1 hr/30 min	$\alpha\beta$	KP
8/16/22	Cross Talk	Lab	0918	5 min	$\alpha\beta$	KP
8/16/22	Cross Talk	Lab	0726	5 min	$\alpha\beta$	KP
8/16/22	220803 7RAC (1-4)	USA	1046	2 hrs	Ra^{8}	KB
8/17/22	Daily Bkgd/QC	Lab	0555/0700	1 hr/30 min	$\alpha\beta$	KP
8/17/22	Cross Talk	Lab	0730	5 min	$\alpha\beta$	KP
8/17/22	Cross Talk	Lab	0743	5 min	$\alpha\beta$	KP
8/17/22	220805 7AB (1-4)	UCOR	1044	1 hr	$\alpha\beta$	KB
8/17/22	220803 0RAC (1-4)	Bordas Bordas	1110	2 hrs	Ra^{8}	KB
8/17/22	220804 6RA (1-4)	BR Water Well	1148	2 hrs	Ra^{8}	KB
8/17/22	220800 4CL (3,5)	UCOR	1426	30 mins	Cl^{36}	KB
8/18/22	Daily Bkgd/QC	Lab	0558/0701	1 hr/30 min	$\alpha\beta$	KP
8/18/22	Cross Talk	Lab	0734	5 min	$\alpha\beta$	KP
8/18/22	Cross Talk	Lab	0746	5 min	$\alpha\beta$	KP
8/18/22	220801 0SY (1-9)	Fruit Growers	1025	2 hrs	Sr^{90}	KP
8/18/22	220805 5Sr (3,4,6,8)	UCOR	1027	2 hrs	Tot Sr	KP

SECTION VIII

ANALYTICAL DATA (STRONTIUM-90)

Work Order	22-08010
Analysis Code	Sr090
Run	1
Date Received	8/3/2022
Lab Deadline	8/24/2022
Client	Fruit Growers Laboratory, Inc.
Project	SP 2212141
Report Level	4
Activity Units	pCi
Aliquot Units	l
Matrix	WA
Method	~~EIChroM SRW01~~ EPA 905.0 Modified
Instrument Type	Alpha/Beta GPC
Radiometric Tracer	
Radiometric Sol#	
Tracer Act (dpm/g)	
Carrier	Yttrium
Carrier Conc (mg/ml)	32.08333

9/27/22

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		08/04/22 00:00	1.0000E+00
02	MBL	BLANK		08/04/22 00:00	1.0000E+00
03	DUP	22G0592-01	40	07/26/22 10:00	4.7500E-01
04	DO	22G0592-01	40	07/26/22 10:00	4.7500E-01
05	TRG	AIRPORT NO 2 WELL	50	07/14/22 09:50	8.6000E-01
06	TRG	TATE WTP-TREATED	40	07/14/22 11:20	8.3000E-01
07	TRG	WELL 38	30	07/13/22 09:40	8.3500E-01
08	TRG	WELL 39	20	07/13/22 11:20	9.4500E-01
09	TRG	22G0626-01	20	07/28/22 08:35	9.7000E-01

0029

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS				0.00	2.000	0.1462	0.2043	0.0581	90.55	90.55	1.00	1.00
02	MBL				0.00	2.000	0.1452	0.2087	0.0635	98.96	98.96	1.00	1.00
03	DUP				0.00	2.000	0.1463	0.2140	0.0677	105.51	105.51	1.00	1.00
04	DO				0.00	2.000	0.1461	0.2048	0.0587	91.48	91.48	1.00	1.00
05	TRG				0.00	2.000	0.1464	0.2141	0.0677	105.51	105.51	1.00	1.00
06	TRG				0.00	2.000	0.1472	0.2148	0.0676	105.35	105.35	1.00	1.00
07	TRG				0.00	2.000	0.1448	0.2103	0.0655	102.08	102.08	1.00	1.00
08	TRG				0.00	2.000	0.1462	0.2124	0.0662	103.17	103.17	1.00	1.00
09	TRG				0.00	2.000	0.1464	0.2125	0.0661	103.01	103.01	1.00	1.00

0030

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS			08/18/22 07:18	EGETGOOD	08/08/22 13:48	EGETGOOD	08/18/22 08:02	EGETGOOD
02	MBL			08/18/22 07:18	EGETGOOD	08/08/22 13:48	EGETGOOD	08/18/22 08:02	EGETGOOD
03	DUP			08/18/22 07:18	EGETGOOD	08/08/22 13:48	EGETGOOD	08/18/22 08:02	EGETGOOD
04	DO			08/18/22 07:18	EGETGOOD	08/08/22 13:48	EGETGOOD	08/18/22 08:02	EGETGOOD
05	TRG			08/18/22 07:18	EGETGOOD	08/08/22 13:48	EGETGOOD	08/18/22 08:02	EGETGOOD
06	TRG			08/18/22 07:18	EGETGOOD	08/08/22 13:48	EGETGOOD	08/18/22 08:02	EGETGOOD
07	TRG			08/18/22 07:18	EGETGOOD	08/08/22 13:48	EGETGOOD	08/18/22 08:02	EGETGOOD
08	TRG			08/18/22 07:18	EGETGOOD	08/08/22 13:48	EGETGOOD	08/18/22 08:02	EGETGOOD
09	TRG			08/18/22 07:18	EGETGOOD	08/08/22 13:48	EGETGOOD	08/18/22 08:02	EGETGOOD

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ^ Indicates estimated SAF value.
** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Client: Fruit Growers Laboratory, Inc.
Eberline Services Work Order: 22-08010
Analysis Code: Sr090
Run: 1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LCS Known	LCS %R	LCS Flag	RPD Flag	MDA Flag	Blank Flag
01	SR-90	LCS	LCS	pCi/l	4.11E+01	1.36E+00	8.28E-01	4.97E+01	82.77	OK		OK	
02	SR-90	MBL	BLANK	pCi/l	2.75E-01	3.40E-01	6.96E-01					OK	OK
03	SR-90	DUP	22G0592-01	pCi/l	8.41E-01	7.01E-01	1.41E+00				NA	OK	
04	SR-90	DO	22G0592-01	pCi/l	1.92E+00	7.45E-01	1.35E+00					OK	
05	SR-90	TRG	AIRPORT NO 2 WELL	pCi/l	9.78E-01	3.64E-01	6.59E-01					OK	
06	SR-90	TRG	TATE WTP-TREATED	pCi/l	6.51E-01	3.81E-01	7.43E-01					OK	
07	SR-90	TRG	WELL 38	pCi/l	9.23E-01	3.77E-01	6.93E-01					OK	
08	SR-90	TRG	WELL 39	pCi/l	5.66E-01	3.32E-01	6.42E-01					OK	
09	SR-90	TRG	22G0626-01	pCi/l	4.52E-01	3.50E-01	7.00E-01					OK	

Work Order: 22-08010-Sr090-1

Client: Fruit Growers Laboratory, Inc. 0033

Eberline Services Work Order: 22-08010

Analysis Code: Sr090

Run: 1

Lab Fraction	Nuclide	Sample Desc	Sample Date	Sample Aliquot	Radiometric % Rec	Grav % Rec	Mean % Rec	SAF	Sep t0 Date/Time	Sep t1 Date/Time
01	SR-90	LCS	08/04/22 00:00	1.00E+00	0.00	90.55	90.55	1.13	8/8/2022 13:48	8/18/2022 8:02
02	SR-90	MBL	08/04/22 00:00	1.00E+00	0.00	98.96	98.96	1.14	8/8/2022 13:48	8/18/2022 8:02
03	SR-90	DUP	07/26/22 10:00	4.75E-01	0.00	105.51	105.51	1.15	8/8/2022 13:48	8/18/2022 8:02
04	SR-90	DO	07/26/22 10:00	4.75E-01	0.00	91.48	91.48	1.13	8/8/2022 13:48	8/18/2022 8:02
05	SR-90	TRG	07/14/22 09:50	8.60E-01	0.00	105.51	105.51	1.15	8/8/2022 13:48	8/18/2022 8:02
06	SR-90	TRG	07/14/22 11:20	8.30E-01	0.00	105.35	105.35	1.15	8/8/2022 13:48	8/18/2022 8:02
07	SR-90	TRG	07/13/22 09:40	8.35E-01	0.00	102.08	102.08	1.14	8/8/2022 13:48	8/18/2022 8:02
08	SR-90	TRG	07/13/22 11:20	9.45E-01	0.00	103.17	103.17	1.15	8/8/2022 13:48	8/18/2022 8:02
09	SR-90	TRG	07/28/22 08:35	9.70E-01	0.00	103.01	103.01	1.14	8/8/2022 13:48	8/18/2022 8:02

Client: Fruit Growers Laboratory, Inc.
Eberline Services Work Order: 22-08010
Analysis Code: Sr090
Run: 1

Lab Fraction	Nuclide	Sample Desc	Counting Date/Time	Halflife (days)	Detect	Carrier	Count Time	Counts	Bkg CPM	Eff
01	SR-90	LCS	08/18/22 10:25		LB4110A	A1	120	3962	1.383333333	0.48563
02	SR-90	MBL	08/18/22 10:25		LB4110A	A2	120	170	1.183333333	0.496198
03	SR-90	DUP	08/18/22 10:25		LB4110A	A3	120	214	1.4	0.529929
04	SR-90	DO	08/18/22 10:25		LB4110A	C1	120	188	0.85	0.492018
05	SR-90	TRG	08/18/22 10:25		LB4110A	C2	120	206	0.933333333	0.514361
06	SR-90	TRG	08/18/22 10:25		LB4110A	C3	120	221	1.3	0.554655
07	SR-90	TRG	08/18/22 10:25		LB4110A	D1	120	199	0.95	0.522495
08	SR-90	TRG	08/18/22 10:25		LB4110A	D3	120	185	1.05	0.517823
09	SR-90	TRG	08/18/22 10:25		LB4110A	D4	120	229	1.483333333	0.547018

Count Room Report
Client: Fruit Growers Laboratory,

22-08010-Sr090-1 (pCi/l) in WA
Tracer ID:

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	08/04/22 00:00	1.0000				0.00	1.00	1.00
02	MBL	BLANK	08/04/22 00:00	1.0000				0.00	1.00	1.00
03	DUP	22G0592-01	07/26/22 10:00	0.4750				0.00	1.00	1.00
04	DO	22G0592-01	07/26/22 10:00	0.4750				0.00	1.00	1.00
05	TRG	AIRPORT NO 2 WELL	07/14/22 09:50	0.8600				0.00	1.00	1.00
06	TRG	TATE WTP-TREATED	07/14/22 11:20	0.8300				0.00	1.00	1.00
07	TRG	WELL 38	07/13/22 09:40	0.8350				0.00	1.00	1.00
08	TRG	WELL 39	07/13/22 11:20	0.9450				0.00	1.00	1.00
09	TRG	22G0626-01	07/28/22 08:35	0.9700				0.00	1.00	1.00

Eberline Services
Oak Ridge Laboratory

Spike and Tracer Worksheet

Internal Work Order	Run	Analysis Code	Date	Technician	Technician Initials	Witness Initials
22-08010	1	Sr090	8/18/2022 7:16	EGETGOOD	E.H.	

LCS & Matrix Spikes					LCS	MS	LCSD	MSD	LCS		MS		LCSD		MSD	
Isotope	*Sol #*	*Activity dpm/g*	*Solution Date*	*Approx Addition*	*Volume Used (g)*	*Volume Used (g)*	*Volume Used (g)*	*Volume Used (g)*	*Known pCi*	*Error Estimate*	*Added pCi*	*Error Estimate*	*Known pCi*	*Error Estimate*	*Added pCi*	*Error Estimate*
SR-90	Sr-13b	382.610	8/18/2022	0.290	0.2884				49.70	0.278	0.00	0.000	0.00	0.000	0.00	0.000

Tracers

fraction	*Isotope*	*Sol #*	*Activity dpm/g*	*Solution Date*	*Volume Used (g)*	*Approx Addition*

Balance Printer Tapes

Tracer

LCS

Matrix Spike

0036

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Printed: 8/8/2022 1:30 PM

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
22-08010	1	Sr090	liters	8/24/2022	EGETGOOD

Lab Fraction	Fruit Growers Laboratory, Inc. Client ID	Sample Type	Muffle Data	Dilution Data			Aliquot Data		MS Aliquot Data		H-3 Solids Only	
			Ratio Post/Pre	No of Dils	Dil Factor	Ratio	Aliquot	Net Equiv	Aliquot	Net Equiv	Water Added (ml)	H3 Dist Aliq
01	LCS	LCS					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
03	22G0592-01	DUP					4.7500E-01	4.7500E-01				
04	22G0592-01	DO					4.7500E-01	4.7500E-01				
05	AIRPORT NO 2 WELL	TRG					8.6000E-01	8.6000E-01				
06	TATE WTP-TREATED	TRG					8.3000E-01	8.3000E-01				
07	WELL 38	TRG					8.3500E-01	8.3500E-01				
08	WELL 39	TRG					9.4500E-01	9.4500E-01				
09	22G0626-01	TRG					9.7000E-01	9.7000E-01				

Comments	

0037

Technician: _____ Date: 8/8/22

Eberline Services - Oak Ridge
Version 1.0 9/1999

Gravimetric Worksheet

Work Order	Run	Analysis Code	Gravimetric Carrier	Carrier Conc (mg/ml)	Technician
22-08010	1	Sr090	Yttrium	32.0833	EGETGOOD

TRetec Fraction	Fruit Growers Laboratory, Inc. Client ID	Sample Type	Carrier Data	Filter Data			Gravimetric
			Carrier Added (ml)	Filter Tare (g)	Filter Final (g)	Filter Net (g)	% Recovery
01	LCS	LCS	2.0000	0.1462	0.2043	0.0581	90.55
02	BLANK	MBL	2.0000	0.1452	0.2087	0.0635	98.96
03	DUP	DUP	2.0000	0.1463	0.2140	0.0677	105.51
04	22G0592-01	DO	2.0000	0.1461	0.2048	0.0587	91.48
05	AIRPORT NO 2 WELL	TRG	2.0000	0.1464	0.2141	0.0677	105.51
06	TATE WTP-TREATED	TRG	2.0000	0.1472	0.2148	0.0676	105.35
07	WELL 38	TRG	2.0000	0.1448	0.2103	0.0655	102.08
08	WELL 39	TRG	2.0000	0.1462	0.2124	0.0662	103.17
09	22G0626-01	TRG	2.0000	0.1464	0.2125	0.0661	103.01

0038

Technician: Date: 8/18/22

VLD
8/18/22

Detector ID	Sample ID	Alpha	Beta	Count Time	Voltage	TOD
A1	2208010-01Y	64	3962	120	1410	8/18/2022 10:25:26 AM
A2	2208010-02Y	22	170	120	1410	8/18/2022 10:25:26 AM
A3	2208010-03Y	30	214	120	1410	8/18/2022 10:25:26 AM
C1	2208010-04Y	27	188	120	1410	8/18/2022 10:25:26 AM
C2	2208010-05Y	25	206	120	1410	8/18/2022 10:25:26 AM
C3	2208010-06Y	21	221	120	1410	8/18/2022 10:25:27 AM
D1	2208010-07Y	11	199	120	1410	8/18/2022 10:25:27 AM
D3	2208010-08Y	17	185	120	1410	8/18/2022 10:25:27 AM
D4	2208010-09Y	21	229	120	1410	8/18/2022 10:25:27 AM

GPC Detector Report
(ALL Backgrounds)

KP
8/18/22

Detector	Alpha/Beta	Calibration Date	Count Date	Bkg CPM	PFW	LCL	Mean	UCL
LB4110A - A1	Alpha	11/2/2019	8/18/2022	2.00E-01	P	8.39E-03	1.66E-01	3.23E-01
LB4110A - A2	Alpha	11/2/2019	8/18/2022	1.67E-01	P	1.05E-02	1.52E-01	2.94E-01
LB4110A - A3	Alpha	11/2/2019	8/18/2022	1.83E-01	P	1.94E-02	1.64E-01	3.09E-01
LB4110A - A4	Alpha	11/2/2019	8/18/2022	1.67E-01	P	1.61E-02	1.68E-01	3.19E-01
LB4110A - B1	Alpha	11/2/2019	8/18/2022	1.67E-01	P	-2.15E-02	1.41E-01	3.03E-01
LB4110A - B2	Alpha	11/2/2019	8/18/2022	1.33E-01	P	-2.87E-02	1.86E-01	4.00E-01
LB4110A - B3	Alpha	11/2/2019	8/18/2022	1.50E-01	P	1.02E-02	1.65E-01	3.19E-01
LB4110A - B4	Alpha	11/2/2019	8/18/2022	5.00E-02	P	-8.27E-03	1.15E-01	2.38E-01
LB4110A - C1	Alpha	11/2/2019	8/18/2022	6.67E-02	P	-2.67E-02	1.21E-01	2.69E-01
LB4110A - C2	Alpha	11/2/2019	8/18/2022	6.67E-02	P	-1.75E-02	1.11E-01	2.39E-01
LB4110A - C3	Alpha	11/2/2019	8/18/2022	8.33E-02	P	-2.05E-02	8.80E-02	1.97E-01
LB4110A - C4	Alpha	11/2/2019	8/18/2022	1.33E-01	P	3.19E-02	2.19E-01	4.07E-01
LB4110A - D1	Alpha	11/2/2019	8/18/2022	8.33E-02	P	-6.70E-02	7.23E-02	2.12E-01
LB4110A - D2	Alpha	11/2/2019	8/18/2022	1.33E-01	P	-5.01E-02	1.09E-01	2.67E-01
LB4110A - D3	Alpha	11/2/2019	8/18/2022	8.33E-02	P	-7.57E-02	1.28E-01	3.31E-01
LB4110A - D4	Alpha	11/2/2019	8/18/2022	1.33E-01	P	1.03E-02	1.65E-01	3.20E-01
LB4110A - E1	Alpha	11/2/2017	5/19/2020	1.00E+05	F	-2.35E+04	8.93E+02	2.53E+04
LB4110A - E2	Alpha	11/2/2017	5/19/2020	1.00E+05	F	-2.35E+04	8.93E+02	2.53E+04
LB4110A - E3	Alpha	11/2/2017	5/19/2020	1.00E+05	F	-2.35E+04	8.93E+02	2.53E+04
LB4110A - E4	Alpha	11/2/2017	5/19/2020	1.00E+05	F	-2.35E+04	8.93E+02	2.53E+04
LB4110A - F1	Alpha	11/2/2019	1/10/2022	0.00E+00	P	-3.26E-02	1.31E-01	2.95E-01
LB4110A - F2	Alpha	11/2/2019	1/10/2022	0.00E+00	P	-3.95E-02	1.19E-01	2.77E-01
LB4110A - F3	Alpha	11/2/2019	1/10/2022	0.00E+00	P	-2.28E-02	1.05E-01	2.34E-01
LB4110A - F4	Alpha	11/2/2019	1/10/2022	0.00E+00	P	-4.44E-02	7.07E-02	1.86E-01
LB4110A - G1	Alpha	11/2/2019	8/18/2022	1.17E-01	P	-1.73E-02	9.16E-02	2.00E-01
LB4110A - G2	Alpha	11/2/2019	8/18/2022	1.67E-01	P	-2.64E-02	9.37E-02	2.14E-01
LB4110A - G3	Alpha	11/2/2019	8/18/2022	1.50E-01	P	-3.48E-02	1.61E-01	3.56E-01
LB4110A - G4	Alpha	11/2/2019	8/18/2022	2.00E-01	P	-2.70E-02	1.07E-01	2.41E-01

GPC Detector Report
(ALL Backgrounds)

KP
8/18/22

Detector	Alpha/Beta	Calibration Date	Count Date	Bkg CPM	PFW	LCL	Mean	UCL
LB4110A - A1	Beta	11/2/2019	8/18/2022	1.38E+00	P	-1.28E+00	1.35E+00	3.98E+00
LB4110A - A2	Beta	11/2/2019	8/18/2022	1.18E+00	P	-1.09E+00	1.61E+00	4.31E+00
LB4110A - A3	Beta	11/2/2019	8/18/2022	1.40E+00	P	-1.05E+00	1.44E+00	3.92E+00
LB4110A - A4	Beta	11/2/2019	8/18/2022	1.17E+00	P	-1.17E+00	1.47E+00	4.11E+00
LB4110A - B1	Beta	11/2/2019	8/18/2022	1.28E+00	P	1.00E+00	1.39E+00	1.78E+00
LB4110A - B2	Beta	11/2/2019	8/18/2022	1.13E+00	P	5.90E-01	1.36E+00	2.12E+00
LB4110A - B3	Beta	11/2/2019	8/18/2022	1.22E+00	P	8.87E-01	1.30E+00	1.72E+00
LB4110A - B4	Beta	11/2/2019	8/18/2022	1.42E+00	P	5.76E-01	1.51E+00	2.44E+00
LB4110A - C1	Beta	11/2/2019	8/18/2022	8.50E-01	P	7.78E-01	1.15E+00	1.53E+00
LB4110A - C2	Beta	11/2/2019	8/18/2022	9.33E-01	P	6.32E-01	1.00E+00	1.37E+00
LB4110A - C3	Beta	11/2/2019	8/18/2022	1.30E+00	P	7.00E-01	1.28E+00	1.87E+00
LB4110A - C4	Beta	11/2/2019	8/18/2022	1.20E+00	P	8.41E-01	1.27E+00	1.69E+00
LB4110A - D1	Beta	11/2/2019	8/18/2022	9.50E-01	P	6.42E-01	1.06E+00	1.47E+00
LB4110A - D2	Beta	11/2/2019	8/18/2022	1.40E+00	P	-1.14E+00	2.26E+00	5.66E+00
LB4110A - D3	Beta	11/2/2019	8/18/2022	1.05E+00	P	6.79E-01	1.11E+00	1.54E+00
LB4110A - D4	Beta	11/2/2019	8/18/2022	1.48E+00	P	1.00E+00	1.46E+00	1.91E+00
LB4110A - E1	Beta	11/2/2017	5/19/2020	1.00E+05	F	-2.35E+04	8.94E+02	2.53E+04
LB4110A - E2	Beta	11/2/2017	5/19/2020	1.00E+05	F	-2.35E+04	8.94E+02	2.53E+04
LB4110A - E3	Beta	11/2/2017	5/19/2020	1.00E+05	F	-2.35E+04	8.94E+02	2.53E+04
LB4110A - E4	Beta	11/2/2017	5/19/2020	1.00E+05	F	-2.35E+04	8.94E+02	2.53E+04
LB4110A - F1	Beta	11/2/2019	1/10/2022	1.67E-02	P	2.10E-01	1.28E+00	2.35E+00
LB4110A - F2	Beta	11/2/2019	1/10/2022	0.00E+00	P	-5.04E-01	1.19E+00	2.88E+00
LB4110A - F3	Beta	11/2/2019	1/10/2022	0.00E+00	P	-2.58E-01	1.18E+00	2.62E+00
LB4110A - F4	Beta	11/2/2019	1/10/2022	0.00E+00	P	-1.30E+00	1.60E+00	4.50E+00
LB4110A - G1	Beta	11/2/2019	8/18/2022	1.35E+00	P	7.55E-01	1.19E+00	1.63E+00
LB4110A - G2	Beta	11/2/2019	8/18/2022	1.63E+00	P	1.11E+00	1.58E+00	2.04E+00
LB4110A - G3	Beta	11/2/2019	8/18/2022	1.32E+00	P	7.72E-01	1.19E+00	1.61E+00
LB4110A - G4	Beta	11/2/2019	8/18/2022	1.28E+00	P	-1.21E-01	1.28E+00	2.69E+00

Eberline Analytical
Oak Ridge Laboratory

GPC Detector Report
(ALL Efficiencies)

Printed: 8/18/2022 7:37 AM

Detector	Alpha/Beta	Calibration Date	Count Date	Eff	PFW	LCL	Mean	UCL
LB4110A - A1	Alpha	11/2/2019	8/18/2022	0.2119	P	0.2042	0.2311	0.2581
LB4110A - A2	Alpha	11/2/2019	8/18/2022	0.1888	P	0.1786	0.2010	0.2233
LB4110A - A3	Alpha	11/2/2019	8/18/2022	0.1822	P	0.1745	0.1960	0.2176
LB4110A - A4	Alpha	11/2/2019	8/18/2022	0.2140	P	0.2004	0.2254	0.2505
LB4110A - B1	Alpha	11/2/2019	8/18/2022	0.2170	P	0.1876	0.2116	0.2356
LB4110A - B2	Alpha	11/2/2019	8/18/2022	0.1858	P	0.1703	0.1957	0.2211
LB4110A - B3	Alpha	11/2/2019	8/18/2022	0.2185	P	0.1990	0.2305	0.2620
LB4110A - B4	Alpha	11/2/2019	8/18/2022	0.2132	P	0.1965	0.2254	0.2542
LB4110A - C1	Alpha	11/2/2019	8/18/2022	0.1833	P	0.1719	0.1961	0.2204
LB4110A - C2	Alpha	11/2/2019	8/18/2022	0.1941	P	0.1739	0.1982	0.2225
LB4110A - C3	Alpha	11/2/2019	8/18/2022	0.2061	P	0.1912	0.2222	0.2533
LB4110A - C4	Alpha	11/2/2019	8/18/2022	0.1912	P	0.1778	0.2080	0.2382
LB4110A - D1	Alpha	11/2/2019	8/18/2022	0.1921	P	0.1737	0.1963	0.2189
LB4110A - D2	Alpha	11/2/2019	8/18/2022	0.2171	P	0.2055	0.2330	0.2605
LB4110A - D3	Alpha	11/2/2019	8/18/2022	0.2308	P	0.2134	0.2397	0.2659
LB4110A - D4	Alpha	11/2/2019	8/18/2022	0.1749	P	0.1619	0.1830	0.2042
LB4110A - E1	Alpha	11/2/2017	5/19/2020	0.2075	P	0.1686	0.2257	0.2828
LB4110A - E2	Alpha	11/2/2017	5/19/2020	0.1778	P	0.1514	0.2049	0.2583
LB4110A - E3	Alpha	11/2/2017	5/19/2020	0.2234	P	0.1549	0.2076	0.2604
LB4110A - E4	Alpha	11/2/2017	5/19/2020	0.2155	P	0.1746	0.2353	0.2961
LB4110A - F1	Alpha	11/2/2019	1/10/2022	0.0000	F	0.1419	0.2082	0.2746
LB4110A - F2	Alpha	11/2/2019	1/10/2022	0.0000	F	0.1190	0.1738	0.2286
LB4110A - F3	Alpha	11/2/2019	1/10/2022	0.0000	F	0.1494	0.2173	0.2853
LB4110A - F4	Alpha	11/2/2019	1/10/2022	0.0000	F	0.1457	0.2123	0.2788
LB4110A - G1	Alpha	11/2/2019	8/18/2022	0.1883	P	0.1768	0.1872	0.1976
LB4110A - G2	Alpha	11/2/2019	8/18/2022	0.1857	P	0.1731	0.1835	0.1938
LB4110A - G3	Alpha	11/2/2019	8/18/2022	0.2042	P	0.2010	0.2140	0.2269
LB4110A - G4	Alpha	11/2/2019	8/18/2022	0.1834	P	0.1656	0.1834	0.2012

KP 8/18/22

KP 8/18/22 out of service

Eberline Analytical
Oak Ridge Laboratory

GPC Detector Report
(ALL Efficiencies)

Printed: 8/18/2022 7:37 AM

Detector	Alpha/Beta	Calibration Date	Count Date	Eff	PFW	LCL	Mean	UCL
LB4110A - A1	Beta	11/2/2019	8/18/2022	0.5155	P	0.4933	0.5612	0.6291
LB4110A - A2	Beta	11/2/2019	8/18/2022	0.4443	P	0.3982	0.4440	0.4897
LB4110A - A3	Beta	11/2/2019	8/18/2022	0.4550	P	0.4249	0.4783	0.5316
LB4110A - A4	Beta	11/2/2019	8/18/2022	0.5085	P	0.4886	0.5530	0.6173
LB4110A - B1	Beta	11/2/2019	8/18/2022	0.4917	P	0.4383	0.4948	0.5512
LB4110A - B2	Beta	11/2/2019	8/18/2022	0.4272	P	0.3867	0.4785	0.5702
LB4110A - B3	Beta	11/2/2019	8/18/2022	0.5324	P	0.4872	0.5735	0.6598
LB4110A - B4	Beta	11/2/2019	8/18/2022	0.5087	P	0.4660	0.5516	0.6373
LB4110A - C1	Beta	11/2/2019	8/18/2022	0.4412	P	0.4128	0.4718	0.5308
LB4110A - C2	Beta	11/2/2019	8/18/2022	0.4477	P	0.4156	0.4743	0.5331
LB4110A - C3	Beta	11/2/2019	8/18/2022	0.5178	P	0.4865	0.5633	0.6401
LB4110A - C4	Beta	11/2/2019	8/18/2022	0.4693	P	0.4391	0.5089	0.5788
LB4110A - D1	Beta	11/2/2019	8/18/2022	0.5388	P	0.5061	0.5734	0.6408
LB4110A - D2	Beta	11/2/2019	8/18/2022	0.5474	P	0.5193	0.5887	0.6581
LB4110A - D3	Beta	11/2/2019	8/18/2022	0.5717	P	0.5343	0.5996	0.6650
LB4110A - D4	Beta	11/2/2019	8/18/2022	0.4682	P	0.4289	0.4807	0.5325
LB4110A - E1	Beta	11/2/2017	5/19/2020	0.5360	P	0.4167	0.5408	0.6649
LB4110A - E2	Beta	11/2/2017	5/19/2020	0.4520	P	0.3728	0.4910	0.6092
LB4110A - E3	Beta	11/2/2017	5/19/2020	0.5775	P	0.3848	0.5001	0.6154
LB4110A - E4	Beta	11/2/2017	5/19/2020	0.5466	P	0.4532	0.5887	0.7241
LB4110A - F1	Beta	11/2/2019	1/10/2022	0.0044	F	0.3744	0.5247	0.6751
LB4110A - F2	Beta	11/2/2019	1/10/2022	0.0009	F	0.3099	0.4365	0.5632
LB4110A - F3	Beta	11/2/2019	1/10/2022	0.0002	F	0.4027	0.5661	0.7294
LB4110A - F4	Beta	11/2/2019	1/10/2022	0.0003	F	0.3883	0.5461	0.7040
LB4110A - G1	Beta	11/2/2019	8/18/2022	0.4374	P	0.4202	0.4439	0.4676
LB4110A - G2	Beta	11/2/2019	8/18/2022	0.4298	P	0.4082	0.4341	0.4600
LB4110A - G3	Beta	11/2/2019	8/18/2022	0.5013	P	0.4869	0.5159	0.5449
LB4110A - G4	Beta	11/2/2019	8/18/2022	0.4350	P	0.3993	0.4395	0.4798

KP 8/18/22

KP 8/18/22 out of service

October 10, 2022

Lab No. : SP 2212141
Customer No. : 2012670

Pat-Chem Laboratories
ATTN:Steven Jefferson
1824 1st St
San Fernando, CA 91340

Laboratory Report

Introduction: This report package contains a total of 5 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(2 pages)	: Results for each sample submitted.
Quality Control	(2 pages)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
22G0592-01	07/26/2022	07/27/2022	SP 2212141-001	W

Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary	
EPA 314.0	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 900.0	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 903.0	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 906.0	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA RA-05	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: GMA

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2022-10-10

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

October 10, 2022

Pat-Chem Laboratories
ATTN:Steven Jefferson
1824 1st St
San Fernando, CA 91340

Description : 22G0592-01
Project : Pat-Chem Laboratories 22G0592

Lab No. : SP 2212141-001
Customer No. : 2012670

Sampled On : July 26, 2022 at 10:00
Sampled By : N/A
Received On : July 27, 2022 at 14:30
Matrix : Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Wet Chemistry							Date	Time	Who	Method	Date	Time	Who
Perchlorate	ND	2	ug/L		1	U	08/04/2022	19:00	sbl	EPA 314.0	08/04/2022	22:48	sbl

ND=Non-Detected, RL=Reporting Level.

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

October 10, 2022

Pat-Chem Laboratories
ATTN:Steven Jefferson
1824 1st St
San Fernando, CA 91340

Description : 22G0592-01
Project : Pat-Chem Laboratories 22G0592

Lab No. : SP 2212141-001
Customer No. : 2012670

Sampled On : July 26, 2022 at 10:00
Sampled By : N/A
Received On : July 27, 2022 at 14:30
Matrix : Water

Sample Results - Radio

Constituent	Result ± Error	MDA	Units	MCL/AL	DQF	Sample Preparation			Sample Analysis			
Radio Chemistry						Date	Time	Who	Method	Date	Time	Who
Gross Alpha	2.46 ± 1.80	2.71	pCi/L	15/5		09/09/2022	06:15	ejc	EPA 900.0	09/26/2022	08:27	amr
Gross Beta	10.3 ± 1.53	1.61	pCi/L		H	09/09/2022	06:15	ejc	EPA 900.0	09/26/2022	08:27	amr
Total Alpha Radium (226)	0.000 ± 0.177	0.410	pCi/L		H	08/14/2022	12:00	emv	EPA 903.0	08/16/2022	14:21	amr
Tritium	295 ± 276	434	pCi/L			10/07/2022	08:00	amr	EPA 906.0	10/07/2022	17:37	amr
Ra 228	0.781 ± 0.968	0.643	pCi/L			08/12/2022	18:00	emv	EPA RA-05	08/14/2022	12:30	emv

DQF Flags Definition:
U Constituent results were non-detect.
H The preparation QC spike and/or CCV recoveries did not meet QC acceptance criteria.

ND=Non-Detected, RL=Reporting Level

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.
MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).
AV = Assigned Value(Gross Alpha Result + (0.84 x Error)). CCR Section 64442: Drinking Water Compliance Note: Do the following If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

Drinking Water Compliance:
Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L
Uranium is less than or equal to 20 pCi/L
Radium 226 + Radium 228 is less than or equal to 5 pCi/L

Note: Samples are held for 3-6 months prior to disposal.

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

October 10, 2022

Pat-Chem Laboratories

Lab No. : SP 2212141
Customer No. : 2012670

Quality Control - Radio

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Radio								
Gross Alpha	900.0	09/09/2022:210236EJC	Blank	pCi/L		ND	<3	
			LCS	pCi/L	10.40	100 %	50-135	
			BS	pCi/L	201.1	105 %	60-140	
			BSD	pCi/L	201.1	95.4 %	60-140	
			BSRPD	pCi/L	201.1	9.9%	≤30	
Gross Beta	900.0	09/09/2022:210236EJC	Blank	pCi/L		ND	<4	
			BS	pCi/L	34.44	180 %	80-130	436
			BSD	pCi/L	34.44	195 %	80-130	436
			BSRPD	pCi/L	201.1	7.8%	≤30	
			LCS	pCi/L	21.94	91.7 %	60-126	
			LCS	pCi/L	21.94	87.0 %	60-126	
Total Radium	903.0	08/14/2022:208893EMV	RgBlk	pCi/L		0.13184	0.40957	
			LCS	pCi/L	24.37	115%	52-107	
			BS	pCi/L	24.37	103%	43-111	
			BSD	pCi/L	24.37	105%	43-111	
			BSRPD	pCi/L	24.37	1.5%	≤35.5	
Tritium	906.0	10/07/2022:211444AMR	Blank	pCi/L		ND	<433.74	
			LCS	pCi/L	1460	90.0%	75-125	
			MS	pCi/L	1460	96.0%	75-125	
		(SP 2212141-001)	MSD	pCi/L	1460	102%	75-125	
			MSRPD	pCi/L	1460	5.4%	≤25	
Radium - 228	Ra - 05	08/12/2022:208650EMV	RgBlk	pCi/L		-0.20	3	
			LRS	pCi/L	12.42	70.3 %	65-108	
			BS	pCi/L	12.42	79.4 %	75-125	
			BSD	pCi/L	12.42	94.6 %	75-125	
			BSRPD	pCi/L	12.42	1.9	≤3	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
BS : Blank Spikes - A blank is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.
BSD : Blank Spike Duplicate of BS/BSD pair - A blank duplicate is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.
BSRPD : BS/BSD Relative Percent Difference (RPD) - The BS relative percent difference is an indication of precision for the preparation and analysis.
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
LRS : Laboratory Recovery Standard - Prepared to establish the batch recovery factor used in result calculations.
MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyted. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
ND : Non-detect - Result was below the DQO listed for the analyte.
RgBlk : Method Reagent Blank - Prepared to correct for any reagent contributions to sample result.

Explanation

436 : Blank Spike (BS) not within Acceptance Range (AR). Data was accepted based on the LCS or CCV recovery.

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

October 10, 2022

Pat-Chem Laboratories

Lab No. : SP 2212141
Customer No. : 2012670

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Perchlorate	314.0	08/04/2022:208822SBL	RgBlk	ug/L		0.00	2	436
			LCS	ug/L	25.00	108 %	85-115	
			MS	ug/L	25.00	85.6 %	80-120	
		(VI 2245678-001)	MSD	ug/L	25.00	85.1 %	80-120	
			MSRPD	ug/L	25.00	0.6%	≤15	

Definition

LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.

MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyted. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.

RgBlk : Method Reagent Blank - Prepared to correct for any reagent contributions to sample result.

Explanation

436 : Blank Spike (BS) not within Acceptance Range (AR). Data was accepted based on the LCS or CCV recovery.

Page 5 of 5

SUBCONTRACT ORDER

Pat-Chem Laboratories

22G0592 2212141

SENDING LABORATORY:

Pat-Chem Laboratories
1824 First Street
San Fernando, CA 91340
Phone: 818-639-5300
Fax: 818-639-5306
Project Manager: Stephen Berentsen

RECEIVING LABORATORY:

Fruit Growers - FGL
853 Corporation Street
Santa Paula, CA 93060
Phone :(805) 525-3824
Fax: (805) 525-4172

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 22G0592-01	**Water**	**Sampled:26-Jul-22 10:00**		**Wastewater/IPC [MCC] EFF-Quarterly**
Tritium (Sub)	10-Aug-22 12:00	28-Jul-22 10:00		
Sr-90 (Strontium 90) (Sub)	10-Aug-22 12:00	22-Jan-23 10:00		
Radium 226 228 (Sub)	10-Aug-22 12:00	22-Jan-23 10:00		
Perchlorate 314.0 (Sub)	10-Aug-22 12:00	23-Aug-22 10:00		
Gross beta SUB	10-Aug-22 12:00	22-Jan-23 10:00		
Gross alpha SUB	10-Aug-22 12:00	22-Jan-23 10:00		
Containers Supplied:				

JUL 27 2022 7:30Am

Released By	Date	Received By	Date
	7/27/22 14:30	MC	7/27/22 14:30
Released By	Date	Received By	Date

ROI 4

ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

Subcontract to Eberline Analytical

CHAIN OF CUSTODY
AND ANALYSES REQUEST FORM

Chain of Custody Information

Lab Number:

Client: Fruit Growers Laboratory
Address: 853 Corporation St.
Santa Paula, CA 93060-3005

Phone: Fax:
Contact:
Project: **SP 2212141**
Purchase Order:

Sampler(s): N/A

Compositor Setup Date: Time:

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite (C) Grab(G)	Type of Sample	Potable(P) Non-Potable(NP) Ag Waiver (AgW)	Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)	Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)	Test Description(s): Sub Contracted-Strontium 90 250 ml(AGT)								
1	22G0592-01	07/26/2022	10:00	G	W				1								

Remarks

Relinquished	Date	Time	Relinquished	Date	Time	Relinquished	Date	Time
Received By:	Date	Time	Received By:	Date	Time	Received By:	Date	Time

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

Condition Upon Receipt (Attach to COC) SP 2212141

Sample Receipt at SP:

1. Number of ice chests/packages received: **OTC**
2. Shipper tracking numbers _____
3. Were samples received in a chilled condition?
   Temps: **ROI** / **4C** / _____ / _____ / _____ / _____ / _____

4. Surface water (SWTR) bact samples: A sample that has a temperature upon receipt of >10C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

5. Do the number of bottles received agree with the COC?	**Yes**	**No**	**N/A**
6. Verify sample date, time, sampler	**Yes**	**No**	**N/A**
7. Were the samples received intact? (i.e. no broken bottles, leaks, etc.)	**Yes**	**No**	
8. Were sample custody seals intact?	**Yes**	**No**	**N/A**

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable?	**Yes**	**No**		
2. Did bottle labels correspond with the client's ID's?	**Yes**	**No**		
3. Were all bottles requiring sample preservation properly preserved? [Exception: Oil & Grease, VOA and CrVI verified in lab]	**Yes**	**No**	**N/A**	**FGL**
4. VOAs checked for Headspace?	**Yes**	**No**	**N/A**	
5. Were all analyses within holding times at time of receipt?	**Yes**	**No**		
6. Have rush or project due dates been checked and accepted?	**Yes**	**No**	**N/A**	

Include a copy of the COC for lab delivery. (Bacti. Inorganics and Radio)

Sample Receipt, Login and Verification completed by: Reviewed and Approved By **Matthew Casas** Digitally signed by Matthew Casas Title: Sample Receiving Date: 07/27/2022-16:05:24

Discrepency Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: _____ Phone Number: _____
   Initiated By: _____ Date: _____
   Problem:

   Resolution:

2. Person Contacted: _____ Phone Number: _____
   Initiated By: _____ Date: _____
   Problem:

   Resolution:

(2012670)
Pat-Chem Laboratories
SP 2212141
MDC-07/27/2022-16:05:24

INTEGRATED PERFORMANCE CONSULTANTS

202207 MCC ONM Report

Period: 07/01/2022 - 07/31/2022

Date	Name	Job	Task	Notes
07/01/2022	CEA	MCC-MOM	OPR-WTO	Plant operations checked. Monitored Bluff's park irrigation cycle completed. Bluff's, Legacy park, and IW2 checked - normal. With KTV, reviewed A Ratio and EQT levels in preparation for IW2 backwashing.
07/01/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/01/2022	JAA	MCC-MOM	CMT-GLB	With CEA disable, locked, and tag the motor in preparation for the painting of the unit.
07/01/2022	JAA	MCC-MOM	CMT-GLB	Started to paint the motor.
07/01/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/01/2022	GXK	MCC-MOM	CON-GLB	I stopped at Home Depot to get a low voltage in-wall box, cover, and two ethernet jacks for the HP communication cables Termination in the lab. I also got drywall repair tools and materials to seal the holes under the counter and liquid-tight cord glands for the outside termination of the conduits.
07/01/2022	CEA	MCC-MOM	CMT-GLB	Job briefing with JAA disabled motor, and hang LOTO for maintenance. Disassembling motor for painting. Job briefing with JAA disabled motor, and hang LOTO for maintenance. Disassembling motor for painting.
07/01/2022	CEA	MCC-MOM	OPR-WTO	Membrane process and tank levels check, flushed tanks outfall and RAS lines with high-pressure plant water.
07/01/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/01/2022	JAA	MCC-MOM	CMT-GLB	Painting motor unit. Cleaning area of work. Remove locks and tags. CEA test motor units.
07/01/2022	CEA	MCC-MOM	SAM-WTO	Plant effluent quality check - OK. Collect plant daily Effluent compliance samples for lab analysis, and set up a cooler for PCL pick up. Reviewed sampling sign sheet, verify COC completed, and updated missing data.
07/01/2022	CEA	MCC-MOM	OPR-WTO	UV process check, change UV trains priority, discussed with GXK UV trains performance and cleaning.
07/01/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/01/2022	CEA	MCC-MOM	OPR-WTO	MBT process check, production - normal
07/01/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/01/2022	CEA	MCC-MOM	CMT-GLB	Motor maintenance paint restores completed, Removed LOTO, and test- okay, unit back in service. Motor maintenance paint restores completed, Removed LOTO, test- okay, and put it back in service.
07/01/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/01/2022	GXK	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/02/2022	JAA	MCC-MOM	SAM-WTO	Performed pH and EC tests after calibrating the probe. Collected daily samples. Filed COCs into corresponding files.
07/02/2022	GXK	MCC-MOM	OPR-WTO	Logged in remotely. Checked plant functions OK. Inspected trends are normal. Reviewed logbook, sampling logs, and process logs.
07/02/2022	GXK	MCC-MOM	OPR-WTO	Logged in remotely. Checked plant functions OK. Inspected trends are normal.
07/03/2022	EDM	MCC-MOM	SAM-WTO	Took daily EFF samples and prepared sample paperwork for lab pick-up.
07/03/2022	GXK	MCC-MOM	OPR-WTO	Logged in remotely. Checked plant functions OK. Inspected trends are normal. Reviewed logbook, sampling logs, and process logs.
07/03/2022	GXK	MCC-MOM	OPR-WTO	Logged in remotely. Checked plant functions OK. Inspected trends are normal. Reviewed logbook, sampling logs, and process logs.
07/04/2022	EDM	MCC-MOM	SAM-WTO	Took daily EFF samples and prepared sample paperwork for lab pick-up.

INTEGRATED PERFORMANCE CONSULTANTS

202207 MCC ONM Report

Period: 07/01/2022 - 07/31/2022

Date	Name	Job	Task	Notes
07/04/2022	GXK	MCC-MOM	OPR-WTO	Logged in remotely. Checked plant functions OK. Inspected trends are normal. Reviewed logbook, sampling logs, and process logs.
07/04/2022	RRV	MCC-MOM	OPR-WTO	2340 Alarm: EQ Tank Insufficient Pump Up. The alarm occurred after a PDPS cycle. No problem found.
07/05/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Increased P8130 multiplier from 0.09 to 0.1 due to low chlorine residual trend. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails.
07/05/2022	EDM	MCC-MOM	SAM-WTO	Took Weekly A + daily EFF samples and prepared sample paperwork for lab pick-up.
07/05/2022	EDM	MCC-MOM	SAM-WTO	Composite sampler clean up and prep.
07/06/2022	KTV	MCC-MOM	OPR-WTO	On arrival, manually rotated all equipment on MCC-2B to MCC-2A so that I can shut down and remove the bucket for B-7120. Put SC-2310 in service and took SC-2101 and ME-2210 out of service. Disabled nuisance alarms.
07/06/2022	KTV	MCC-MOM	CMT-ELT	Shut down power to MCC-2B and verified that MCC-2A and all PLC cabinets were functional. Started labeling and removing wires from B-7120.
07/06/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Review recent DigAlerts emails.
07/06/2022	KTV	MCC-MOM	CMT-ELT	Labeled and removed all wires between PLC and bucket. Removed bucket and set up in the lab for new VFD installation.
07/06/2022	GXK	MCC-MOM	OPR-WTO	Organized and clean the lab. Inspected KTV's work on the B7120 bucket.
07/06/2022	EDM	MCC-MOM	SAM-WTO	Took daily, weekly B EFF, and weekly INF samples and prepared sample paperwork for lab pick-up.
07/06/2022	KTV	MCC-MOM	CMT-ELT	Compare wiring diagrams between the new VFD and old VFD. Labeled wires and removed old VFD.
07/06/2022	KTV	MCC-MOM	OPR-WTO	Closed breaker for MCC-2B and restarted all MCC-2B equipment. Left weekly lead/lag equipment rotation in position 1.
07/06/2022	EDM	MCC-MOM	SAM-WTO	Composite bottle sterilization and composite sampler prep
07/07/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. I noticed MBT was still offline since yesterday's electrical work by KTV. Cleared with KTV about the electrical work status. Restarted the MBT production. Increased P8140 multiplier from 0.09 to 0.1 due to low chlorine residual. Cleared the residual alarm indicators from yesterday's electrical work. Review recent DigAlerts emails.
07/07/2022	DFH	MCC-MOM	GMT-AUT	Washed Vactor.
07/07/2022	KTV	MCC-MOM	SAM-WTO	Took daily effluent samples and left for courier pick up.
07/08/2022	CEA	MCC-MOM	OPR-WTO	Plant operations and Eff quality checks, reviewed data trends. Observed Bluff park irrigation cycle completed. Bluff and Legacy park pumping stations, and IW2 checks.
07/08/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/08/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/08/2022	CEA	MCC-MOM	CMT-INT	Verify Cl17 readings 2.67mg/L vs 2.72mgL. Lab Hach. Decreased UV multiplier from 0.10 to 0.09.
07/08/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails.

INTEGRATED PERFORMANCE CONSULTANTS

202207 MCC ONM Report

Period: 07/01/2022 - 07/31/2022

Date	Name	Job	Task	Notes
07/08/2022	DFH	MCC-MOM	GMT-DIG	Reviewing digalerts and uploading pictures and data.
07/08/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/08/2022	CEA	MCC-MOM	SAM-WTO	Collect Eff daily samples for lab analysis and set up a cooler for courier pick up.
07/08/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/08/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/08/2022	CEA	MCC-MOM	OPR-WTO	Electrical room 4000 equipment check and housekeeping. Membrane tank levels check and flushed RAS lines were with high-pressure plant water. Upper and lower odor control bed checks. MBT operations and equipment checks.
07/08/2022	GXK	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/08/2022	GXK	MCC-MOM	CON-GLB	Installed the new communication cables outlet next to the lab PLC. Looked into the expansion of the TSS analysis vacuum pump output so we can run multiple filtrations at the same time.
07/08/2022	GXK	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/09/2022	JAA	MCC-MOM	SAM-WTO	Perform pH and EC tests after calibrating the probe. Collect daily samples Iced and storage. File COCs into corresponding files.
07/10/2022	EDM	MCC-MOM	SAM-WTO	Took daily EFF samples and prepared sample paperwork for lab pick-up.
07/11/2022	CEA	MCC-MOM	OPR-WTO	Inspect Bioreactor #2 aeration process tanks, slurry Post-Anox Basin #1, verify mixers operations, and Deoxygenation pump recirc flow.
07/11/2022	DFH	MCC-MOM	SAM-WTO	Collect daily EFF samples and test permeate samples for pH and EC.
07/11/2022	CEA	MCC-MOM	OPR-WTO	Headworks and MBT operations checks. SC-2310 removed solids compactor trash. Collect BIO#2 and MBT MLSS samples for GXK.
07/11/2022	DFH	MCC-MOM	GMT-AUT	DFH truck wash.
07/11/2022	CEA	MCC-MOM	CMT-GLB	LAHH - 3251 Post Anox HH float: while troubleshooting float a breaker tripped on PLC3 leading to PLC3 equipment shutdown. KTV and GXK investigated the issue; KTV found a breaker tripped, reset the breaker, and restarted the equipment. Verified affected equipment is back in service and running normally. Resumed production and monitored MBR1 Eff quality high turbidity during start-up.
07/11/2022	DFH	MCC-MOM	CMT-GLB	Finish painting UV piping with primer.
07/11/2022	KTV	MCC-MOM	GEN-ADM	Reviewed missing equipment in the maintenance database. Created an updated list and sent it to DXP for mass updating the items directly to the database.
07/11/2022	DFH	MCC-MOM	GMT-DIG	Dig alert B221880918 found 2 areas of conflict and marked them accordingly.
07/11/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/11/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/11/2022	KTV	MCC-MOM	GEN-ADM	Reviewed collections system maintenance training status and effectiveness. Started the planning phase I complete the system cleaning schedule for the beginning of next year.
07/11/2022	DFH	MCC-MOM	GMT-DIG	Dig alert A221890750, 1 possible conflict near LFM-37 but majority of work seems to be in the driveway on Malibu Colony Road. Dig Alert B221780054, possible conflict on South East corner of the road but I'm unable to tell if markings are current or from previously completed work. Marked all SS, FO, and RW lines just in case.
07/11/2022	CEA	MCC-MOM	OPR-WTO	Plant operations checked, and reviewed process data trends. Bluff's, Legacy park, and IW2 checked.

INTEGRATED PERFORMANCE CONSULTANTS

202207 MCC ONM Report

Period: 07/01/2022 - 07/31/2022

Date	Name	Job	Task	Notes
07/11/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails. Got a report from CEA that the BIO2 Post Anox floats are not working. Later got a report that the BIO mixers were not running. KTV and I inspected the logic before resetting things. We found the plant power switch bit was off in the logic. We inspected the plant switch gear and it was online. We inspected the power switch bit input in PLC 3 and found the entire DI module was off. We discovered the CB that fed it was tripped. Once we reset the CB, power resumed and the plant power switch bit cleared. This DI module also house the Post Anox floats input so CEA probably tripped it while troubleshooting the floats. While restarting the equipment we also noticed the lower RW pumps were both running at 100%. Inspection of the logic revealed the PID loop was slow to ramp down. With manually controlled the pumps and brought the SP back to the normal range before switching it back to Auto controlled by the PID loop.
07/11/2022	CEA	MCC-MOM	PMT-INT	Completed equipment calibrations.
07/11/2022	CEA	MCC-MOM	CMT-GLB	LAHH-3251 Post Anox basin #2 HH Float exercise and test, no status change on SCADA. Checked electrical connections and verified 24 VDC volts of power.
07/12/2022	MAA	MCC-MOM	OPR-WTO	SCADA review, EQ smoothing review with KTV.
07/12/2022	KTV	MCC-MOM	OPR-WTO	SCADA and trend check and trained with MAA. The system status overall is good.
07/12/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails. Increased wasting to 2000 GPD by increasing MBT FLTPs from 30 to 50% run time. Schedule 10K gal hauling total between tomorrow and Thursday. Installed the splitter fittings on the TSS analysis vacuum pump.
07/12/2022	MAA	MCC-MOM	OPR-TRN	Reviewed trends with KTV.
07/12/2022	MAA	MCC-MOM	SAM-WTO	Collected weekly, daily and monthly EFF samples. Process samples.
07/12/2022	GXK	MCC-MOM	OPR-WTO	Collected fresh BIO2 and MBT ML samples and run TSS analysis. Continue working on the communication conduit between the HP system and the lab PLC. With MAA's help, we pulled two CAT6 ethernet cables.
07/12/2022	KTV	MCC-MOM	CMT-ELT	Drilled, tapped, and installed new VFD in the bucket.
07/12/2022	MAA	MCC-MOM	CON-GLB	With GXK; ran ethernet cables through the conduit at the hydropneumatic slab.
07/12/2022	DFH	MCC-MOM	GEN-TRV	Drop off MX-3130 to Pump Man for repair.
07/12/2022	KTV	MCC-MOM	CMT-ELT	Wired VFD and reassembled bucket. Planned installation for next Thursday.
07/12/2022	GXK	MCC-MOM	CON-ELT	Continue working on the communication conduit between the HP system and the lab PLC. With MAA's help, we pulled two CAT6 ethernet cables. Started terminating the cables in the lab.
07/12/2022	MAA	MCC-MOM	CON-GLB	Backfilled trenches for conduit around hydropneumatic slab.
07/13/2022	CEA	MCC-MOM	OPR-WTO	Plant operations checked. Observed Bluff's Park irrigation cycle completed. Bluff's, Legacy park, and IW2 checked.
07/13/2022	CEA	MCC-MOM	SAM-WTO	Cleaned and organized lab equipment. Reviewed MLSS results.

INTEGRATED PERFORMANCE CONSULTANTS

202207 MCC ONM Report

Period: 07/01/2022 - 07/31/2022

Date	Name	Job	Task	Notes
07/13/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails. Continued with the ethernet cable termination in the lab PLC.
07/13/2022	CEA	MCC-MOM	OPR-WTO	MBT process check, disabled wasting by turning OFF MOV-4700, and monitored EJP crew 2500 gallons waste activate sludge haul.
07/13/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/13/2022	DFH	MCC-MOM	GMT-DIG	Uploaded photos to DigAlert folders.
07/13/2022	CEA	MCC-MOM	SAM-WTO	Collected weekly B, Inf weekly, and daily samples for lab analysis. Prepared cooler for courier pick up.
07/13/2022	DFH	MCC-MOM	PMT-GLB	Hauled 5,000 gallons from Solids Storage Tank.
07/14/2022	DFH	MCC-MOM	OPR-WTO	With KTV, reviewed the task list for the day. Scada plant operation check, review trends, and logs. With KTV, review scada, EQ smoothing, SST hauling, and DO in aeration basin 3.
07/14/2022	KTV	MCC-MOM	OPR-WTO	Reviewed today's to-do list with DFH. Hung LOTO on SC-2310 and PV-2311 to accommodate gasket installation.
07/14/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails.
07/14/2022	DFH	MCC-MOM	PMT-GLB	Hauled 5,000 gallons from Solids Storage Tank.
07/14/2022	DFH	MCC-MOM	OPR-WTO	Plant walk, inspected chemical storage, odor control, UV system, upper blower rooms, MBT, headworks, and electrical rooms. Found the 2000 electrical room mini split HVAC unit not functioning with an error code of P2. Inspected unit for blockage around fan and condenser but found none. Will inform GXK of the findings to further troubleshoot.
07/14/2022	DFH	MCC-MOM	SAM-WTO	Collect daily EFF sample and tested permeate sample for pH, EC, NH3, NO2, NO3, and Alk.
07/14/2022	KTV	MCC-MOM	OPR-WTO	Started planning total collections system maintenance schedule, and reuse system maintenance.
07/14/2022	DFH	MCC-MOM	CMT-GLB	Continued painting UV piping.
07/14/2022	DFH	MCC-MOM	CMT-GLB	With GXK, reset the HVAC unit at 2000 electrical room. Inspected 4000 main electrical room HVAC unit which was also on a P2 fault. Cycled power and tested, okay.
07/15/2022	KTV	MCC-MOM	OPR-WTO	Collections system review and maintenance planning. Started drafting complete system procedures. Created an equipment location sheet for identifying the specific locations of all MH, HH, FIT, and valves in order to make the map more accurate.
07/15/2022	CEA	MCC-MOM	OPR-WTO	Plant operations and process data trends reviewed. Bluff's, Legacy park, and IW2 checked.
07/15/2022	CEA	MCC-MOM	OPR-WTO	MBT process checked. Inspected upper and lower odor control bed. Storage bay 1-2 organizing with JAA.
07/15/2022	KTV	MCC-MOM	OPR-WTO	Continued collections system procedures. Created a checklist and started drafting inspection procedures. Assisted DXP with restoring VPN onsite.
07/15/2022	JAA	MCC-MOM	GMT-HSK	Cleaned and organized storage.
07/15/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/15/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Review recent DigAlerts emails.

INTEGRATED PERFORMANCE CONSULTANTS

202207 MCC ONM Report

Period: 07/01/2022 - 07/31/2022

Date	Name	Job	Task	Notes
07/15/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/15/2022	JAA	MCC-MOM	SAM-WTO	Performed pH and EC tests after calibrating the probe. Collected daily samples.
07/15/2022	KTV	MCC-MOM	OPR-WTO	Continued Inspection procedures for collections system maintenance.
07/15/2022	JAA	MCC-MOM	OPR-WTO	Discussed with KTV how to collect location information of all the collections and distribution system equipment to make the map more accurate.
07/16/2022	CEA	MCC-MOM	OPR-WTO	Monitored plant operations. Bluff's, Legacy park, and IW2 checked - normal.
07/16/2022	JAA	MCC-MOM	SAM-WTO	Performed pH and EC test after calibrating the probe. Collected daily samples.
07/17/2022	CEA	MCC-MOM	OPR-WTO	Monitored plant operations. Bluff's, Legacy park, and IW2 checked - normal.
07/17/2022	EDM	MCC-MOM	SAM-WTO	Took daily EFF samples and prepared sample paperwork for lab pick-up.
07/18/2022	KTV	MCC-MOM	OPR-WTO	Morning scheduling. Organized and responded to emails. Time entry review.
07/18/2022	CEA	MCC-MOM	OPR-WTO	Plant process and data trends reviewed. Bluff's, Legacy park, and IW2 checked - normal. Reviewed lab samples results, and updated the logbook. Made plant routine rounds.
07/18/2022	KTV	MCC-MOM	OPR-WTO	Continued collections system inspection procedures.
07/18/2022	DFH	MCC-MOM	OPR-WTO	Plant operation checked. Reviewed level, trends, and logs.
07/18/2022	KTV	MCC-MOM	OPR-WTO	Planned basic collections system calendar based on current procedures status.
07/18/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/18/2022	DFH	MCC-MOM	CMT-GLB	Picked up paint brushes and started painting UV Piping.
07/18/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails.
07/18/2022	CEA	MCC-MOM	PMT-INT	Completed equipment calibrations.
07/18/2022	KTV	MCC-MOM	OPR-WTO	Finished the first draft of collections system inspection procedures.
07/18/2022	CEA	MCC-MOM	OPR-WTO	MBT process check, solids storage tank running at normal operating levels, purged P75X0 and resumed production. Headworks operations checks, SC-2320 inspection, removed solids compactor chute trash. Coarse screen check, removed solids compactor chute trash.
07/18/2022	DFH	MCC-MOM	SAM-WTO	Collect daily EFF samples and test permeate samples for pH and EC.
07/18/2022	KTV	MCC-MOM	OPR-WTO	Finished draft of collections system jetter procedures.
07/19/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Reduced P8140 multiplier from 0.1 to 0.09 due to elevated chlorine residual. Increased Daily wasting SP from 2000 to 3000 GPD to allow for higher MBT level. Rotated UV2 out and UV1 in. Plant walk inspected headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails.
07/19/2022	KTV	MCC-MOM	OPR-WTO	Finished draft of collections system calendar, including jetscan inspection of all lines longer than 300 feet.
07/19/2022	EDM	MCC-MOM	SAM-WTO	Took MCC A group process and effluent samples + daily EFF samples and prepared sample paperwork for lab pick-up.

INTEGRATED PERFORMANCE CONSULTANTS

202207 MCC ONM Report

Period: 07/01/2022 - 07/31/2022

Date	Name	Job	Task	Notes
07/19/2022	RRV	MCC-MOM	OPR-WTO	2128 Alarm: Influent Wetwell Level LoLo. Analog level is normal, with a normal trend, indicating a problem with the redundant LoLo level float switch. Disabled LALL-1105 on SCADA to prevent nuisance alarm. Verified that analog high and low-level alarm logic is parallel to the redundant HiHi and LoLo floats, so we will still get an alarm in the event of a high or low analog level. Please check the LoLo float switch in the morning. Left alarm telltale active on SCADA so this is not overlooked.
07/20/2022	CEA	MCC-MOM	OPR-WTO	Plant operations check, and verify EQT levels are normal in preparation for IW2 backwashing. Bluff and Legacy park, IW2 checks - okay.
07/20/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails. Completed TSS analysis, and worked on the utility room lock.
07/20/2022	KTV	MCC-MOM	OPR-WTO	Started drafting scheduled procedures for collections system maintenance.
07/20/2022	EDM	MCC-MOM	SAM-WTO	Took daily EFF samples and B set composite samples, and prepared sample paperwork for lab pick-up. Assisted driver at sample lockbox.
07/20/2022	CEA	MCC-MOM	OPR-WTO	Membrane tanks check, flushed discharge lines, RAS, and WAS lines with high-pressure plant water.
07/20/2022	CEA	MCC-MOM	CMT-ELT	Low-Level float alarm condition on the previous night, removed and troubleshooting float mechanically floats tested - okay but not showing actual condition on SCADA.
07/20/2022	CEA	MCC-MOM	CMT-ELT	Continued to troubleshoot the Low-Level redundancy float, check electrical connections at the splice box, and check the contact relay at MCC, discussed float issue with GXK and he will continue to troubleshoot the process.
07/20/2022	EDM	MCC-MOM	SAM-WTO	Cleaned sampling bottles
07/21/2022	DFH	MCC-MOM	OPR-WTO	With KTV and MAA, trained on rotating equipment that is on MCC-2B. Rotated P-1120, SC-2101, ME-2220, SC-2320, EF-9320, and P-7520 out of rotation.
07/21/2022	MAA	MCC-MOM	OPR-WTO	With KTV and DFH trained on rotating equipment that is on MCC-2B. Rotated P-1120, SC-2101, ME-2220, SC-2320, EF-9320, and P-7520 out of rotation.
07/21/2022	KTV	MCC-MOM	OPR-WTO	Prepared for B-7120 bucket installation. Trained MAA and DFH on safe and orderly equipment rotation and shutdown procedures for all equipment connected to MCC-2B.
07/21/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails.
07/21/2022	DFH	MCC-MOM	CMT-GLB	Continued to paint UV piping.
07/21/2022	MAA	MCC-MOM	CMT-GLB	Drained rotary drum screen. Removed caulking around cover and cleaned lid for seal replacement.
07/21/2022	KTV	MCC-MOM	CMT-ELT	Opened breaker for MCC-2B and installed VFD and line reactor buckets.
07/21/2022	KTV	MCC-MOM	CMT-ELT	Investigated PLC2 wiring to determine the cause of low-level alarm. Found no issues with PLC wiring or relays. Resistance on the normally open circuit was ~500 k ohms at the intrinsically safe relay. Checked normally open resistance at the J-Box at ~400 k ohms. This indicates float failure and will need to be replaced with the onsite spare. Finished bucket installation and wiring. Delaying testing until confirming the condition and valve status of B-7120.

INTEGRATED PERFORMANCE CONSULTANTS

202207 MCC ONM Report

Period: 07/01/2022 - 07/31/2022

Date	Name	Job	Task	Notes
07/21/2022	MAA	MCC-MOM	OPR-WTO	With KTV valved and placed vortex grit chamber back operation.
07/21/2022	DFH	MCC-MOM	SAM-WTO	Collect daily EFF sample.
07/21/2022	MAA	MCC-MOM	CMT-GLB	Added seal/gasket and re-installed cover. Cleaned up area.
07/21/2022	MAA	MCC-MOM	OPR-WTO	Walked through IPS LSLL power circuit with KVT for troubleshooting and testing float.
07/21/2022	KTV	MCC-MOM	OPR-WTO	Disabled LAHH-1105 on SCADA and reviewed float wiring and troubleshooting steps with MAA so that he can fully test and replaced the low float. Verified float tested functional after installation.
07/21/2022	MAA	MCC-MOM	CMT-INT	Tested float; test indicates moisture or water in float and needs replacement. With GXK; replaced float. Re-organized wiring of floats. Tested float; Alarm status active when float tipped dry.
07/21/2022	DFH	MCC-MOM	SAM-WTO	Collected permeate samples and tested for pH, EC, NH3, NO2, NO3, Alk, and Cl2.
07/22/2022	CEA	MCC-MOM	OPR-WTO	Plant operations checked. Bluff's, Legacy park, and IW2 checked. Observed Bluff's park irrigation cycle completed. Plant routine rounds.
07/22/2022	JAA	MCC-MOM	OPR-GLB	Started to collect information and location of the collective systems equipment.
07/22/2022	CEA	MCC-MOM	OPR-WTO	Check with KTV on the status of the MBT process, MBT is okay to resume production. Purged P-73X0 and resumed filtration, monitored pump performance and filtration flow rate. Headworks: SC-2302 inspection - okay, rinse fine screen, and removed solids chute trash. Coarse screen check, removed solids compactor trash. Upper and lower odor control bed checks- normal.
07/22/2022	KTV	MCC-MOM	PRG-PLC	Continued PLC_4 program review and notes.
07/22/2022	JAA	MCC-MOM	OPR-GLB	Continued to collect information and location of the collective systems.
07/22/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Review recent DigAlerts emails.
07/22/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/22/2022	JAA	MCC-MOM	OPR-GLB	Continued to collect information and location of the collective systems. Reported progress and findings to KTV.
07/22/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/23/2022	BLV	MCC-MOM	GMT-JAN	Sprayed pest control due to ants, and cleaned mcc bathroom.
07/23/2022	GXK	MCC-MOM	OPR-WTO	Logged in remotely. Checked plant functions OK. Inspected trends are normal. Reviewed logbook, sampling logs, and process logs. Rotated UV1 in and UV3 out. Adjusted P8140 multiplier due to high residual.
07/23/2022	JAA	MCC-MOM	SAM-WTO	Perform pH and EC tests. Collect daily samples Iced and storage.
07/24/2022	GXK	MCC-MOM	OPR-WTO	Logged in remotely. Checked plant functions OK. Inspected trends are normal. Reviewed logbook, sampling logs, and process logs. Noticed wasting is not happening. MOV4700 is opening, but there is no flow. I opened MOV4700 to 100% open a couple of times but no flow was observed. The line must be clogged with sludge and will need to be flushed with pressurized plant water on Monday.
07/24/2022	EDM	MCC-MOM	SAM-WTO	Took daily EFF samples and prepared sample paperwork for lab pick-up.
07/25/2022	CEA	MCC-MOM	OPR-WTO	Plant operations checked and reviewed process data. Trends revealed a blockage in WAS line - MBT is still in production mode but SST is running low at 15.3 ft. Effluent quality check UVT analyzer readings 67.8% vs lab Hach 67.7%. Eff pre-UV cl2 residual 0.18 mg/l. Reviewed logbook activity and lab sample results. Attempted to connect to MBR HMI screen with no success - per KTV instructions reset screen and reestablished the remote connection.

INTEGRATED PERFORMANCE CONSULTANTS

202207 MCC ONM Report

Period: 07/01/2022 - 07/31/2022

Date	Name	Job	Task	Notes
07/25/2022	DFH	MCC-MOM	OPR-WTO	Plant operation check, levels trends, and logs. Reviewed weekend flow and current DO in AB3 with KTV.
07/25/2022	CEA	MCC-MOM	CMT-GLB	Exercise MOV-4700, valve open all the way flow ~30 GPM confirming WAS line partially plugged. Shut down MBR production and set up the valving configuration to flush the line with high-pressure plant water. Successfully cleared the line stoppage and resumed wasting at the normal rate.
07/25/2022	KTV	MCC-MOM	OPR-WTO	With DFH, reviewed system performance. Note low DO in BIO2 AB3. Reviewed trends and compliance data. Low DO appears to be normally related to an increased weekend load and should recover today.
07/25/2022	DFH	MCC-MOM	GMT-DIG	Review of Dig Alert B222030015, no conflict found.
07/25/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/25/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/25/2022	CEA	MCC-MOM	CMT-GLB	Pump tested - okay, manually ran speed at 55 Hz verify discharge flow rate ~ 600 gpm.
07/25/2022	DFH	MCC-MOM	OPR-WTO	Collecting geolocation of collection manholes, fiber hand holes, and reuse meters.
07/25/2022	CEA	MCC-MOM	CMT-GLB	P-12X0 manually ran and confirm discharge flow at the bioreactor.
07/25/2022	CEA	MCC-MOM	OPR-WTO	Completed flushing WAS and RAS lines (bioreactors 1 and 2) with high-pressure plant water. Reverse valving positions, verify bioreactor levels, enabled MBR, and resumed filtration. Monitored process tank levels and Eff quality.
07/25/2022	GXK	MCC-MOM	OPR-WTO	Logged in remotely. Checked plant functions OK. Inspected trends are normal. Reviewed logbook, sampling logs, and process logs.
07/25/2022	DFH	MCC-MOM	SAM-WTO	Collect daily EFF samples, tested permeate samples for pH and EC and inventoried sampling bottles.
07/25/2022	CEA	MCC-MOM	OPR-WTO	Observed UV trains performance, UV dose dropped close to the lowest Eff permit limit set point of 80 mJ/cm2. Started UV trains CIP.
07/25/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/25/2022	DFH	MCC-MOM	OPR-WTO	Continued collecting location data for manholes, fiber hand holes, and reuse meters.
07/25/2022	CEA	MCC-MOM	OPR-WTO	Headworks and MBT process checks: SC-2310 unit check- normal, removed solids compactor trash. P-7310 purged the lines and resumed filtration, observed pump performance.
07/25/2022	DFH	MCC-MOM	OPR-WTO	Continued locating collection manholes, air vents, reuse meters, and fiber hand holes.
07/25/2022	CEA	MCC-MOM	OPR-WTO	Monitoring MBR1 maintenance clean completed, manually swapped trains production, and resumed MBR#1 filtration while observing Eff quality (turbidity and UVT). Confirmed AIT-5100 readings 67.7% vs Lab DR6000 68%.
07/25/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/26/2022	MAA	MCC-MOM	SAM-WTO	Collected quarterly EFF samples, iced and stored at pick up location.
07/26/2022	MAA	MCC-MOM	SAM-WTO	Collected weekly EFF-A samples, daily EFF samples, and weekly process samples. Iced and stored at the pick-up location.
07/26/2022	GXK	MCC-MOM	CON-ELT	Completed the termination of the CAT6 cables in the lab PLC. Patched the drywall penetrations we made under the counter.
07/26/2022	MAA	MCC-MOM	GMT-HSK	Lab clean up. Stored miscellaneous items at bay 1.
07/26/2022	MAA	MCC-MOM	CON-ELT	With GXK; made ethernet cable and connected at a panel for remote access to hydropneumatic tanks.

INTEGRATED PERFORMANCE CONSULTANTS

202207 MCC ONM Report

Period: 07/01/2022 - 07/31/2022

Date	Name	Job	Task	Notes
07/26/2022	MAA	MCC-MOM	OPR-WTO	With GXK's supervision throttled grit chamber fluidization valve to achieve ~2gpm flow. Began testing sprinkler flow rates and updated Sprinkler Usage Sheet. Tested Zones 7-19. NOTE: Zones highlighted and marked "C" on the Iso Valve column need verification as on several zones controller signal did not go though on the first attempt. The valve may be closed but there's a possibility controller signal was not made.
07/27/2022	CEA	MCC-MOM	OPR-WTO	Plant operations checked. Verified EQ level running low in preparation for IW2 maintenance. Observed Bluff's park irrigation cycle completed. Bluff's, Legacy park, and IW2 checked - normal.
07/27/2022	CEA	MCC-MOM	CMT-GLB	Headworks process check, solids storage tank showing high-level float active, LSHH-7005 float test- okay, measure tank actual level 16.2 ft. level xmitter vs 16.0 ft. xmitter test- okay, readjusted transmitter position to match the actual level of 16.0 ft. high-level condition corrected.
07/27/2022	EDM	MCC-MOM	SAM-WTO	Took Weekly B set samples and daily EFF samples and prepared sample paperwork for lab pick-up.
07/27/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Reduced P8140 multiplier from 0.13 to 0.1 due to residual on target and trending up. Review recent DigAlerts emails.
07/27/2022	EDM	MCC-MOM	GMT-HSK	7000 SST, rinsed disinfected, and cleaned the podium of cake & sludge.
07/27/2022	CEA	MCC-MOM	OPR-WTO	Observed MBR1 maintenance clean. Monitored effluent UVT and UV performance.
07/27/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/27/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/28/2022	MAA	MCC-MOM	OPR-WTO	Plant check; ok. Noticed a dramatic EQ level increase yesterday ~8 am. Reviewed logs; level increase due to IW2 maintenance. Continued sprinkler usage readings.
07/28/2022	DFH	MCC-MOM	OPR-WTO	Plant operations check review level, trends, log, and lab sampling data. Plant walk, inspected chemical storage, odor control, UV system, upper blower rooms, MBT, headworks, and electrical rooms. Power cycled AC units in 2000 and 4000 electrical rooms.
07/28/2022	MAA	MCC-MOM	OPR-WTO	With KTV. Reviewed EQ smoothing and level trends comparing increased flow due to IW2 maintenance and normal weekend flow.
07/28/2022	DFH	MCC-MOM	CMT-GLB	Mounted the fire extinguisher adjacent to headworks on the exterior side.
07/28/2022	MAA	MCC-MOM	OPR-WTO	Continued testing Sprinkler zone usage, focused on completing zones that had the availability to be tested remotely. Will need to confirm Iso valve status of the remaining zones.
07/28/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails.
07/28/2022	DFH	MCC-MOM	GMT-AUT	Started investigating hydraulic oil leak for the crane.
07/28/2022	DFH	MCC-MOM	SAM-WTO	Collect daily EFF sample.
07/28/2022	MAA	MCC-MOM	GMT-AUT	Assisted DFH in removing the top cover at Service Truck for hydraulic valve inspection.
07/28/2022	DFH	MCC-MOM	GMT-AUT	Continued investigating the hydraulic leak on the service truck. Found the cause to be a hydraulic valve block. Sent pictures to MAA to confirm this is the same item that was leaking previously but in a different area.
07/28/2022	MAA	MCC-MOM	OPR-WTO	Continued Sprinkler Zone usage tracking. Located each Iso vale that required verification.

INTEGRATED PERFORMANCE CONSULTANTS

202207 MCC ONM Report

Period: 07/01/2022 - 07/31/2022

Date	Name	Job	Task	Notes
07/28/2022	MAA	MCC-MOM	OPR-WTO	Continued Sprinkler Zone usage tracking. Located each Iso vale that required verification. Found several zones with broken pipes/sprinklers and faulty solenoids. Updated and noted on the tracking sheet.
07/28/2022	DFH	MCC-MOM	GMT-AUT	Reinstalled all panel covers and plates on the service truck.
07/28/2022	DFH	MCC-MOM	SAM-WTO	Collected permeate samples and tested for pH, EC, NH3, NO2, NO3, Alk, and Cl2.
07/28/2022	DFH	MCC-MOM	GMT-AUT	Consulted with MAA about leaking valve body on the service truck. He gave me the previous order details from last year. I will do some investigating to find a replacement.
07/29/2022	CEA	MCC-MOM	OPR-WTO	Plant operations checked. Bluff's, Legacy park pumping stations, and IW2 checked - normal.
07/29/2022	JAA	MCC-MOM	OPR-WTO	Checked and reviewed plant operations. Training by KTV on how to check and interpret trends.
07/29/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/29/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/29/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails.
07/29/2022	CEA	MCC-MOM	OPR-WTO	Headworks operations check; SC-2320 rinse fine screen and flushed the sprayers, removed solids compactor trash. Coarse screen check - normal. MBT process check purged P-7310 and put it in the rotation.
07/29/2022	JAA	MCC-MOM	SAM-WTO	Performed pH and EC test after calibrating the probe. Collected daily samples. Filed COCs into corresponding files.
07/29/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/29/2022	CEA	MCC-MOM	OPR-WTO	Check upper and lower odor control beds, and measure for NH3 and H2S results in zero.
07/29/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
07/29/2022	JAA	MCC-MOM	OPR-WTO	Quick review of the SCADA and trends to get more familiar with it.
07/30/2022	KTV	MCC-MOM	OPR-WTO	Remote SCADA and trend review. Noticed UVT was fairly low ~66.1%. Reviewed trend and compliance history and it appears that it might make it through the day above 66%. Continued to monitor throughout the day and decided to head on site to change the cuvette later in the day. Monitored UVT average throughout the day.
07/30/2022	JAA	MCC-MOM	SAM-WTO	Performed pH and EC tests after calibrating the probe. Collected daily samples.
07/30/2022	KTV	MCC-MOM	OPR-WTO	Arrived onsite to change UVT cuvettes. Manually initiated OffSpec and changed the cuvette. Intensity shows 67.4% on the instrument but 67.0% on SCADA. Will investigate and correct this week. For now, resumed production.
07/31/2022	KTV	MCC-MOM	OPR-WTO	Remote SCADA and trend review are okay. UVT remains good after yesterday's maintenance.
07/31/2022	EDM	MCC-MOM	SAM-WTO	Took daily EFF samples and prepared sample paperwork for lab pick-up.

INTEGRATED PERFORMANCE CONSULTANTS

202208 MCC ONM Report

Period: 08/01/2022 - 08/31/2022

Date	Name	Job	Task	Notes
08/01/2022	CEA	MCC-MOM	OPR-WTO	Plant operations checked reviewed process data trends, and observed Bluff's Park irrigation cycle completed. Conducted lab Effluent quality analysis.
08/01/2022	CEA	MCC-MOM	OPR-WTO	Inspect Bioreactor #2, and confirmed flow from P-3211. Checked levels and process health.
08/01/2022	KTV	MCC-MOM	OPR-WTO	Reviewed fire alarm system manuals and called Honeywell tech support. Was advised by tech support that the fire alarm system is disconnected from the phone due to AT&T 3G/4G sunset, so we will need to get an LTE radio to replace the current 4G radio. Got the part number and contacted the supplier for parts and service quotes.
08/01/2022	KTV	MCC-MOM	CMT-ELT	Powered on VFD and troubleshot fault code SRo. Discovered this code is caused by relay wiring somehow. Further investigation is required.
08/01/2022	CEA	MCC-MOM	PMT-INT	Completed equipment calibrations.
08/01/2022	CEA	MCC-MOM	PMT-INT	Completed equipment calibrations.
08/01/2022	CEA	MCC-MOM	CMT-INT	Perform 2 points calibration- okay. Verify readings pH 6.90 vs Hach handheld 7.0.
08/01/2022	CEA	MCC-MOM	PMT-INT	Completed equipment calibrations.
08/01/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Review recent DigAlerts emails. Discussed MBT wasting operation with KTV. I inspected MBT wasting trends and they looked normal. Tested MOV4700. at 12.5% open we get about 48 GPM. We waste about 4 cycles a day, 10 min each for about 1800 GPD. The MBT production trends show about 1500 GPD. So we are good. The MBT ML is thick and we need to pump again this week.
08/01/2022	KTV	MCC-MOM	CMT-ELT	Discovered wiring issue with help from AD tech support. Removed and wire nutted the wire originally labeled PWR. VFD is now functional, so set all parameters and started testing.
08/01/2022	CEA	MCC-MOM	OPR-WTO	Plant process bioreactor 2 and MBT TSS online analyzer calibration and MBT hauling were discussed with GXK.
08/01/2022	DFH	MCC-MOM	SAM-WTO	Collected daily EFF samples and tested permeate samples for pH and EC.
08/01/2022	CEA	MCC-MOM	PMT-INT	Completed equipment calibrations.
08/01/2022	CEA	MCC-MOM	OPR-WTO	Process check. Bluff and Legacy park pumping station, and IW2 operations checks.
08/01/2022	CEA	MCC-MOM	OPR-WTO	Upper and lower odor control bed checks
08/01/2022	GXK	MCC-MOM	OPR-WTO	Inspected the BIO2 and MBT ML TSS with CEA. I combined the last lab results with the same-day historical trends to calculate the new factors for the TSS analyzers. Scheduled 10,000 gallons hauling from the MBT SST on Wednesday. Discuss the issues with B-7120 VFD with KTV.
08/01/2022	KTV	MCC-MOM	CMT-ELT	Able to run the blower, but there are a few issues with the wiring that are currently not diagnosed: running light always on, speed command lower than expected, speed feedback higher than expected. For now, left the breaker is OPEN, and plan to continue in the morning.
08/01/2022	DFH	MCC-MOM	PMT-INT	Completed equipment calibrations.
08/02/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails.
08/02/2022	EDM	MCC-MOM	SAM-WTO	Took Weekly A set / Weekly Effluent and daily Effluent samples and prepared sample paperwork for lab pick-up.
08/02/2022	DFH	MCC-MOM	GMT-AUT	Oil change for 2017 FordF350.

INTEGRATED PERFORMANCE CONSULTANTS

202208 MCC ONM Report

Period: 08/01/2022 - 08/31/2022

Date	Name	Job	Task	Notes
08/02/2022	KTV	MCC-MOM	CMT-ELT	Continued troubleshooting bucket wiring due to strange VFD behavior. Confirmed both VFD and PLC AIs are functional using loop calibrator.
08/02/2022	DFH	MCC-MOM	GMT-AUT	Picked up Air filter, installed air filter and DEF into 2017 Ford F350.
08/02/2022	EDM	MCC-MOM	SAM-WTO	Retrieved COCs from secured sampling box, compared online logs to paperwork and filed appropriately.
08/02/2022	KTV	MCC-MOM	CMT-ELT	Troubleshoot PLC AO to VFD AI. By manipulating PLC AO, the VFD runs at the correct speed but doesn't produce the correct Hz feedback.
08/03/2022	CEA	MCC-MOM	OPR-WTO	Plant operations checked. Verified EQ level is low in preparation for IW2 backwashing. Bluff's, Legacy park pumping stations, and IW2 checked - normal. Checked UV trains performance, and changed trains priority to 1-2-3.
08/03/2022	CEA	MCC-MOM	PMT-GLB	10,000 gallons haul completed. Disabled MOV-4700 during hauling and reenabled to resume wasting. Hauled 10,000 gallons from Solids Storage Tank.
08/03/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Review recent DigAlerts emails. Reduced P8140 multiple SP from 0.13 to 0.1 due to high chlorine residual.
08/03/2022	KTV	MCC-MOM	CMT-ELT	Further investigation of bucket wiring revealed an issue with the way I wired the relay outputs - swapped common with output. Discussion with RRV showed an issue with using DO2 without an additional relay, so plan to add a relay or modify the current unused octal relay (needs a 24 VDC coil). For now, set the single relay output to indicate VFD running, so there is no VFD fault indication until the relay is installed.
08/03/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
08/03/2022	CEA	MCC-MOM	SAM-WTO	Conducted process MLSS samples analysis.
08/03/2022	EDM	MCC-MOM	SAM-WTO	Collected Weekly B + Daily EFF samples, and prepared sample paperwork for lab pick-up.
08/03/2022	KTV	MCC-MOM	CMT-ELT	Troubleshoot PLC and VFD AOs. VFD AO appears to be double the expectation, but I can find no reason for it in the parameters. Tested adjusting the bias from 100% to 50% and the VFD AO is now essentially functional, although not perfect. Researched the AO card settings and VFD input parameters.
08/03/2022	KTV	MCC-MOM	CMT-ELT	Manually tested PLC AO at 4000, 12000, and 16000, compared with actual mA signal, and was able to determine slope. Adjusted the VFD AI2 slope to match - 0% = 6.07 mA, 50% = 10.2 mA, 100% = 14.3 mA. Tested at various speeds and the PLC command now matches VFD Hz perfectly. VFD AO also now sends the correct mA signal back, with 50% bias still applied.
08/03/2022	KTV	MCC-MOM	CMT-ELT	Discussed VFD and PLC issues with RRV and notified him of the current implementation. The issue sounded familiar so he did some further research and sent me some info indicating that the max raw value for that analog card is 30840 instead of 20000 (which I had assumed due to analog input scaling). Tested converting the slope calibration values from 4000 - 20000 to 0 - 30840, and this seems to prove that the AO scaling can be changed in the PLC and reverted to normal slope in the VFD. Plan to test later this week before confirming the change. This also is unlikely to solve the VFD AO bias issue.

INTEGRATED PERFORMANCE CONSULTANTS

202208 MCC ONM Report

Period: 08/01/2022 - 08/31/2022

Date	Name	Job	Task	Notes
08/04/2022	DFH	MCC-MOM	OPR-WTO	Plant operations check review level, trends, log, and lab sampling data. Reviewed WAS changes and noticed FIT-4701 is still totalizing while not currently wasting. Notified KTV and verified that FIT-4701 should not be totalizing while MOV-4700 is closed. He will do some further investigation into the cause. Plant walk, inspected chemical storage, odor control, UV system, upper blower rooms, MBT, headworks, and electrical rooms. Reset AC units in 2000 and 4000 electrical rooms.
08/04/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails.
08/04/2022	EDM	MCC-MOM	SAM-WTO	COC log audits and filing.
08/04/2022	EDM	MCC-MOM	GMT-HSK	General housekeeping in lab, surface sterilization and supplies refills.
08/04/2022	DFH	MCC-MOM	OPR-WTO	Verified irrigation zone functionality and noted sprinkler conditions.
08/04/2022	DFH	MCC-MOM	CMT-GLB	Continued to paint UV Piping.
08/04/2022	DFH	MCC-MOM	SAM-WTO	Collect daily EFF samples and tested permeate samples for pH, EC, NH3, NO2, NO3, Alk, and Cl2.
08/04/2022	DFH	MCC-MOM	CMT-GLB	Continued to paint UV piping.
08/04/2022	GXK	MCC-MOM	OPR-WTO	Noticed the PLC5 IO Alarm on the SCADA alarm screen. Investigated the alarm. Inspected PLC5. Noticed in Rack 2 that DI modules 2 and 3 had no active lights which I found unusual. I checked the power to the flex banks and it was normal at 23.6 VDC. I looked at the PLC5 logic and found no IO faults or alarms. The SCADA alarm indication cleared. I suspect it had something to do with the low UVT following membrane cleaning.
08/04/2022	BLV	MCC-MOM	GMT-JAN	Cleaned bathroom, dusted the top of cabinets, cleaned countertops, ant spray.
08/05/2022	JAA	MCC-MOM	OPR-WTO	SCADA plant operation check and review. Checked and reviewed trends with KTV.
08/05/2022	CEA	MCC-MOM	OPR-WTO	Plant process checked. Bluff's, Legacy park pumping stations, and IW2 operations checked okay. MBT solids storage tank running at normal operating levels; Purged P-73X0 and resumed permeate. Trained with JAA on plant equipment monthly PMT tasks. Monitored FIQ-6400 Plant water irrigation noticed briefly high flow demand >200 gpm due to tipping trough cycle. Flow demand decreased to 40 gpm.
08/05/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Review recent DigAlerts emails.
08/05/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
08/05/2022	JAA	MCC-MOM	CMT-GLB	Installing safety floor line tape on the steps of the LAB entrance and areas that need it.
08/05/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
08/05/2022	JAA	MCC-MOM	SAM-WTO	Performed pH and EC tests after calibrating the probe. Collected daily samples. Filed COCs into corresponding files.
08/05/2022	JAA	MCC-MOM	GMT-AUT	Wash MAA and Tacoma as general maintenance.
08/05/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
08/05/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
08/05/2022	CEA	MCC-MOM	OPR-WTO	Headworks, chemicals feed systems, upper and lower odor control beds, and MBT process checks.
08/06/2022	JAA	MCC-MOM	SAM-WTO	Perform pH and EC tests after calibrating the probe. Collect daily samples Iced and storage.

INTEGRATED PERFORMANCE CONSULTANTS

202208 MCC ONM Report

Period: 08/01/2022 - 08/31/2022

Date	Name	Job	Task	Notes
08/06/2022	CEA	MCC-MOM	OPR-WTO	Plant status check. Bluff and Legacy park and IW2 operations checks.
08/06/2022	KTV	MCC-MOM	OPR-WTO	Zone 8 Alarm - remote check showed SC-2310 failure. Called RRV to assist since I wasn't nearby and a site visit is likely required.
08/06/2022	RRV	MCC-MOM	OPR-WTO	Received a call from KTV indicating that SC-2310 is in alarm, requesting me to respond since he is out of town and I am local. Went to the site and found SC-2310 indicating General Fault. Pressed the reset pushbutton and the alarm went away. Tested all features in HAND afterward and everything works correctly, with no unusual noise or vibration. Opened the end cover and observed the operation of the drum. There was no excessive buildup of debris even though the drum had not been turning, although there was more than the typical amount of moisture on the concrete in front of the compactor ... not ponded, but damp. Observed operation of SC-2310 for two full cycles after reset, one natural cycle on influent, followed by one generated cycle on PDPS discharge. This PDPS cycle was generated by forcing off-spec valve MOV-4006 closed to send water to the PDPS and lowering the PDPS LEAD pump start setpoint to call a pump immediately. Both SC-2310 cycles were initiated as expected and ran to completion as expected with no alarms or unusual conditions noted. Returned MOV-4006 to AUTO and PDPS Lead pump ON setpoint to normal and departed. About 20 minutes later on the way home, I got an alarm call and pulled over to check it out, expecting it to be another SC-2310 failure, but it was an EQ Tank insufficient pump-up alarm instead. I attributed this to the test PDPS cycle I initiated before departing, which truncated the PDPS flow below a typical PDPS discharge cycle volume, resulting in the insufficient EQ Tank pump condition.
08/07/2022	CEA	MCC-MOM	OPR-WTO	Plant process was checked. Bluff's, Legacy park pumping stations, and IW2 checked.
08/07/2022	EDM	MCC-MOM	SAM-WTO	Took daily EFF samples and prepared sample paperwork for lab pick-up.
08/08/2022	CEA	MCC-MOM	OPR-WTO	0245 hours - alarm received and acknowledged, remotely logged in reveals cause of the alarm 113: EQT insufficient pump up, no corrective action taken at this time. Plant operations checked. Bluff's, Legacy park pumping stations, and IW2 checked. Made plant routine rounds. Lab sample results reviewed.
08/08/2022	DFH	MCC-MOM	OPR-WTO	Plant operations check review level, trends, log, and lab sampling data. Reviewed last night's PDPS level trend with KTV which was related to the SC2310 alarm.
08/08/2022	KTV	MCC-MOM	OPR-WTO	Reviewed SCADA and trends with DFH. Basic programming review in preparation for 4-20 mA calibration later. Reviewed AIT-4002 and AIT-5001 4-20 mA calibration instructions and tubing sizes. Plan to replace clear tubing on AIT-4002 and rearrange bench analyzers and tubes now that all tubing and wiring work is complete.
08/08/2022	DFH	MCC-MOM	OPR-WTO	With KTV, calibrated portable turbidity meter to verify calibration on AIT-4002. Reviewed AIT-4002 and AIT-5001 4-20mA calibration in PLC and calibrated.
08/08/2022	KTV	MCC-MOM	OPR-WTO	With DFH, trained on calibrating the handheld turbidity meter. Reviewed turbidity and UVT analyzer installation and function. Put the system in forced Off-Spec and calibrated the 4-20 mA output and scale on AIT-4002 and AIT-5001. Waited for the UVT average to increase back to normal and put the system back into production.
08/08/2022	CEA	MCC-MOM	OPR-WTO	Headworks equipment checked: SC-2310 inspected and cleaned fine screen, flushed and manually ran the washer compactor, and removed solids compactor chute trash.
08/08/2022	DFH	MCC-MOM	SAM-WTO	Collect daily EFF samples and test permeate samples for pH and EC.
08/08/2022	DFH	MCC-MOM	GMT-HSK	General housekeeping of 5000 and 2000 zones.

INTEGRATED PERFORMANCE CONSULTANTS

202208 MCC ONM Report

Period: 08/01/2022 - 08/31/2022

Date	Name	Job	Task	Notes
08/08/2022	CEA	MCC-MOM	CMT-GLB	Observed screen cycle, and inspected trunnion and stabilizer wheels - okay.
08/08/2022	DFH	MCC-MOM	GMT-AUT	KTV truck wash.
08/08/2022	CEA	MCC-MOM	OPR-WTO	Verified UVT online analyzer readings AIT-5100 66.0% vs DR6000 lab 65.6%.
08/08/2022	DFH	MCC-MOM	CMT-GLB	Installed 1in threaded PVC plug for membrane tank spray water line.
08/09/2022	EDM	MCC-MOM	SAM-WTO	Took Daily EFF / Weekly Process / Weekly Effluent and Monthly Effluent samples, prepared sample paperwork for lab pick-up, and assisted lab courier with the transfer.
08/09/2022	KTV	MCC-MOM	SAM-WTO	Prepared MLSS samples for analysis.
08/10/2022	DFH	MCC-MOM	GMT-HSK	General housekeeping of 5000, 2000, and 9300 blocks.
08/10/2022	JAA	MCC-MOM	GMT-AUT	Continued to clean. Washed my truck and the vactor
08/10/2022	EDM	MCC-MOM	SAM-WTO	Resumed training with KTV on solids handling, permeate wasting and thickening.
08/10/2022	DFH	MCC-MOM	SAM-GLB	Inventory of newly received sampling bottles and storing them appropriately.
08/10/2022	EDM	MCC-MOM	GMT-HSK	Housekeeping at 7000, washed and rinsed contact surfaces of dried caked sludge, disinfected.
08/10/2022	KTV	MCC-MOM	OPR-WTO	Reviewed alarms caused by injection well maintenance. Morning maintenance caused a more aggressive smoothing demand than expected, and ended up causing a low flow alarm on P-1250. This resulted in P-1220 coming on to assist, and currently unknown why the No EQ pumps available alarm was triggered - the only possibility I see in the program is that P-1210 low flow was triggered, which is unusual since it wasn't running. Both pumps were running and unable to keep up. Put the PID for P-1250 in software manual at 90% and this caused high enough flow for P-1220 to stop running. Had issues turning off software manual, so ended up running at 135 gpm for a few hours. Used software manual to babysit the PID back into the correct CV. Currently, it's unknown why the P-1250 PID loop is so slow, but it might just need retuning.
08/10/2022	EDM	MCC-MOM	SAM-WTO	Retrieved sample paperwork from secured box and filed, rinsed sampling materials and setup composite samplers for next round.
08/10/2022	KTV	MCC-MOM	SAM-WTO	Trained JAA and EDM on how to perform MLSS sample analysis in the lab.
08/10/2022	EDM	MCC-MOM	SAM-TRN	Training with KTV, TSS & MLSS evaluation and standard methods.
08/10/2022	JAA	MCC-MOM	SAM-TRN	Trained by KTV on procedures and how to perform MLSS sample analysis in the lab.
08/10/2022	KTV	MCC-MOM	OPR-WTO	With JAA, reviewed wasting concerns since there is a haul today, and shut off wasting during the haul. Reviewed SCADA and prepared for IW2 maintenance.
08/10/2022	JAA	MCC-MOM	OPR-WTO	With KTV discussing concerns of the wasting. Reviewing SCADA.
08/10/2022	JAA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
08/10/2022	KTV	MCC-MOM	PMT-GLB	Completed preventive maintenance.
08/10/2022	EDM	MCC-MOM	PMT-GLB	Hauled 10,000 gallons from Solids Storage Tank.
08/10/2022	EDM	MCC-MOM	SAM-WTO	Took Weekly B set and Daily EFF samples and prepared sample paperwork for lab pick-up.
08/10/2022	JAA	MCC-MOM	GMT-AUT	Clean and washed GXK truck.
08/10/2022	DFH	MCC-MOM	OPR-GLB	Disabled irrigation zone 5 due to excessive damaged sprinklers and water usage.

INTEGRATED PERFORMANCE CONSULTANTS

202208 MCC ONM Report

Period: 08/01/2022 - 08/31/2022

Date	Name	Job	Task	Notes
08/11/2022	DFH	MCC-MOM	OPR-WTO	Plant operations check, review level, trends, log and lab sampling data. Plant walk, inspected chemical storage, odor control, UV system, upper blower rooms, MBT, headworks, and electrical rooms. Rotated SC-23X0 to position 2 with supervision of KTV. Emptied trash for SC-2310, SC-2101, and ME-22X0. Reviewed MBT and wasting trends with KTV and MAA.
08/11/2022	MAA	MCC-MOM	OPR-WTO	With KTV; discussed MBR sprayer failures on SCADA. Grabbed P4150 and P4250 pump info. Looked up manual and spare parts sheet. Researched vendor and sent quote inquiry for Volute and gaskets for replacement. Added manual and spare parts sheet to MCC EQUIPMENT documentation folder on shared drives.
08/11/2022	KTV	MCC-MOM	OPR-WTO	Trained MAA and DFH on MBT and wasting operations. Reviewed MLSS trends and logbook data with both.
08/11/2022	DFH	MCC-MOM	SAM-TRN	Trained with KTV and MAA on MLSS testing.
08/11/2022	MAA	MCC-MOM	OPR-TRN	Trend analysis training with KTV and DFH. Reviewed WAS, MBT and INF pump station trends. Discussed WAS and hauling. Training on MLSS test at lab. Discussion with KTV and BLV on safety topics.
08/11/2022	KTV	MCC-MOM	OPR-WTO	Trained DFH on MLSS sample analysis with MAA present for review. Reviewed overnight collections system trends and discussed how to analyze; problems at another site caused unusual flow patterns to the influent pump station.
08/11/2022	DFH	MCC-MOM	OPR-WTO	Trend analysis and PLC review with KTV and MAA.
08/11/2022	MAA	MCC-MOM	SAM-WTO	Collected Daily EFF sample. Reviewed procedure for pH and EC test; performed ph and EC test.
08/11/2022	MAA	MCC-MOM	OPR-WTO	Discussed MCC schedule with KTV. With DFH; analyzed MLSS results. Averaging 8,400mg/L. Discussed wasting adjustments based on results with KTV, reduced wasting from 3300 gallons to 2000 gallons. Reviewed sludge age, concentration, respiration, and conditions needed for settleable and nonsettleable bacteria.
08/11/2022	DFH	MCC-MOM	OPR-WTO	With MAA, removed first MLSS sample and calculated concentration at 8200mg/L. Tested second MLSS sample and calculated concentration of 8600mg/L for an average of 8400mg/L. Reviewed WAS setpoint with KTV who will decrease wasting from 3300gpd to 2000gpd. Reviewed sludge age, concentration, respiration, and conditions needed for settleable and nonsettleable bacteria.
08/11/2022	KTV	MCC-MOM	OPR-WTO	Plant check okay. Finished MLSS sample analysis training with DFH and MAA. Discussed sludge health and age, and visual inspection characteristics with DFH and MAA.
08/11/2022	BLV	MCC-MOM	GMT-JAN	Vacuumed, pest control, bathroom.
08/12/2022	CEA	MCC-MOM	GEN-TRV	Travel to the job site.
08/12/2022	DFH	MCC-MOM	GMT-DIG	Dig Alert A222210237 - No conflict found, uploaded pictures of proposed dig markings.
08/12/2022	CEA	MCC-MOM	OPR-WTO	Plant operations checked and reviewed process data trends. Plant routine rounds: chemicals room equipment, upper and lower odor controls beds checked. Bluff's, Legacy park pumping stations, and IW2 checked.
08/12/2022	MAA	MCC-MOM	OPR-WTO	SCADA and process review with focus on MBT and EQ levels as well as MLSS concentration. With KTV and JAA, reviewed MBT, EQ, and UV trends. Discussed relationship between Process and Equipment Controls.
08/12/2022	JAA	MCC-MOM	OPR-TRN	With KTV and MAA reviewed MBT, EQ, and UV trends.
08/12/2022	KTV	MCC-MOM	OPR-WTO	SCADA and trends review with MAA and JAA. Reviewed P-1250 controls and basic control loop concepts. Site walkthrough training.
08/12/2022	JAA	MCC-MOM	OPR-TRN	With KTV and MAA, walkthrough the plant, learned location of PLC's and components of the panels.
08/12/2022	MAA	MCC-MOM	OPR-TRN	With KTV and JAA; plant walkthrough with focus on location of PLC panels, equipment and flow path.

INTEGRATED PERFORMANCE CONSULTANTS

202208 MCC ONM Report

Period: 08/01/2022 - 08/31/2022

Date	Name	Job	Task	Notes
08/12/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
08/12/2022	JAA	MCC-MOM	SAM-WTO	Collected daily samples.
08/12/2022	MAA	MCC-MOM	OPR-TRN	With KTV; discussed Ignition 7 training. Continued Ignition 7 training to add flow totalizer data.
08/12/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
08/12/2022	JAA	MCC-MOM	GMT-HSK	Performed housekeeping and cleaned residual buildup at the piping of the sodium hypochlorite. Breakdown empty drums and disposed to the trash.
08/12/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
08/12/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
08/12/2022	MAA	MCC-MOM	OPR-TRN	Continued Ignition 7 training.
08/13/2022	CEA	MCC-MOM	OPR-WTO	Plant process check. MBT solids storage tank running at normal operating levels. Primed P-73X0 and resumed filtration. Monitored pumps performance and filtration flow rates. Bluff's Legacy park pumping stations, and IW2 checked.
08/13/2022	JAA	MCC-MOM	SAM-WTO	Perfect pH and EC test after calibrate the probe. Collect daily samples Iced and storage. Collect a sample of MLSS from the MBT storage for KTV in the refrigerator. Check level of MBT tank level was 15.85 feet.
08/14/2022	CEA	MCC-MOM	OPR-WTO	Plant operations checked. Reviewed UV system performance. Bluff's, Legacy park, and IW2 checked.
08/14/2022	EDM	MCC-MOM	SAM-WTO	Took daily EFF samples and prepared sample paperwork for lab pick-up.
08/15/2022	CEA	MCC-MOM	OPR-WTO	Plant process check, data trends analysis, UV system performance, MBT production, and Eff quality reviewed. Bluff and Legacy Park, IW2 checks.
08/15/2022	DFH	MCC-MOM	OPR-WTO	Plant operations check, review level, trends, log. lab sampling data, and WDR. Plant walk, inspected chemical storage, odor control, UV system, upper blower rooms, MBT, headworks, and electrical rooms.
08/15/2022	DFH	MCC-MOM	SAM-WTO	MBT TSS sampling with KTV.
08/15/2022	DFH	MCC-MOM	GMT-AUT	Researching and ordering parts for Service Truck.
08/15/2022	CEA	MCC-MOM	PMT-INT	Completed equipment calibrations.
08/15/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
08/15/2022	DFH	MCC-MOM	SAM-WTO	Measured KTV MBT sample at 26,200mg/L and my sample at 28,000mg/L for an average of 27,100mg/L. Putting filter back in to oven to verify dry and will remeasure. Collected daily EFF sample and tested permeate sample for pH, EC, NH3-N, NO2-N, NO3-N, Alk, and Cl2. Remeasured dry MBT sample and yielded the same results.
08/15/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
08/15/2022	DFH	MCC-MOM	GMT-AUT	Washed Pilot. Started repairs to service truck rear sliding cover.
08/15/2022	CEA	MCC-MOM	CMT-GLB	Please add this task to the weekly PM. Flushed RAS and WAS lines with high-pressure plant water.
08/15/2022	CEA	MCC-MOM	OPR-WTO	Monitoring MBR1 CC, verify chemicals feed process completed. Check membranes and Backpulse tanks operations, exercise valves and watch membranes priming cycle.
08/15/2022	DFH	MCC-MOM	GMT-AUT	Continued to work on repairing Service truck rear for sliding gate.
08/15/2022	CEA	MCC-MOM	CMT-GLB	SC-2101 Coarse Screen: Disabled power and opened coarse screen screw access port to remove excessive solids. High-level alarm float testest - okay, verify only high-level alarm condition indicating at MCC and no cause of Screw Motor Fault condition.

INTEGRATED PERFORMANCE CONSULTANTS

202208 MCC ONM Report

Period: 08/01/2022 - 08/31/2022

Date	Name	Job	Task	Notes
08/16/2022	KTV	MCC-MOM	OPR-WTO	Site walkthrough, SCADA and trend review okay.
08/16/2022	EDM	MCC-MOM	SAM-WTO	Weekly A Sample group
08/16/2022	EDM	MCC-MOM	SAM-WTO	Weekly and daily EFF samples, prepared sample paperwork for lab pick-up.
08/16/2022	EDM	MCC-MOM	SAM-WTO	Filed COCs and audited logs
08/17/2022	EDM	MCC-MOM	SAM-WTO	Started Weekly B Set sampling, compopsite sampler found off and bottle empty, possible power issue, notified KTV, set aside successfully collected EFF composite sample as a worst case scenario back-up.
08/17/2022	KTV	MCC-MOM	OPR-WTO	Received notification from EDM that the INF composite sampler has no power and didn't collect any sample. Investigated and found the GFI for the sampler had tripped. Reset the GFI and confirmed the sampler had power. The sampler program looks like it is running fine, so scheduled collection in the PLC for today to test. Scheduled the EFF sampler for Thursday. Plan to schedule to INF sampler for Thursday also, once INF sampler is confirmed working properly.
08/17/2022	JAA	MCC-MOM	SAM-WTO	Collect daily samples Iced and storage.
08/17/2022	KTV	MCC-MOM	OPR-WTO	Ran MLSS lab analysis - 8,600 mg/L. Increased wasting from 2000 gpd to 2200 gpd. Plant walkthrough, SCADA and trend review okay. Noticed high pitched whine from the lower zone pumps on arrival. Investigated trends and found a change in lower zone pressure control since 2018. The lower zone pumps run at a wider range of speeds now than they did initially. Sent trend info to RRV for a second opinion on the cause. Pressure during this time appears stable and the lower zone pumps are responding to the change without issue. The upper zone pumps do not show a similar trend, remaining consistent at 80-85%.
08/18/2022	DFH	MCC-MOM	OPR-WTO	Plant operations check, review level, trends, log and lab sampling data. Plant walk, inspected chemical storage, odor control, UV system, upper blower rooms, MBT, headworks, and electrical rooms.
08/18/2022	DFH	MCC-MOM	PMT-GLB	Completed preventive maintenance.
08/18/2022	DFH	MCC-MOM	OPR-WTO	With KTV, review EFF flow path and prepare for lower distribution flow test.
08/18/2022	KTV	MCC-MOM	OPR-WTO	Requested and monitored DFH SC-23X0 rotation. Reviewed system status and decided to test the lower zone flow meter calibration by forcing the system into off spec. Turned OFF fluidization flow and lowered injection well stop setpoint to 10 feet for the duration of the test. Monitored EQ level.
08/18/2022	DFH	MCC-MOM	OPR-WTO	Started lower distribution flow test with KTV. Reviewed cleaning maintenance for AIT-5100.
08/18/2022	DFH	MCC-MOM	SAM-WTO	Started MBT and BR2 TSS testing.
08/18/2022	KTV	MCC-MOM	OPR-WTO	Ended flow calibration test and put system back into normal operation. Results from the test are strange, indicating lower zone flow ~20 gpm which is most likely a test method issue since that flow rate would be impossible to maintain without bypassing to the ponds. Created plan to check related test variables to determine the cause of the error.
08/18/2022	DFH	MCC-MOM	SAM-WTO	Collect daily EFF sample and tested permeate sample for pH and EC. Completed MBT and BIO2 TSS sampling.
08/18/2022	DFH	MCC-MOM	OPR-WTO	With KTV, review clearwell level and flow to IW2 from earlier testing.

INTEGRATED PERFORMANCE CONSULTANTS

202208 MCC ONM Report

Period: 08/01/2022 - 08/31/2022

Date	Name	Job	Task	Notes
08/18/2022	KTV	MCC-MOM	OPR-WTO	With DFH, investigated cause of flow check error. The most likely cause is the valve between the clearwell and dosing tank wasn't fully closed during the test. Assuming the dosing tank was connected, the flow by discharge volume changes from 20 gpm to 70 gpm. This error is more explainable since I had to bias out upper zone usage during the test.
08/18/2022	DFH	MCC-MOM	OPR-WTO	With KTV, collected measurements of clearwell and dosing tank to calculate volume and investigate flow discrepancy
08/19/2022	KTV	MCC-MOM	PMT-GLB	Completed preventive maintenance.
08/19/2022	CEA	MCC-MOM	OPR-WTO	Plant process and daily routine checks, Effluent quality check, clear well Cl2 residual at 2.4 ppm, decreased UV flow multiplier from 0.11 to 0.08. Bluff and Legacy park, and IW2 checks.
08/19/2022	KTV	MCC-MOM	OPR-WTO	Manually put system in off-spec to allow for maintenance. The replacement cuvette is showing lower than expected UVT, so swapped for the spare cuvette that's missing the plate and returned to production. Noticed slightly elevated nitrate at 1.7 mg/L. Normal nitrate has been ~1.2 mg/L and the trend shows a pretty steady increase since ~2200 yesterday. Overall, process DO trends over the past few weeks have been higher than desirable, so decided to decrease total air flow to BIO2 from ~315 SCFM to ~300 SCFM.
08/19/2022	JAA	MCC-MOM	OPR-WTO	Check SCADA operations plant. Check and review trends.
08/19/2022	CEA	MCC-MOM	CMT-INT	Perform calibration, verify unit reading 68.0 vs Lab result 67.3.
08/19/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
08/19/2022	CEA	MCC-MOM	OPR-WTO	MBT, Headworks, upper and lower odor control beds process checks. Monitoring EQT levels in preparation for IW2 backwashing.
08/19/2022	CEA	MCC-MOM	CMT-GLB	Plant lower gate not closing auto or manually: verify sensor line up, reset and attempt to close with no success, perform a hard reset on both units and manually closed- okay, test opening/closing in auto works normally now. Discussed with JAA housekeeping around gates equipment.
08/19/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
08/19/2022	CEA	MCC-MOM	SAM-WTO	Collect weekly A/B compliance samples due to composite sampler failure earlier in the week.
08/19/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
08/19/2022	JAA	MCC-MOM	SAM-WTO	Perform pH and EC test after calibrate the probe. Collect daily samples Iced and storage.
08/19/2022	CEA	MCC-MOM	OPR-WTO	Headworks, MBT, upper and lower odor control bed checks.
08/19/2022	JAA	MCC-MOM	GMT-HSK	Clean entrance key pads. Remove cover of the motor entrance units clean dirty and remove all the cobwebs.
08/19/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
08/20/2022	KTV	MCC-MOM	OPR-WTO	Zone 8 Alarm - EQ tank insufficient pump up caused by P-75X0 and P-11X0 running close to each other. SCADA and trend review okay. Decided to decrease the wasting setpoint back to 2000 gpd. Note NOx has increased to ~2 mg/L but looks like it is stable.
08/20/2022	JAA	MCC-MOM	SAM-WTO	Perform pH and EC test after calibrate the probe. Collect daily samples Iced and storage. File COC's into corresponding files.
08/20/2022	BLV	MCC-MOM	GMT-JAN	Cleaned mcc.
08/21/2022	EDM	MCC-MOM	SAM-WTO	Took daily EFF samples and prepared sample paperwork for lab pick-up.

INTEGRATED PERFORMANCE CONSULTANTS

202208 MCC ONM Report

Period: 08/01/2022 - 08/31/2022

Date	Name	Job	Task	Notes
08/22/2022	CEA	MCC-MOM	OPR-WTO	Plant operations and Eff quality checks. Reviewed UV system data trends, Train 3 low intensity, low dose, due to a bad lamp. Discussed the issue with KTV and made production adjustments A ratio decreased from 1.25 to 1.0. Monitoring plant process.
08/22/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Got a report from KTV about UV3 failed lamp last night. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails.
08/22/2022	DFH	MCC-MOM	OPR-WTO	Plant operations check, review level, trends, log and lab sampling data. Plant walk, inspected chemical storage, odor control, UV system, upper blower rooms, MBT, headworks, and electrical rooms.
08/22/2022	DFH	MCC-MOM	GMT-AUT	Finished service truck rear sliding latch repair.
08/22/2022	DFH	MCC-MOM	GMT-AUT	Inspected rear gate and found driver side hinge has sheered off. It might be repairable via welding piece that has come off. Cleaned Service truck of trash and debris.
08/22/2022	CEA	MCC-MOM	OPR-WTO	MBT, Headworks, upper and lower odor control bed checks. Headworks: SC-2310 inspect, rinse fine screen, and removed solids compactor chute trash. Coarse screen check, removed solids compactor chute trash.
08/22/2022	CEA	MCC-MOM	CMT-GLB	MBT solids storage tank air diffusers plugged: Shut down the aeration process, disabled B-72X0 and hang LOTO. Removed the air diffuser cap and flushed the line to clear the blockage. Removed LOTO, enabled B-72X0 resumed aeration and prodcution.
08/22/2022	CEA	MCC-MOM	CMT-ELT	Motor tripped UL-3150 Fault at the bucket; Reset CB and restart motor- okay, open post-Anox basin #2 to confirm good mixing inside the tank. Suit up with PPE open bucket to measure amperage results as follow: T1 3.5, T2 3.4, and T3 3.6 respectively.
08/22/2022	GXK	MCC-MOM	CMT-GLB	Got a report from DFH that the lower gate got stuck. Inspected the gate and found it in fault. the maglock side was slow to close compared to the other side of the gate, resulting in obstruction force fault. I tried to reset the fault and cycle the power to each side of the gate multiple times. I eventually managed to open the gates using the manual commands, reset the faults, and again manually close the gate. Replaced the failed UV3 Lamp#1 with a spare previously used lamp. Restarted UV3 and put it into service. Reversed the A ratio modifications KTV and CEA set earlier.
08/22/2022	DFH	MCC-MOM	SAM-WTO	Collect daily EFF sample.
08/22/2022	KTV	MCC-MOM	OPR-WTO	Changed composite samplers to composite on Tuesday instead of Thursday.
08/22/2022	CEA	MCC-MOM	OPR-WTO	Observed MBR #1 CC, plant process reviewed. Updating plant logs.
08/23/2022	KTV	MCC-MOM	CMT-INT	Replaced dessicant.
08/23/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Review recent DigAlerts emails. Reduced P8130 multiplier from 0.11 to 0.1 due to up trend in chlorine residual.
08/23/2022	KTV	MCC-MOM	OPR-WTO	Reviewed current system status with GXK and agreed on projects to work on over the next few weeks with OITs.
08/23/2022	KTV	MCC-MOM	SAM-WTO	Ran process samples in the lab and prepared for weekly sample collection.
08/23/2022	KTV	MCC-MOM	SAM-WTO	Collected Weekly A, Weekly Process and Daily EFF samples for courier pick up. Ran process MLSS on BIO2 and MBT in the lab.

INTEGRATED PERFORMANCE CONSULTANTS

202208 MCC ONM Report

Period: 08/01/2022 - 08/31/2022

Date	Name	Job	Task	Notes
08/23/2022	KTV	MCC-MOM	OPR-WTO	Followed up on fire system antenna availability. Canceled previously placed order from a company that had it on backorder and ordered from a different company that had it in stock.
08/24/2022	DFH	MCC-MOM	SAM-WTO	Collected yesterdays COC's and filed accordingly.
08/24/2022	DFH	MCC-MOM	GMT-AUT	Drop off F250 Truck at Ford for recall repairs.
08/24/2022	KTV	MCC-MOM	GMT-HSK	General lab clean up and preparation for various projects.
08/24/2022	KTV	MCC-MOM	SAM-WTO	Collected and stored weekly B samples.
08/24/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails. Talk to KTV about various CMT and improvement projects. Looked into ORP probes.
08/24/2022	KTV	MCC-MOM	GMT-HSK	Continued general lab housekeeping and task preparation.
08/24/2022	KTV	MCC-MOM	SAM-WTO	Collected Daily Effluent samples and prepared for courier pick up.
08/24/2022	KTV	MCC-MOM	OPR-WTO	Prepared parts for tasks - EQ train 1 flow meter replacement, process air flow and control, lab analyzer tubing, A/C air filter replacement, and coarse screen piping repair.
08/25/2022	RRV	MCC-MOM	OPR-WTO	0210 Alarm: 113 - EQ Tank Insufficient Pump Up active on connection. Additionally telltale tags were set for 001, 003, 008, 016, 112, and 030, but those all look like they were generated by previous PM activities and never cleared, or at least northing recently transpired that would have generated them. Alarm 113 is was caused by a PDPS cycle and does not represent a problem.
08/25/2022	DFH	MCC-MOM	OPR-WTO	Plant operations check, review level, trends, log and lab sampling data.
08/25/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails.
08/25/2022	GXK	MCC-MOM	SAM-GLB	Collected Daily EFF samples for lab analysis.
08/26/2022	JAA	MCC-MOM	OPR-TRN	Check and review SCADA and trends.
08/26/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails.
08/26/2022	JAA	MCC-MOM	OPR-TRN	Training by GXK on procedures of the MLSS test.
08/26/2022	JAA	MCC-MOM	OPR-GLB	Prepare and start painting large container.
08/26/2022	DFH	MCC-MOM	SAM-WTO	Collect daily EFF sample and tested permeate sample for pH and EC.
08/27/2022	GXK	MCC-MOM	OPR-WTO	Logged in remotely. Checked plant functions OK. Inspected trends are normal. Decreased P8130 multiplier from 0.1 to 0.09 due to chlorine residual trending up. Reviewed logbook, sampling logs, and process logs.
08/27/2022	JAA	MCC-MOM	SAM-WTO	Collect daily samples Iced and storage. Perform pH and EC test after calibrate the probe.
08/27/2022	BLV	MCC-MOM	GMT-JAN	Cleaned bathroom, threw out trash, disinfeced/cleaned counters, swept.
08/28/2022	RRV	MCC-MOM	OPR-WTO	0208 Alarm: 113 - EQ Tank Insufficient Pump Up. As usual the alarm was the result of a low, but normal, volume change in the EQT after a PDPS cycle. No action taken.

INTEGRATED PERFORMANCE CONSULTANTS

202208 MCC ONM Report

Period: 08/01/2022 - 08/31/2022

Date	Name	Job	Task	Notes
08/28/2022	EDM	MCC-MOM	SAM-WTO	Took daily EFF samples and prepared sample paperwork for lab pick-up.
08/28/2022	GXK	MCC-MOM	OPR-WTO	Logged in remotely. Checked plant functions OK. Inspected trends are normal. Reviewed logbook, sampling logs, and process logs.
08/29/2022	DFH	MCC-MOM	OPR-WTO	Plant operations check, review level, trends, log and lab sampling data.
08/29/2022	DFH	MCC-MOM	GMT-AUT	DFH Truck wash.
08/29/2022	DFH	MCC-MOM	CMT-GLB	Painted UV piping.
08/29/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Reduced P8130 multiplier from 0.11 to 0.1.
08/29/2022	DFH	MCC-MOM	SAM-WTO	Collected daily EFF sample and tested permeate sample for pH and EC. Inventoried sampling bottle supply.
08/29/2022	DFH	MCC-MOM	CMT-GLB	Painted UV piping.
08/29/2022	GXK	MCC-MOM	OPR-WTO	Searched for replacement dispenser valves for the composite samplers jags. Search for lab eye protection glasses.
08/29/2022	DFH	MCC-MOM	CMT-GLB	Painted UV piping.
08/30/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Increased P8130 multiplier from 0.1 to 0.11. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails.
08/30/2022	EDM	MCC-MOM	SAM-WTO	Took Weekly Process and Weekly A sample sets + daily EFF samples
08/30/2022	EDM	MCC-MOM	SAM-WTO	Continued sampling and made secondary sets of of ML and solids from 7000, prepared sample paperwork for lab pick-up.
08/30/2022	GXK	MCC-MOM	OPR-WTO	Run BIO2 and MBT ML TSS analysis at the lab.
08/30/2022	DFH	MCC-MOM	SAM-WTO	Collect MBT sample for lab analysis. Collected COC's from yesterday and sort accordingly.
08/30/2022	GXK	MCC-MOM	OPR-WTO	Ordered lab supplies. Completed TSS analysis.
08/31/2022	GXK	MCC-MOM	OPR-WTO	Responded to alarm dialer call reporting active ch.8 alarm conditions. Logged in remotely and found the cause for the alarm to be alarm 113 EQT insufficient pump up. Inspection of the trends revealed nothing unusual so I bypassed the alarm.
08/31/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Review recent DigAlerts emails. Placed an order for replacement composite sampler jugs faucets.
08/31/2022	EDM	MCC-MOM	SAM-WTO	Took Weekly B & daily EFF samples and prepared sample paperwork for lab pick-up.
08/31/2022	JAA	MCC-MOM	OPR-TRN	Prepared and started to prime the large container.
08/31/2022	JAA	MCC-MOM	OPR-TRN	Continued to prime the large container.

INTEGRATED PERFORMANCE CONSULTANTS

202209 MCC ONM Report

Period: 09/01/2022 - 09/30/2022

Date	Name	Job	Task	Notes
09/01/2022	DFH	MCC-MOM	OPR-WTO	Plant operations check, review level, trends, log and lab sampling data. Plant walk, inspected chemical storage, odor control, UV system, upper blower rooms, MBT, headworks, and electrical rooms. Assisted MAA in clearing trash at headworks.
09/01/2022	JRW	MCC-MOM	GEN-TRN	Orientation
09/01/2022	MAA	MCC-MOM	OPR-WTO	Reviewed trends and plant status. Plant walkthrough; found overflowing trash cans at headworks. With DFH; reset AC at main electrical room.
09/01/2022	EDM	MCC-MOM	SAM-WTO	Sanitized and prepped composite sampling bottles
09/01/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Review recent DigAlerts emails. Assisted MAA, and DFH with identifying the circuit breaker that feeds power to the BIO aeration basin flow meters.
09/01/2022	MAA	MCC-MOM	OPR-GLB	With DFH disposed of rags from overflowing trash cans at headworks, rinsed down area.
09/01/2022	JRW	MCC-MOM	CON-GLB	Elongating conduit
09/01/2022	MAA	MCC-MOM	OPR-WTO	Discussed projects and priorities list with KTV.
09/01/2022	DFH	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/01/2022	MAA	MCC-MOM	CMT-ELT	Installed flex conduit for power and data wiring.
09/01/2022	KTV	MCC-MOM	OPR-WTO	Set up MAA and DFH with tasks to complete starting with process air flow meters and control valves wiring. Supervised DFH performing injection well backflush.
09/01/2022	DFH	MCC-MOM	CMT-ELT	Assist MAA with running water tight flex conduit and wiring to FIT-35XX
09/01/2022	MAA	MCC-MOM	CMT-ELT	Continued flex conduit installation but had to abort due to missing parts. Made terminal connections at FIT-35XX and began tracing wiring to PLC3.
09/01/2022	DFH	MCC-MOM	CMT-ELT	Continued with MAA, tracing wiring from FIT-35XX to PLC-3 cabinet. With MAA, trace wiring from FIT-35XX to PLC-3 cabinet and noted for later use.
09/01/2022	MAA	MCC-MOM	CMT-ELT	BFV-3204: Traced JSP wiring from valve to PLC 3. JSP# 36 and 37 at valve connect to JSP 61 and 62 at PLC3 respectively.
09/01/2022	MAA	MCC-MOM	CMT-ELT	Traced JSP from FIT-35XX on process train 1 to PLC3. JSP #43 at FIT connects to JSP #48 at PLC.
09/01/2022	DFH	MCC-MOM	CMT-ELT	Continued assisting MAA with tracing wiring from FIT-35XX.
09/01/2022	MAA	MCC-MOM	CMT-ELT	Traced JSP's from valve to PLC3. JSP#'s 41 and 42 at valve connect to JSP's 53 and 54 at PLC3 respectively.
09/01/2022	MAA	MCC-MOM	GMT-HSK	Picked up tools and trash from work area.
09/02/2022	JAA	MCC-MOM	OPR-WTO	Check and review SCADA and trends. Perform walking checks and visuals of the WTP.
09/02/2022	MAA	MCC-MOM	OPR-WTO	SCADA overview. Reviewed maintenance items assigned to me. WTP walk through; noticed several sprinklers needing adjustment and a few leaking at lower OCU bed.
09/02/2022	JAA	MCC-MOM	OPR-GLB	Continued priming large container.
09/02/2022	MAA	MCC-MOM	CMT-GLB	Continued painting unit.
09/02/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails.

INTEGRATED PERFORMANCE CONSULTANTS

202209 MCC ONM Report

Period: 09/01/2022 - 09/30/2022

Date	Name	Job	Task	Notes
09/02/2022	JAA	MCC-MOM	OPR-WTO	Collect daily samples Iced and storage. Perform pH and EC test after calibrate the probe.
09/02/2022	MAA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/02/2022	GXK	MCC-MOM	OPR-WTO	Training MAA and JAA on UV cleaning. I updated the SOP attachment. I performed UV2 CIP while explaining the sequence to them. I then guided them while they performed UV3 CIP. Lastly, I let them perform UV3 CIP on their own and I just verified at the end.
09/02/2022	JAA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/02/2022	MAA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/02/2022	JAA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/02/2022	MAA	MCC-MOM	CMT-GLB	Adjusted spray patters to several sprinkler heads for better coverage of bed. Cleaned two leaky heads, one improved the other remains leaking and will need to be replaced.
09/03/2022	RRV	MCC-MOM	OPR-WTO	Alarm: 113 - EQ Tank Insufficient Pump Up. Alarm follows a low volume PDPS cycle, as usual, and is not indicative of a problem. No action taken.
09/03/2022	JAA	MCC-MOM	SAM-WTO	Perform pH and EC test. Collect daily samples Iced and storage. File COC's into corresponding files.
09/03/2022	GXK	MCC-MOM	OPR-WTO	Logged in remotely. Checked plant functions OK. Inspected trends are normal. Reviewed logbook, sampling logs, and process logs.
09/03/2022	BLV	MCC-MOM	GMT-JAN	Cleaned mcc.
09/04/2022	EDM	MCC-MOM	SAM-WTO	Took daily EFF samples and prepared sample paperwork for lab pick-up.
09/04/2022	GXK	MCC-MOM	OPR-WTO	Logged in remotely. Checked plant functions OK. Inspected trends are normal. Reviewed logbook, sampling logs, and process logs.
09/05/2022	EDM	MCC-MOM	SAM-WTO	Took daily EFF samples and prepared sample paperwork for lab pick-up.
09/05/2022	RRV	MCC-MOM	OPR-WTO	1609 Alarm: 120 - EQ Flow Anomaly to Bioreactor 2. P1250 is only pumping about 12 gpm for some reason, and it's been doing that since restarting after the last time it filled up PAT2. Shut P1250 down and then started it back up. Now it pumps normally. In case it has a problem that is more than just a one off oddity, I checked P1220. It pumps ok, but only about 90 gpm, which is it's known limitation, but at least we have the abilty to pump more than enought to meet current demand in the event P1250 gives up completely.
09/05/2022	RRV	MCC-MOM	OPR-WTO	Process check to verify all ok with P1250, since PAT2 was pretty low (8.1 feet) when I got it pumping again. Found PLC2 and PLC5 disconnected on SCADA. Went into Igniont device configuration and toggled them both OFF and back ON to correct. PAT2 level is working its way up slowly, currently at 9.6 feet.
09/06/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Review recent DigAlerts emails.
09/06/2022	MAA	MCC-MOM	SAM-WTO	Collected Weekly EFF A and process samples. Collected Daily Eff sample.
09/06/2022	MAA	MCC-MOM	CMT-ELT	BFV-3204; With GXK's supervision opened breaker for FIT-35XX. Checked for power at wiring by BFV-3204; no power. Indicating breaker for FIT-35XX is also breaker for BFV-3204 or breaker for BFV-3204 is already in open position. Since there is no power to wires I began conduit installation to BFV-3204.
09/06/2022	EDM	MCC-MOM	GMT-HSK	Housekeeping at 7000, rinsed and washed deck and rails

INTEGRATED PERFORMANCE CONSULTANTS

202209 MCC ONM Report

Period: 09/01/2022 - 09/30/2022

Date	Name	Job	Task	Notes
09/06/2022	MAA	MCC-MOM	CMT-ELT	BFV-3204: Continued installing conduit and running power and data cables to BFV valve. Did not land wires at valve. Cleaned up work area and notified GXK of breaker back to closed position.
09/07/2022	KTV	MCC-MOM	OPR-WTO	Zone 8 Alarm: EQ tank insufficient pump up. Normal false alarm caused by influent and plant drain pumps running close together. No changes.
09/07/2022	JAA	MCC-MOM	CMT-GLB	Completed maintenance.
09/07/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Review recent DigAlerts emails.
09/07/2022	JAA	MCC-MOM	CMT-GLB	Completed maintenance.
09/07/2022	EDM	MCC-MOM	SAM-WTO	Took Weekly A's & Daily EFF samples and prepared sample paperwork for lab pick-up Disinfected sampling containers and set up to soak
09/07/2022	JAA	MCC-MOM	CMT-GLB	Completed maintenance.
09/07/2022	EDM	MCC-MOM	SAM-WTO	Rinsed and replaced composite sampling bvessels and secured for next sampling interval
09/08/2022	KTV	MCC-MOM	OPR-WTO	Zone 8 Alarm - EQ insufficient pump up. This is a false alarm caused by the influent pumps and plant drain pumps running close together.
09/08/2022	DFH	MCC-MOM	OPR-WTO	Plant operations check, review level, trends, log and lab sampling data.
09/08/2022	MAA	MCC-MOM	OPR-WTO	Plant operations and trends check. Reviewed TSS test procedures with EDM.
09/08/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Cycled the power to the AC in the headwork electrical room. This time it started working. Review recent DigAlerts emails.
09/08/2022	MAA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/08/2022	DFH	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/08/2022	MAA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/08/2022	GXK	MCC-MOM	OPR-WTO	Trained DFH and MAA on SC2310 and SC2320 rotation. We cleaned and inspected SC2320 before putting it back in service. We took SC2310 out of service, and we cleaned and inspected it. We removed the SC2310 trash. We also removed the trash of SC2101. Next, I trained them on the H2S and LEL gas detector calibration procedures. We calibrated AIT2171, AIT2172, AIT2371, and AIT2372. I couldn't find the PMT for the calibration. I searched the records and saw there used to be a .100 PMT for all these detectors as recently as last year, but it was removed somehow. Next DFH and MAA did the IW2 backwash and I monitored remotely. I created a new IW2 trend set for monitoring.
09/08/2022	MAA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/08/2022	MAA	MCC-MOM	CMT-ELT	Notified GXK, LOTO associated breaker for FIT-35XX and verified absence of power at wiring for BFV-3104. Began conduit installation for FIT-35XX.
09/08/2022	DFH	MCC-MOM	SAM-WTO	Collect daily EFF sample and tested permeate sample for pH, EC, NH3, NO2, NO3, Alk, and Cl2. Ran MLSS test on BIO2 and MBT.

INTEGRATED PERFORMANCE CONSULTANTS

202209 MCC ONM Report

Period: 09/01/2022 - 09/30/2022

Date	Name	Job	Task	Notes
09/08/2022	GXK	MCC-MOM	OPR-WTO	Noticed the date and time on the IW2 local HMI was way off. I thought it gets the time from the PLC but the PLC time was relatively accurate. I updated the PLC time and looked into the HMI Windows environment time. I updated it to the current date and time.
09/08/2022	JAA	MCC-MOM	CMT-ELT	With MAA running conduit and wiring to BFV-3104. Cleaned work area.
09/08/2022	MAA	MCC-MOM	CMT-ELT	With JAA; ran conduit and wiring to BFV-3104. Did not land wiring. Cleaned work area. Notified GXK breaker was closed, verified power to FIT-35XX.
09/08/2022	DFH	MCC-MOM	SAM-WTO	Completed MLSS and CSS testing. Inventoried new sampling bottles and stored accordingly.
09/08/2022	MAA	MCC-MOM	GEN-ADM	Looked up wiring manual for BVF-3104 and 3204.
09/08/2022	KTV	MCC-MOM	OPR-WTO	Zone 8 Alarm - EQ tank insufficient pump up. Remote check showed this to be a regular false alarm caused by influent and plant drain pump cycles happening close together.
09/09/2022	JAA	MCC-MOM	OPR-WTO	Check plant operation and check and review trends. Visual inspection walking through the plant.
09/09/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Noticed higher than normal flows. Inspected pump station level trends and found an increased constant flow overnight to LPPS. Asked CEA if he has contacts in the City library. Reviewed recent logs. Review recent DigAlerts emails.
09/09/2022	JAA	MCC-MOM	SAM-WTO	Perform pH and EC test after calibrate the probe. Collect daily samples Iced and storage.
09/09/2022	JAA	MCC-MOM	GMT-AUT	Cleaned and washed truck.
09/09/2022	GXK	MCC-MOM	OPR-WTO	Continued to work on figuring out the source of the extra flow. Sent JAA to inspect MH-B6&7 by the library. He reported there is flow coming from the library leg. He sent me a video and it is consistent with my assessment of an additional 20-30 GPM. JAA checked the library bathrooms they were not leaking and were closed to the public. I asked him to check with the LA county water district facilities and they reported no leaks. The courthouse was closed. I asked JAA to check the flow first thing in the morning tomorrow.
09/09/2022	JAA	MCC-MOM	OPR-GLB	By GXK request check and inspect MH-B6&7 by the library to find out from where we are getting between 20-30 gmp. Check bathrooms of the library no leaks noticed. Talk to personal of the LA county water district facilities trying to find out if the they any leaks or issues in the facilities, they said they not have issues. Tried to check in the courthouse but was closed.
09/09/2022	BLV	MCC-MOM	GMT-JAN	Cleaned MCC bathroom and office
09/09/2022	KTV	MCC-MOM	OPR-WTO	Zone 8 Alarm - PDPS excessive 15 min level increase. This alarm is caused by current rain. EQ level remains normal for this time of day, so EQ smoothing appears to be doing a good job controlling the excess flow. This is a great test for the EQ smoothing program so left the system as is and plan to review in the morning.
09/09/2022	RRV	MCC-MOM	OPR-WTO	2332 Alarm: Tags for alarms 112 - EQ Tank Excessive 1 Hour Level Increase, 113 - EQ Tank Insufficient Pump Up, & 128 - PDPS Excessive 15 Minute Level Increase were all red, but 113 was bypassed. I'm not sure about 112 and 113, but this alarm was definitely related to 128, since the PDPS level did exhibit untuaually rapid fill rate starting around 2200 hrs, apparently due to rain, with the heaviest rain between 2330 and 2345 hours. The weather forcast indicates rain may still be in progress, although intermittent by the look of the PDPS level trend. Although this was a significant event for the PDPS, due to its relatively small volume, the effect on the EQT was barely noticeable, so whatever rain there was, it was relatively insignificant in the larger picture.

INTEGRATED PERFORMANCE CONSULTANTS

202209 MCC ONM Report

Period: 09/01/2022 - 09/30/2022

Date	Name	Job	Task	Notes
09/10/2022	RRV	MCC-MOM	OPR-WTO	0357 Alarm: 113 - EQ Tank Insufficient Pump Up. Alarm related to low volume PDPS pump cycle. No problem noted and no action taken.
09/10/2022	KTV	MCC-MOM	OPR-WTO	Remote SCADA and trend review okay. EQ smoothing handled yesterday's rain with no issues.
09/10/2022	GXK	MCC-MOM	OPR-WTO	Logged in remotely. Checked plant functions OK. Inspected trends are normal. Reviewed logbook, sampling logs, and process logs.
09/10/2022	JAA	MCC-MOM	SAM-WTO	Perform pH and EC test after calibrate the probe. Collect daily samples Iced and storage. File COC's into corresponding files.
09/11/2022	EDM	MCC-MOM	SAM-WTO	Took daily EFF samples and prepared sample paperwork for lab pick-up.
09/11/2022	KTV	MCC-MOM	OPR-WTO	Remote SCADA and trend review okay.
09/12/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails. Calculated desired MBT hauling volume in order to bring down the sludge concentration from 3.6 to 2.6% solids. Talked to Ely and schedule hauling for the week.
09/12/2022	DFH	MCC-MOM	GMT-AUT	Repaired F250 rear sliding bed latch and lock.
09/12/2022	RRV	MCC-MOM	OPR-WTO	Process discussions with GXK and CEA. Reviewed new EQ control program performance during rain event over the weekend.
09/12/2022	GXK	MCC-MOM	OPR-WTO	Responded to the email chain about the errors associated with the lab results data upload to GeoTracker. Inspected the EDF files and identified the issue as empty data cells. Sent explanation back to PCL. The plant experienced a power outage at 16:45. Reset alarms and restarted faulted equipment. Inspected the generators' fuel levels at the plant, LPPS, and BPPS. All the generators have more than 80% fuel. BPPS has grid power, while LPPS is running on the generator. Verified the pumps are running and pumping properly.
09/12/2022	GXK	MCC-MOM	OPR-WTO	Continue to monitor the power outage and the effects on the plant and equipment. Noticed the RW tank level increased and that IW2 is offline. Drove to IW2 location and found the power was down there as well. Inspected the battery backup power supply and it seems that the battery needs to be replaced. No further actions were taken. There is no way to operate the IW2 without power. The RW tank will reach the overflow level and start discharging to the ponds as intended.
09/12/2022	KTV	MCC-MOM	OPR-WTO	Zone 6, 7 and 8 alarms - seems to have been caused by another power issue. By the time I logged in the alarms had cleared, but P-1250, B-4620 and P-3111 all hard tripped at the VFD. Came onsite and cleared the local faults. Restarted each and verified all function normally. Noticed an fault indication on MOV-7015, but I'm fairly confident this is an unused valve that is always indicating in alarm. Will discuss with GXK and reprogram the fault if this valve is unused.
09/13/2022	KTV	MCC-MOM	OPR-WTO	Was notified by MAA of flow at the lower percolation pond. Investigated with DFH and found IW2 wasn't communicating with SCADA. DFH arrived at IW2 and found the HMI had no power. Investigated with DFH and discovered the UPS controller was in the OFF position. Rather than staying on during the outage, the UPS appeared to fail in OFF. Put the UPS back ON and PLC/HMI power was restored. Monitored a normal IW2 cycle.

INTEGRATED PERFORMANCE CONSULTANTS

202209 MCC ONM Report

Period: 09/01/2022 - 09/30/2022

Date	Name	Job	Task	Notes
09/13/2022	DFH	MCC-MOM	OPR-WTO	Plant operations check. KTV notified to investigate Clearwell level is at high level. Looks like IW2 comm loss for unknown reason.
09/13/2022	EDM	MCC-MOM	SAM-WTO	Took weekly samples, delayed effluent collection and prepared sample paperwork for lab pick-up.
09/13/2022	DFH	MCC-MOM	CMT-ELT	Arrived on site to investigate IW2 comm loss. Accessed control and electrical panels with KTV. Control panel seems to be offline. Verified no breakers are tripped. Accessed low voltage panel and found PLC offline with no power and UPS controller off. Traced wiring back from PLC to fuse and verified fuse is okay. Reset UPS Controller and PLC powered back online and into run mode. Verified IW2 HOA are in normal operating positions but unable to operate HOA's due to being logged out of the system on HMI. Verified level in clearwell is starting to drop.
09/13/2022	KTV	MCC-MOM	OPR-WTO	Discussed power outage issues with GXK and RRV. Reviewed overnight trends and determined the clearwell was at pond level from 1040 - 0650. Checked PLC to see if the pond flow totalizer was functional. Found the pond flow totalizer has a bug that causes it to record a false baseline flow total every day. By subtracting yesterday's total from the baseline, I was able to estimate yesterday's pond flow at ~4,000 gallons; however this will be very difficult to do for today. Downloaded the raw trend data and uploaded to a sheet in the monitoring folder. Calculated pond flows from the trend data were - 9/12: 4,220 gallons and 9/13: 20,451 gallons.
09/13/2022	DFH	MCC-MOM	GMT-DIG	Dig alert A222551121. No conflicts found but I did mark out our SS-FM, FO, and RW lines due to close proximity of work.
09/13/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails.
09/13/2022	DFH	MCC-MOM	GMT-DIG	Dig alert A222520820, found a conflict and marked out SS, FO, and RW lines. Dig alert B222510887, no conflict found.
09/13/2022	GXK	MCC-MOM	OPR-WTO	Run BIO2 and MBT TSS analysis at the lab. Checked the revised EDF file sent from the lab and it uploaded with no errors to the GeoTracker website.
09/13/2022	EDM	MCC-MOM	SAM-WTO	Coolected daily EFF samples closer to pickup window and prepared sample paperwork for lab pick-up.
09/13/2022	DFH	MCC-MOM	CMT-MET	Lockset to lab unable to use handle to open door when deadbolt is unlocked. Removed the locking mechanism and lubricated all moving parts. It looks as though the locking portion is sticking somewhere. After further troubleshooting, I was only able to get the door handle to work once every 6 tries. Replaced the lab main door lockset with the rear inside door which has no core. Installed lockset and tested, okay. Installed rear inner door lockset set on passage and tested, okay.
09/13/2022	DFH	MCC-MOM	CMT-GLB	Readjusted lab door latch due to strike plate not fully engaging latch when door is closing. Researched Best 40H Mortise locks, keys, and cores. Sent a request for pricing from local vendor.
09/14/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/14/2022	CEA	MCC-MOM	SAM-WTO	Collect weekly INF and EFF B composite samples. De-contaminate sampler jugs and replaced plastic spigots. Look through the sampling COC folder and found no monthly Eff samples taken for the current month, discussed this with KTV and scheduled it for next Tuesday 09/20.
09/14/2022	JAA	MCC-MOM	SAM-WTO	Collect daily samples Iced and storage.

INTEGRATED PERFORMANCE CONSULTANTS

202209 MCC ONM Report

Period: 09/01/2022 - 09/30/2022

Date	Name	Job	Task	Notes
09/14/2022	JAA	MCC-MOM	GMT-AUT	Wash and clean service truck.
09/14/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/14/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/14/2022	CEA	MCC-MOM	OPR-WTO	Observed membranes process, UV, and EFF quality. Production increased to 100 gpm, with high influent flows due to IW2 backwashing earlier. Observed MBR1 CC. MBT- 15000 gallons sludge haul completed, wasting set @ 2000 gpd, resumed wasting.
09/14/2022	JAA	MCC-MOM	GMT-AUT	Washed and cleaned truck.
09/14/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/14/2022	GXK	MCC-MOM	PMT-GLB	Hauled 15,000 gallons from Solids Storage Tank.
09/14/2022	GXK	MCC-MOM	OPR-WTO	Review the plant construction pictures looking for any pictures of the gas line before burial. I didn't find any.
09/14/2022	GXK	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/14/2022	GXK	MCC-MOM	OPR-WTO	Organized supplies in the lab. Completed the TSS analysis from yesterday. Completed logs.
09/14/2022	CEA	MCC-MOM	OPR-WTO	Plant process check, reviewed process data trends and logbook activity. I noticed MBR1 in production mode with no backpulsing cycles completed, check the MBR alarms log, and found no alarms active but regardless I reset alarms and monitored membranes production swapped, MBR1 resumed backpulsing to normal. Check the chemicals room and found pre-UV chlorination system feed tubing leaking, look for spare parts to make repairs. Legacy and Bluff park pumping stations and IW2 operations checks.
09/14/2022	DFH	MCC-MOM	GMT-AUT	Assist MAA to jump start truck.
09/14/2022	CEA	MCC-MOM	CMT-GLB	Temporary repair of damaged discharge line tubing. Discussed with GXK the possibility of re-routing the chemical feed line and ordering parts for a permanent repair.
09/14/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails. Talked to CEA about chlorine tube replacement and routes.
09/15/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails.
09/16/2022	CEA	MCC-MOM	CMT-GLB	P-1250 flow dropped from 80.0 to 22.5 gpm. This caused the post-Anox tank level to drop to 11". Verify pump speed @ 100%. Enabled P-1220 and verified flow > 80 gpm. Troubleshot P-1250; Inspect motor- okay, purged discharge line and re-start- normally, pump running speed 65% flow >80.0 gpm. Put P-1250 back in service.
09/16/2022	CEA	MCC-MOM	OPR-WTO	Plant operations check, daily routine rounds. Legacy and Bluff park pumping stations, and IW2 checks. Review process data trends.
09/16/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/16/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Increased P8130 multiplier from 0.07 to 0.11. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails.
09/16/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.

INTEGRATED PERFORMANCE CONSULTANTS

202209 MCC ONM Report

Period: 09/01/2022 - 09/30/2022

Date	Name	Job	Task	Notes
09/16/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/16/2022	CEA	MCC-MOM	OPR-WTO	Headworks, MBT, chemicals room, upper, and lower odor control beds checks. MBT flushed the waste line.
09/16/2022	CEA	MCC-MOM	CMT-GLB	Troubleshooting EF-9410 running at a higher speed of 85% to maintain setpoint 2700 scfm, normally only need to run at around 60%. Disabled the unit and hang LOTO; removed guards to Inspect the motor, belts, and electrical normal, exercise valves, check for any air leaks none found. Removed LOTO and enabled the motor for testing running speed is 89% producing 2700 scfm.
09/16/2022	CEA	MCC-MOM	OPR-WTO	Monitored UV system performance Started UV train 3 CIP.
09/16/2022	CEA	MCC-MOM	CMT-GLB	CIP completed.
09/16/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/16/2022	GXK	MCC-MOM	SAM-GLB	Collected Daily EFF samples for lab analysis.
09/17/2022	KTV	MCC-MOM	OPR-WTO	Zone 8 alarm - unusual flow to bioreactor 2. P-1250 appears to have lost prime. Put P-1250 in OFF so that P-1220 would start, and verified flow increased to ~70 gpm. Turned P-1250 back in AUTO and verified pump was primed. Due to the low flow issue the current speed command was overshooting setpoint at ~100 gpm instead of 75 gpm. PAT level is low so overshooting setpoint is okay for now. Monitored PAT level and P-1250 control loop returning back to normal pump rate.
09/17/2022	CEA	MCC-MOM	OPR-WTO	Plant operations checks, Bluff and Legacy park pumping stations, and IW2 checks.
09/17/2022	JAA	MCC-MOM	SAM-WTO	Perform pH and EC test after calibrate the probe. Collect daily samples Iced and storage. File COC's into corresponding files.
09/17/2022	BLV	MCC-MOM	GMT-JAN	Cleaned MCC bathroom, office, and lab.
09/18/2022	CEA	MCC-MOM	OPR-WTO	Plant operations, bluff and Legacy Park pumping stations, and IW2 checks.
09/18/2022	EDM	MCC-MOM	SAM-WTO	Took daily EFF samples and prepared sample paperwork for lab pick-up.
09/19/2022	CEA	MCC-MOM	OPR-WTO	Plant process check, daily routine rounds. Bluff and Legacy park pumping stations, and IW2 checks.
09/19/2022	CEA	MCC-MOM	OPR-WTO	Upper and lower odor control bed checks, manually run head sprayers - normal.
09/19/2022	CEA	MCC-MOM	CMT-GLB	Back up generator engine would not start, and further investigation revealed a low battery measured at 5.8 volts. Set up a portable generator and connect the battery charger and leave it charging.
09/19/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/19/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Increased P8130 multiplier from 0.08 to 0.1. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails.
09/19/2022	CEA	MCC-MOM	CMT-GLB	Legacy Park LCP check, AC unit not working replaced controller batteries, and reset the unit started running normally. General housekeeping sprayed insect repellant inside LCP.
09/19/2022	EDM	MCC-MOM	SAM-WTO	Took daily EFF samples and prepared sample paperwork for lab pick-up.
09/19/2022	CEA	MCC-MOM	OPR-WTO	Headworks equipment checks; SC-2100 rinse the fine screen and removed solids compactor chute trash. Observed MBR CC, and check chemicals feed equipment. Place an order of citric acid.

INTEGRATED PERFORMANCE CONSULTANTS

202209 MCC ONM Report

Period: 09/01/2022 - 09/30/2022

Date	Name	Job	Task	Notes
09/20/2022	KTV	MCC-MOM	OPR-WTO	Plant walkthrough. SCADA and trend review. Found aeration blower and upper OCF in wrong lead lag position. Upper OCF had EF-9410 in OFF. Reviewed logbook and saw CEA entry about high running speed. Put EF-9410 in AUTO and running speed is now normal. Manually rotated B-35X0. Reviewed logic and trends, and found that B-35X0 rotation swapped early due to the recent power outage.
09/20/2022	EDM	MCC-MOM	SAM-WTO	Took Weekly Process samples
09/20/2022	EDM	MCC-MOM	SAM-WTO	Finished with Weekly Eff + Daily Eff samples and prepared sample paperwork for lab pick-up.
09/20/2022	EDM	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/20/2022	EDM	MCC-MOM	GMT-HSK	Housekeeping at 7000 MBT platform, cleaned and disinfected common surfaces and scraped caked sludge
09/21/2022	CEA	MCC-MOM	OPR-WTO	Plant operations checks. Bluff and Legacy park pumping stations and IW2 checks. MBT solids storage tank running and normal operating levels purged P-73X0 and resumed filtration.
09/21/2022	JAA	MCC-MOM	CMT-GLB	Assisting CEA to install a new tubing for pre UV chlorination.
09/21/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails.
09/21/2022	CEA	MCC-MOM	SAM-WTO	Collect Eff monthly samples, and set up a cooler for lab courier pick up.
09/21/2022	CEA	MCC-MOM	CMT-GLB	Attempt to pull spare tubing to replace pre-UV chlorination with no success, will cut sections of existing tubing sleeves and try again.
09/21/2022	EDM	MCC-MOM	SAM-WTO	Took weekly B & daily EFF samples and prepared sample paperwork for lab pick-up.
09/21/2022	JAA	MCC-MOM	CMT-GLB	Continue with CEA running new tubing.
09/21/2022	MAA	MCC-MOM	GMT-AUT	Washed and organized work truck.
09/21/2022	CEA	MCC-MOM	CMT-GLB	Removed sections of tubing sleeve and pulled replacement tubing for pre-UV chlorination feed pump.
09/21/2022	MAA	MCC-MOM	GMT-AUT	Measured and looked up chain grade used on trailer. Ordered replacement shackles for chain.
09/21/2022	CEA	MCC-MOM	OPR-WTO	Picked up tools and cleaned up the job site, updating plant logs. Observed MBR1 CC (acid).
09/21/2022	JAA	MCC-MOM	CMT-GLB	Finishing up running the spare tubing for the pre UV chlorination. Clean up site.
09/21/2022	EDM	MCC-MOM	SAM-WTO	Collected COCs, checked logs for accurate entries and filed. Rinsed & prepared composite sampling materials for next sampling cycle.
09/22/2022	MAA	MCC-MOM	OPR-WTO	Reviewed logs and notes. WWTF SCADA review ok, need to manually rotate SC-23XX screens for SC-2320 to be in service. Discussed planned activities for today with KTV. Quick overview of PLC 3 as built wiring drawings.
09/22/2022	MAA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/22/2022	MAA	MCC-MOM	OPR-WTO	Continued reviewing PLC as built wiring diagram. Found spare channels 2-7 on module R2-S0, will need to verify channels are free at panel.
09/22/2022	MAA	MCC-MOM	OPR-GLB	Checked PLC 3 panel, verified spare inputs are free.
09/22/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails.

INTEGRATED PERFORMANCE CONSULTANTS

202209 MCC ONM Report

Period: 09/01/2022 - 09/30/2022

Date	Name	Job	Task	Notes
09/22/2022	MAA	MCC-MOM	OPR-GLB	Grabbed materials for FIT-1211 re-pipe. Verified with KTV FIT-1211 was correct meter. Measured and cut pipe for flanged assembly. Dry fit.
09/22/2022	MAA	MCC-MOM	CMT-PLB	Assembled and glued flanged assembly for FIT-1211 modification. With GXK, bumped and drained P-1210 line in order to remove FIT. LOTO P-1210. Disassembled old FIT flanges. Cleaned and checked condition of gaskets; good. Installed new flanged assembly which required slight adjustment to dresser coupling.
09/22/2022	GXK	MCC-MOM	OPR-WTO	Asissted MAA with the installation of a new section of pipe and fitting for a replacement of FIQ-1211 with a thermal flow meter. I bump-run P-1210 to release the check valve lever, we set it in the open position to drain the line. I LOTO P-1210 for the duration of the work.
09/22/2022	MAA	MCC-MOM	CMT-PLB	Continued installation of FIT flanged pipe assembly. Cleaned up work area.
09/22/2022	MAA	MCC-MOM	GMT-AUT	Cut worn out chain links and cut both chain sections to same length on trailer hitch. Added shackles to connect chain sections.
09/23/2022	CEA	MCC-MOM	OPR-WTO	Plant operations and process data trends review, Bluff and Legacy park pumping stations, and IW2 checks.
09/23/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/23/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Noticed BIO2 ML concentration trending down, nitrate trending up, chlorine demand increasing and UVT decreasing. I lowered the daily solids wasting from 2,000 to 1,500 GPD by reducing the MBT filtration time SP from 40 to 30% of the time. I also increased the P8130 multiplier from 0.1 to 0.11. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails.
09/23/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/23/2022	JAA	MCC-MOM	CMT-GLB	Remove damaged bearings from the wheels. Clean grease and debris of the wheels.
09/23/2022	CEA	MCC-MOM	PMT-INT	Completed equipment calibrations.
09/23/2022	JAA	MCC-MOM	SAM-WTO	Perform pH and EC test after calibrate the probes. Collect daily samples Iced and storage.
09/23/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/23/2022	JAA	MCC-MOM	CMT-GLB	Install new bearings and add lubricant to the set of four wheels.
09/23/2022	CEA	MCC-MOM	CMT-GLB	Fabricated trunnions spare replacement wheels set of four.
09/23/2022	JAA	MCC-MOM	GMT-HSK	Perform housekeeping to chemicals room.
09/23/2022	CEA	MCC-MOM	OPR-WTO	Headworks, upper and lower odor control beds, and MBT process checks.
09/23/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/24/2022	GXK	MCC-MOM	OPR-WTO	Logged in remotely. Checked plant functions OK. Inspected trends are normal. Adjusted P8130 multiplier to 0.1. Reviewed logbook, sampling logs, and process logs.
09/24/2022	JAA	MCC-MOM	SAM-WTO	Perform pH and EC test after calibrate the probes. Collect daily samples Iced and storage.
09/25/2022	EDM	MCC-MOM	SAM-WTO	Took daily EFF samples and prepared sample paperwork for lab pick-up.
09/25/2022	GXK	MCC-MOM	OPR-WTO	Logged in remotely. Checked plant functions OK. Inspected trends are normal. Reviewed logbook, sampling logs, and process logs.

INTEGRATED PERFORMANCE CONSULTANTS

202209 MCC ONM Report

Period: 09/01/2022 - 09/30/2022

Date	Name	Job	Task	Notes
09/26/2022	CEA	MCC-MOM	OPR-WTO	Plant operations check review process data trends and MCC data sheet. Observed Bluff park irrigation cycle completed. Bluff and Legacy park pumping stations, and Iw2 checks. Make plant routine rounds; chemicals room, odor control beds, and MBT process checks.
09/26/2022	DFH	MCC-MOM	OPR-WTO	Plant operations check, review level, trends, log and lab sampling data.
09/26/2022	CEA	MCC-MOM	CMT-GLB	Pump check; removed discharge injection point tubing and cleaned, removed pressure regulator valve for cleaning and inspection.
09/26/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/26/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/26/2022	CEA	MCC-MOM	CMT-GLB	ME-23X0 check gearbox oil levels - normal.
09/26/2022	CEA	MCC-MOM	OPR-WTO	Headworks operations checks, SC-2320, inspect - normal, flushed water diffusers, removed washer compactor chute trash.
09/26/2022	DFH	MCC-MOM	SAM-WTO	Collect daily EFF sample and tested permeate sample for NH3, NO2, NO3, Alk, pH and EC.
09/26/2022	CEA	MCC-MOM	OPR-WTO	Check MBR process, exercise MBR tanks drain valves, and check permeate pumps.
09/26/2022	CEA	MCC-MOM	OPR-WTO	Flushed MBT WAS and MBR RAS lines. Observed MBR1 CC, verify chemicals feed equipment operated normally. MBR1 CC was completed and put back in production, and monitoring Eff quality.
09/27/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails. Contacted Amazon about paper towels order that we didn't get yet. They refounded the order. I placed an order for additional cleaning and housekeeping materials.
09/27/2022	EDM	MCC-MOM	SAM-WTO	Started Weekly A sampling
09/27/2022	DFH	MCC-MOM	OPR-GLB	Picked up MX-3130 from repair shop.
09/27/2022	EDM	MCC-MOM	SAM-WTO	Finished weekly sampling, collected daily samples and prepared all for lab pick-up.
09/27/2022	EDM	MCC-MOM	SAM-WTO	Replaced dip stick sampling jar, housed tool in IPC container to protect from sun UV
09/27/2022	EDM	MCC-MOM	SAM-WTO	Began organizing COCs and auditing Sampling Sign Log entries.
09/28/2022	CEA	MCC-MOM	OPR-WTO	Plant operations check observed Bluff park irrigation cycle completed. Bluff and Legacy park pumping stations, and IW2 checks.
09/28/2022	EDM	MCC-MOM	SAM-WTO	Organized and filed previous days COCs
09/28/2022	CEA	MCC-MOM	SAM-WTO	Conduct process MLSS analysis. Housekeeping/organizing lab equipment.
09/28/2022	DFH	MCC-MOM	OPR-WTO	Removed MX-3130 from truck and store inside lab.
09/28/2022	EDM	MCC-MOM	SAM-WTO	Took B samples and prepared sample paperwork for lab pick-up.
09/28/2022	MAA	MCC-MOM	OPR-WTO	Process, trends and SCADA review. Plant walkthrough of MBT, Headworks, EQ, process trains and MBR areas. Minor housekeeping at EQ area, picked up some trash and put away water hose.
09/28/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/28/2022	MAA	MCC-MOM	GMT-HSK	Housekeeping MBR-4000 grating and surrounding area.

INTEGRATED PERFORMANCE CONSULTANTS

202209 MCC ONM Report

Period: 09/01/2022 - 09/30/2022

Date	Name	Job	Task	Notes
09/28/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Plant walk inspecting headworks, MBT, electrical rooms, HP system, UV system, Online analyzers, Odor control system, and chemicals room. Review recent DigAlerts emails.
09/28/2022	JAA	MCC-MOM	GMT-AUT	Wash and clean vactor truck.
09/28/2022	CEA	MCC-MOM	OPR-WTO	Observe MBR1 CC completed. Monitoring equipment weekly rotation. Check upper and lower odors control beds.
09/28/2022	JAA	MCC-MOM	CMT-GLB	Clean and remove rust from case of the drum with the stainless steel pickling gel.
09/28/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/28/2022	JAA	MCC-MOM	CMT-GLB	Clean and remove rust from case of the drum with the stainless steel pickling gel.
09/29/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Noticed MBT production reduced to 1,000 GPD. Increased production time to 50% for an estimated 1,600 GPD. Reviewed recent logs. Review recent DigAlerts emails.
09/29/2022	JAA	MCC-MOM	SAM-WTO	Collect daily samples Iced and storage.
09/30/2022	CEA	MCC-MOM	OPR-WTO	Plant operations checks, observe Bluff park irrigation cycle completed. Bluff and Legacy park pumping stations, and IW2 checks. Make plant routine rounds.
09/30/2022	JAA	MCC-MOM	GMT-AUT	Do maintenance and switch tools from Tacoma to the truck with the crane.
09/30/2022	MAA	MCC-MOM	OPR-WTO	Reviewed logs and SCADA. Discussed service truck repairs with DFH and needed parts. Followed up with flowserve on parts for spray pumps, contacted local sales rep. Will get quote later today.
09/30/2022	DFH	MCC-MOM	GMT-AUT	Reviewed service truck repairs with MAA.
09/30/2022	CEA	MCC-MOM	PMT-INT	Completed equipment calibrations.
09/30/2022	MAA	MCC-MOM	GMT-AUT	Began replacing leaky valve block on service truck hydraulics.
09/30/2022	JAA	MCC-MOM	GMT-AUT	Continued switch and maintenance tools.
09/30/2022	CEA	MCC-MOM	CMT-INT	Perform 2 points calibration- normal.
09/30/2022	MAA	MCC-MOM	GMT-AUT	Continued work on hydraulic valve block on service truck. Source of leak is damaged seal on one of the hose fittings. Fitting appears to be missing washer as well. Will replace seal and add washer. We do not have correct sized washer on hand so I'll need to check at Anawalt.
09/30/2022	CEA	MCC-MOM	CMT-GLB	LAHH- 3251 float not responding On/Off condition. LALL- 3251 float not responding On/Off condition. Will continue troubleshooting.
09/30/2022	GXK	MCC-MOM	OPR-WTO	Plant checks. Inspected trends are normal and process health. Reviewed recent logs. Review recent DigAlerts emails.
09/30/2022	CEA	MCC-MOM	OPR-WTO	Inspect bioreactor 2 condition normal, verify deoxygenation pump recirculation flow- normal, check and verify instruments readings vs handheld meter.
09/30/2022	MAA	MCC-MOM	OPR-GLB	At LPP, took requested pictures of site and sent to KTV.
09/30/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.
09/30/2022	MAA	MCC-MOM	OPR-GLB	At anawalt in search of washers for service truck fittings; none of correct size.
09/30/2022	CEA	MCC-MOM	PMT-GLB	Completed preventive maintenance.

INTEGRATED PERFORMANCE CONSULTANTS

202209 MCC ONM Report

Period: 09/01/2022 - 09/30/2022

Date	Name	Job	Task	Notes
09/30/2022	CEA	MCC-MOM	OPR-WTO	Check electrical rooms 2000 and 4000, housekeeping. Headworks operations checks. MBT process check, P-73X0 running but the flow is fluctuating, attempted to prime pumps no success filtration flow is unstable, possible cause high process MLSS.
09/30/2022	MAA	MCC-MOM	OPR-WTO	Spoke to Flowserve rep regarding parts quote. Part numbers I sent are unknown so requested correct parts diagram.
09/30/2022	MAA	MCC-MOM	GMT-AUT	Continued corrective work on service truck valve block. Modified smaller ID washer to correct IC and used. Re-installed valve block and hoses. Cleaned excess oil from valve block and compressor area. Tested service truck crane in all positions; no leaks at valve block and hose connections.
09/30/2022	CEA	MCC-MOM	OPR-WTO	UV trains performance check, Upper and lower odor control bed check, test for NH3 and H2SO4 results zero. Monitoring Influent flows, I noticed a decrease on the previous day and seem low at this time of the day, reviewed Bluff and Legacy park, and MCPLS Influen flows.
09/30/2022	MAA	MCC-MOM	GMT-AUT	Re-installed covers at service truck and cleaned up work area and truck.
09/30/2022	JAA	MCC-MOM	GMT-AUT	Finishing transfer tools and clean tacoma truck.
09/30/2022	MAA	MCC-MOM	GEN-ADM	Took sample bottles inventory.

Malibu Civic Center Wastewater Treatment Facility

Third Quarter 2022 Long-Term Groundwater and Surface Water Monitoring Report

prepared by

Rincon Consultants, Inc.

prepared for

City of Malibu
23825 Stuart Ranch Road
Malibu, California 90265

October 31, 2022

RINCON CONSULTANTS, INC.
Environmental Scientists | Planners | Engineers
rinconconsultants.com

Rincon Consultants, Inc.
180 North Ashwood Avenue
Ventura, California 93003

805 644 4455 OFFICE AND FAX

info@rinconconsultants.com
www.rinconconsultants.com

October 31, 2022
Project No: 20-09665

Yolanda Bundy
Environmental Sustainability Department Director
Building Official
City of Malibu
23825 Stuart Ranch Road
Malibu, California 90265

Subject: Third Quarter 2022 Long-Term Groundwater and Surface Water Monitoring Report, Malibu Civic Center Wastewater Treatment Facility – City of Malibu, California

Dear Ms. Bundy:

Rincon Consultants, Inc. has prepared the Third Quarter 2022 Long-Term Groundwater and Surface Water Monitoring Report for the Malibu Civic Center Wastewater Treatment Facility (CCWTF) located in Malibu, California. The CCWTF began discharging treated wastewater in the third quarter of 2018. Therefore, Long-Term Monitoring of Groundwater and Surface Water Quality Monitoring (Task II) was triggered and quarterly groundwater monitoring was initiated.

The objective of the work program is to implement and manage a basin-wide groundwater and surface water monitoring and reporting program. The monitoring program has been designed to identify potential impacts due to land disposal of treated wastewater via injection and landscape irrigation or percolation on the receiving water quality of the local groundwater aquifers, Santa Monica Bay, Malibu Creek, and Malibu Lagoon.

Please contact us with any questions you may have regarding the results of the Third Quarter 2022 Long-Term Groundwater and Surface Water Monitoring Report.

Sincerely,
Rincon Consultants, Inc.

Kiernan Brtalik, CPSWQ, QSP/D
Environmental Scientist

Torin Snyder, PG, CHG, TOR, QSD/P
Principal

Certification

"I certify under penalty of law that this document, including all attachments and supplemental information, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment."

Executed on the 25 day of October at Malibu, CA

Yolanda Rundy
Signature

Environmental Sustainability Director
Title

Table of Contents

1 Introduction 1
2 Background 1
3 Geologic and Hydrogeologic Setting 3
3.1 Hydrology 3
3.2 Geology 3
3.3 Hydrogeology 3
4 Completed Activities During Third Quarter 2022 4
5 Groundwater Elevations and Gradients 4
5.1 Shallow Zone 5
5.2 Deep Zone 5
5.3 Winter Canyon 6
6 Water Quality Sampling Analysis 6
6.1 Surface Water 7
6.2 Groundwater 9
6.3 Analytical Laboratory QA/QC 10
7 Scheduled Activities for the Third Quarter of 2022 10
8 Summary of Monitoring Activities 11
8.1 Groundwater Elevations 11
8.2 Surface Water Quality 11
8.3 Groundwater Quality 11
9 Limitations 12
10 References 13

Tables

Table 1 Groundwater Elevations
Table 2 Long-Term Groundwater and Surface Water Analytical Matrix
Table 3 Surface Water Analytical Results
Table 4 Groundwater Analytical Results

Figures

Figure 1 Vicinity Map
Figure 2 Site Map – Monitoring Network
Figure 3 Shallow Groundwater Elevations July 2022
Figure 4 Shallow Groundwater Elevations August 2022
Figure 5 Shallow Groundwater Elevations September 2022
Figure 6 The Nitrogen Cycle

Appendices

Appendix A Groundwater and Surface Water Field Sheets
Appendix B Analytical Laboratory Reports

1 Introduction

This report presents the results of groundwater and surface water monitoring activities conducted during the third quarter of 2022 for the Malibu Civic Center Wastewater Treatment Facility (CCWTF) located in Malibu, California (Figure 1). The CCWTF began discharging treated wastewater in the third quarter of 2018, triggering Long-Term Monitoring of Groundwater and Surface Water Quality Monitoring (Task II). The objective of the work program is to implement and manage a basin-wide groundwater and surface water monitoring and reporting program. The monitoring program has been designed to identify potential impacts as a result of land disposal of treated wastewater via injection and landscape irrigation or percolation on the receiving water quality of the local groundwater aquifers, Santa Monica Bay, Malibu Creek, and Malibu Lagoon.

This report was prepared by Rincon Consultants, Inc. (Rincon) and presents the geologic and hydrogeologic setting, groundwater elevations and gradient, surface water and groundwater sampling methodologies, and water quality data results.

2 Background

On-site wastewater disposal systems (OWDS) have allegedly contributed to the non-point source pollution of Malibu Creek and Lagoon located in the Civic Center Area of the City of Malibu (Figure 2). The City of Malibu has designed and constructed a new wastewater treatment facility to comply with regulatory actions taken by the Los Angeles Regional Water Quality Control Board (LARWQCB) and the State Water Resources Control Board (SWRCB) to prohibit discharges from OWDS in the Civic Center area.

To establish baseline groundwater and surface water quality conditions prior to operation and discharge of treated wastewater, the LARWQCB required basin-wide, baseline groundwater and surface water monitoring. The water quality monitoring program was driven by several factors:

- Timelines established through regulatory action
- Proposed programs to fulfill anticipated future regulatory requirements associated with the development of the CCWTF
- The distribution of Recycled Water in the Prohibition area in conformance with California Code of Regulations, Title 22
- Protection of the Malibu Valley Groundwater Basin, Malibu Creek, Malibu Lagoon, and the near shore environment of Santa Monica Bay

Following activation of the CCWTF operations, baseline monitoring activities (Task I) were completed and long-term monitoring activities (Task II) were triggered. The objective of long-term monitoring is to identify impacts that land disposal of recycled water, via injection and landscape irrigation or percolation, may have on the water quality of the receiving groundwater aquifers, Santa Monica Bay, Malibu Creek, and Malibu Lagoon.

The basin-wide long-term monitoring program consists of four of the original five water quality monitoring tasks that occur in the Civic Center area of the City of Malibu. All five monitoring tasks were designed to provide a comprehensive basin-wide groundwater and surface water monitoring program. Below is a general description of each task.

Task I – Baseline Groundwater and Surface Water Quality Monitoring of the Civic Center Area *(Completed)*

The baseline groundwater and surface water quality monitoring task involved monitoring groundwater in nine shallow and deep groundwater wells and monitoring surface water quality at ten locations. The objective of this task was to develop baseline, ambient shallow and deep groundwater, and surface water conditions prior to the implementation of the CCWTF, as required by the Monitoring and Reporting Program (MRP) No. CI 10042, issued by the LARWQCB (LARWQCB 2015).

Task II – Long-Term Monitoring of Groundwater and Surface Water Quality Monitoring of the Civic Center Area

The long-term groundwater and surface water quality monitoring task involves monitoring groundwater in nine shallow and deep groundwater wells and surface water quality at 10 locations on a quarterly basis. Depending on quarterly flows of recycled water from the CCWTF to the percolation ponds, the number of samples collected for a given quarter may be reduced from nine to seven groundwater monitoring wells. This reduced number of groundwater monitoring wells is allowed when no more than 10 percent greater than the permitted flows are discharged to the percolation ponds.

The objective of long-term monitoring is to identify impacts, if any, that land disposal of recycled water, via injection and landscape irrigation or percolation, have on the water quality of the receiving groundwater aquifers, Santa Monica Bay, Malibu Creek, and Malibu Lagoon and to comply with the project-specific Waste Discharge Requirement (WDR). The mix of shallow and deeper monitoring wells were chosen to provide adequate spatial and vertical coverage of the basin near the CCWTF injection to monitor for potential adverse impacts. This sampling is required by the MRP No. CI 10042, issued by the LARWQCB (LARWQCB 2015).

Task III – Salt and Nutrient Management Plan Monitoring Program

The Salt and Nutrient Management Plan (SNMP) monitoring program builds upon the baseline and long-term groundwater and surface water monitoring programs described above (Tasks I and II). Task III involves performing semi-annual groundwater monitoring at 16 groundwater monitoring wells (mix of shallow and deep) located in the Civic Center area of the City of Malibu and in a small area in unincorporated Los Angeles County. The objective of the SNMP is to monitor potential impacts that recycled water, introduced through irrigation and injection, may have on the Malibu Groundwater Basin. The SNMP also provides data to assess the various phases of the CCWTF implementation during the time that the collection system and treatment plant connections increase, and as OWDS-related discharges cease (RMC Water 2015a).

Task IV – Memorandum of Understanding Compliance Monitoring

Compliance with the Memorandum of Understanding (MOU) the City of Malibu has with the LARWQCB corresponds with baseline and long-term groundwater and surface water monitoring programs described in Tasks I through III above. Task IV involves performing semi-annual monitoring at fourteen groundwater wells located in the City of Malibu's Civic Center area. The objective of the MOU is to monitor for potential impacts to the Shallow Alluvium because of CCTWF implementation (LARWQCB 2014).

Task V – Civic Center Groundwater Elevation Monitoring Program

The groundwater elevation monitoring program assesses the groundwater elevations in the Malibu Groundwater Basin and in Winter Canyon. The objective of this task is to provide an understanding of the groundwater elevation conditions in the Civic Center Area, including elevation trends related to precipitation, tidal, and lagoon influences (LARWQCB 2015).

3 Geologic and Hydrogeologic Setting

3.1 Hydrology

The project is in the Los Angeles hydrologic region, as defined by the LARWQCB. The Los Angeles hydrologic region encompasses all coastal drainages flowing to the Pacific Ocean between Rincon Point and the eastern Los Angeles County line. The study area covers the Malibu Creek and Winter Canyon Creek watersheds. Most of the study area addressed in this report is located within the 109-square-mile Malibu Creek watershed, which is the second largest watershed draining to the Santa Monica Bay. The Malibu Creek watershed contains mostly undeveloped mountain areas, residential properties, and natural streams (LARWQCB 2011). Malibu Lagoon, a 13-acre brackish estuary, is located at the terminus of the Malibu Creek watershed and is one of only two remaining coastal marshes in Los Angeles County.

3.2 Geology

The study area is located within the Santa Monica Mountains in the northwestern corner of the Los Angeles basin. The study area lies at the juncture of the Peninsular Ranges geomorphic province, consisting of a northwest-oriented structural grain, and the Transverse Ranges geomorphic province, which features a predominantly east-west-oriented structural grain.

The 45-mile-long Santa Monica Mountains range is part of the southernmost portion of the western Transverse Ranges province. It forms an east-west range of low mountains along the southern California Coast from the Oxnard Plain to Los Angeles. The Santa Monica Mountain range is characterized by long, south-draining canyons on its south flank and short, north-draining canyons on its north flank. The Malibu Canyon and Winter Canyon are two canyons in the study area that drain to the south.

3.3 Hydrogeology

The Malibu Valley Groundwater Basin (Department of Water Resources [DWR] groundwater basin no. 4-22) is a 613-acre alluvial basin. The groundwater basin is bounded by the Pacific Ocean to the south and the Santa Monica Mountains to the north, east, and west. The basin is composed of non-water-bearing Tertiary age rocks.

Water bearing geologic formations in the Malibu Valley Groundwater Basin include Holocene alluvium, consisting of clays, silts, sands, and gravels overlying impermeable bedrock. The unconsolidated alluvium in the Civic Center area by Malibu Creek and other small drainages is estimated to range in thickness from a thin layer near the valley walls to about 175 feet in the central part of the main body of the alluvium. The alluvium can be subdivided into three categories or zones: 1) a shallow zone of permeable alluvial sediments, 2) underlain by a sequence of fine-

grained estuarine deposits, and 3) an underlying coarse-grained stratum commonly referred to as the "Civic Center Gravels" (GeoSoils 1989, Leighton 1994, ECI 2000, Ambrose and Orme 2000, Fugro West, Inc. 2005, Geosyntec Consultants 2007). Depth to groundwater in the alluvium is typically 5 to 20 feet below grade and is deeper in the upland canyon areas.

4 Completed Activities During Third Quarter 2022

The following activities were completed during the third quarter of 2022:

- Rincon measured depth to water in groundwater monitoring wells on July 25, August 1, and September 22, 2022 (Task V)
- Rincon collected and analyzed groundwater samples for WDR/MRP (Task II) compliance on August 2 through 4, 2022
- Rincon collected and analyzed surface water samples for WDR/MRP (Task II) compliance on August 3, 2022

5 Groundwater Elevations and Gradients

During each month of the quarter, Rincon mobilized to 42 groundwater monitoring wells to measure the depth to water using an electronic water level indicator (summarized in the table below; also see Table 1 and Appendix A).

Groundwater Monitoring Locations

Shallow Zone (32 wells)[1]				
C-1	C-2	CCPE	CCPNE	CCPSW
CCW-4	GH6-M1	GH8-M3	M6-1	M6-2
M7-1	M7-2	MBCMW-5[2]	MBCMW-7	MBCMW-8
MBCMW-9	MBCMW-10	MCWP-MW04S	MCWP-MW07S	MCWP-MW08
MCWP-MW10	P-4	P-9	SMBRP-2	SMBRP-6[3]
SMBRP-7B	SMBRP-8 (EC1-RC-MW01)	SMBRP-9[3]	SMBRP-12	SMBRP-13
SMBRP-15B[2]	SMBRP-16[3]			
Deep Zone (8 wells)				
MCWP-MW01	MCWP-MW02	MCWP-MW03	MCWP-MW04D	MCWP-MW05
MCWP-MW06	MCWP-MW07D	MCWP-MW09		
Winter Canyon (2 wells)				
LAMW-5S	SMBRP-11			

[1] Three wells have been removed from the original monitoring network: GH9-M4 has been buried as of the September 2018 monitoring event, MBCMW-6 was removed following grading activities in 2019, and SMBRP-10C was removed during the development of a sidewalk in March 2021

[2] MBCMW-5 and SMBRP-15B were dry during each month of the monitoring period

[3] SMBRP-6 was inaccessible during the August monitoring event; SMBRP-9 was inaccessible during the July and September monitoring events; SMBRP-16 was inaccessible during the September monitoring event

5.1 Shallow Zone

Groundwater elevation measurements from each shallow monitoring well are included in Table 1 and shown on Figures 3, 4, and 5. The following table summarizes the shallow groundwater elevation ranges observed during the third quarter of 2022, changes in elevation compared to the second quarter of 2022, and historical groundwater elevation range.

Summary of Groundwater Elevations – Shallow Zone

3rd Quarter 2022			2nd Quarter 2022			Historical	
Minimum	**Maximum**	**Average**	**Minimum**	**Maximum**	**Average**	**Minimum**	**Maximum**
4.72 (MCWP-MW08)	20.29 (SMBRP-8)	8.09	2.53 (MCWP-MW10)	21.88 (SMBRP-8)	7.73	1.09 (CCPE, 05/2020)	25.38 (SMBRP-8, 05/2017)

Changes from July to September 2022						
Decrease			Increase			Average Change
# Observed	**Maximum**	**Average**	**# Observed**	**Maximum**	**Average**	
12	1.16 (SMBRP-8)	-0.37	10	0.52 (MCWP-MW07S)	0.15	-0.12

Note: Elevations measured in feet above mean sea level

The shallow groundwater gradient was calculated, and flow direction estimated based on the groundwater elevation data in SMBRP-2, SMBRP-9, and SMBRP-12 and summarized in the table below (Figures 3, 4, and 5).

Summary of Groundwater Gradients

Month	Gradient (feet per foot)	Flow Direction
July[1]	0.0029	South-southeast
August	0.0030	South-southeast
September[1]	0.0025	South-southeast

[1] GH8-M3 was used to calculate the July and September gradients as SMBRP-9 was inaccessible

5.2 Deep Zone

Groundwater elevation measurements from each deep monitoring well are included in Table 1. The following table summarizes the deep groundwater elevation ranges observed in the third quarter of 2022, changes in elevation compared to the second quarter of 2022, and historical groundwater elevation ranges:

Summary of Groundwater Elevations – Deep Zone

3rd Quarter 2022			2nd Quarter 2022			Historical	
Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum
5.56 (MCWP-MW07D)	10.84 (MCWP-MW09)	9.67	3.79 (MCWP-MW07D)	10.35 (MCWP-MW09)	6.65	3.73 (MCWP-MW07D, 3/2022)	11.55 (MCWP-MW09, 12/2015)

Changes from July to September 2022						
Decrease			Increase			Average Change
# Observed	Maximum	Average	# Observed	Maximum	Average	
4	-0.31	-0.19	3	1.21	0.48	0.086

Note: Elevations measured in feet above mean sea level

5.3 Winter Canyon

Groundwater elevation measurements from each Winter Canyon monitoring well are included in Table 1. The following table summarizes the Winter Canyon groundwater elevation ranges observed in the third quarter of 2022, changes in elevation compared to the second quarter of 2022, and historical groundwater elevation ranges.

Summary of Groundwater Elevations – Winter Canyon

3rd Quarter 2022			2nd Quarter 2022			Historical	
Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum
9.54 (SMBRP-11)	44.20 (LAMW-5S)	27.76	9.50 (SMBRP-11)	48.09 (LAMW-5S)	28.67	8.65 (SMBRP-11, 08/2021)	58.65 (LAMW-5S, 03/2019)

Changes from July to September 2022						
Decrease			Increase			Average Change
# Observed	Maximum	Average	# Observed	Maximum	Average	
2	-0.77 (LAMW-5S)	-0.40	0	-	-	-0.40

Note: Elevations measured in feet above mean sea level

6 Water Quality Sampling Analysis

This section presents laboratory analytical results for samples collected during the third quarter 2022 monitoring event. Included below are the constituents required by the WDR for surface water monitoring, and which are also analyzed in groundwater samples. This includes total and fecal coliform, nitrate as nitrogen, nitrite as nitrogen, organic nitrogen, ammonia, total Kjeldahl nitrogen (TKN), and total phosphorous. Ammonia (NH_3^+) is the primary form of nitrogen in OWDS effluent, and it is converted to nitrate during the leaching process through the vadose zone. A schematic of this process is provided as Figure 6.

Surface water and groundwater monitoring locations and corresponding laboratory analyses are shown in the Groundwater and Surface Water Analytical Matrix (Table 2). The laboratory analytical results for the third quarter 2022 monitoring event are provided in Table 3 and Table 4. Analytical laboratory reports are included as Appendix B of this report.

6.1 Surface Water

A total of 10 surface water samples were collected on August 3, 2022. Four ocean water samples were collected from the Near Shore sampling locations (N-001 through N-004) and six surface water samples were collected from the Malibu Lagoon and Creek (L-001 through L-006) in accordance with the WDR/MRP (Task II) monitoring requirements, as summarized in the table below.

Surface Water Sampling Locations

Near Shore Ocean	Malibu Lagoon and Creek
N-001	L-001
N-002	L-002
N-003	L-003
N-004	L-004
-	L-005
-	L-006

Sampling Methodology

The Near Shore ocean water samples were collected from each location at a depth of approximately 3-6 inches (ankle deep). Surface water samples from Malibu Lagoon and Creek monitoring locations were collected from each location at a depth of approximately 12 inches below the surface of the water.

All surface water samples were collected up-current of sampling personnel to minimize potential contamination of surface water samples with bacteria originating from field personnel. Surface water samples were collected directly into lab-supplied containers when possible, or into a field sampling container and then transferred into preserved and non-preserved containers supplied by Enthalpy Analytical (Enthalpy), a California-accredited analytical laboratory located in Orange, California. The containers were capped, labeled, placed in Ziploc bags, and stored on ice in a cooler and delivered via courier to Enthalpy under chain-of-custody documentation.

Laboratory Analyses

Near Shore

The following table summarizes constituent detections in surface water samples collected from the four Near Shore sampling locations. This table presents the number of samples detected above the laboratory detection limit (RDL), the minimum and maximum concentrations detected above the RDL, and average concentration for each detected constituent.[1]

[1] Averages throughout this report are calculated using the upper detection limit value for results that exceeded the upper detection limit and half of the RDL for results that were not detected.

Summary of Detected Concentrations in Surface Water – Near Shore

Constituent	Number Detected	Minimum Detected	Maximum Detected	Average	Units
Total Coliform	4	-	2,400 (N-001 through N-004)	2,400	MPN/100 mL
Fecal Coliform	1	-	1.0 (N-001)	0.63	MPN/100 mL
Nitrate as Nitrogen	0	-	-	-	mg/L
Nitrite as Nitrogen	0	-	-	-	mg/L
Organic Nitrogen	4	0.35 (N-003)	0.58 (N-004)	0.47	mg/L
Ammonia Nitrogen	3	0.13 (N-002)	0.19 (N-003)	0.14	mg/L
Total Kjeldahl Nitrogen	4	0.54 (N-003)	0.68 (N-001)	0.59	mg/L
Total Phosphorous	4	0.090 (N-001)	0.20 (N-004)	0.14	mg/L

MPN/100 mL – Most Probable Number per 100 milliliters
mg/L – milligrams per liter

Malibu Lagoon and Creek

The following table summarizes constituent detections in surface water samples collected from the six Malibu Lagoon and Creek monitoring locations.

Summary of Detected Concentrations in Surface Water – Malibu Lagoon and Creek

Constituent	Number Detected	Minimum Detected	Maximum Detected	Average	Units
Total Coliform	6	>2,400 (L-001, L-003, L-004, L-005, L-006)	>4,800 (L-002)	2,800	MPN/100 mL
Fecal Coliform	6	31 (L-002)	2,400 (L-001, L-003, L-004, L-005, L-006)	2,005	MPN/100 mL
Nitrate as Nitrogen	1	-	0.22 (L-002)	0.30	mg/L
Nitrite as Nitrogen	0	-	-	-	mg/L
Organic Nitrogen	6	0.48 (L-001)	8.1 (L-005)	1.96	mg/L
Ammonia Nitrogen	1	0.082 (L-006)	0.25 (L-005)	0.10	mg/L
Total Kjeldahl Nitrogen	6	0.48 (L-001)	8.3 (L-005)	2.0	mg/L
Total Phosphorous	6	0.16 (L-003)	1.1 (L-005)	0.34	mg/L

MPN/100 mL – Most Probable Number per 100 milliliters
mg/L – milligrams per liter

6.2 Groundwater

A total of 15 groundwater monitoring wells were sampled during the third quarter of 2022 in accordance with the WDR/MRP (Task II) monitoring requirements.

Groundwater Sampling Locations

Well ID	Zone	Task	Sampling Frequency
SMBRP-9	Shallow	II, III, IV	Quarterly
SMBRP-12	Shallow	II, III, IV	Quarterly
MCWP-MW04S	Shallow	II, III, IV	Quarterly
MCWP-MW07S	Shallow	II, III, IV	Quarterly
MCWP-MW04D	Deep	II, III, IV	Quarterly
MCWP-MW07D	Deep	II, III, IV	Quarterly
MCWP-MW09	Deep	II, III, IV	Quarterly
SMBRP-11	Winter Canyon	II, III, IV	Quarterly
LAMW-5S	Winter Canyon	II, III, IV	Quarterly
CCPE	Shallow	III, IV	Semi-Annually
SMBRP-7B	Shallow	III, IV	Semi-Annually
SMBRP-13	Shallow	III, IV	Semi-Annually
MBCMW-9	Shallow	III, IV	Semi-Annually[1]
MCWP-MW10	Shallow	III, IV	Semi-Annually
MCWP-MW05	Deep	III	Semi-Annually
MCWP-MW06	Deep	III	Semi-Annually

Grey – Groundwater monitoring well was not sampled during this monitoring period

[1] – Depending on quarterly flows of recycled water from the CCWTF to the percolation ponds, the number of Long-Term groundwater monitoring samples collected for a given quarter may be reduced. The reduced sampling is allowed when no more than 10 percent greater than the permitted flows are discharged to the percolation ponds, per page 12 and 13 of the MRP No. CI 10042.

Sampling Methodology

Prior to sampling, a minimum of three casing volumes were purged from each well using a submersible pump or by hand bailing. Purging stopped when consecutive water quality measurements (temperature, electrical conductivity, and pH) varied by less than 10 percent or until the well purged dry, whichever occurred first. Field equipment was decontaminated between each well. Purged groundwater and decontamination water were stored in a 100-gallon and 250-gallon high-density polyethylene tank during field activities, and properly disposed at the CCWTF.

Once each well was purged, groundwater samples were collected using preserved and non-preserved containers supplied by Enthalpy. The containers were capped, labeled, placed in Ziploc bags, and stored on ice in coolers pending delivery to Enthalpy. Field data sheets are included in Appendix A.

Laboratory Analyses

The following table summarizes constituent detections in groundwater samples collected in the third quarter of 2022. For comparison, this table presents results for constituents also analyzed for in surface water samples. In addition to those constituents, total dissolved solids (TDS), which represents the total concentration of dissolved substances in water and are commonly associated with OWDS effluent, is presented below. For a complete list of analytical results from groundwater samples, please refer to Appendix B.

Summary of Detected Concentrations in Groundwater

Constituent	Number Analyzed	Number Detected	Minimum Detected	Maximum Detected	Average	Unit
Total Coliform	13	12	1.0 (SMBRP-13, MCWP-MW04D, MCWP-MW09)	>2,400 (SMBRP-7B, SMBRP-11)	489	MPN/ 100 mL
Fecal Coliform	13	0	-	-	-	MPN/ 100 mL
Nitrate as Nitrogen	15	10	0.46 (SMBRP-7B)	23 (LAMW-5S)	3.4	mg/L
Nitrite as Nitrogen	13	1	-	0.27 (SMBRP-11)	0.17	mg/L
Organic Nitrogen	5	5	0.13 (LAMW-5S)	0.49 (SMBRP-13)	0.29	mg/L
Ammonia Nitrogen	13	9	0.049 (LAMW-5S)	3.9 (SMBRP-12)	0.72	mg/L
Total Kjeldahl Nitrogen	13	12	0.13 (SMBRP-9)	5.2 (SMBRP-12)	1.1	mg/L
Total Phosphorous	13	13	0.069 (MCWP-MW10)	3.0 (SMBRP-11)	0.46	mg/L
Total Dissolved Solids	15	15	860 (MCWP-MW07D)	6,000 (SMBRP-13)	2,297	mg/L

MPN/100 mL – Most Probable Number per 100 milliliters
mg/L – milligrams per liter

6.3 Analytical Laboratory QA/QC

Enthalpy performed quality assurance/quality control (QA/QC) measures including the recovery of surrogates. Enthalpy followed all QA/QC procedures per method requirements. The notes column of the analytical reports also has the QC flags. Any issues that are not covered by the qualifier flags (definitions page found below the analytical tables), are addressed as part of the case narrative.

7 Scheduled Activities for the Third Quarter of 2022

The following activities will be completed during the third quarter of 2022:

- Prepare and submit this Third Quarter 2022 Long-Term Groundwater and Surface Water Monitoring Report to the LARWQCB
- Collect and analyze groundwater and surface water samples for WDR/MRP (Task II) compliance

- Measure depth to water in the groundwater monitoring wells in October, November, and December 2022 (Task V)

8 Summary of Monitoring Activities

8.1 Groundwater Elevations

Consistent with past observations, shallow groundwater generally flows south-southeast. During the third quarter of 2022, groundwater elevations decreased in 55 percent of shallow wells (12 out of 22), decreased in 57 percent of deep wells (4 out of 7), and decreased in both Winter Canyon wells, with a total average change of -0.09 feet. In addition, based on observations made throughout the monitoring period, Rincon recommends general maintenance of the groundwater monitoring wells to protect the well casings from surface water inflow.

8.2 Surface Water Quality

Total coliform concentrations in the Near Shore and Malibu Lagoon and Creek exceeded the upper detection limit of 2,400 or 4,800 MPN/100 mL in every sample. Surface water samples showed an average increase of 1,564 MPN/100 mL of total coliform compared to the second quarter of 2022.

Fecal coliform was detected above the reporting limit in only one of the Near Shore samples (N-001). In Malibu Lagoon and Creek locations, fecal coliform concentrations exceeded the upper detection limit of 2,400 MPN/100 mL in every sample, except for L-002. Surface water samples showed an average increase of 1,173 MPN/100 mL of fecal coliform compared to the second quarter of 2022.

Nitrate as nitrogen and nitrite as nitrogen were not detected above the reporting limit in the Near Shore samples. In Malibu Lagoon and Creek locations, nitrate as nitrogen was only detected in L-002 (0.22 mg/L). Organic nitrogen averaged 0.47 mg/L in Near Shore samples and 1.96 mg/L in Malibu Lagoon and Creek samples. When compared to the second quarter of 2022, organic nitrogen concentrations had an average increase of 0.13 mg/L in the Near Shore samples and an average decrease of 4.54 mg/L in the Malibu Lagoon and Creek samples.

Phosphorous concentrations decreased with an average concentration of 0.34 mg/L compared to the average concentration of 0.42 mg/L observed in the second quarter of 2022.

8.3 Groundwater Quality

When comparing analytical results, note that 15 groundwater monitoring wells were sampled during the third quarter of 2022 (Task II), and seven wells were sampled during the second quarter of 2022 (Task II, III, and IV). Of these same seven wells sampled during these two periods, total coliform increased in four wells and decreased in three wells. The total average decrease compared to the second quarter of 2022 was 145 MPN/100 mL.

Fecal coliform was not detected above the reporting limit in any of the wells during the third quarter of 2022.

When compared to the second quarter of 2022, nitrate concentrations increased in two well, decreased in three wells, and remained the same in two wells. The average concentration increased by 0.14 mg/L when compared to the second quarter of 2022.

When compared to the second quarter of 2022, average TDS concentrations in groundwater samples increased from an average of 1,871 mg/L to 2,297 mg/L in the third quarter of 2022.

9 Limitations

This report has been prepared for and is intended for the exclusive use of the City of Malibu. The contents of this report should not be relied upon by any other party without the written consent of Rincon Consultants, Inc.

Our conclusions regarding the site are based on observations of existing site conditions, our interpretation of site usage information, and the results of a limited subsurface sampling and chemical testing program. The concentrations of contaminants measured at any given location may not be representative of conditions at other locations intermediate to the locations sampled. Furthermore, conditions may change at any location as a function of time in response to natural conditions, chemical reactions, and other events. Conclusions regarding the condition of the site do not represent a warranty that all areas within the site are like those sampled.

10 References

Ambrose, Richard F. and Anthony R. Orme. 2000. Lower Malibu Creek and Lagoon Resource Enhancement and Management: Final Report to the California Coastal Conservancy.

Earth Consultants International. 2000. IOKI and Chili Cookoff Parcels, Malibu, California: Civic Center Groundwater Report.

Fugro West, Inc. 2005. A Steady-State Groundwater Flow Model for the Proposed Malibu-Lapaz Ranch Development. Prepared for Sterling Capital.

GeoSoils. 1989. Response to County of Los Angeles Geologic Review of 18.4 Acre Parcel NW of Cross Creek Road and Civic Center Way. April 17.

Geosyntec Consultants. 2007. Geotechnical Site Exploration and Interpretation of Subsurface Conditions, Malibu Legacy Park Site, Malibu, California. Report prepared for RMC Water and Environment. July 30.

Leighton and Associates, Inc. 1994. Report for Geotechnical Studies for Planning Purposes in the Civic Center Area, City of Malibu, California. Volumes I and II.

Los Angeles Regional Water Quality Control Board. 2011. State of the Watershed, Report on Water Quality, the Santa Monica Bay Watershed Management Area. Second Edition. November.

_____. 2014. Memorandum of Understanding Between City of Malibu and the Regional Water Quality Control Board, Los Angeles Region and State Water Resources Control Board Regarding Phased Implementation of Basin Plan Amendment Prohibiting On-Site Wastewater Disposal Systems in the Malibu Civic Center Area.

_____. 2015. Waste Discharge Requirements/Water Recycling Requirements for Malibu Civic Center Wastewater Treatment Facility – Phase I & II.

RMC Water. 2015a. Draft Salt Nutrient and Management Plan Malibu Valley Groundwater Basin.

_____. 2015b. Draft Groundwater Management Plan Malibu Valley Groundwater Basin.

Tables

Table 1
Groundwater Elevations

Shallow Groundwater Monitoring Wells				
Well ID	**Date**	**TOC Elevation** (ft)	**Depth to Water** (ft bTOC)	**Groundwater Elevation**
C-1	7/25/2022	11.47	4.84	6.63
C-1	8/1/2022	11.47	4.83	6.64
C-1	9/22/2022	11.47	5.07	6.40
C-2	7/25/2022	11.19	4.65	6.54
C-2	8/1/2022	11.19	4.70	6.49
C-2	9/22/2022	11.19	4.94	6.25
CCPE	7/25/2022	12.94	5.56	7.38
CCPE	8/1/2022	12.94	5.61	7.33
CCPE	9/22/2022	12.94	5.50	7.44
CCPNE	7/25/2022	13.68	6.25	7.43
CCPNE	8/1/2022	13.68	6.31	7.37
CCPNE	9/22/2022	13.68	6.22	7.46
CCPSW	7/25/2022	13.67	6.08	7.59
CCPSW	8/1/2022	13.67	6.10	7.57
CCPSW	9/22/2022	13.67	6.05	7.62
CCW-4	7/25/2022	15.77	6.84	8.93
CCW-4	8/1/2022	15.77	6.88	8.89
CCW-4	9/22/2022	15.77	7.32	8.45
GH6-M1	7/25/2022	-	29.51	-
GH6-M1	8/1/2022	-	29.52	-
GH6-M1	9/22/2022	-	29.87	-
GH8-M3	7/25/2022	40.21	28.68	11.53
GH8-M3	8/1/2022	40.21	28.67	11.54
GH8-M3	9/22/2022	40.21	29.03	11.18
M6-1	7/25/2022	-	6.66	-
M6-1	8/1/2022	-	6.70	-
M6-1	9/22/2022	-	6.75	-
M6-2	7/25/2022	-	6.10	-
M6-2	8/1/2022	-	6.10	-
M6-2	9/22/2022	-	6.20	-
M7-1	7/25/2022	-	8.59	-
M7-1	8/1/2022	-	8.65	-
M7-1	9/22/2022	-	8.84	-
M7-2	7/25/2022	-	8.37	-
M7-2	8/1/2022	-	8.45	-
M7-2	9/22/2022	-	8.76	-
MBCMW-5	7/25/2022	19.40	Dry	-
MBCMW-5	8/1/2022	19.40	Dry	-
MBCMW-5	9/22/2022	19.40	Dry	-
MBCMW-7	7/25/2022	16.64	11.06	5.58
MBCMW-7	8/1/2022	16.64	11.20	5.44
MBCMW-7	9/22/2022	16.64	10.88	5.76
MBCMW-8	7/25/2022	16.53	8.58	7.95
MBCMW-8	8/1/2022	16.53	8.70	7.83
MBCMW-8	9/22/2022	16.53	9.15	7.38
MBCMW-9	7/25/2022	17.71	8.61	9.10
MBCMW-9	8/1/2022	17.71	8.64	9.07
MBCMW-9	9/22/2022	17.71	8.84	8.87

Table 1
Groundwater Elevations

Shallow Groundwater Monitoring Wells				
Well ID	**Date**	**TOC Elevation** (ft)	**Depth to Water** (ft bTOC)	**Groundwater Elevation**
MBCMW-10	7/25/2022	17.74	8.30	9.44
MBCMW-10	8/1/2022	17.74	8.41	9.33
MBCMW-10	9/22/2022	17.74	8.35	9.39
MCWP-MW04S	7/25/2022	15.29	7.10	8.19
MCWP-MW04S	8/1/2022	15.29	7.20	8.09
MCWP-MW04S	9/22/2022	15.29	7.59	7.70
MCWP-MW07S	7/25/2022	13.72	6.62	7.10
MCWP-MW07S	8/1/2022	13.72	6.10	7.62
MCWP-MW07S	9/22/2022	13.72	6.10	7.62
MCWP-MW08	7/25/2022	12.21	7.40	4.81
MCWP-MW08	8/1/2022	12.21	7.25	4.96
MCWP-MW08	9/22/2022	12.21	7.49	4.72
MCWP-MW10	7/25/2022	11.11	5.53	5.58
MCWP-MW10	8/1/2022	11.11	5.58	5.53
MCWP-MW10	9/22/2022	11.11	5.52	5.59
P-4	7/25/2022	12.16	4.80	7.36
P-4	8/1/2022	12.16	4.87	7.29
P-4	9/22/2022	12.16	4.80	7.36
P-9	7/25/2022	12.17	4.87	7.30
P-9	8/1/2022	12.17	4.92	7.25
P-9	9/22/2022	12.17	4.83	7.34
SMBRP-2	7/25/2022	13.13	5.87	7.26
SMBRP-2	8/1/2022	13.13	6.97	6.16
SMBRP-2	9/22/2022	13.13	5.86	7.27
SMBRP-6	7/25/2022	26.88	16.40	10.48
SMBRP-6	8/1/2022	26.88	N/A	-
SMBRP-6	9/22/2022	26.88	16.17	10.71
SMBRP-7B	7/25/2022	18.99	11.35	7.64
SMBRP-7B	8/1/2022	18.99	11.36	7.63
SMBRP-7B	9/22/2022	18.99	11.40	7.59
SMBRP-8 (EC1-RC-MW01)	7/25/2022	48.69	28.40	20.29
SMBRP-8 (EC1-RC-MW01)	8/1/2022	48.69	28.47	20.22
SMBRP-8 (EC1-RC-MW01)	9/22/2022	48.69	29.56	19.13
SMBRP-9	7/25/2022	50.32	N/A	-
SMBRP-9	8/1/2022	50.32	38.19	12.13
SMBRP-9	9/22/2022	50.32	N/A	-
SMBRP-12	7/25/2022	12.62	6.68	5.94
SMBRP-12	8/1/2022	12.62	6.66	5.96
SMBRP-12	9/22/2022	12.62	6.25	6.37
SMBRP-13	7/25/2022	13.58	7.90	5.68
SMBRP-13	8/1/2022	13.58	7.30	6.28
SMBRP-13	9/22/2022	13.58	8.30	5.28
SMBRP-15B	7/25/2022	16.77	Dry	-
SMBRP-15B	8/1/2022	16.77	Dry	-
SMBRP-15B	9/22/2022	16.77	Dry	-
SMBRP-16	7/25/2022	14.50	5.05	9.45
SMBRP-16	8/1/2022	14.50	5.11	9.39
SMBRP-16	9/22/2022	14.50	N/A	-

Table 1
Groundwater Elevations

Deep Groundwater Monitoring Wells				
Well ID	**Date**	**TOC Elevation** (ft)	**Depth to Water** (ft bTOC)	**Groundwater Elevation**
MCWP-MW01	7/25/2022	17.90	10.03	7.87
MCWP-MW01	8/1/2022	17.90	10.97	6.93
MCWP-MW01	9/22/2022	17.90	9.76	8.14
MCWP-MW02	7/25/2022	18.06	10.40	7.66
MCWP-MW02	8/1/2022	18.06	10.38	7.68
MCWP-MW02	9/22/2022	18.06	10.39	7.67
MCWP-MW03	7/25/2022	15.31	7.81	7.50
MCWP-MW03	8/1/2022	15.31	7.43	7.88
MCWP-MW03	9/22/2022	15.31	7.71	7.60
MCWP-MW04D	7/25/2022	15.43	9.29	6.14
MCWP-MW04D	8/1/2022	15.43	9.11	6.32
MCWP-MW04D	9/22/2022	15.43	8.91	6.52
MCWP-MW05	7/25/2022	13.92	7.41	6.51
MCWP-MW05	8/1/2022	13.92	7.48	6.44
MCWP-MW05	9/22/2022	13.92	7.44	6.48
MCWP-MW06	7/25/2022	16.05	9.69	6.36
MCWP-MW06	8/1/2022	16.05	9.55	6.50
MCWP-MW06	9/22/2022	16.05	9.55	6.50
MCWP-MW07D	7/25/2022	13.21	7.65	5.56
MCWP-MW07D	8/1/2022	13.21	7.30	5.91
MCWP-MW07D	9/22/2022	13.21	7.61	5.60
MCWP-MW09	7/25/2022	16.30	5.72	10.58
MCWP-MW09	8/1/2022	16.30	5.46	10.84
MCWP-MW09	9/22/2022	16.30	5.62	10.68

Winter Canyon Groundwater Monitoring Wells				
Well ID	**Date**	**TOC Elevation** (ft)	**Depth to Water** (ft bTOC)	**Groundwater Elevation**
LAMW-5S	7/25/2022	104.55	58.35	46.20
LAMW-5S	8/1/2022	104.55	58.45	46.10
LAMW-5S	9/22/2022	104.55	59.12	45.43
SMBRP-11	7/25/2022	18.35	8.69	9.66
SMBRP-11	8/1/2022	18.35	8.81	9.54
SMBRP-11	9/22/2022	18.35	8.73	9.62

Notes:

Elevations measured in feet above mean sea level

Three shallow wells have been removed from the original monitoring network; GH9-M4 has been buried as of the September 2018 monitoring event, MBCMW-6 was removed following grading activities in 2019, and SMBRP-10C was removed during the development of a sidewalk in March 2021

-: No data available

ft bTOC: Feet below top of well casing

TOC: Top of well casing

N/A: Depth to water was not measured; groundwater monitoring well was not accessible

Table 2
Groundwater and Surface Water Analytical Matrix

Groundwater	Long-Term, SNMP, MOU (Tasks II, III, IV)									SNMP, MOU (Tasks III, IV)					SNMP (Task III)	
	Shallow Zone				Deep Zone			Winter Canyon		Shallow Zone					Deep Zone	
Laboratory Analysis[1]	*SMBRP-9*	*SMBRP-12*	*MCWP-MW04S*	*MCWP-MW07S*	*MCWP-MW04D*	*MCWP-MW07D*	*MCWP-MW09*	*SMBRP-11*[2]	*LAMW-5S*	*CCPE*	*SMBRP-7B*	*SMBRP-13*	*MBCMW-9*	*MCWP-MW10*	*MCWP-MW05*	*MCWP-MW06*
General Chemistry (Long-Term sampled quarterly, SNMP and MOU sampled semi-annually)																
General Chemistry (pH, Total Dissolved Solids, Sulfate, Chloride, Boron, Methylene Blue Active Substances [MBAS]/Foaming Agents)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ (TDS only)	-	-	-	✓ (TDS only)	✓ (TDS only)	✓ (TDS only)
Biological Oxygen Demand (BOD)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Turbidity (includes color and odor)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Total and Fecal Coliform	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	-	-
Total Suspended Solids	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Residual Chlorine	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Total Organic Carbon	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Oil and Grease	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Nitrate as Nitrogen	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓
Nitrite as Nitrogen	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	-	-
Nitrate and Nitrite as Nitrogen (calculation)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Ammonia Nitrogen	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	-	-
Kjeldahl Nitrogen	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	-	-
Organic Nitrogen (calculation)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	-	-
Total Nitrogen (includes TKN)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Total Phosphorous	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	-	-
Constituents listed in Attachments A1 to A5 of MRP CI 10042 (Long-Term sampled annually)																
Metals (aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, mercury, nickel, selenium, thallium)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Asbestos	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Cyanide	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Perchlorate	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Fluoride	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Combined Radium-226 and Radium-228	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Gross Alpha and Beta Particle Activity	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Tritium	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Strontium-90	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Uranium	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Volatile Organic Compounds (EPA Method 524.2)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB) (EPA Method 504.1)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-

Table 2
Groundwater and Surface Water Analytical Matrix

Groundwater	Long-Term, SNMP, MOU (Tasks II, III, IV)									SNMP, MOU (Tasks III, IV)					SNMP (Task III)	
	Shallow Zone				Deep Zone			Winter Canyon		Shallow Zone					Deep Zone	
Laboratory Analysis[1]	*SMBRP-9*	*SMBRP-12*	*MCWP-MW04S*	*MCWP-MW07S*	*MCWP-MW04D*	*MCWP-MW07D*	*MCWP-MW09*	*SMBRP-11*[2]	*LAMW-5S*	*CCPE*	*SMBRP-7B*	*SMBRP-13*	*MBCMW-9*	*MCWP-MW10*	*MCWP-MW05*	*MCWP-MW06*
Constituents listed in Attachments A1 to A5 of MRP CI 10042 (Long-Term sampled annually)																
Chlordane, Endrin, Heptachlor, Heptachlor Epoxide, Hexachlorobenzene, Hexachloro-cyclopentadiene, Lindane, Methoxychlor, Polychlorinated Biphenyls, Toxaphene (EPA Method 505)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Alachlor, Atrazine, Simazine (EPA Method 507)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Bentazon, 2,4-D, Dalapon, Dinoseb, Pentachlorophenol, Picloram, 2,4,5-TP (Silvex) (EPA Method 515.3)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Benzo(a)pyrene, Di(2-ethylhexyl)adipate, Di(2-ethylhexyl)phthalate, Molinate, Thiobencarb (EPA Method 525.2)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Carbofuran, Oxamyl (EPA Method 531.1)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Glyphosate (EPA Method 547)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Endothall (EPA Method 548.1)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Diquat (EPA Method 549.2)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
2,3,7,8-TCDD (Dioxin) (EPA Method 1613)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Trihalomethanes	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Haloacetic Acids	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Bromate	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Chlorite	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Metals (aluminum, copper, iron, manganese, silver, zinc) (included in metals above)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Color and Odor (included in turbidity above)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Foam agents (MBAS) (included above)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Methyl-tert-butyl ether (MTBE) (included in VOCs above)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Thiobencarb (included in EPA Method 525.2 above)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Constituents of Emerging Concern in Attachment C of MRP CI 10042 (Long-Term sampled annually)																
17β-Estradiol	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Caffeine	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
n-Nitrosodimethylamine (NDMA)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Triclosan	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
n,n-Diethyl-meta-toluamide (DEET)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Sucralose	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-

Table 2
Groundwater and Surface Water Analytical Matrix

Groundwater	Long-Term, SNMP, MOU (Tasks II, III, IV)									SNMP, MOU (Tasks III, IV)					SNMP (Task III)	
	Shallow Zone				Deep Zone			Winter Canyon		Shallow Zone					Deep Zone	
Laboratory Analysis[1]	*SMBRP-9*	*SMBRP-12*	*MCWP-MW04S*	*MCWP-MW07S*	*MCWP-MW04D*	*MCWP-MW07D*	*MCWP-MW09*	*SMBRP-11*[2]	*LAMW-5S*	*CCPE*	*SMBRP-7B*	*SMBRP-13*	*MBCMW-9*	*MCWP-MW10*	*MCWP-MW05*	*MCWP-MW06*
Priority Pollutants listed in Attachment D of MRP CI 10042 (Long-Term sampled annually)																
Metals (antimony, arsenic, barium, beryllium, cadmium, chromium (III), copper, lead, mercury, nickel, selenium, silver, thallium, zinc) (included above)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Chromium VI	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Cyanide (included above)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Asbestos (included above)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
2,3,7,8-TCDD (included above)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Volatile Organic Compounds (EPA Method 624)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Semivolatile Organic Compounds (EPA Method 625)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Pesticides (EPA Method 625)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Polychlorinated Biphenyls (included above)	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-

Surface Water	Long-Term (Task II)									
	Near Shore Ocean				Malibu Lagoon and Creek					
Laboratory Analysis (quarterly)	*N-001*	*N-002*	*N-003*	*N-004*	*L-001*	*L-002*	*L-003*	*L-004*	*L-005*	*L-006*
Total and Fecal Coliform	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Nitrate as Nitrogen	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Nitrite as Nitrogen	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ammonia Nitrogen	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Organic Nitrogen	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Kjeldahl Nitrogen	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Total Phosphorous	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Notes:

Task II: Long-Term Monitoring of Groundwater and Surface Water Quality Monitoring of the Civic Center Area
Task III: Salt and Nutrient Management Plan (SNMP) Monitoring Program
Task IV: Memorandum of Understanding (MOU) Compliance Monitoring

[1]: Depending on quarterly flows of recycled water from the CCWTF to the percolation ponds, the number of Long-Term Groundwater Monitoring samples collected for a given quarter may be reduced from nine (9) to seven (7) groundwater monitoring wells. This reduced number of groundwater monitoring wells is allowed when no more than 10 percent greater than the permitted flows are discharged to the percolation ponds, per page 12 and 13 of the Monitoring and Reporting Program (MRP) No. CI 10042

[2]: TY-MW-1 was replaced by SMBRP-11 per LARWQCB correspondence with City of Malibu dated May 18, 2018

[3]: A sample was not collected from MBWMW-9 due to an insufficient recovery of water from the well during the purging process

✓: Laboratory analysis completed

- : Sampling & analysis not required

Table 3
Surface Water Analytical Results

Location	Monitoring Depth	Sample ID	Sample Date	Coliform Bacteria Analysis (MPN/100 mL)		Inorganic Analysis (mg/L)					
				Total	Fecal	Nitrate Nitrogen	Nitrite Nitrogen	Organic Nitrogen	Ammonia Nitrogen	Kjeldahl Nitrogen	Total Phosphorous
Near Shore	Ankle Depth	N-001	8/3/2022	> **2,400**	= **1.0**	< 1.0	< 1.0	= **0.50**	= **0.18**	= **0.68**	= **0.090**
Near Shore	Ankle Depth	N-002	8/3/2022	> **2,400**	< 1.0	< 1.0	< 1.0	= **0.44**	= **0.13**	= **0.57**	= **0.095**
Near Shore	Ankle Depth	N-003	8/3/2022	> **2,400**	< 1.0	< 1.0	< 1.0	= **0.35**	= **0.19**	= **0.54**	= **0.18**
Near Shore	Ankle Depth	N-004	8/3/2022	> **2,400**	< 1.0	< 1.0	< 1.0	= **0.58**	< 0.10	= **0.58**	= **0.20**
Near Shore	Ankle Depth	L-001	8/3/2022	> **2,400**	> **2,400**	< 0.10	< 1.0	= **0.48**	< 0.10	= **0.48**	= **0.18**
Near Shore	Ankle Depth	L-002	8/3/2022	> **4,800**	= **31**	= **0.22**	< 1.0	= **0.84**	< 0.10	= **0.84**	= **0.21**
Near Shore	Ankle Depth	L-003	8/3/2022	> **2,400**	> **2,400**	< 0.10	< 1.0	= **0.61**	= **0.095 J**	= **0.70**	= **0.16**
Near Shore	Ankle Depth	L-004	8/3/2022	> **2,400**	> **2,400**	< 1.0	< 1.0	= **0.79**	= **0.096 J**	= **0.89**	= **0.23**
Near Shore	Ankle Depth	L-005	8/3/2022	> **2,400**	> **2,400**	< 1.0	< 1.0	= **8.1**	= **0.25**	= **8.3**	= **1.1**
Near Shore	Ankle Depth	L-006	8/3/2022	> **2,400**	> **2,400**	< 1.0	< 1.0	= **0.92**	= **0.082 J**	= **1.0**	= **0.16**

Notes:

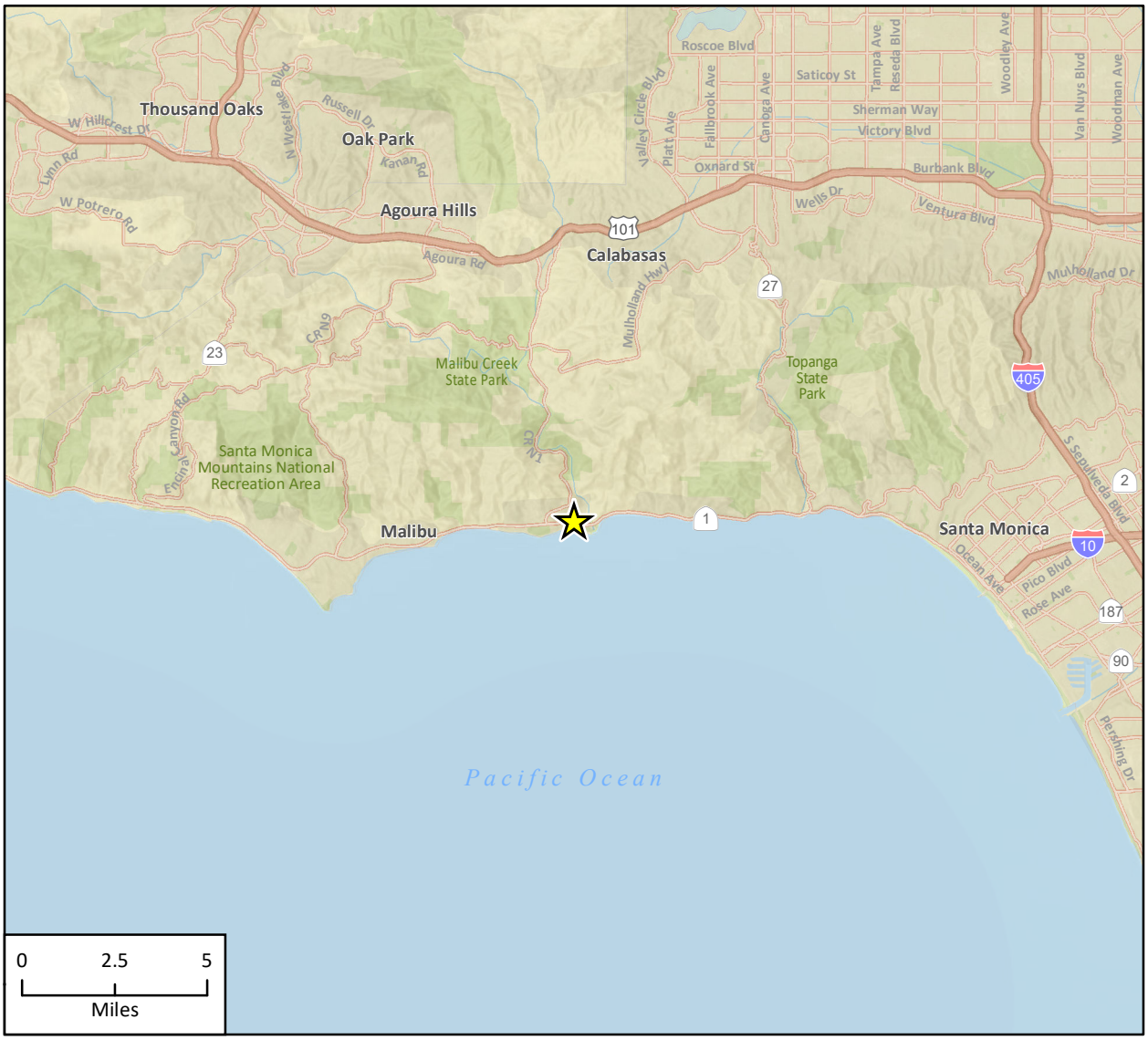
bold: Constituent detected above Reporting Detection Limit (RDL)
=: Constituent detected at reported concentration
<: Constituent not detected above the RDL
>: Constituent detected above the laboratory upper detection limit
BSW: Below surface of water
J: Estimated value; the consituent was detected above the method detection limit, but below the RDL
mg/L: Milligrams per liter
MPN/100 mL: Most Probable Number per 100 milliliters

Table 4
Groundwater Analytical Results

Well ID	Well Depth (feet bgs)	Sample Date	Coliform Bacteria (MPN/100 mL)		Inorganic Analyses (mg/L)										
			Total	Fecal	Nitrate Nitrogen	Nitrite Nitrogen	Organic Nitrogen	Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Nitrogen	Total Phosphorous	Boron	Sulfate	Total Dissolved Solids	Chloride
LAMW-5S	73	8/2/2022	= **100**	< 1.0	= **23**	< 0.10	= **0.13**	= **0.049 J**	= **0.18 J**	-	= **0.11**	-	-	= **1,000**	-
SMBRP-7B	25	8/2/2022	> **2,400**	< 1.0	= **0.46**	< 0.10	= **0.20**	< 0.10	= **0.20 J**	-	= **0.18**	-	-	= **2,700**	-
SMBRP-9	45	8/4/2022	= **56**	< 1.0	= **13**	< 0.10	-	< 0.10	= **0.13 J**	-	= **0.12**	= **0.59**	= **270**	= **1,500**	= **200**
SMBRP-11	20	8/2/2022	> **2,400**	< 1.0	= **2.3**	= **0.27**	= **0.40**	= **2.2**	= **2.6**	-	= **3.0**	-	-	= **1,800**	-
SMBRP-12	25	8/3/2022	= **4.1**	< 1.0	< 0.10	< 1.0	-	= **3.9**	= **5.2**	-	= **1.1**	= **0.92**	= **490**	= **2,600**	= **880**
SMBRP-13	20	8/2/2022	= **1.0**	< 1.0	< 1.0	< 1.0	= **0.49**	= **0.38**	= **0.87**	-	= **0.20**	-	-	= **6,000**	-
MCWP-MW04S	20	8/2/2022	= **1,300**	< 1.0	= **0.76**	< 0.10	-	= **0.054 J**	= **0.73**	-	= **0.39**	= **1.5**	= **2,500**	= **5,900**	= **450**
MCWP-MW04D	145	8/3/2022	= **1.0**	< 1.0	= **1.5**	< 0.10	-	= **0.12**	= **0.15 J**	-	= **0.097**	= **0.78**	= **570**	= **1,500**	= **230**
MCWP-MW05	154	8/4/2022	-	-	= **2.4**	-	-	-	-	-	-	-	-	= **1,400**	-
MCWP-MW06	138	8/4/2022	-	-	< 0.10	-	-	-	-	-	-	-	-	= **1,800**	-
MCWP-MW07S	20	8/2/2022	= **29**	< 1.0	= **4.1**	< 0.10	-	= **0.21**	= **0.32 J**	-	= **0.28**	= **0.36**	= **260**	= **1,100**	= **230**
MCWP-MW07D	134	8/2/2022	< 1.0	< 1.0	< 0.10	< 0.10	-	< 0.10	= **0.78**	-	= **0.14**	= **0.42**	= **260**	= **860**	= **240**
MCWP-MW09	89	8/3/2022	= **1.0**	< 1.0	< 0.10	< 1.0	-	= **2.2**	= **2.4**	-	= **0.20**	= **0.76**	= **650**	= **2,700**	= **800**
MCWP-MW10	22	8/3/2022	= **48**	< 1.0	= **0.48**	< 0.10	-	< 0.10	< 0.40	-	= **0.069**	-	-	= **2,000**	-
CCPE	53	8/4/2022	= **11**	< 1.0	= **1.5**	< 0.10	= **0.24**	= **0.11**	= **0.35 J**	-	= **0.12**	-	-	= **1,600**	-

Notes:
bold: Constituent detected above Reporting Detection Limit (RDL)
=: Constituent detected at reported concentration
<: Constituent not detected above the RDL
>: Constituent detected above the laboratory upper detection limit
-: Constituent not analyzed
bgs: Below ground surface
J: Estimated value; the consituent was detected above the method detection limit, but below the RDL
mg/L: Milligrams per liter
MPN/100 mL: Most Probable Number per 100 milliliters

Figures



Project Location

N

Vicinity Map

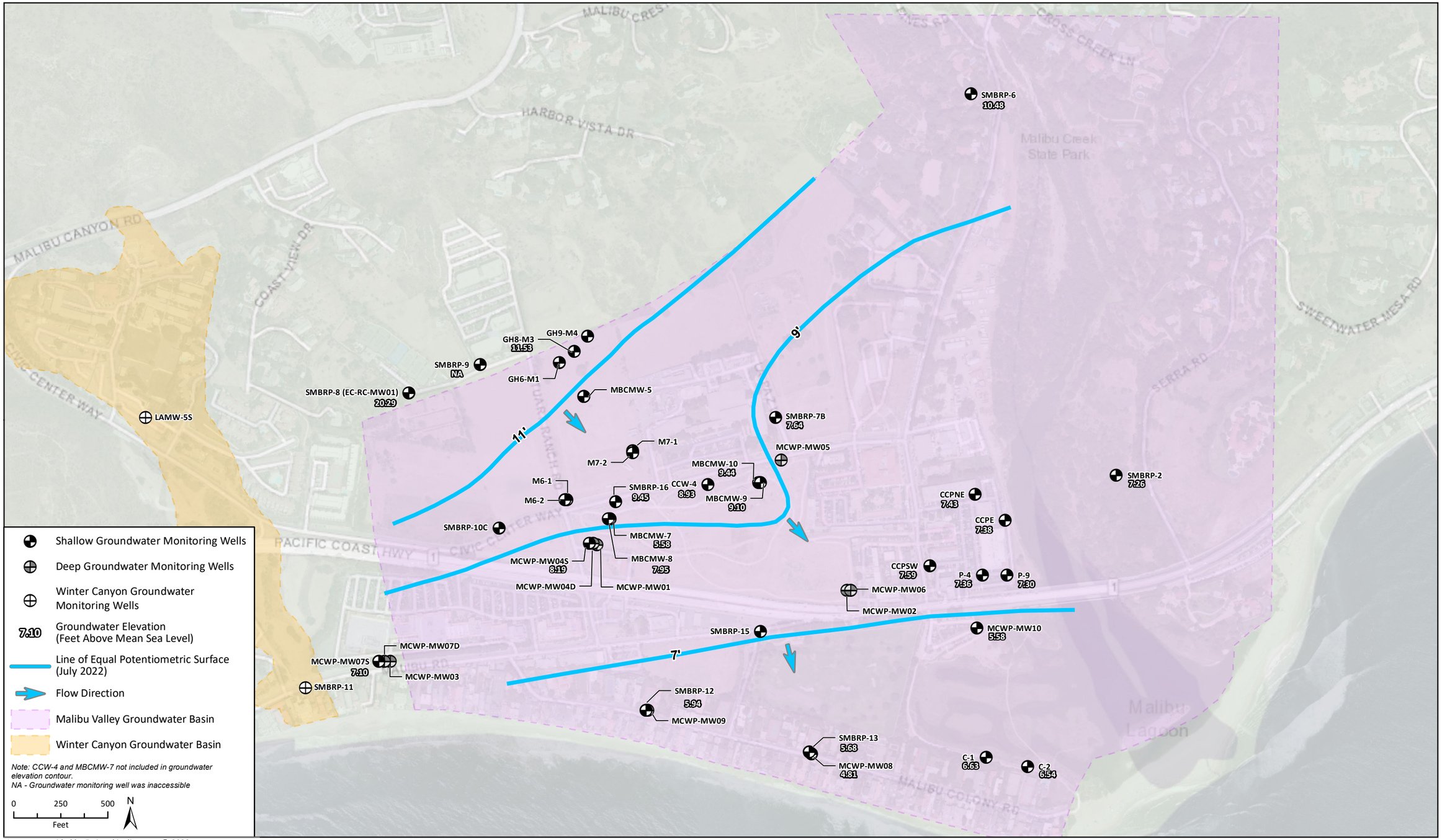
Figure 1

Rincon Consultants, Inc.

Imagery provided by Esri and its licensors © 2021.

Site Map - Monitoring Network

Figure 2

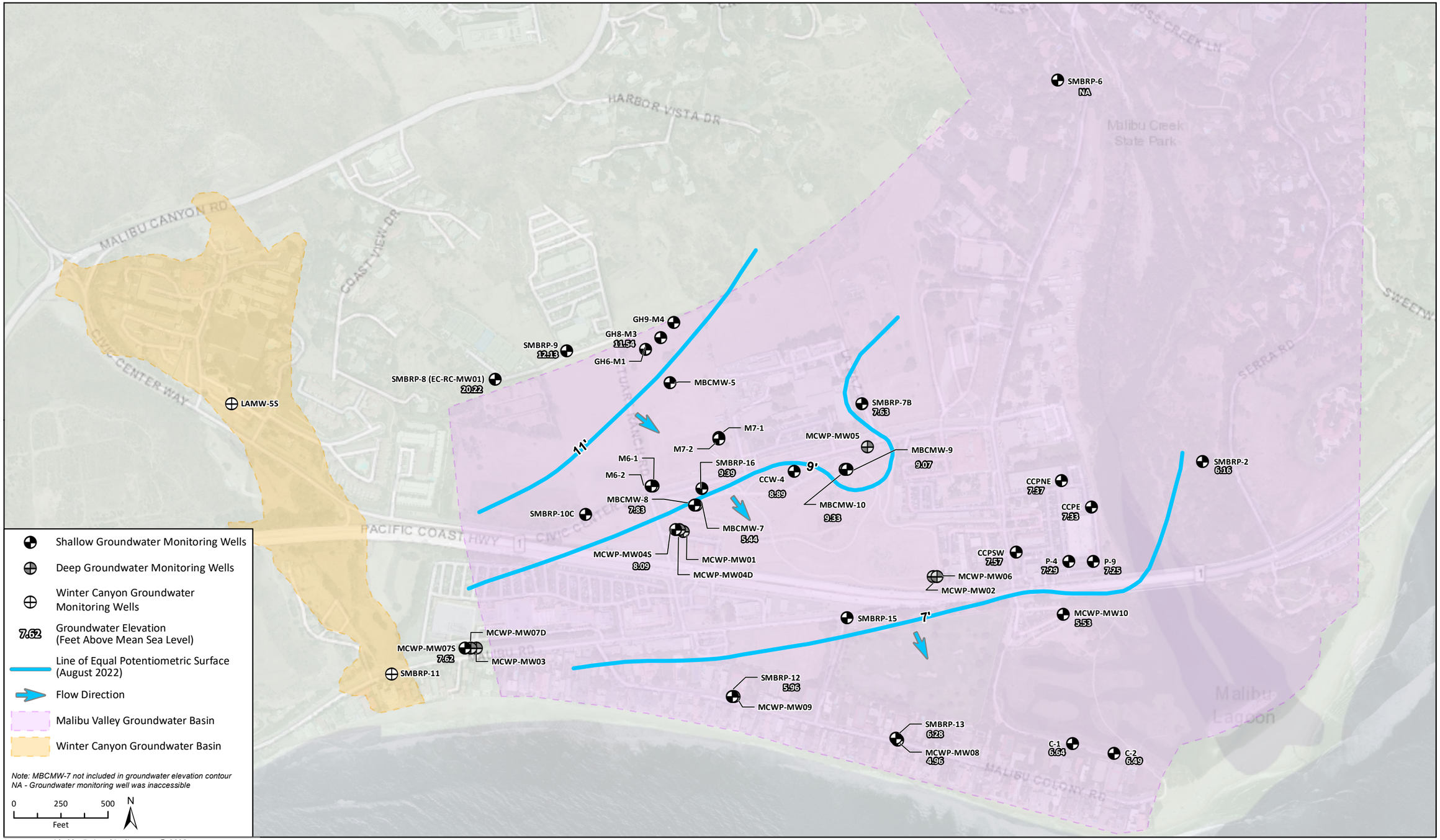


Imagery provided by Esri and its licensors © 2022.

Shallow Groundwater Elevation - July 2022

Figure 3

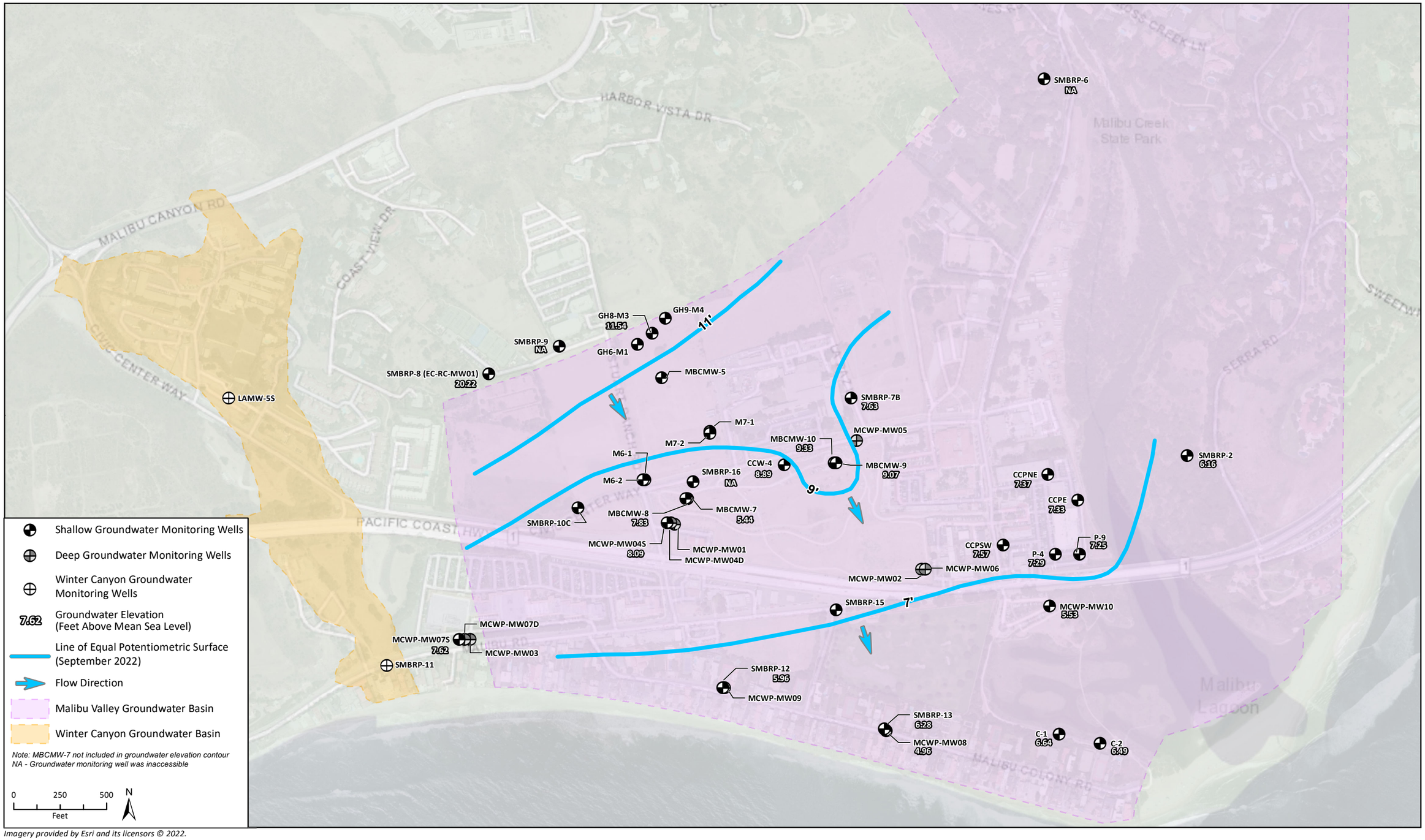
Rincon Consultants Inc.



Imagery provided by Esri and its licensors © 2022.

Shallow Groundwater Elevation - August 2022

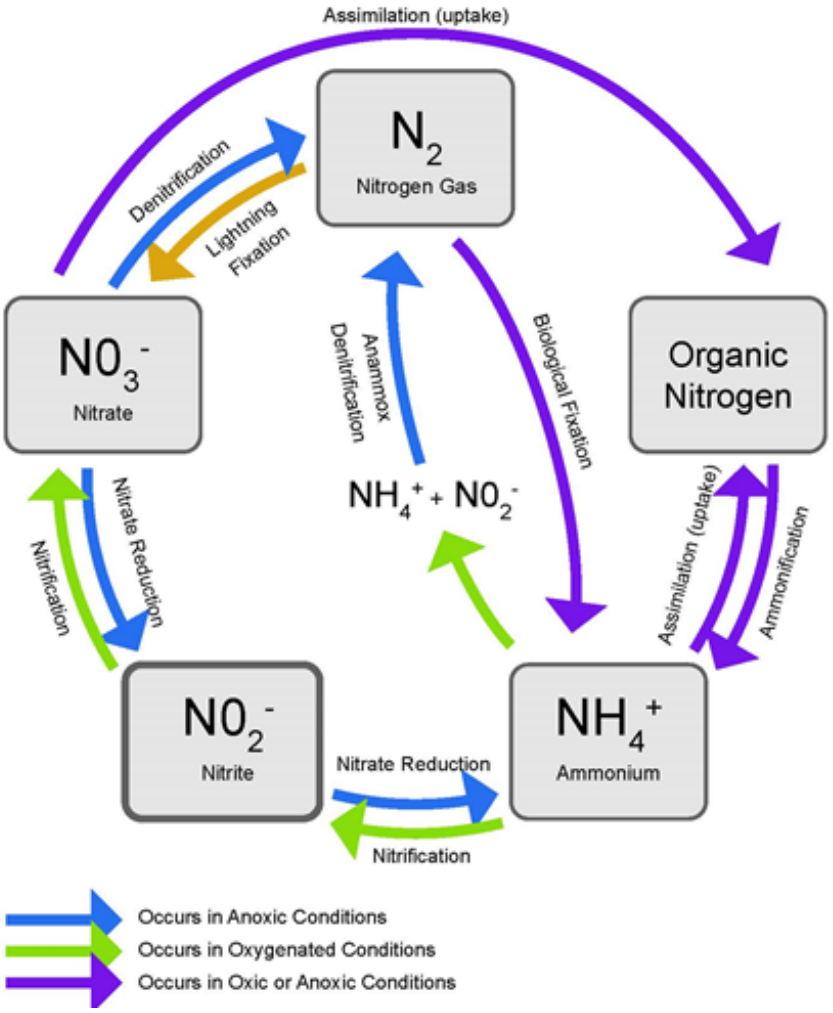
Figure 4



Imagery provided by Esri and its licensors © 2022.

Shallow Groundwater Elevation - September 2022

Figure 5



The Nitrogen Cycle Figure 6

Appendix A

Groundwater and Surface Water Field Sheets

Well Gauging

Project No.: 20-09665
Date: 7/25/22

Rincon Personnel: LANDON LUJAN
Project Name: MALIBU CIVIC CENTER Monthly gauging
Begin Time: 0940
End Time: 1400

Well Information

Well ID	Well Diameter (inches)	Time	Depth to Water (ft bTOC)	Total Depth (ft bTOC)		Well Condition	Notes
				Measured	Constructed / Historical		
C-1	4	1335	4.84	5.72	14.50		
C-2	4	1337	4.65	13.60	14.20	NB	
CCPE	2	1130	5.56	52.35	52.70	good NEW box	
CCPNE	2	1124	6.25	24.03	24.10		
CCPSW	2	1145	6.09	20.98	19.90	NB	
CCW-4	1	1052	6.84	12.14	12.30		
GH6-M1	2	1024	29.51	34.84	35.20	NO bolts	
GH8-M3	2	1027	28.68	39.24	40.21	NO bolts	
~~GH9-M4~~	—	—	—	—	~~44.29~~	—	—
M6-1	2	1030	6.66	45.10	45.30	G	
M6-2	2	1032	6.10	19.63	19.40	G	
M7-1	2	1015	8.59	39.00	39.35	G G	
M7-2	2	1020	8.37	19.40	19.60	G	
MBCMW-5	2	~~1~~1022	DRY	18.22	19.40	NO Bolts	
~~MBCMW-6~~	—	—	—	—	~~64.26~~	—	—
MBCMW-7	2	1046	11.06	51.85	52.15		
MBCMW-8	2	1048	8.58	11.92	11.95		
MBCMW-9	2	1100	8.61	9.24	9.25	NB	
MBCMW-10	2	1103	8.30	51.23	51.75	NB	
MCWP-MW01	6	1245	10.03	144.92	152.88	NB	
MCWP-MW02	4	1235	10.40	21.98	148.20		
MCWP-MW03	6	1248	7.81	132.64	136.65	NB	
MCWP-MW04S	4	1237	7.10	20.40	20.45		

References:
ft bTOC – Feet below top of casing

Scanned with CamScanner

Well Gauging

Project No.: 20-09665

Date: 7/25/22

Well Information

Well ID	Well Diameter (inches)	Time	Depth to Water (ft bTOC)	Total Depth (ft bTOC)		Well Condition	Notes
				Measured	Constructed / Historical		
MCWP-MW04D	4	1240	9.29	145.10	149.20		
MCWP-MW05	4	1055	7.41	150.42	154.40		
MCWP-MW06	2	1235	9.69	136.31	138.15		
MCWP-MW07S	2	1255	6.62	17.13	17.22		
MCWP-MW07D	2	1252	7.65	127.60	129.60		
MCWP-MW08	2	1312	7.40	79.28	79.38	Str. threads	
MCWP-MW09	2	1307	5.72	88.98	89.60		
MCWP-MW10	2	1347	5.53	22.13	22.23		
P-4	4	1037	4.80	10.75	14.57		
P-9	4	1039	4.87	13.20	13.90		
SMBRP-2	4	1225	5.87	24.78	24.88	1 Bt.	
SMBRP-6	2	1115	16.40	23.31	23.45		
SMBRP-7B	2	1105	11.35	25.65	25.13		
SMBRP-8 (EC1-RC-MW01)	4	1000	28.40	40.25	40.46		
SMBRP-9	2				45.40	Car on top	
~~SMBRP-10C~~	—	—	—	—	~~25.00~~	—	—
SMBRP-12	2	1305	6.68	24.45	24.88		
SMBRP-13	2	1315	7.90	19.35	19.48		
SMBRP-15B	1		DRY	8.29	8.40		
SMBRP-16	2	1045	5.05	25.00	25.00	NB	
LAMW-5S	4	0945	58.35	73.41	73.43		
SMBRP-11	2	1258	8.69	20.03	20.38		
~~Lagoon~~	—	—	—	—	~~N/A~~	—	—

References:

ft bTOC – Feet below top of casing

Scanned with CamScanner

Well Gauging

Project No.: 20-09665
Date: 8/1/22

Rincon Personnel: LANDON L./Jon B.
Project Name: Malibu Civic Center – Q3 Semi-Annual

Begin Time: 0915
End Time: 1440

Well Information

Well ID	Well Diameter (inches)	Time	Depth to Water (ft bTOC)	Total Depth (ft bTOC)		Well Condition	Notes
				Measured	Constructed / Historical		
C-1	4	1140	4.83	5.76	14.50	No bolts, no seal, well casing flush w sand	
C-2	4	1145	4.70	13.31	14.20	no bolts, no seal, well casing flush w sa	
CCPE	2	1104	5.61	50.80	52.70	Good	New well Box
CCPNE	2	1110	6.31	24.05	24.10	ok	No Bolts
CCPSW	2	1120	6.10	20.98	19.90	No bolts, No tabs	
CCW-4	1	1028	6.88	12.10	12.30	No seal, 2x stripped tabs	
GH6-M1	2	0957	29.52	34.80	35.20	No bolts No gas	
GH8-M3	2	1001	28.67	39.25	40.21	No bolts, no gas, hole in PVC, slip cap	
~~GH9-M4~~	—	—	—	—	~~44.29~~	—	—
M6-1	2	1005	6.70	45.00	45.30	~~No Gas, PVC Cap too tall~~ Lid not flush	
M6-2	2	1006	6.10	19.65	19.40		
M7-1	2	0948	8.65	39.00	39.35	ok	~~No seal~~
M7-2	2	0949	8.45	19.34	19.60	ok	
MBCMW-5	2	0954	DRY	18.22	19.40	PVC bent cap doesn't sit flat. no bo	
~~MBCMW-6~~	—	—	—	—	~~64.26~~	—	—
MBCMW-7	2	1022	11.20	51.86	52.15	Poor	~~No Bolts, No seal, PVC cap~~ too big. Lid not flush
MBCMW-8	2	1023	4.70	11.91	11.95		
MBCMW-9	2	1039	8.64	9.25	9.25	~~2 No tabs, 1~~ missing bolt, no gas	
MBCMW-10	2	1040	8.41	51.25	51.75		
MCWP-MW01	6	1420	10.97	145.02	152.88	No bolts, cap too tall for lid.	
MCWP-MW02	4	1159	10.38	22.01	148.20	No bolts, no seal, stripped tabs	
MCWP-MW03	6	1347	7.43	132.61	136.65	No bolts, no gas	
MCWP-MW04S	4	1417	7.20	20.45	20.45	~~1 tab stripped~~ 1 bolt missing	

References:
ft bTOC – Feet below top of casing

Scanned with CamScanner

Well Gauging

Project No.: 20-09665
Date: 08/01/22

Well Information

Well ID	Well Diameter (inches)	Time	Depth to Water (ft bTOC)	Total Depth (ft bTOC)		Well Condition	Notes
				Measured	Constructed / Historical		
MCWP-MW04D	4	1412	9.11	145.22	149.20	2x tabs stripped 2x stripped bolts	
MCWP-MW05	4	1032	7.28	150.40	154.40	1 stripped cap 1 missing tab	No Gas 1 missing bolt
MCWP-MW06	2	1203	9.55	136.29	138.15	No bolts, no Gas	
MCWP-MW07S	2	1353	6.10	17.10	17.22	~~No Gas, 2x broken tabs, 1 bolt missing.~~	
MCWP-MW07D	2	1350	7.30	127.56	129.60	No gas, 2x missing screws, 2x missing tabs	
MCWP-MW08	2	1326	7.25	79.19	79.38	#	
MCWP-MW09	2	~~SB 1336~~ 1326	~~SB 7.26~~ 7.25	89.05	89.60	1 Bolt, 1 cap broken, 1 stripped, no Gas	
MCWP-MW10	2	1130	5.58	22.16	22.23	1 cap missing, 1 stripped, no seal	
P-4	4	1118	4.87	10.77	14.57		
P-9	4	1115	4.92	13.30	13.90	No bolts, stripped tabs x2	
SMBRP-2	4	1133	6.97	24.78	24.88	No Gas, 1 bolt missing	
SMBRP-6	2	—	~~15.31~~	~~23.21~~	23.45	Could not access, owner out of town	
SMBRP-7B	2	1046	11.36	25.02	25.13	Cracked apron, no gas, PVC well casing cracked severely	
SMBRP-8 (EC1-RC-MW01)	4	0933	28.47	40.25	40.46	Good	
SMBRP-9	2	0930	38.19	44.94	45.40	ok, cracked apron, no ~~s~~ gasket	
~~SMBRP-10C~~	—	—	—	—	~~25.00~~	—	—
SMBRP-12	2	1333	6.66	24.44	24.88	No Gas	
SMBRP-13	2	1320	7.30	19.36	19.48	2x stripped tabs, no Gas.	
SMBRP-15B	1	1343	DRY	8.29	8.40	no well cap	
SMBRP-16	2	1015	5.11	25.00	25.00	no bolts, no Gas	
LAMW-5S	4	0920	58.45	73.40	73.43	No Gas, 2x stripped tabs	
SMBRP-11	2	1357	8.81	20.09	20.38	1 bolt missing, ~~de~~ bad Gas	
~~Lagoon~~	—	—	—	—	~~N/A~~	—	—

References:
ft bTOC – Feet below top of casing

Gas = gasket/seal

Scanned with CamScanner

Standard Purge Groundwater Sampling

Project No.: 20-09665
Date: 8/3/22

Rincon Personnel: Jon Bridgman
Project Name: Malibu Civic Center Q3 SemiAnnual
Weather Conditions: Sunny
Well ID: MCWP-MW09
Begin/End Time: 1130 / 1315
Start Purge: 1157

Well and Purging Information

Total Well Depth (ft btoc):	89.05	Well Diameter (in):	2"
Static Depth to Water (ft btoc):	5.69	Screened Interval (ft btoc):	—
Length of Water Column (ft):	83.36	Pump Inlet Depth (ft btoc):	25.0
One Casing Volume (gal):	13.3	3 Casing Volumes (gal):	40.0
DTW Indicator:	Solinst	Type of Pump:	ES

References: 0.5" Dia. = 0.01 gal/ft; 1" Dia. = 0.041 gal/ft; 2" Dia. = 0.16 gal/ft; 4" Dia. = 0.65 gal/ft; 6" Dia. = 1.46 gal/ft

Purge and Indicator Data

Purge Time	Flow Rate (gal/min)	Volume Purged (gal)	DTW (ft btoc)	Temp. (C)	Turbidity (NTU)	~~Cond.~~ (mS/cm or µS/cm)	pH	Notes
1205	1.7	13.5	6.19	22.4	2	2.26	7.14	
1213	1	27.0	6.15	22.1	2	2.27	7.21	
1221	1	40.5	6.17	21.8	1	2.25	7.20	
Parameters at Sampling:			5.71	21.9	1	2.25	7.10	

Target Well Recovery DTW: 5.79 = Static DTW 5.69 + (0.2 x Max. Drawdown 0.5)

Sample and Misc. Information

Sample Date: 8.3.22	Sample ID: MCWP-MW09	Sampling Time: 1240
Did Well Dewater: Yes (No)	Field Meter Type: HANNA	Sampling Method: Ded. Tubing
Duplicate Collected: Yes (No)	Meter/Calibration Date: 8/3/22	Laboratory: Enthalpy
Duplicate ID: — @	Equipment Blank ID: — @	Number of Bottles: 53

Additional Notes:

Scanned with CamScanner

Standard Purge Groundwater Sampling

Project No.: 20-09665
Date: 8/3/22

Rincon Personnel: Landon L. / Krystina C.
Project Name: Malibu Civic Center Q3 SemiAnnual
Weather Conditions: Sunny

Well ID: SMBRP-12
Begin/End Time: 1130 / 1250
Start Purge: 1141

Well and Purging Information

Total Well Depth (ft btoc):	24.44	Well Diameter (in):	2
Static Depth to Water (ft btoc):	6.40	Screened Interval (ft btoc):	—
Length of Water Column (ft):	18.04	Pump Inlet Depth (ft btoc):	~~8~~ 20.0
One Casing Volume (gal):	2.89	3 Casing Volumes (gal):	8.65
DTW Indicator:	Solinst 102	Type of Pump:	E.S.

References: 1" Dia. = 0.041 gal/ft; 4" Dia. = 0.65 gal/ft; 0.5" Dia. = 0.01 gal/ft; 2" Dia. = 0.16 gal/ft; 6" Dia. = 1.46 gal/ft

Purge and Indicator Data

Purge Time	Flow Rate (gal/min)	Volume Purged (gal)	DTW (ft btoc)	Temp. (C)	Turbidity (NTU)	Cond. (mS/cm or µS/cm)	pH	Notes
1147	0.55	3.0	6.74	25.9	0	2.34	7.06	
1152	↓	6.0	6.76	24.6	4	2.29	7.11	
1158	↓	9.0	6.74	24.2	1	2.26	7.14	
1203	↓	12.0	6.41	24.1	1	2.26	7.14	
Parameters at Sampling:			6.41	23.7	1	2.27	7.11	

Target Well Recovery DTW: 6.47 = Static DTW 6.40 + (0.2 x Max. Drawdown 0.36)

Sample and Misc. Information

Sample Date: 8/3/22	Sample ID: SMBRP-12	Sampling Time: 1215
Did Well Dewater: Yes (No)	Field Meter Type: Hanna	Sampling Method: D.ed. tubing
Duplicate Collected: Yes (No)	Meter/Calibration Date: 8/3/22	Laboratory: Enthalpy
Duplicate ID: ——— @	Equipment Blank ID: ——— @	Number of Bottles: 53

Additional Notes:

Scanned with CamScanner

Standard Purge Groundwater Sampling

Project No.: 20-09665
Date: 8.3.22

Rincon Personnel: Jon Bridgeman
Project Name: Malibu Civic Center Q3 SemiAnnual
Weather Conditions: Sunny
Well ID: MRWP-MW10
Begin/End Time: 0820 / 0920
Start Purge: 847

Well and Purging Information

Total Well Depth (ft btoc):	22.16	Well Diameter (in):	2
Static Depth to Water (ft btoc):	5.61	Screened Interval (ft btoc):	—
Length of Water Column (ft):	16.55	Pump Inlet Depth (ft btoc):	19
One Casing Volume (gal):	2.65	3 Casing Volumes (gal):	7.95
DTW Indicator:	Solinst	Type of Pump:	ES

References: 1" Dia. = 0.041 gal/ft; 2" Dia. = 0.16 gal/ft; 4" Dia. = 0.65 gal/ft; 6" Dia. = 1.46 gal/ft; 0.5" Dia. = 0.01 gal/ft

Purge and Indicator Data

Purge Time	Flow Rate (gal/min)	Volume Purged (gal)	DTW (ft btoc)	Temp. (C)	Turbidity (NTU)	Cond. (mS/cm or µS/cm)	pH	Notes
~~850~~	1	3.0	5.68	~~22.4~~ ~~26.0~~ 22.9	6	~~1.8930~~ 1.80	~~6.756~~ 6.78	
853	1	6.0	5.71	21.6	2	1.80	6.82	
856	1	9.0	5.73	21.5	2	1.78	6.87	
							~~6.98~~ 6.93	
Parameters at Sampling:		5.61		22.1	2	1.77	6.93	
Target Well Recovery DTW:		5.63	= Static DTW 5.61		+ (0.2 x Max. Drawdown 0.12)			

Sample and Misc. Information

Sample Date: 8.3.22		Sample ID: MRWP-MW10	Sampling Time: 0905
Did Well Dewater: Yes (No)		Field Meter Type: LaMotte	Sampling Method: ES Tubing
Duplicate Collected: Yes (No)		Meter/Calibration Date: Hanna / 8.3.22	Laboratory: Eurofins
Duplicate ID: —	@	Equipment Blank ID: —	@ Number of Bottles: 5

Additional Notes:

Rincon Consultants Inc.

Scanned with CamScanner

Standard Purge Groundwater Sampling

Project No.: 20-09665
Date: 8/3/22

Rincon Personnel: Landon L. / Jon. B.
Project Name: Malibu Civic Center Q3 SemiAnnual
Weather Conditions: Cloudy

Well ID: MCWP-MW04D
Begin/End Time: 0825 / 1115
Start Purge: 0833

Well and Purging Information

Total Well Depth (ft btoc):	145.22	Well Diameter (in):	4 in
Static Depth to Water (ft btoc):	9.79	Screened Interval (ft btoc):	—
Length of Water Column (ft):	135.43	Pump Inlet Depth (ft btoc):	12.0
One Casing Volume (gal):	88.03	3 Casing Volumes (gal):	264.09
DTW Indicator:	Solinst 102	Type of Pump:	E.S.

References: 1" Dia. = 0.041 gal/ft; 4" Dia. = 0.65 gal/ft; 0.5" Dia. = 0.01 gal/ft; 2" Dia. = 0.16 gal/ft; 6" Dia. = 1.46 gal/ft

Purge and Indicator Data

Purge Time	Flow Rate (gal/min)	Volume Purged (gal)	DTW (ft btoc)	Temp. (C)	Turbidity (NTU)	Cond. (mS/cm or µS/cm)	pH	Notes
0927	1.64	88.5	9.71	22.3	0	2262	7.24	
1000	5.70	177.0	9.71	22.4	0	2292	7.19	added additional Pump
1031	1	265.5	9.71	22.1	0	2302	7.21	

Parameters at Sampling:	9.71	21.0	0	2297	7.20
Target Well Recovery DTW:	9.79	= Static DTW 9.79	+ (0.2 x Max. Drawdown 0)		

Sample and Misc. Information

Sample Date: 9.3.22	Sample ID: MCWP-MW04D	Sampling Time: 1040
Did Well Dewater: Yes (No)	Field Meter Type: HANNA	Sampling Method: Ded. Tubing
Duplicate Collected: Yes (No)	Meter/Calibration Date: 8/3/22	Laboratory: Enthalpy
Duplicate ID: — @	Equipment Blank ID: — @	Number of Bottles: 53

Additional Notes:

Scanned with CamScanner

Standard Purge Groundwater Sampling

Project No.: 20-09665
Date: 8/1/22 - 8/2/22

Rincon Personnel:	LANDON L. / JON B.	**Well ID:**	LAMW-5S
Project Name:	Malibu Civic Center Q3 SemiAnnual	**Begin/End Time:**	1546 - 8/1 / 0854 - 8/2
Weather Conditions:	SUNNY	**Start Purge:**	1610

Well and Purging Information

Total Well Depth (ft btoc):	73.40	Well Diameter (in):	4
Static Depth to Water (ft btoc):	58.53	Screened Interval (ft btoc):	—
Length of Water Column (ft):	14.87	Pump Inlet Depth (ft btoc):	70.0
One Casing Volume (gal):	9.67	3 Casing Volumes (gal):	29.01
DTW Indicator:	Solinst 102	Type of Pump:	ES

References: 1" Dia. = 0.041 gal/ft; 2" Dia. = 0.16 gal/ft; 4" Dia. = 0.65 gal/ft; 6" Dia. = 1.46 gal/ft; 0.5" Dia. = 0.01 gal/ft

Purge and Indicator Data

Purge Time	Flow Rate (gal/min)	Volume Purged (gal)	DTW (ft btoc)	Temp. (C)	Turbidity (NTU)	Cond. (mS/cm or µS/cm)	pH	Notes
1623	0.8	10.0	68.6	24.2	72	1.04	6.78	
~~1635~~		~~30.0~~	Dewatered	at 15	Gal 3	73.0	ft	

Parameters at Sampling:	58.57	22.6	45.2	0.98	6.53	
Target Well Recovery DTW:	61.43	= Static DTW 58.53 + (0.2 x Max. Drawdown ~~58.13~~ LL) 14.47				

Sample and Misc. Information

Sample Date: 8/2/2022	Sample ID: LAMW-5S	Sampling Time: 0840
Did Well Dewater: (Yes) No	Field Meter Type: HANNA	Sampling Method: Bailer
Duplicate Collected: Yes (No)	Meter/Calibration Date: 8/1/22	Laboratory: Enthalpy
Duplicate ID: — @	Equipment Blank ID: — @	Number of Bottles: 5

Additional Notes:

Scanned with CamScanner

Standard Purge Groundwater Sampling

Project No.: 20-09665
Date: 8/1/22 - 8/2/22

Rincon Personnel: LANDON L. / JON B.
Project Name: Malibu Civic Center Q3 SemiAnnual
Weather Conditions: Sunny
Well ID: SMBRP-11
Begin/End Time: 1735 - 8/1 / 0930 - 8/2
Start Purge: 1742

Well and Purging Information

Total Well Depth (ft btoc):	20.07	Well Diameter (in):	2
Static Depth to Water (ft btoc):	8.95	Screened Interval (ft btoc):	—
Length of Water Column (ft):	~~1.78~~ 11.12	Pump Inlet Depth (ft btoc):	19.0
One Casing Volume (gal):	1.78	3 Casing Volumes (gal):	5.34
DTW Indicator:	Solinst 102	Type of Pump:	E.S.

References: 0.5" Dia. = 0.01 gal/ft; 1" Dia. = 0.041 gal/ft; 2" Dia. = 0.16 gal/ft; 4" Dia. = 0.65 gal/ft; 6" Dia. = 1.46 gal/ft

Purge and Indicator Data

Purge Time	Flow Rate (gal/min)	Volume Purged (gal)	DTW (ft btoc)	Temp. (C)	Turbidity (NTU)	Cond. (mS/cm or µS/cm)	pH	Notes
1746	0.5	2.0	11.30	23.9	184	1.71	6.87	
1750	1	4.0	18.54	24.2	481	1.61	6.91	
1753		~~6.0~~	19.52	—	Well dewatered @	5.0 gallons	—	—
Parameters at Sampling:			8.81	23.1	39	2907 µS/cm	6.96	

Target Well Recovery DTW: 11.06 = Static DTW 8.95 + (0.2 x Max. Drawdown 10.57)

Sample and Misc. Information

Sample Date: 8/2/22	Sample ID: SMBRP-11	Sampling Time: 0920
Did Well Dewater: (Yes) No	Field Meter Type: HANNA	Sampling Method: Bail
Duplicate Collected: Yes (No)	Meter/Calibration Date: 8/1/22	Laboratory: Enthalpy
Duplicate ID: — @	Equipment Blank ID: — @	Number of Bottles: 5

Additional Notes:

Scanned with CamScanner

Standard Purge Groundwater Sampling

Project No.: 20-09665
Date: 8/1/22

Rincon Personnel: LANDON L.
Project Name: Malibu Civic Center Q3 SemiAnnual
Weather Conditions: Sunny

Well ID: MBCMW-9
Begin/End Time: 1715 / 1725
Start Purge: ~~0~~ 1720

Well and Purging Information

Total Well Depth (ft btoc):	9.25	Well Diameter (in):	2
Static Depth to Water (ft btoc):	8.60	Screened Interval (ft btoc):	—
Length of Water Column (ft):	0.65	Pump Inlet Depth (ft btoc):	—
One Casing Volume (gal):	0.104	3 Casing Volumes (gal):	0.312
DTW Indicator:	Solinst 102	Type of Pump:	Bail

References: 1" Dia. = 0.041 gal/ft; 4" Dia. = 0.65 gal/ft; 0.5" Dia. = 0.01 gal/ft; 2" Dia. = 0.16 gal/ft; 6" Dia. = 1.46 gal/ft

Purge and Indicator Data

Purge Time	Flow Rate (gal/min)	Volume Purged (gal)	DTW (ft btoc)	Temp. (C)	Turbidity (NTU)	Cond. (mS/cm or µS/cm)	pH	Notes
1725	—	0.1	—	→ Dewatered	—	@ 9.15ft		insufficient to take parameters
		0.2						

Parameters at Sampling:
Target Well Recovery DTW: 8.71 = Static DTW 8.60 + (0.2 x Max. Drawdown 0.55)

Sample and Misc. Information

Sample Date: N/A	Sample ID: MBCMW-9	Sampling Time: N/A
Did Well Dewater: (Yes) No	Field Meter Type: HANNA	Sampling Method: N/A
Duplicate Collected: Yes (No)	Meter/Calibration Date: 8/1/22	Laboratory: N/A
Duplicate ID: — @ —	Equipment Blank ID: — @ —	Number of Bottles: N/A

Additional Notes:
Insufficient Water to Sample — Did not Sample

Scanned with CamScanner

Standard Purge Groundwater Sampling

Project No.: 20-09665
Date: 8/1/22 - 8/2/22

Rincon Personnel: LANDON L. / Jon B
Project Name: Malibu Civic Center Q3 SemiAnnual
Weather Conditions: Sunny
Well ID: SMBRP-7B
Begin/End Time: 1645 - 8/1 | 0945 8/2
Start Purge: 1652

Well and Purging Information

Total Well Depth (ft btoc):	25.02	Well Diameter (in):	2
Static Depth to Water (ft btoc):	11.35	Screened Interval (ft btoc):	—
Length of Water Column (ft):	13.67	Pump Inlet Depth (ft btoc):	24.5
One Casing Volume (gal):	2.19	3 Casing Volumes (gal):	6.57
DTW Indicator:	Solinst 102	Type of Pump:	ES

References: 1" Dia. = 0.041 gal/ft; 2" Dia. = 0.16 gal/ft; 4" Dia. = 0.65 gal/ft; 6" Dia. = 1.46 gal/ft; 0.5" Dia. = 0.01 gal/ft

Purge and Indicator Data

Purge Time	Flow Rate (gal/min)	Volume Purged (gal)	DTW (ft btoc)	Temp. (C)	Turbidity (NTU)	Cond. (mS/cm or µS/cm)	pH	Notes
1658	1.0	7	18.5	23.7	26.9	1.94	7.05	
		14 dewatered at 8" gals at 24.1						
		~~21~~ 18						

Parameters at Sampling:	11.35	25.7	21	1.80	6.78	
Target Well Recovery DTW:	13.90	= Static DTW 11.35	+ (0.2 x Max. Drawdown 12.75)			

Sample and Misc. Information

Sample Date: 8.2.22	Sample ID: SMBRP-7B	Sampling Time: 0915
Did Well Dewater: (Yes) No	Field Meter Type: HANNA	Sampling Method: Bail
Duplicate Collected: Yes (No)	Meter/Calibration Date: 8/1/22	Laboratory: Enthalpy
Duplicate ID: — @	Equipment Blank ID: — @	Number of Bottles: 5

Additional Notes:

Scanned with CamScanner

Standard Purge Groundwater Sampling

Project No.: 20-09665
Date: 8/2/22

Rincon Personnel: Landon L., Jon B., Krystina
Project Name: Malibu Civic Center Q3 SemiAnnual
Weather Conditions: clear
Well ID: MCWP-MW07D
Begin/End Time: 1020 ~~AH~~ / 1225 ~~AH~~ LL
Start Purge: 1035

Well and Purging Information

Total Well Depth (ft btoc):	127.56	Well Diameter (in):	2in
Static Depth to Water (ft btoc):	7.73	Screened Interval (ft btoc):	—
Length of Water Column (ft):	119.83	Pump Inlet Depth (ft btoc):	33.0
One Casing Volume (gal):	19.17	3 Casing Volumes (gal):	57.51
DTW Indicator:	Solinst 102	Type of Pump:	ES

References: 1" Dia. = 0.041 gal/ft; 2" Dia. = 0.16 gal/ft; 4" Dia. = 0.65 gal/ft; 6" Dia. = 1.46 gal/ft; 0.5" Dia. = 0.01 gal/ft

Purge and Indicator Data

Purge Time	Flow Rate (gal/min)	Volume Purged (gal)	DTW (ft btoc)	Temp. (C)	Turbidity (NTU)	Cond. (mS/cm or µS/cm)	pH	Notes
1050	1.25	19.5	7.65	~~24.6~~ 23.8	0.87	1803	7.46	Temp=23.8
1109	1	39.0	7.65	23.0	~~0.1~~ 1	1824	7.45	
1122	1	58.5	7.65	23.1	1	1735	7.53	
Parameters at Sampling:			7.65	23.3	1	1756	7.50	

Target Well Recovery DTW: 7.73 = Static DTW 7.73 + (0.2 x Max. Drawdown 0)

Sample and Misc. Information

Sample Date: 8/2/22	Sample ID: MCWP-MW07D	Sampling Time: 1135
Did Well Dewater: Yes (No)	Field Meter Type: Hanna	Sampling Method: Ded. Tubing
Duplicate Collected: Yes (No)	Meter/Calibration Date: 8/2/22	Laboratory: Enthalpy
Duplicate ID: — @	Equipment Blank ID: — @	Number of Bottles: 53

Additional Notes:

Rincon Consultants Inc.
~~45~~ 30 55

Scanned with CamScanner

Standard Purge Groundwater Sampling

Project No.: 20-09665
Date: 8/1/22 - 8/2/22

Rincon Personnel: LANDON L., JON B.
Project Name: Malibu Civic Center Q3 SemiAnnual
Weather Conditions: cloudy
Well ID: MCWP-MW04S
Begin/End Time: 1450-8/1 / 1355-8/2
Start Purge: 1459

Well and Purging Information

Total Well Depth (ft btoc):	20.45	Well Diameter (in):	4
Static Depth to Water (ft btoc):	7.15	Screened Interval (ft btoc):	—
Length of Water Column (ft):	13.3	Pump Inlet Depth (ft btoc):	19.5 Ft
One Casing Volume (gal):	8.65	3 Casing Volumes (gal):	25.95
DTW Indicator:	Solinst 102	Type of Pump:	E.S.

References: 1" Dia. = 0.041 gal/ft 4" Dia. = 0.65 gal/ft
0.5" Dia. = 0.01 gal/ft 2" Dia. = 0.16 gal/ft 6" Dia. = 1.46 gal/ft

Purge and Indicator Data

Purge Time	Flow Rate (gal/min)	Volume Purged (gal)	DTW (ft btoc)	Temp. (C)	Turbidity (NTU)	Cond. (mS/cm) or µS/cm)	pH	Notes
1516	0.53	9.0	16.85	25.7	~~50~~ 10	1.01	~~6.95~~ LL	7.03 pH
1522	—	~~18.0~~ LL	Dewatered @		11.5 gallons	—	—	@ 20.1 ft
		~~27.0~~ LL						
			9.43					

Parameters at Sampling:	~~10.19~~ LL	25.2	202	3999 µS/cm	7.48	Cond- couldn't use high range meter
Target Well Recovery DTW:	9.74	= Static DTW 7.15		+ (0.2 x Max. Drawdown 12.95)		

Sample and Misc. Information

Sample Date: 8/2/22	Sample ID: MCWP-MW04S	Sampling Time: 1300
Did Well Dewater: (Yes) No	Field Meter Type: HANNA	Sampling Method: Ded. tubing
Duplicate Collected: Yes (No)	Meter/Calibration Date: 8/1/22	Laboratory: Enthalpy
Duplicate ID: — @	Equipment Blank ID: — @	Number of Bottles: 53

Additional Notes:

Scanned with CamScanner

Standard Purge Groundwater Sampling

Project No.: 20-09665
Date: 8/2/22

Rincon Personnel: Landon L., Jon B., Krystina C.
Project Name: Malibu Civic Center Q3 SemiAnnual
Weather Conditions: Sunny, Clear
Well ID: SMBRP-13
Begin/End Time: 1410 / 1450
Start Purge: 1415

Well and Purging Information

Total Well Depth (ft btoc):	19.36	Well Diameter (in):	2
Static Depth to Water (ft btoc):	7.20	Screened Interval (ft btoc):	—
Length of Water Column (ft):	12.16	Pump Inlet Depth (ft btoc):	17.0
One Casing Volume (gal):	1.95	3 Casing Volumes (gal):	5.84
DTW Indicator:	Solinst 102	Type of Pump:	E.S.

References: 1" Dia. = 0.041 gal/ft; 2" Dia. = 0.16 gal/ft; 4" Dia. = 0.65 gal/ft; 6" Dia. = 1.46 gal/ft; 0.5" Dia. = 0.01 gal/ft

Purge and Indicator Data

Purge Time	Flow Rate (gal/min)	Volume Purged (gal)	DTW (ft btoc)	Temp. (C)	Turbidity (NTU)	Cond. (mS/cm or µS/cm)	pH	Notes
1418	0.67	2.0	7.22	21.8	16	5.19	6.98	
1421	|	4.0	7.22	21.7	6	5.11	6.99	
1424	|	6.0	7.22	21.4	4	5.19	7.01	
1427	⊥	8.0	7.22	21.5	3	5.14	7.01	
					F K.C.			
Parameters at Sampling:			7.20	21.6	1	5.22	7.03	

Target Well Recovery DTW: 7.20 = Static DTW 7.20 + (0.2 x Max. Drawdown 0.02)

Sample and Misc. Information

Sample Date: 8/2/22	Sample ID: SMBRP-13	Sampling Time: 1440
Did Well Dewater: Yes (No)	Field Meter Type: Hanna	Sampling Method: Ded. tubing
Duplicate Collected: Yes (No)	Meter/Calibration Date: 8/2/22	Laboratory: Enthalpy
Duplicate ID: — @	Equipment Blank ID: — @	Number of Bottles: 5

Additional Notes:

Scanned with CamScanner

Standard Purge Groundwater Sampling

Project No.: 20-09665
Date: 8.2.22

Rincon Personnel: JB, LL
Project Name: Malibu Civic Center Q3 SemiAnnual
Weather Conditions: Sunny
Well ID: MCWP-MW07S
Begin/End Time: 1020 / 1256
Start Purge: 1036

Well and Purging Information

Total Well Depth (ft btoc):	17.10	Well Diameter (in):	2"
Static Depth to Water (ft btoc):	6.12	Screened Interval (ft btoc):	—
Length of Water Column (ft):	10.98	Pump Inlet Depth (ft btoc):	16.5
One Casing Volume (gal):	1.76	3 Casing Volumes (gal):	5.27
DTW Indicator:	Solinst 102	Type of Pump:	ES

References: 0.5" Dia. = 0.01 gal/ft; 1" Dia. = 0.041 gal/ft; 2" Dia. = 0.16 gal/ft; 4" Dia. = 0.65 gal/ft; 6" Dia. = 1.46 gal/ft

Purge and Indicator Data

Purge Time	Flow Rate (gal/min)	Volume Purged (gal)	DTW (ft btoc)	Temp. (C)	Turbidity (NTU)	Cond. (mS/cm or µS/cm)	pH	Notes
1039	0.25	2	13.61	23.3	33.2	1.13	7.24	
1047	1	4	15.62	23.0	35.1	1.11	7.23	
1100	1	6	15.67	22.5	34.1	1.10	7.28	slowed purge.
Parameters at Sampling:			7.74	23.7	40.0	1.10	7.27	

Target Well Recovery DTW: 8.03 = Static DTW 6.12 + (0.2 x Max. Drawdown 9.55)

Sample and Misc. Information

Sample Date: 8-2-22	Sample ID: MCWP-MW07S	Sampling Time: 1130
Did Well Dewater: Yes (No)	Field Meter Type: Hanna	Sampling Method: ES
Duplicate Collected: Yes (No)	Meter/Calibration Date: Hanna	Laboratory: Enthalpy
Duplicate ID: — @ —	Equipment Blank ID: — @ —	Number of Bottles: 53

Additional Notes:

Slowed down well but still would of dewatered.

Scanned with CamScanner

Standard Purge Groundwater Sampling

Project No.: 20-09665
Date: 8/4/22

Rincon Personnel: LANDON L. / SAWYER C.
Project Name: Malibu Civic Center G3 SemiAnnual
Weather Conditions: Sunny
Well ID: MCWP-MW06
Begin/End Time: 1258 / 1410
Start Purge: 1308

Well and Purging Information

Total Well Depth (ft btoc):	136.29	Well Diameter (in):	2
Static Depth to Water (ft btoc):	9.67	Screened Interval (ft btoc):	—
Length of Water Column (ft):	126.62	Pump Inlet Depth (ft btoc):	~~18~~ LL 25.0
One Casing Volume (gal):	20.26	3 Casing Volumes (gal):	60.78
DTW Indicator:	Solinst 102	Type of Pump:	ES

References: 1" Dia. = 0.041 gal/ft; 4" Dia. = 0.65 gal/ft; 0.5" Dia. = 0.01 gal/ft; 2" Dia. = 0.16 gal/ft; 6" Dia. = 1.46 gal/ft

Purge and Indicator Data

Purge Time	Flow Rate (gal/min)	Volume Purged (gal)	DTW (ft btoc)	Temp. (C)	Turbidity (NTU)	Cond. (mS/cm or µS/cm)	pH	Notes
1325	1.2	20.5	9.70	20.8	1	1.41	7.18	
1345	1	41.8	9.70	21.1	1	1.43	7.17	
1359	1	61.5	9.70	21.1	1	1.42	7.19	
					~~1~~	~~1.43~~ LL		
Parameters at Sampling:			9.68	21.1	1	1.43	7.19	
Target Well Recovery DTW:			9.68	= Static DTW 9.67 + (0.2 x Max. Drawdown 0.03)				

Sample and Misc. Information

Sample Date: 8/4/22		Sample ID: MCWP-MW06	Sampling Time:
Did Well Dewater:	Yes (No)	Field Meter Type: HANNA	Sampling Method: Ded. Tubing
Duplicate Collected:	Yes ~~No~~	Meter/Calibration Date: 8/4/22	Laboratory: Enthalpy
Duplicate ID: — @		Equipment Blank ID: — @	Number of Bottles: 2

Additional Notes:

24

Rincon Consultants Inc.

Scanned with CamScanner

Standard Purge Groundwater Sampling

Project No.: 20-09665
Date: 8/4/22

Rincon Personnel: Landon L. / Sawyer L.
Project Name: Malibu Civic Center G3 SemiAnnual
Weather Conditions: Sunny
Well ID: MCWP-MW05
Begin/End Time: 0740 / 1015
Start Purge: 0745

Well and Purging Information

Total Well Depth (ft btoc):	150.40	Well Diameter (in):	4
Static Depth to Water (ft btoc):	7.69	Screened Interval (ft btoc):	—
Length of Water Column (ft):	142.71	Pump Inlet Depth (ft btoc):	15.0
One Casing Volume (gal):	92.76	3 Casing Volumes (gal):	278.28
DTW Indicator:	Solinst 102	Type of Pump:	ES

References: 0.5" Dia. = 0.01 gal/ft; 1" Dia. = 0.041 gal/ft; 2" Dia. = 0.16 gal/ft; 4" Dia. = 0.65 gal/ft; 6" Dia. = 1.46 gal/ft

Purge and Indicator Data

Purge Time	Flow Rate (gal/min)	Volume Purged (gal)	DTW (ft btoc)	Temp. (C)	Turbidity (NTU)	Cond. (mS/cm or µS/cm)	pH	Notes
0835	~~2.1 93~~	93.0	7.77	21.3	0	1.13	6.93	x2 Pumps
0915	2.1	186.0	7.72	20.6	0	1.14	7.00	
1000	2.1	279.0	7.69	20.3	0	1.14	7.01	
		SC	~~7.69~~	~~20.3~~	~~0~~	~~1.14~~	~~7.09~~	

Parameters at Sampling:	7.69	20.3	0	1.14	7.03
Target Well Recovery DTW:	7.71	= Static DTW 7.69	+ (0.2 x Max. Drawdown 0.08	)	

Sample and Misc. Information

Sample Date: 8/4/22	Sample ID: MCWP-MW05	Sampling Time: 1010
Did Well Dewater: Yes (No)	Field Meter Type: HANNA	Sampling Method: Ded. Tubing
Duplicate Collected: Yes (No)	Meter/Calibration Date: 8/4/22	Laboratory: Enthalpy
Duplicate ID: — @	Equipment Blank ID: — @	Number of Bottles: 2

Additional Notes:

Scanned with CamScanner

Standard Purge Groundwater Sampling

Project No.: 20-09665
Date: 8/4/22

Rincon Personnel: LANDON L. / SAWYER C.
Project Name: Malibu Civic Center Q3 SemiAnnual
Weather Conditions: CLOUDY
Well ID: CCPE
Begin/End Time: 1155 / 1250
Start Purge: 1205

Well and Purging Information

Total Well Depth (ft btoc):	50.80	Well Diameter (in):	2
Static Depth to Water (ft btoc):	5.68	Screened Interval (ft btoc):	—
Length of Water Column (ft):	45.12	Pump Inlet Depth (ft btoc):	25.0
One Casing Volume (gal):	7.22	3 Casing Volumes (gal):	21.66
DTW Indicator:	Solinst 102	Type of Pump:	ES

References: 0.5" Dia. = 0.01 gal/ft; 1" Dia. = 0.041 gal/ft; 2" Dia. = 0.16 gal/ft; 4" Dia. = 0.65 gal/ft; 6" Dia. = 1.46 gal/ft

Purge and Indicator Data

Purge Time	Flow Rate (gal/min)	Volume Purged (gal)	DTW (ft btoc)	Temp. (C)	Turbidity (NTU)	Cond. (mS/cm or µS/cm)	pH	Notes
1211	1.07	7.5	5.77	~~20.2~~	1.17	1.25	6.75	temp 22.2
1219	"	15.0	5.75	20.3	1	1.30	6.89	
1226	"	22.5	5.75	20.5	0	1.30	6.90	
1233	"	30.0	5.75	20.1	0	1.30	6.93	

Parameters at Sampling: ~~5.69~~
Target Well Recovery DTW: 5.69 = Static DTW 5.68 + (0.2 x Max. Drawdown 0.09)

Sample and Misc. Information

Sample Date: 8/4/22	Sample ID: CCPE	Sampling Time: ~~1230~~ 1245
Did Well Dewater: Yes (No)	Field Meter Type: HANNA	Sampling Method: Ded. Tubing
Duplicate Collected: Yes (No)	Meter/Calibration Date: 8/4/22	Laboratory: Enthalpy
Duplicate ID: — @	Equipment Blank ID: — @	Number of Bottles: 5

Additional Notes:

Scanned with CamScanner

Standard Purge Groundwater Sampling

Project No.: 20-09665
Date: 8/3/22 – 8/4/22

Rincon Personnel: LANDON L.
Project Name: Malibu Civic Center Q3 SemiAnnual
Weather Conditions: Sunny

Well ID: SMBRP-9
Begin/End Time: 1440 8/3 / 1145 – 8/4/22
Start Purge: 1457

Well and Purging Information

Total Well Depth (ft btoc):	44.94	Well Diameter (in):	2
Static Depth to Water (ft btoc):	38.22	Screened Interval (ft btoc):	—
Length of Water Column (ft):	6.72	Pump Inlet Depth (ft btoc):	44.00
One Casing Volume (gal):	1.07	3 Casing Volumes (gal):	3.12
DTW Indicator:	Solinst 102	Type of Pump:	ES.

References: 1" Dia. = 0.041 gal/ft; 2" Dia. = 0.16 gal/ft; 4" Dia. = 0.65 gal/ft; 6" Dia. = 1.46 gal/ft; 0.5" Dia. = 0.01 gal/ft

Purge and Indicator Data

Purge Time	Flow Rate (gal/min)	Volume Purged (gal)	DTW (ft btoc)	Temp. (C)	Turbidity (NTU)	Cond. (mS/cm or µS/cm)	pH	Notes
1500	0.43	1.5	41.15	25.1	28	1.29	6.72	
1503		3.0	41.67	24.8	13	1.29	6.83	
1507		4.5	43.10	24.3	42	1.32	6.88	
1511		6.0	44.00	24.2	120	1.33	6.92	
	—		well de-watered @ 4th Purge Volume					—
Parameters at Sampling:			38.23	24.7	15	1.3	6.8	
Target Well Recovery DTW:			39.37	= Static DTW 38.22 + (0.2 x Max. Drawdown ~~44.0~~ cc) 5.78				

Sample and Misc. Information

Sample Date: 8/4/22	Sample ID: SMBRP-9	Sampling Time: 1050
Did Well Dewater: (Yes) No	Field Meter Type: HANNA	Sampling Method: Ded. Tubing
Duplicate Collected: Yes (No)	Meter/Calibration Date: 8/3/22	Laboratory: Enthalpy
Duplicate ID: — @	Equipment Blank ID: — @	Number of Bottles: 53

Additional Notes:

Rincon Consultants Inc.

Scanned with CamScanner

Well Gauging

Project No.: 20-09665
Date: 9/22/22

Rincon Personnel: Landon Lujan
Project Name: Malibu Civic Center GW gauging
Begin Time: 0850
End Time: 1400

Well Information

Well ID	Well Diameter (inches)	Time	Depth to Water (ft bTOC)	Total Depth (ft bTOC)		Well Condition	Notes
				Measured	Constructed / Historical		
C-1	4	0945	5.07	5.74	14.50		
C-2	4	0935	4.94	13.30	14.20		
CCPE	2	0905	5.50	50.82	52.70		
CCPNE	2	0900	6.22	24.67	24.10		
CCPSW	2	0920	6.05	20.05	19.90		
CCW-4	1	1330	7.32	11.90	12.30		Lots of Sediment on bottom
GH6-M1	2	1100	29.87	34.70	35.20		
GH8-M3	2	1105	29.03	39.27	40.21		
~~GH9-M4~~	—	—	—	—	~~44.29~~	—	—
M6-1	2	1045	6.75	45.07	45.30		
M6-2	2	1050	6.26	19.70	19.40		
M7-1	2	1115	8.84	39.60	39.35		
M7-2	2	1120	8.76	19.34	19.60		
MBCMW-5	2	1055	DRY	18.22	19.40		
~~MBCMW-6~~	—	—	—	—	~~64.26~~	—	—
MBCMW-7	2	1305	10.88	51.86	52.15		
MBCMW-8	2	1310	9.15	11.90	11.95		Lid Doesn't fit, casing too high
MBCMW-9	2	1315	~~8.35~~ 8.84	9.36	9.25		
MBCMW-10	2	1317	8.35	51.25	51.75		
MCWP-MW01	6	1005	9.76	145.00	152.88		
MCWP-MW02	4	1205	10.39	22.05	148.20		
MCWP-MW03	6	1220	7.71	132.61	136.65		
MCWP-MW04S	4	1015	7.59	20.45	20.45		

References:
ft bTOC – Feet below top of casing

→

Scanned with CamScanner

Well Gauging

Project No.: 20-09665
Date: 9/22/22

Well Information

Well ID	Well Diameter (inches)	Time	Depth to Water (ft bTOC)	Total Depth (ft bTOC)		Well Condition	Notes
				Measured	Constructed / Historical		
MCWP-MW04D	4	1010	6.91	145.20	149.20		
MCWP-MW05	4	1320	7.44	150.40	154.40		
MCWP-MW06	2	1210	9.55	136.29	138.15		
MCWP-MW07S	2	1215	6.10	17.12	17.22		
MCWP-MW07D	2	1218	7.61	127.56	129.60		
MCWP-MW08	2	1247	7.49	79.20	79.38		
MCWP-MW09	2	1235	5.62	89.07	89.60		
MCWP-MW10	2	0925	5.52	22.15	22.23		threads
P-4	4	0915	4.80	10.53	14.57		Apron destroyed
P-9	4	0910	4.83	13.30	13.90		
SMBRP-2	4	1000	5.86	24.77	24.88		
SMBRP-6	2	1355	16.17	23.38	23.45		contact charles W. 818-632-4656
SMBRP-7B	2	1323	11.40	25.02	25.13		
SMBRP-8 (EC1-RC-MW01)	4	1030	29.56	40.30	40.46		
SMBRP-9	2	1035			45.40	CAR PARKED OVER	(NO ACCES
~~SMBRP-10C~~	—	—	—	—	~~25.00~~	—	—
SMBRP-12	2	1236	6.25 ~~5.86~~ LL	24.43	24.88		
SMBRP-13	2	1240	8.30	19.36	19.48		
SMBRP-15B	1	1250	DRY	8.29	8.40		NO LID (8 INCH)
SMBRP-16	2	1300	N/A	N/A	25.00	CAR PARKED TOP	/ NO ACCE
LAMW-5S	4	1020	59.12	73.35	73.43		Stripped
SMBRP-11	2	1223	8.73	20.02	20.38		
~~Lagoon~~	—	—		—	~~N/A~~	—	—

References:
ft bTOC – Feet below top of casing

Scanned with CamScanner

Surface Water Sampling

Job No: 20-09665	**Event:** Third Quarter 2022
Project: Malibu CCWTF	**Date:** August 3, 2022
Location: Malibu, CA	**Sampled By:** Lindsey Stockton

CONDITIONS

Weather: Clear	**Wind:** Slight Breeze
Estuary Berm: Closed	

DAILY TIDES

LOW	Time: 07:22	Feet: 1.1	**HIGH**	Time: 00:47	Feet: 4.2

VISUAL OBSERVATIONS

Location	Time	Sea State	Water Clarity	Water Color	Odors	Floatables	Birds/Wildlife Type, # On Land # In Water
N-001	07:25	Calm	Clear	Clear	None	None	N/A, ,
N-002	07:45	Calm	Clear	Clear	None	None	N/, ,
N-003	08:00	Calm	Clear	Clear	None	None	California gull, 3, 1
N-004	09:10	Calm	Clear	Clear	None	None	N/A, ,
L-001	09:51	Calm	Clear	Clear	None	None	N/A, ,
L-002	08:50	Calm	Clear	Brown	None	None	N/A, ,
L-003	10:02	Calm	Cloudy	Brown	Rotten Eggs	None	N/A, ,
L-004	08:26	Calm	Cloudy	Brown	Rotten Eggs	None	Cormmerant, 0, 5 Pelican, 4, 3
L-005	08:10	Calm	Cloudy	Brown	Rotten Eggs	None	Commerant, 0, 5 Pelican, 4, 3
L-006	08:20	Calm	Cloudy	Brown	Rotten Eggs	None	N/A, ,

Appendix B

Analytical Laboratory Reports

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

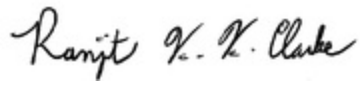
Lab Job Number: 466631
Report Level: II
Report Date: 10/10/2022

Analytical Report *prepared for:*

Kiernan Brtalik
Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001

Project: MALIBU - Annual

Authorized for release by:



Ranjit K Clarke, Client Services Manager
(714) 771-9906
Ranjit.Clarke@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Kiernan Brtalik
Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001

Lab Job #:	466631
Project No:	MALIBU
Location:	Annual
Date Received:	08/02/22

Sample ID	Lab ID	Collected	Matrix
MCWP-MW04S	466631-001	08/02/22 13:00	Water
MCWP-MW07S	466631-002	08/02/22 11:30	Water
MCWP-MW07D	466631-003	08/02/22 11:35	Water

ENTHALPY ANALYTICAL

Case Narrative

Rincon Consultants - Ventura 2060 Knoll Drive Unit B Ventura, CA 93001 Kiernan Brtalik	Lab Job Number: 466631 Project No: MALIBU Location: Annual Date Received: 08/02/22

This data package contains sample and QC results for three water samples, requested for the above referenced project on 08/02/22. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):

- Low response was observed for 2-chloroethylvinylether in the calibration analyzed 07/26/22 06:41; this analyte was not detected at or above the RL in the associated samples, and affected data was qualified with "b".
- Low response was observed for 2-chloroethylvinylether in the CCV/LCS analyzed 08/11/22 22:50; this analyte was not detected at or above the RL in the associated samples, and affected data was qualified with "b".
- Low recovery was observed for 1,1-dichloroethene in the BSD for batch 294490; the low recovery was not associated with any reported results. High RPD was also observed for 1,1-dichloroethene in the BS/BSD for batch 294490; the high RPD was not associated with any reported results.
- 466631-001 and 466631-003 were analyzed outside of hold time; affected data was qualified with "H".
- MCWP-MW04S (lab # 466631-001) and MCWP-MW07D (lab # 466631-003) had pH greater than 2.
- No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 524.2):

- 1,2,4-trichlorobenzene was detected between the MDL and the RL in the method blank for batch 294335; this analyte was not detected in samples at or above the RL.
- 466631-001 and 466631-003 were analyzed outside of hold time; affected data was qualified with "H".
- MCWP-MW04S (lab # 466631-001) and MCWP-MW07D (lab # 466631-003) had pH greater than 2.
- No other analytical problems were encountered.

Metals (CALCULATION):

No analytical problems were encountered.

Metals (EPA 200.7, EPA 200.8, EPA 245.1, and EPA 245.1):

- High recoveries were observed for calcium and magnesium in the MS/MSD for batch 294311; the parent sample was not a project sample, the LCS was within limits, and the associated RPDs were within limits.
- No other analytical problems were encountered.

Ion Chromatography (EPA 300.0 and EPA 300.0):

- Low recoveries were observed for nitrogen, nitrite in the MS/MSD of SMBRP-13 (lab # 466647-001); the associated RPD was within limits.
- Chloride was detected between the MDL and the RL in the method blank for batch 294193; this analyte was detected in samples at a level at least 10 times that of the blank.
- No other analytical problems were encountered.

Perchlorate by Ion Chromatography (EPA 314.0):

No analytical problems were encountered.

Total Carbon by High-Temperature Combust (SM 5310B):
No analytical problems were encountered.

Fluoride by ISE (SM 4500-F-C):
No analytical problems were encountered.

Total Phosphorus as P (SM 4500-P-B5-E):
No analytical problems were encountered.

Total Cyanide, Manual Colorimetric (SM 4500-CN-E):
No analytical problems were encountered.

Alkalinity (SM2320B):
No analytical problems were encountered.

CCPP (SM 2330B):
No analytical problems were encountered.

Total Dissolved Solids (TDS) (SM2540C):
No analytical problems were encountered.

Total Suspended Solids (TSS) (SM2540D):
No analytical problems were encountered.

Free Chlorine (SM 4500-CL-G):
No analytical problems were encountered.

pH of Aqueous Samples (SM 4500-H+ B):
No analytical problems were encountered.

Biochemical Oxygen Demand (SM5210B):
No analytical problems were encountered.

Odor (SM 2150B):
No analytical problems were encountered.

Turbidity (SM2130B):
No analytical problems were encountered.

Color by Visual Comparison (SM2120B):
No analytical problems were encountered.

Surfactants (MBAS) (SM5540C):

- MBAS are calculated and reported as Linear Anionic Surfactants with a molecular weight of 348 g/mol.
- No analytical problems were encountered.

Total Coliform / E. coli by Quanti-Tray (SM 9223Bb):
No analytical problems were encountered.

Ammonia and TKN- Semi-Automated Method (SM 4500-NH3-G):
No analytical problems were encountered.

EPA 100.2 Asbestos (EPA 100.2 Asbestos):
SGS Forensic in Hayward, CA performed the analysis (see sublab report section for certifications). Please see the SGS Forensic case narrative.

EPA 1613B - 2,3,7,8-TCDD only (EPA 1613B):
Enthalpy - Wilmington in Wilmington, NC performed the analysis (see sublab report section for certifications). Please see the Enthalpy - Wilmington case narrative.

EPA 508 Chlorinated Pesticides (EPA 508):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 525.2 Semi-Volatile Organics (EPA 525.2):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 547 Glyphosate (EPA 547):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 548.1 Endothall (EPA 548.1):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 549.2 Diquat (EPA 549.2):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 900.0 Gross Alpha and Beta (EPA 900.0):
Pace Analytical - Greensburg in Greensburg, PA performed the analysis (see sublab report section for certifications). Please see the Pace Analytical - Greensburg case narrative.

EPA 903.1 Radium-226 (EPA 903.1):
Pace Analytical - Greensburg in Greensburg, PA performed the analysis (see sublab report section for certifications). Please see the Pace Analytical - Greensburg case narrative.

EPA 904.0 Radium-228 (EPA 904.0):
Pace Analytical - Greensburg in Greensburg, PA performed the analysis (see sublab report section for certifications). Please see the Pace Analytical - Greensburg case narrative.

EPA 906.0 Tritium (EPA 906.0):
Pace Analytical - Greensburg in Greensburg, PA performed the analysis (see sublab report section for certifications). Please see the Pace Analytical - Greensburg case narrative.

EPA 905.0 Strontium-90 (EPA 905.0):
Pace Analytical - Greensburg in Greensburg, PA performed the analysis (see sublab report section for certifications). Please see the Pace Analytical - Greensburg case narrative.

Chlorinated Acids in Drinking Water (EPA 515.4):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 525.3 Pesticides - SUB (EPA 552.3):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 908.1 Uranium in Water - OUT (EPA 908.0):
Pace Analytical - Greensburg in Greensburg, PA performed the analysis (see sublab report section for certifications). Please see the Pace Analytical - Greensburg case narrative.

EPA 1625 Isotope Dilution (EPA 1625):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

Bromate EPA 300.1 -OUT (EPA 300.1):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 1664A Total O&G - OUT (EPA 1664A):
Eurofins Southwest in Tustin, CA performed the analysis (see sublab report section for certifications). Please see the Eurofins Southwest case narrative.

EPA 1694 Pharma, PCP by HPLC/MS/MS (EPA 1694):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 218.6 Hexavalent Chromium by IC (EPA 218.6):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 300.1 Chlorite by IC (EPA 300.1):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 524.3 (EPA 524.3):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 531.2 (EPA 531.2):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 625.1 (EPA 625.1):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

ENTHALPHY ANALYTICAL, INC.		Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
931 W. Barkley Ave., Orange, CA 92868		Lab No: 22[illegible] 4/16/22	Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714) 538-1209		Page: 1 of 3	2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal		Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					
c/o Montrose Environmental Group								
1 Park Plaza, Suite 1000, Irvine, CA 92614								

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants	Name:	Malibu - Annual
Report To:	Kiernan Brtalik	Number:	20-09665
Email:	KBrtalik@rinconconsultants.com	P.O. #:	
Address:	180 N. Ashwood Ave.	Address:	Malibu CC
	Ventura, CA 93003		
Phone:		Global ID:	
Cell:		Sampled By:	LL, JB, KC

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Total /Fecal Coliforms - SM 9223 Quantitray	EPA 200.7 (B), 200.8 (see list), 245.1 (Hg)	EPA 300.0: Cl,Fl,NO2,NO3,SO4; EPA 314.0	SM 4500-CN E; TKN; NH3; Phosphorus	SM 5310C TOC; BOD; TSS; TDS	pH; Residual Cl; MBAS; Turbidity; Color; Odor	SM 2330B Corrosivity; EPA 218.6 Cr VI	EPA 1664A Oil & Grease; EPA 1625M NDMA	EPA 1613 TCDD only; EPA 625 LL SVOCs	EPA 524.2 VOCs (inc. 2-CEVE, A/A)	Test Instructions / Comments
[redacted]																JB 8.2
[redacted]																JB 8.2
MCWP-MW04S	8.2.22	1300	GW	53	✓	X	X	X	X	X	X	X	X	X	X	
[redacted]																JB 8.2
MCWP-MW07S	8.2.22	1130	GW	53	✓	X	X	X	X	X	X	X	X	X	X	
[redacted] MW07D	8.2.22	1135	GW	53	✓	X	X	X	X	X	X	X	X	X	X	
[redacted]									X	X	X				X	JB 8.2

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	[signature]	Jon Brodgen	Rincon	8.2 / 1457
[1] Received By:	[signature]	Gerardo Gawat	EA	8.2.22 1457
[2] Relinquished By:	[signature]	Gawat	EA	8.2.22. 1731
[2] Received By:	[signature]	G Kim	GA	8/2/22 1731
[3] Relinquished By:				

7.9 / 3.7

ENTHALPHY ANALYTICAL, INC.		Chain of Custody Record		Turn Around Time (Rush by advanced notice only)					
931 W. Barkley Ave., Orange, CA 92868	ENTHALPY analytical, inc.	Lab No: 466631		Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714) 538-1209		Page: 2 of 3		2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal		Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other		Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					
c/o Montrose Environmental Group									
1 Park Plaza, Suite 1000, Irvine, CA 92614									

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants	Name:	Malibu - Annual
Report To:	Kiernan Brtalik	Number:	20-09665
Email:		P.O. #:	
Address:	180 N. Ashwood Ave.	Address:	
	Ventura, CA 93003		
Phone:		Global ID:	
Cell:		Sampled By:	

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	EPA 100.2 Asbestos;EPA 908.0 Uranium	EPA 900.0 Gross Alpha & Beta	EPA 903.0 Radium 226, EPA 904.0 Radium 228	EPA 905.0 Strontium-90; EPA 906.0 Tritium	EPA 504.1 EDB, DBCP; EPA 525.2 (see list)	EPA 515.3 Chlorinated Herbicides	EPA 300.1B Bromate, Chlorite	EPA 531.1 Carbofuran, Oxamyl	EPA 548.1 Endothall; EPA 549.2 Diquat	EPA 547 Glyphosate; EPA 552.2 HAAs	Test Instructions / Comments
[redacted]																8.2 JD
[redacted]						X	X	X								8.2 JD
MCWP-MW04S	8-2-22	1300	GW	53	—	X	X	X	X	X	X	X	X	X	X	
[redacted]																8.2 JD
MCWP-MW07S	8-2-22	1130	GW	53	✓	X	X	X	X	X	X	X	X	X	X	
MCWP-MW07D	8-2-22	1135	GW	53	✓	X	X	X	X	X	X	X	X	X	X	
[redacted]																8.2 JD

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Jon Bridgin	Rincon	8-2-22 / 1457
[1] Received By:		Gerardo GaWat	EA	8.2.22 / 1457
[2] Relinquished By:		GGaWat	EA	8.2.22 1731
[2] Received By:		G Lim	EA	8/2/22 A3
[3] Relinquished By:				

7.9 / 3.7

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
931 W. Barkley Ave., Orange, CA 92868	Lab No: 466631	Standard: X | 4 Day: | 3 Day:
Phone: (714) 771-6900 Fax: (714) 538-1209	Page: 3 of 3	2 Day: | 1 Day: | Same Day:
Billing: Enthalpy - SoCal	Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other
c/o Montrose Environmental Group		
1 Park Plaza, Suite 1000, Irvine, CA 92614		

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants	Name:	Malibu - Annual
Report To:	Kiernan Brtalik	Number:	20-09665
Email:		P.O. #:	
Address:	180 N. Ashwood Ave.	Address:	
	Ventura, CA 93003		
Phone:		Global ID:	
Cell:		Sampled By:	

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	EPA 1694M-ESI+/ESI-/APCI (see list)	EPA 508 Pest/PCBs	Analysis Request	Test Instructions / Comments
[redacted]								30 8.2	
[redacted]								30 8.3	
MCWP-MW04S	8.2.22	1300	GW	53	✓	X	X		
[redacted]								30 8.2	
MCWP-MW07S	8.2.22	1130	GW	53	✓	X	X		
MCWP-MW07D	8.2.22	1135	GW	53	✓	X	X		
[redacted]								33.8.2	

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Jon Bridge	Rincon	8.2.22/1457
[1] Received By:		Gerardo Gawat	EA	8.2.22 1457
[2] Relinquished By:		Gerardo Gawat	EA	8.2.22 1731
[2] Received By:		Glen	EA	8/2/22 A31
[3] Relinquished By:				

7.9 13.7

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: Malibu - Annual

Date Received: 8/2/22 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 7.9 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 3.7 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?		✔	
If custody seals are present, were they intact?			✔
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✔		
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?	✔		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?		✔	
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 8/2/22

Enthalpy Analytical, a subsidiary of Montrose Environmental Group ,Inc.
931 W. Barkley Ave, Orange, CA 92868 • T: (714) 771-6900 • F: (714) 538-1209
www.enthalpy.com/socal

ENTHALPY ANALYTICAL

Analysis Results for 466631

Kiernan Brtalik
Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001

Lab Job #: 466631
Project No: MALIBU
Location: Annual
Date Received: 08/02/22

Sample ID: MCWP-MW04S **Lab ID: 466631-001** **Collected: 08/02/22 13:00**
Matrix: Water

466631-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: CALCULATION Prep Method: EPA 200.8										
Chromium Trivalent	**1.8**		ug/L	1.0		1	294340	08/04/22	10/07/22	KAM
Method: EPA 200.7 Prep Method: EPA 200.7										
Boron	**1.5**		mg/L	0.050	0.0080	1	294311	08/04/22	08/05/22	SBW
Calcium	**370**		mg/L	0.10	0.021	1	294311	08/04/22	08/05/22	SBW
Iron	**0.48**		mg/L	0.020	0.0066	1	294311	08/04/22	08/05/22	SBW
Magnesium	**200**		mg/L	0.10	0.049	1	294311	08/04/22	08/05/22	SBW
Manganese	**0.24**		mg/L	0.010	0.00061	1	294311	08/04/22	08/05/22	SBW
Potassium	**0.49**	J	mg/L	0.50	0.18	1	294311	08/04/22	08/05/22	SBW
Sodium	**770**		mg/L	0.50	0.035	1	294311	08/04/22	08/05/22	SBW
Method: EPA 200.8 Prep Method: EPA 200.8										
Aluminum	**290**		ug/L	26	26	1	294340	08/04/22	08/04/22	THP
Antimony	**0.87**		ug/L	0.50	0.042	1	294340	08/04/22	08/04/22	THP
Arsenic	**11**		ug/L	2.0	0.29	1	294340	08/04/22	08/04/22	THP
Barium	**23**		ug/L	5.0	0.13	1	294340	08/04/22	08/04/22	THP
Beryllium	ND		ug/L	0.50	0.053	1	294340	08/04/22	08/04/22	THP
Cadmium	**0.24**		ug/L	0.20	0.073	1	294340	08/04/22	08/04/22	THP
Chromium	**1.8**		ug/L	1.0	0.25	1	294340	08/04/22	08/04/22	THP
Copper	**7.4**		ug/L	0.50	0.28	1	294340	08/04/22	08/04/22	THP
Lead	**0.26**	J	ug/L	0.50	0.073	1	294340	08/04/22	08/04/22	THP
Nickel	**8.9**		ug/L	1.0	0.15	1	294340	08/04/22	08/04/22	THP
Selenium	**71**		ug/L	2.0	1.0	1	294340	08/04/22	08/04/22	THP
Silver	ND		ug/L	0.20	0.057	1	294340	08/04/22	08/04/22	THP
Thallium	ND		ug/L	1.0	0.029	1	294340	08/04/22	08/04/22	THP
Zinc	**5.4**	J	ug/L	10	1.1	1	294340	08/04/22	08/04/22	THP
Method: EPA 245.1 Prep Method: METHOD										
Mercury	ND		ug/L	0.20	0.11	1	294448	08/06/22	08/06/22	TNN
Method: EPA 300.0 Prep Method: METHOD										
Fluoride	**0.49**		mg/L	0.20	0.081	1	294193	08/02/22 19:16	08/03/22 06:01	RKV

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466631

466631-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Chloride	**450**		mg/L	10	5.0	10	294193	08/02/22 19:16	08/03/22 07:26	RKV
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	1	294193	08/02/22 19:16	08/03/22 06:01	RKV
Nitrogen, Nitrate	**0.76**		mg/L	0.10	0.03	1	294193	08/02/22 19:16	08/03/22 06:01	RKV
Sulfate	**2,500**		mg/L	200	50	200	294486	08/05/22 17:25	08/05/22 23:06	RKV
Nitrogen, Nitrate/Nitrite	**0.76**		mg/L	0.10		1	294193	08/02/22 19:16	08/03/22 06:01	RKV
Method: EPA 314.0 Prep Method: METHOD										
Perchlorate	ND		ug/L	2.0	0.78	1	294254	08/03/22	08/03/22	RKV
Method: EPA 524.2 Prep Method: METHOD										
1,1-Dichloroethene	ND	H	ug/L	0.50	0.10	1	294921	08/12/22	08/12/22	ILK
Benzene	ND	H	ug/L	0.50	0.081	1	294921	08/12/22	08/12/22	ILK
Trichloroethene	ND	H	ug/L	0.50	0.13	1	294921	08/12/22	08/12/22	ILK
Toluene	ND	H	ug/L	0.50	0.10	1	294921	08/12/22	08/12/22	ILK
Chlorobenzene	ND	H	ug/L	0.50	0.13	1	294921	08/12/22	08/12/22	ILK
Chloromethane	ND	H	ug/L	0.50	0.14	1	294335	08/04/22	08/04/22	ILK
Vinyl Chloride	ND	H	ug/L	0.50	0.12	1	294335	08/04/22	08/04/22	ILK
Bromomethane	ND	H	ug/L	1.0	0.17	1	294335	08/04/22	08/04/22	ILK
Chloroethane	ND	H	ug/L	0.50	0.16	1	294335	08/04/22	08/04/22	ILK
Trichlorofluoromethane	ND	H	ug/L	0.50	0.15	1	294335	08/04/22	08/04/22	ILK
Freon 113	ND	H	ug/L	0.50	0.13	1	294335	08/04/22	08/04/22	ILK
Methylene Chloride	ND	H	ug/L	0.50	0.36	1	294335	08/04/22	08/04/22	ILK
MTBE	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
trans-1,2-Dichloroethene	ND	H	ug/L	0.50	0.14	1	294335	08/04/22	08/04/22	ILK
1,1-Dichloroethane	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
cis-1,2-Dichloroethene	ND	H	ug/L	0.50	0.14	1	294335	08/04/22	08/04/22	ILK
Chloroform	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,1,1-Trichloroethane	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
Carbon Tetrachloride	ND	H	ug/L	0.50	0.14	1	294335	08/04/22	08/04/22	ILK
1,2-Dichloroethane	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,2-Dichloropropane	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
Bromodichloromethane	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
cis-1,3-Dichloropropene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
trans-1,3-Dichloropropene	ND	H	ug/L	0.50	0.13	1	294335	08/04/22	08/04/22	ILK
1,1,2-Trichloroethane	ND	H	ug/L	0.50	0.13	1	294335	08/04/22	08/04/22	ILK
Tetrachloroethene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
Dibromochloromethane	ND	H	ug/L	0.50	0.13	1	294335	08/04/22	08/04/22	ILK
Ethylbenzene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
m,p-Xylenes	ND	H	ug/L	1.0	0.10	1	294335	08/04/22	08/04/22	ILK
Styrene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
Bromoform	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,1,2,2-Tetrachloroethane	ND	H	ug/L	0.50	0.16	1	294335	08/04/22	08/04/22	ILK

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466631

466631-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
1,3-Dichlorobenzene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,4-Dichlorobenzene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,2-Dichlorobenzene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,2,4-Trichlorobenzene	ND	H	ug/L	0.50	0.11	1	294335	08/04/22	08/04/22	ILK
Method: EPA 8260B Prep Method: EPA 5030B										
2-Chloroethylvinylether	ND	H,b	ug/L	50	0.6	1	294921	08/12/22	08/12/22	ILK
Acrolein	ND	H	ug/L	200	1.1	1	294921	08/12/22	08/12/22	ILK
Acrylonitrile	ND	H	ug/L	10	0.1	1	294921	08/12/22	08/12/22	ILK
Surrogates				**Limits**						
Dibromofluoromethane	104%	H	%REC	70-140	1.8	1	294921	08/12/22	08/12/22	ILK
1,2-Dichloroethane-d4	104%	H	%REC	70-140	9.2	1	294921	08/12/22	08/12/22	ILK
Toluene-d8	98%	H	%REC	70-140	3.9	1	294921	08/12/22	08/12/22	ILK
Bromofluorobenzene	99%	H	%REC	70-140		1	294921	08/12/22	08/12/22	ILK
Method: SM 2150B										
Odor	ND		TON	1.0		1	294230	08/02/22 18:25	08/02/22 18:25	LVL
Method: SM 2330B										
CCPP	**1.1**		SU			1	295203	08/17/22	08/17/22	SLL
Method: SM 4500-CL-G										
Chlorine, Total Residual	**0.23**	H	mg/L	0.10	0.026	1	294355	08/02/22 19:47	08/02/22 19:47	ATP
Method: SM 4500-CN-E Prep Method: METHOD										
Cyanide	ND		mg/L	0.010	0.0034	1	294384	08/04/22	08/04/22	ATP
Method: SM 4500-F-C										
Fluoride	**0.72**		mg/L	0.10	0.0059	1	294990	08/12/22	08/12/22	LVL
Method: SM 4500-H+ B										
pH	**7.62**	H	SU			1	294233	08/02/22 18:49	08/02/22 18:49	LVL
Temperature	**16.10**	H	deg C	1.00		1	294233	08/02/22 18:49	08/02/22 18:49	LVL
Method: SM 4500-NH3-G										
Ammonia-N	**0.054**	J	mg/L	0.10	0.045	1	294677	08/09/22	08/09/22	ATP
Nitrogen, Total Kjeldahl	**0.73**		mg/L	0.40	0.12	1	294755	08/10/22	08/10/22	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.39**		mg/L	0.020	0.0054	1	294380	08/04/22	08/04/22	ATP
Method: SM 5310B										
Total Organic Carbon	**16**		mg/L	1.0	0.23	1	294265	08/02/22	08/02/22	ATP
Method: SM 9223Bb										
Fecal Coliform	<1.0		MPN/100ml	1.0		1	294240	08/02/22 18:37	08/03/22 13:29	PAS
Coliform, Total	**1,300**		MPN/100ml	1.0		1	294240	08/02/22 18:37	08/03/22 13:29	PAS
Method: SM2120B										

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466631

466631-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Color	**40**		ColorUnits	5		1	294229	08/02/22 18:25	08/02/22 18:25	LVL
Method: SM2130B										
Turbidity	**17**		NTU	0.10	0.02	1	294228	08/02/22 18:25	08/02/22 18:25	LVL
Method: SM2320B Prep Method: METHOD										
Bicarbonate	**670**		mg/L	13		2.5	294591	08/05/22	08/05/22	ATP
Carbonate	ND		mg/L	13		2.5	294591	08/05/22	08/05/22	ATP
Hydroxide	ND		mg/L	13		2.5	294591	08/05/22	08/05/22	ATP
Alkalinity, Total as CaCO3	**550**		mg/L	13		2.5	294591	08/05/22	08/05/22	ATP
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**5,900**		mg/L	20		2	294477	08/04/22	08/05/22	DNA
Method: SM2540D Prep Method: METHOD										
Total Suspended Solids	**8.9**		mg/L	0.6		1.1	294565	08/05/22	08/05/22	ATP
Method: SM5210B Prep Method: METHOD										
Biochemical Oxygen Demand	**18**		mg/L	3.0		1	294244	08/03/22 11:56	08/08/22 11:35	DNA
Method: SM5540C										
Surfactants (MBAS)	**0.10**		mg/L	0.040	0.029	1	294271	08/03/22 12:45	08/03/22 16:34	ATP

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466631

Sample ID: MCWP-MW07S	Lab ID: 466631-002	Collected: 08/02/22 11:30
	Matrix: Water	

466631-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: CALCULATION Prep Method: EPA 200.8										
Chromium Trivalent	**2.5**		ug/L	1.0		1	294340	08/04/22	10/07/22	KAM
Method: EPA 200.7 Prep Method: EPA 200.7										
Boron	**0.36**		mg/L	0.050	0.0080	1	294311	08/04/22	08/05/22	SBW
Calcium	**93**		mg/L	0.10	0.021	1	294311	08/04/22	08/05/22	SBW
Iron	**0.69**		mg/L	0.020	0.0066	1	294311	08/04/22	08/05/22	SBW
Magnesium	**88**		mg/L	0.10	0.049	1	294311	08/04/22	08/05/22	SBW
Manganese	**0.13**		mg/L	0.010	0.00061	1	294311	08/04/22	08/05/22	SBW
Potassium	**2.5**		mg/L	0.50	0.18	1	294311	08/04/22	08/05/22	SBW
Sodium	**210**		mg/L	0.50	0.035	1	294311	08/04/22	08/05/22	SBW
Method: EPA 200.8 Prep Method: EPA 200.8										
Aluminum	**660**		ug/L	26	26	1	294340	08/04/22	08/04/22	THP
Antimony	**0.26**	J	ug/L	0.50	0.042	1	294340	08/04/22	08/04/22	THP
Arsenic	**5.0**		ug/L	2.0	0.29	1	294340	08/04/22	08/04/22	THP
Barium	**58**		ug/L	5.0	0.13	1	294340	08/04/22	08/04/22	THP
Beryllium	ND		ug/L	0.50	0.053	1	294340	08/04/22	08/04/22	THP
Cadmium	**0.073**	J	ug/L	0.20	0.073	1	294340	08/04/22	08/04/22	THP
Chromium	**2.9**		ug/L	1.0	0.25	1	294340	08/04/22	08/04/22	THP
Copper	**1.9**		ug/L	0.50	0.28	1	294340	08/04/22	08/04/22	THP
Lead	**0.29**	J	ug/L	0.50	0.073	1	294340	08/04/22	08/04/22	THP
Nickel	**8.7**		ug/L	1.0	0.15	1	294340	08/04/22	08/04/22	THP
Selenium	**1.0**	J	ug/L	2.0	1.0	1	294340	08/04/22	08/04/22	THP
Silver	ND		ug/L	0.20	0.057	1	294340	08/04/22	08/04/22	THP
Thallium	ND		ug/L	1.0	0.029	1	294340	08/04/22	08/04/22	THP
Zinc	**2.8**	J	ug/L	10	1.1	1	294340	08/04/22	08/04/22	THP
Method: EPA 245.1 Prep Method: METHOD										
Mercury	ND		ug/L	0.20	0.11	1	294448	08/06/22	08/06/22	TNN
Method: EPA 300.0 Prep Method: METHOD										
Fluoride	**0.37**		mg/L	0.20	0.081	1	294193	08/02/22 19:16	08/03/22 06:18	RKV
Chloride	**230**		mg/L	10	5.0	10	294193	08/02/22 19:16	08/03/22 07:43	RKV
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	1	294193	08/02/22 19:16	08/03/22 06:18	RKV
Nitrogen, Nitrate	**4.1**		mg/L	0.10	0.03	1	294193	08/02/22 19:16	08/03/22 06:18	RKV

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466631

466631-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Sulfate	**260**		mg/L	10	2.5	10	294193	08/02/22 19:16	08/03/22 07:43	RKV
Nitrogen, Nitrate/Nitrite	**4.1**		mg/L	0.10		1	294193	08/02/22 19:16	08/03/22 06:18	RKV
Method: EPA 314.0 Prep Method: METHOD										
Perchlorate	ND		ug/L	2.0	0.78	1	294254	08/03/22	08/03/22	RKV
Method: EPA 524.2 Prep Method: METHOD										
1,1-Dichloroethene	ND		ug/L	0.50	0.10	1	294921	08/12/22	08/12/22	ILK
Benzene	ND		ug/L	0.50	0.081	1	294921	08/12/22	08/12/22	ILK
Trichloroethene	ND		ug/L	0.50	0.13	1	294921	08/12/22	08/12/22	ILK
Toluene	ND		ug/L	0.50	0.10	1	294921	08/12/22	08/12/22	ILK
Chlorobenzene	ND		ug/L	0.50	0.13	1	294921	08/12/22	08/12/22	ILK
Chloromethane	ND		ug/L	0.50	0.14	1	294335	08/05/22	08/05/22	ILK
Vinyl Chloride	ND		ug/L	0.50	0.12	1	294335	08/05/22	08/05/22	ILK
Bromomethane	ND		ug/L	1.0	0.17	1	294335	08/05/22	08/05/22	ILK
Chloroethane	ND		ug/L	0.50	0.16	1	294335	08/05/22	08/05/22	ILK
Trichlorofluoromethane	ND		ug/L	0.50	0.15	1	294335	08/05/22	08/05/22	ILK
Freon 113	ND		ug/L	0.50	0.13	1	294335	08/05/22	08/05/22	ILK
Methylene Chloride	ND		ug/L	0.50	0.36	1	294335	08/05/22	08/05/22	ILK
MTBE	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.14	1	294335	08/05/22	08/05/22	ILK
1,1-Dichloroethane	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
cis-1,2-Dichloroethene	**0.35**	J	ug/L	0.50	0.14	1	294335	08/05/22	08/05/22	ILK
Chloroform	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
1,1,1-Trichloroethane	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
Carbon Tetrachloride	ND		ug/L	0.50	0.14	1	294335	08/05/22	08/05/22	ILK
1,2-Dichloroethane	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
1,2-Dichloropropane	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
Bromodichloromethane	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.13	1	294335	08/05/22	08/05/22	ILK
1,1,2-Trichloroethane	ND		ug/L	0.50	0.13	1	294335	08/05/22	08/05/22	ILK
Tetrachloroethene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
Dibromochloromethane	ND		ug/L	0.50	0.13	1	294335	08/05/22	08/05/22	ILK
Ethylbenzene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
m,p-Xylenes	ND		ug/L	1.0	0.10	1	294335	08/05/22	08/05/22	ILK
Styrene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
Bromoform	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.16	1	294335	08/05/22	08/05/22	ILK
1,3-Dichlorobenzene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
1,4-Dichlorobenzene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
1,2-Dichlorobenzene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.11	1	294335	08/05/22	08/05/22	ILK

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466631

466631-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8260B Prep Method: EPA 5030B										
2-Chloroethylvinylether	ND	b	ug/L	50	0.6	1	294921	08/12/22	08/12/22	ILK
Acrolein	ND		ug/L	200	1.1	1	294921	08/12/22	08/12/22	ILK
Acrylonitrile	ND		ug/L	10	0.1	1	294921	08/12/22	08/12/22	ILK
Surrogates				**Limits**						
Dibromofluoromethane	103%		%REC	70-140	1.8	1	294921	08/12/22	08/12/22	ILK
1,2-Dichloroethane-d4	99%		%REC	70-140	9.2	1	294921	08/12/22	08/12/22	ILK
Toluene-d8	100%		%REC	70-140	3.9	1	294921	08/12/22	08/12/22	ILK
Bromofluorobenzene	100%		%REC	70-140		1	294921	08/12/22	08/12/22	ILK
Method: SM 2150B										
Odor	ND		TON	1.0		1	294230	08/02/22 18:25	08/02/22 18:25	LVL
Method: SM 2330B										
CCPP	**0.34**		SU			1	295203	08/17/22	08/17/22	SLL
Method: SM 4500-CL-G										
Chlorine, Total Residual	**0.091**	H,J	mg/L	0.10	0.026	1	294355	08/02/22 19:47	08/02/22 19:47	ATP
Method: SM 4500-CN-E Prep Method: METHOD										
Cyanide	ND		mg/L	0.010	0.0034	1	294384	08/04/22	08/04/22	ATP
Method: SM 4500-F-C										
Fluoride	**0.44**		mg/L	0.10	0.0059	1	294990	08/12/22	08/12/22	LVL
Method: SM 4500-H+ B										
pH	**7.50**	H	SU			1	294233	08/02/22 18:49	08/02/22 18:49	LVL
Temperature	**12.50**	H	deg C	1.00		1	294233	08/02/22 18:49	08/02/22 18:49	LVL
Method: SM 4500-NH3-G										
Ammonia-N	**0.21**		mg/L	0.10	0.045	1	294677	08/09/22	08/09/22	ATP
Nitrogen, Total Kjeldahl	**0.32**	J	mg/L	0.40	0.12	1	294755	08/10/22	08/10/22	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.28**		mg/L	0.020	0.0054	1	294380	08/04/22	08/04/22	ATP
Method: SM 5310B										
Total Organic Carbon	**6.7**		mg/L	1.0	0.23	1	294265	08/02/22	08/02/22	ATP
Method: SM 9223Bb										
Fecal Coliform	<1.0		MPN/100ml	1.0		1	294240	08/02/22 18:37	08/03/22 13:29	PAS
Coliform, Total	**29**		MPN/100ml	1.0		1	294240	08/02/22 18:37	08/03/22 13:29	PAS
Method: SM2120B										
Color	**20**		ColorUnits	5		1	294229	08/02/22 18:25	08/02/22 18:25	LVL
Method: SM2130B										

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466631

466631-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Turbidity	**16**		NTU	0.10	0.02	1	294228	08/02/22 18:25	08/02/22 18:25	LVL
Method: SM2320B Prep Method: METHOD										
Bicarbonate	**470**		mg/L	25		5	294591	08/05/22	08/05/22	ATP
Carbonate	ND		mg/L	25		5	294591	08/05/22	08/05/22	ATP
Hydroxide	ND		mg/L	25		5	294591	08/05/22	08/05/22	ATP
Alkalinity, Total as CaCO3	**390**		mg/L	25		5	294591	08/05/22	08/05/22	ATP
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**1,100**		mg/L	20		2	294477	08/04/22	08/05/22	DNA
Method: SM2540D Prep Method: METHOD										
Total Suspended Solids	**30**		mg/L	1.0		2	294565	08/05/22	08/05/22	ATP
Method: SM5210B Prep Method: METHOD										
Biochemical Oxygen Demand	**19**		mg/L	3.0		1	294244	08/03/22 11:58	08/08/22 11:35	DNA
Method: SM5540C										
Surfactants (MBAS)	ND		mg/L	0.040	0.029	1	294271	08/03/22 12:45	08/03/22 16:34	ATP

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466631

Sample ID: MCWP-MW07D	Lab ID: 466631-003	Collected: 08/02/22 11:35
	Matrix: Water	

466631-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: CALCULATION Prep Method: EPA 200.8										
Chromium Trivalent	ND		ug/L	1.0		1	294340	08/04/22	10/07/22	KAM
Method: EPA 200.7 Prep Method: EPA 200.7										
Boron	**0.42**		mg/L	0.050	0.0080	1	294311	08/04/22	08/05/22	SBW
Calcium	**76**		mg/L	0.10	0.021	1	294311	08/04/22	08/05/22	SBW
Iron	**0.010**	J	mg/L	0.020	0.0066	1	294311	08/04/22	08/05/22	SBW
Magnesium	**51**		mg/L	0.10	0.049	1	294311	08/04/22	08/05/22	SBW
Manganese	**0.17**		mg/L	0.010	0.00061	1	294311	08/04/22	08/05/22	SBW
Potassium	**1.3**		mg/L	0.50	0.18	1	294311	08/04/22	08/05/22	SBW
Sodium	**200**		mg/L	0.50	0.035	1	294311	08/04/22	08/05/22	SBW
Method: EPA 200.8 Prep Method: EPA 200.8										
Aluminum	ND		ug/L	26	26	1	294340	08/04/22	08/04/22	THP
Antimony	**0.059**	J	ug/L	0.50	0.042	1	294340	08/04/22	08/04/22	THP
Arsenic	**2.3**		ug/L	2.0	0.29	1	294340	08/04/22	08/05/22	THP
Barium	**29**		ug/L	5.0	0.13	1	294340	08/04/22	08/04/22	THP
Beryllium	ND		ug/L	0.50	0.053	1	294340	08/04/22	08/04/22	THP
Cadmium	**0.20**		ug/L	0.20	0.073	1	294340	08/04/22	08/04/22	THP
Chromium	**0.41**	J	ug/L	1.0	0.25	1	294340	08/04/22	08/04/22	THP
Copper	**0.86**		ug/L	0.50	0.28	1	294340	08/04/22	08/04/22	THP
Lead	ND		ug/L	0.50	0.073	1	294340	08/04/22	08/04/22	THP
Nickel	**4.3**		ug/L	1.0	0.15	1	294340	08/04/22	08/04/22	THP
Selenium	ND		ug/L	2.0	1.0	1	294340	08/04/22	08/04/22	THP
Silver	ND		ug/L	0.20	0.057	1	294340	08/04/22	08/04/22	THP
Thallium	ND		ug/L	1.0	0.029	1	294340	08/04/22	08/04/22	THP
Zinc	ND		ug/L	10	1.1	1	294340	08/04/22	08/04/22	THP
Method: EPA 245.1 Prep Method: METHOD										
Mercury	ND		ug/L	0.20	0.11	1	294448	08/06/22	08/06/22	TNN
Method: EPA 300.0 Prep Method: METHOD										
Fluoride	**0.57**		mg/L	0.20	0.081	1	294193	08/02/22 19:16	08/03/22 06:35	RKV
Chloride	**240**		mg/L	10	5.0	10	294193	08/02/22 19:16	08/03/22 07:59	RKV
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	1	294193	08/02/22 19:16	08/03/22 06:35	RKV
Nitrogen, Nitrate	ND		mg/L	0.10	0.03	1	294193	08/02/22 19:16	08/03/22 06:35	RKV

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466631

466631-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Sulfate	**260**		mg/L	10	2.5	10	294193	08/02/22 19:16	08/03/22 07:59	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	0.10		1	294193	08/02/22 19:16	08/03/22 06:35	RKV
Method: EPA 314.0 Prep Method: METHOD										
Perchlorate	ND		ug/L	2.0	0.78	1	294254	08/03/22	08/03/22	RKV
Method: EPA 524.2 Prep Method: METHOD										
1,1-Dichloroethene	ND	H	ug/L	0.50	0.10	1	294921	08/12/22	08/12/22	ILK
Benzene	ND	H	ug/L	0.50	0.081	1	294921	08/12/22	08/12/22	ILK
Trichloroethene	ND	H	ug/L	0.50	0.13	1	294921	08/12/22	08/12/22	ILK
Toluene	ND	H	ug/L	0.50	0.10	1	294921	08/12/22	08/12/22	ILK
Chlorobenzene	ND	H	ug/L	0.50	0.13	1	294921	08/12/22	08/12/22	ILK
Chloromethane	ND		ug/L	0.50	0.14	1	294335	08/05/22	08/05/22	ILK
Vinyl Chloride	ND		ug/L	0.50	0.12	1	294335	08/05/22	08/05/22	ILK
Bromomethane	ND		ug/L	1.0	0.17	1	294335	08/05/22	08/05/22	ILK
Chloroethane	ND		ug/L	0.50	0.16	1	294335	08/05/22	08/05/22	ILK
Trichlorofluoromethane	ND		ug/L	0.50	0.15	1	294335	08/05/22	08/05/22	ILK
Freon 113	ND		ug/L	0.50	0.13	1	294335	08/05/22	08/05/22	ILK
Methylene Chloride	ND		ug/L	0.50	0.36	1	294335	08/05/22	08/05/22	ILK
MTBE	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.14	1	294335	08/05/22	08/05/22	ILK
1,1-Dichloroethane	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.14	1	294335	08/05/22	08/05/22	ILK
Chloroform	**0.16**	J	ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
1,1,1-Trichloroethane	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
Carbon Tetrachloride	ND		ug/L	0.50	0.14	1	294335	08/05/22	08/05/22	ILK
1,2-Dichloroethane	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
1,2-Dichloropropane	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
Bromodichloromethane	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.13	1	294335	08/05/22	08/05/22	ILK
1,1,2-Trichloroethane	ND		ug/L	0.50	0.13	1	294335	08/05/22	08/05/22	ILK
Tetrachloroethene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
Dibromochloromethane	ND		ug/L	0.50	0.13	1	294335	08/05/22	08/05/22	ILK
Ethylbenzene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
m,p-Xylenes	ND		ug/L	1.0	0.10	1	294335	08/05/22	08/05/22	ILK
Styrene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
Bromoform	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.16	1	294335	08/05/22	08/05/22	ILK
1,3-Dichlorobenzene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
1,4-Dichlorobenzene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
1,2-Dichlorobenzene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.11	1	294335	08/05/22	08/05/22	ILK

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466631

466631-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8260B Prep Method: EPA 5030B										
2-Chloroethylvinylether	ND	H,b	ug/L	50	0.6	1	294921	08/12/22	08/12/22	ILK
Acrolein	ND	H	ug/L	200	1.1	1	294921	08/12/22	08/12/22	ILK
Acrylonitrile	ND	H	ug/L	10	0.1	1	294921	08/12/22	08/12/22	ILK
Surrogates				**Limits**						
Dibromofluoromethane	103%	H	%REC	70-140	1.8	1	294921	08/12/22	08/12/22	ILK
1,2-Dichloroethane-d4	100%	H	%REC	70-140	9.2	1	294921	08/12/22	08/12/22	ILK
Toluene-d8	100%	H	%REC	70-140	3.9	1	294921	08/12/22	08/12/22	ILK
Bromofluorobenzene	101%	H	%REC	70-140		1	294921	08/12/22	08/12/22	ILK
Method: SM 2150B										
Odor	ND		TON	1.0		1	294230	08/02/22 18:25	08/02/22 18:25	LVL
Method: SM 2330B										
CCPP	**0.12**		SU			1	295203	08/17/22	08/17/22	SLL
Method: SM 4500-CL-G										
Chlorine, Total Residual	ND	H	mg/L	0.10	0.026	1	294355	08/02/22 19:47	08/02/22 19:47	ATP
Method: SM 4500-CN-E Prep Method: METHOD										
Cyanide	ND		mg/L	0.010	0.0034	1	294384	08/04/22	08/04/22	ATP
Method: SM 4500-F-C										
Fluoride	**0.58**		mg/L	0.10	0.0059	1	294990	08/12/22	08/12/22	LVL
Method: SM 4500-H+ B										
pH	**7.65**	H	SU			1	294233	08/02/22 18:49	08/02/22 18:49	LVL
Temperature	**11.50**	H	deg C	1.00		1	294233	08/02/22 18:49	08/02/22 18:49	LVL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.045	1	294677	08/09/22	08/09/22	ATP
Nitrogen, Total Kjeldahl	**0.78**		mg/L	0.40	0.12	1	294755	08/10/22	08/10/22	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.14**		mg/L	0.020	0.0054	1	294380	08/04/22	08/04/22	ATP
Method: SM 5310B										
Total Organic Carbon	**5.2**		mg/L	1.0	0.23	1	294265	08/02/22	08/02/22	ATP
Method: SM 9223Bb										
Fecal Coliform	<1.0		MPN/100ml	1.0		1	294240	08/02/22 18:37	08/03/22 13:29	PAS
Coliform, Total	<1.0		MPN/100ml	1.0		1	294240	08/02/22 18:37	08/03/22 13:29	PAS
Method: SM2120B										
Color	ND		ColorUnits	5		1	294229	08/02/22 18:25	08/02/22 18:25	LVL
Method: SM2130B										

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466631

466631-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Turbidity	**1.3**		NTU	0.10	0.02	1	294228	08/02/22 18:25	08/02/22 18:25	LVL
Method: SM2320B Prep Method: METHOD										
Bicarbonate	**240**		mg/L	13		2.5	294591	08/05/22	08/05/22	ATP
Carbonate	ND		mg/L	13		2.5	294591	08/05/22	08/05/22	ATP
Hydroxide	ND		mg/L	13		2.5	294591	08/05/22	08/05/22	ATP
Alkalinity, Total as CaCO3	**190**		mg/L	13		2.5	294591	08/05/22	08/05/22	ATP
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**860**		mg/L	20		2	294477	08/04/22	08/05/22	DNA
Method: SM2540D Prep Method: METHOD										
Total Suspended Solids	ND		mg/L	0.6		1.1	294565	08/05/22	08/05/22	ATP
Method: SM5210B Prep Method: METHOD										
Biochemical Oxygen Demand	**20**		mg/L	3.0		1	294244	08/03/22 12:00	08/08/22 11:35	DNA
Method: SM5540C										
Surfactants (MBAS)	ND		mg/L	0.040	0.029	1	294271	08/03/22 12:45	08/03/22 16:34	ATP

< Value is less than indicated concentration
H Holding time was exceeded
J Estimated value
ND Not Detected
b See narrative

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC1004478	**Batch:** 294311
Matrix: Water	**Method:** EPA 200.7	**Prep Method:** EPA 200.7

QC1004478 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Boron	ND		mg/L	0.050	0.0080	08/04/22	08/05/22
Calcium	ND		mg/L	0.10	0.021	08/04/22	08/05/22
Iron	ND		mg/L	0.020	0.0066	08/04/22	08/05/22
Magnesium	ND		mg/L	0.10	0.049	08/04/22	08/05/22
Manganese	ND		mg/L	0.010	0.00061	08/04/22	08/05/22
Potassium	ND		mg/L	0.50	0.18	08/04/22	08/05/22
Sodium	ND		mg/L	0.50	0.035	08/04/22	08/05/22

Type: Lab Control Sample	**Lab ID:** QC1004479	**Batch:** 294311
Matrix: Water	**Method:** EPA 200.7	**Prep Method:** EPA 200.7

QC1004479 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Boron	0.4148	0.4000	mg/L	104%		85-115
Calcium	19.91	18.40	mg/L	108%		85-115
Iron	0.4184	0.4000	mg/L	105%		85-115
Magnesium	20.76	18.40	mg/L	113%		85-115
Manganese	0.4109	0.4000	mg/L	103%		85-115
Potassium	21.97	22.00	mg/L	100%		85-115
Sodium	19.61	18.40	mg/L	107%		85-115

Type: Matrix Spike	**Lab ID:** QC1004480	**Batch:** 294311
Matrix (Source ID): Water (466577-001)	**Method:** EPA 200.7	**Prep Method:** EPA 200.7

QC1004480 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Boron	0.8827	0.4279	0.4000	mg/L	114%		75-125	1
Calcium	91.73	67.20	19.40	mg/L	126%	*	75-125	1
Iron	5.780	5.120	0.4000	mg/L	165%	NM	75-125	1
Magnesium	50.20	26.89	19.40	mg/L	120%		75-125	1
Manganese	0.4209	0.006196	0.4000	mg/L	104%		75-125	1
Potassium	28.88	3.844	23.00	mg/L	109%		75-125	1
Sodium	150.5	131.0	19.40	mg/L	101%	NM	75-125	1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1004481**	**Batch:**	**294311**
Matrix (Source ID):	**Water (466577-001)**	**Method:**	**EPA 200.7**	**Prep Method:**	**EPA 200.7**

QC1004481 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Boron	0.8885	0.4279	0.4000	mg/L	115%		75-125	1	20	1
Calcium	91.94	67.20	19.40	mg/L	127%	*	75-125	0	20	1
Iron	5.713	5.120	0.4000	mg/L	148%	NM	75-125	1	20	1
Magnesium	51.32	26.89	19.40	mg/L	126%	*	75-125	2	20	1
Manganese	0.4302	0.006196	0.4000	mg/L	106%		75-125	2	20	1
Potassium	30.21	3.844	23.00	mg/L	115%		75-125	4	20	1
Sodium	149.9	131.0	19.40	mg/L	97%	NM	75-125	0	20	1

Type:	**Blank**	**Lab ID:**	**QC1004565**	**Batch:**	**294340**
Matrix:	**Water**				

QC1004565 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Method: CALCULATION Prep Method: EPA 200.8							
Chromium Trivalent	ND		ug/L	1.0		08/04/22	10/07/22
Method: EPA 200.8 Prep Method: EPA 200.8							
Aluminum	ND		ug/L	26	26	08/04/22	08/04/22
Antimony	ND		ug/L	0.50	0.042	08/04/22	08/04/22
Arsenic	ND		ug/L	2.0	0.29	08/04/22	08/04/22
Barium	ND		ug/L	5.0	0.13	08/04/22	08/04/22
Beryllium	ND		ug/L	0.50	0.053	08/04/22	08/04/22
Cadmium	ND		ug/L	0.20	0.073	08/04/22	08/04/22
Chromium	ND		ug/L	1.0	0.25	08/04/22	08/04/22
Copper	ND		ug/L	0.50	0.28	08/04/22	08/04/22
Lead	ND		ug/L	0.50	0.073	08/04/22	08/04/22
Nickel	ND		ug/L	1.0	0.15	08/04/22	08/04/22
Selenium	ND		ug/L	2.0	1.0	08/04/22	08/04/22
Silver	ND		ug/L	0.20	0.057	08/04/22	08/04/22
Thallium	ND		ug/L	1.0	0.029	08/04/22	08/04/22
Zinc	ND		ug/L	10	1.1	08/04/22	08/04/22

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	**Lab ID:** QC1004566	**Batch:** 294340
Matrix: Water	**Method:** EPA 200.8	**Prep Method:** EPA 200.8

QC1004566 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Aluminum	102.3	100.0	ug/L	102%		85-115
Antimony	96.92	100.0	ug/L	97%		85-115
Arsenic	101.2	100.0	ug/L	101%		85-115
Barium	95.24	100.0	ug/L	95%		85-115
Beryllium	96.87	100.0	ug/L	97%		85-115
Cadmium	95.48	100.0	ug/L	95%		85-115
Chromium	100.2	100.0	ug/L	100%		85-115
Copper	105.9	100.0	ug/L	106%		85-115
Lead	100.9	100.0	ug/L	101%		85-115
Nickel	105.4	100.0	ug/L	105%		85-115
Selenium	98.90	100.0	ug/L	99%		85-115
Silver	49.04	50.00	ug/L	98%		85-115
Thallium	100.9	100.0	ug/L	101%		85-115
Zinc	101.7	100.0	ug/L	102%		85-115

Type: Matrix Spike	**Lab ID:** QC1004567	**Batch:** 294340
Matrix (Source ID): Water (466355-001)	**Method:** EPA 200.8	**Prep Method:** EPA 200.8

QC1004567 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Aluminum	118.4	ND	100.0	ug/L	118%		70-130	1
Antimony	99.75	0.2990	100.0	ug/L	99%		70-130	1
Arsenic	100.4	ND	100.0	ug/L	100%		70-130	1
Barium	105.9	7.503	100.0	ug/L	98%		70-130	1
Beryllium	96.52	ND	100.0	ug/L	97%		70-130	1
Cadmium	98.80	ND	100.0	ug/L	99%		70-130	1
Chromium	101.1	3.007	100.0	ug/L	98%		70-130	1
Copper	105.8	0.3850	100.0	ug/L	105%		70-130	1
Lead	97.27	ND	100.0	ug/L	97%		70-130	1
Nickel	108.4	6.559	100.0	ug/L	102%		70-130	1
Selenium	96.81	ND	100.0	ug/L	97%		70-130	1
Silver	49.47	ND	50.00	ug/L	99%		70-130	1
Thallium	97.85	ND	100.0	ug/L	98%		70-130	1
Zinc	103.2	2.541	100.0	ug/L	101%		70-130	1

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike Duplicate	**Lab ID:**	QC1004568	**Batch:**	294340
Matrix (Source ID):	Water (466355-001)	**Method:**	EPA 200.8	**Prep Method:**	EPA 200.8

QC1004568 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Aluminum	114.4	ND	100.0	ug/L	114%		70-130	3	20	1
Antimony	101.2	0.2990	100.0	ug/L	101%		70-130	1	20	1
Arsenic	98.42	ND	100.0	ug/L	98%		70-130	2	20	1
Barium	105.8	7.503	100.0	ug/L	98%		70-130	0	20	1
Beryllium	93.70	ND	100.0	ug/L	94%		70-130	3	20	1
Cadmium	98.78	ND	100.0	ug/L	99%		70-130	0	20	1
Chromium	100.4	3.007	100.0	ug/L	97%		70-130	1	20	1
Copper	104.7	0.3850	100.0	ug/L	104%		70-130	1	20	1
Lead	96.80	ND	100.0	ug/L	97%		70-130	0	20	1
Nickel	106.6	6.559	100.0	ug/L	100%		70-130	2	20	1
Selenium	95.52	ND	100.0	ug/L	96%		70-130	1	20	1
Silver	49.32	ND	50.00	ug/L	99%		70-130	0	20	1
Thallium	97.10	ND	100.0	ug/L	97%		70-130	1	20	1
Zinc	100.9	2.541	100.0	ug/L	98%		70-130	2	20	1

Type:	Blank	**Lab ID:**	QC1004879	**Batch:**	294448
Matrix:	Water	**Method:**	EPA 245.1	**Prep Method:**	METHOD

QC1004879 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Mercury	ND		ug/L	0.20	0.11	08/06/22	08/06/22

Type:	Lab Control Sample	**Lab ID:**	QC1004880	**Batch:**	294448
Matrix:	Water	**Method:**	EPA 245.1	**Prep Method:**	METHOD

QC1004880 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Mercury	4.865	5.000	ug/L	97%		80-120

Type:	Matrix Spike	**Lab ID:**	QC1004881	**Batch:**	294448
Matrix (Source ID):	Water (466334-001)	**Method:**	EPA 245.1	**Prep Method:**	METHOD

QC1004881 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	4.838	ND	5.000	ug/L	97%		75-125	1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1004882**	**Batch:**	**294448**
Matrix (Source ID):	**Water (466334-001)**	**Method:**	**EPA 245.1**	**Prep Method:**	**METHOD**

QC1004882 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	4.946	ND	5.000	ug/L	99%		75-125	2	20	1

Type:	**Matrix Spike**	**Lab ID:**	**QC1004883**	**Batch:**	**294448**
Matrix (Source ID):	**Water (466598-001)**	**Method:**	**EPA 245.1**	**Prep Method:**	**METHOD**

QC1004883 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	4.638	ND	5.000	ug/L	93%		75-125	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1004884**	**Batch:**	**294448**
Matrix (Source ID):	**Water (466598-001)**	**Method:**	**EPA 245.1**	**Prep Method:**	**METHOD**

QC1004884 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	4.744	ND	5.000	ug/L	95%		75-125	2	20	1

Type:	**Blank**	**Lab ID:**	**QC1004138**	**Batch:**	**294193**
Matrix:	**Drinking Water**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC1004138 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Fluoride	ND		mg/L	0.20	0.081	08/02/22 19:16	08/03/22 03:46
Chloride	0.73	J	mg/L	1.0	0.50	08/02/22 19:16	08/03/22 03:46
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	08/02/22 19:16	08/03/22 03:46
Nitrogen, Nitrate	ND		mg/L	0.10	0.03	08/02/22 19:16	08/03/22 03:46
Sulfate	ND		mg/L	1.0	0.25	08/02/22 19:16	08/03/22 03:46
Nitrogen, Nitrate/Nitrite	ND		mg/L	0.10		08/02/22 19:16	08/03/22 03:46

Type:	**Lab Control Sample**	**Lab ID:**	**QC1004139**	**Batch:**	**294193**
Matrix:	**Drinking Water**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC1004139 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Fluoride	4.607	5.000	mg/L	92%		90-110
Chloride	26.21	25.00	mg/L	105%		90-110
Nitrogen, Nitrite	2.481	2.283	mg/L	109%		90-110
Nitrogen, Nitrate	2.393	2.259	mg/L	106%		90-110
Sulfate	13.24	12.50	mg/L	106%		90-110

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1004140**	**Batch:**	**294193**
Matrix (Source ID):	**Water (466647-001)**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC1004140 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Fluoride	4.207	ND	4.000	mg/L	105%		80-120	10
Chloride	2,557	2560	20.00	mg/L	-17%	E,NM	80-120	10
Nitrogen, Nitrite	1.344	ND	1.827	mg/L	74%	*	80-120	10
Nitrogen, Nitrate	1.601	ND	1.807	mg/L	89%		80-120	10
Sulfate	980.2	969.0	10.00	mg/L	112%	E,NM	80-120	10

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1004141**	**Batch:**	**294193**
Matrix (Source ID):	**Water (466647-001)**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC1004141 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Fluoride	4.180	ND	4.000	mg/L	104%		80-120	1	20	10
Chloride	2,540	2560	20.00	mg/L	-103%	E,NM	80-120		20	10
Nitrogen, Nitrite	1.391	ND	1.827	mg/L	76%	*	80-120	3	20	10
Nitrogen, Nitrate	1.674	ND	1.807	mg/L	93%		80-120	4	20	10
Sulfate	968.6	969.0	10.00	mg/L	-4%	E,NM	80-120		20	10

Type:	**Blank**	**Lab ID:**	**QC1005011**	**Batch:**	**294486**
Matrix:	**Water**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC1005011 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Sulfate	ND		mg/L	1.0	0.25	08/05/22 17:25	08/05/22 18:52

Type:	**Lab Control Sample**	**Lab ID:**	**QC1005012**	**Batch:**	**294486**
Matrix:	**Water**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC1005012 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Sulfate	13.51	12.50	mg/L	108%		90-110

Type:	**Lab Control Sample**	**Lab ID:**	**QC1005013**	**Batch:**	**294486**
Matrix:	**Water**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC1005013 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Sulfate	13.41	12.50	mg/L	107%		90-110

ENTHALPY ANALYTICAL

Batch QC

Type:	**Blank**	**Lab ID:**	**QC1004293**	**Batch:**	**294254**
Matrix:	**Drinking Water**	**Method:**	**EPA 314.0**	**Prep Method:**	**METHOD**

QC1004293 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Perchlorate	ND		ug/L	2.0	0.78	08/03/22	08/03/22

Type:	**Lab Control Sample**	**Lab ID:**	**QC1004294**	**Batch:**	**294254**
Matrix:	**Drinking Water**	**Method:**	**EPA 314.0**	**Prep Method:**	**METHOD**

QC1004294 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Perchlorate	53.26	50.00	ug/L	107%		85-115

Type:	**Matrix Spike**	**Lab ID:**	**QC1004295**	**Batch:**	**294254**
Matrix (Source ID):	**Drinking Water (466683-001)**	**Method:**	**EPA 314.0**	**Prep Method:**	**METHOD**

QC1004295 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Perchlorate	59.50	ND	50.00	ug/L	119%		80-120	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1004296**	**Batch:**	**294254**
Matrix (Source ID):	**Drinking Water (466683-001)**	**Method:**	**EPA 314.0**	**Prep Method:**	**METHOD**

QC1004296 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Perchlorate	58.68	ND	50.00	ug/L	117%		80-120	1	15	1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC1004559		**Batch:** 294335
Matrix: Water	**Method:** EPA 524.2		**Prep Method:** METHOD

QC1004559 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
1,1-Dichloroethene	ND		ug/L	0.50	0.14	08/04/22	08/04/22
Benzene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Trichloroethene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Toluene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Chlorobenzene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Chloromethane	ND		ug/L	0.50	0.14	08/04/22	08/04/22
Vinyl Chloride	ND		ug/L	0.50	0.12	08/04/22	08/04/22
Bromomethane	ND		ug/L	1.0	0.17	08/04/22	08/04/22
Chloroethane	ND		ug/L	0.50	0.16	08/04/22	08/04/22
Trichlorofluoromethane	ND		ug/L	0.50	0.15	08/04/22	08/04/22
Freon 113	ND		ug/L	0.50	0.13	08/04/22	08/04/22
Methylene Chloride	ND		ug/L	0.50	0.36	08/04/22	08/04/22
MTBE	ND		ug/L	0.50	0.10	08/04/22	08/04/22
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.14	08/04/22	08/04/22
1,1-Dichloroethane	ND		ug/L	0.50	0.10	08/04/22	08/04/22
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.14	08/04/22	08/04/22
Chloroform	ND		ug/L	0.50	0.10	08/04/22	08/04/22
1,1,1-Trichloroethane	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Carbon Tetrachloride	ND		ug/L	0.50	0.14	08/04/22	08/04/22
1,2-Dichloroethane	ND		ug/L	0.50	0.10	08/04/22	08/04/22
1,2-Dichloropropane	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Bromodichloromethane	ND		ug/L	0.50	0.10	08/04/22	08/04/22
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.13	08/04/22	08/04/22
1,1,2-Trichloroethane	ND		ug/L	0.50	0.13	08/04/22	08/04/22
Tetrachloroethene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Dibromochloromethane	ND		ug/L	0.50	0.13	08/04/22	08/04/22
Ethylbenzene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
m,p-Xylenes	ND		ug/L	1.0	0.10	08/04/22	08/04/22
Styrene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Bromoform	ND		ug/L	0.50	0.10	08/04/22	08/04/22
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.16	08/04/22	08/04/22
1,3-Dichlorobenzene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
1,4-Dichlorobenzene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
1,2-Dichlorobenzene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
1,2,4-Trichlorobenzene	0.12	J	ug/L	0.50	0.11	08/04/22	08/04/22
Surrogates				**Limits**			
Bromofluorobenzene	103%		%REC	70-140		08/04/22	08/04/22
1,2-Dichloroethane-d4	99%		%REC	70-140		08/04/22	08/04/22
Dibromofluoromethane	95%		%REC	70-140		08/04/22	08/04/22
Toluene-d8	97%		%REC	70-140		08/04/22	08/04/22

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample **Lab ID: QC1004560** **Batch: 294335**
Matrix: Water

QC1004560 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Method: EPA 524.2 Prep Method: METHOD						
MTBE	10.04	10.00	ug/L	100%		70-130
Method: EPA 8260B Prep Method: EPA 5030B						
1,1-Dichloroethene	7.648	10.00	ug/L	76%		70-135
Benzene	10.14	10.00	ug/L	101%		70-130
Trichloroethene	10.54	10.00	ug/L	105%		70-130
Toluene	9.462	10.00	ug/L	95%		70-130
Chlorobenzene	9.555	10.00	ug/L	96%		70-130
Surrogates						
Dibromofluoromethane	12.10	12.50	ug/L	97%		70-140
1,2-Dichloroethane-d4	12.75	12.50	ug/L	102%		70-140
Toluene-d8	12.28	12.50	ug/L	98%		70-140
Bromofluorobenzene	12.90	12.50	ug/L	103%		70-140

Type: Lab Control Sample Duplicate **Lab ID: QC1004561** **Batch: 294335**
Matrix: Water

QC1004561 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Method: EPA 524.2 Prep Method: METHOD								
MTBE	10.10	10.00	ug/L	101%		70-130	1	30
Method: EPA 8260B Prep Method: EPA 5030B								
1,1-Dichloroethene	7.144	10.00	ug/L	71%		70-135	7	30
Benzene	9.856	10.00	ug/L	99%		70-130	3	30
Trichloroethene	10.24	10.00	ug/L	102%		70-130	3	30
Toluene	9.164	10.00	ug/L	92%		70-130	3	30
Chlorobenzene	9.388	10.00	ug/L	94%		70-130	2	30
Surrogates								
Dibromofluoromethane	12.48	12.50	ug/L	100%		70-140		
1,2-Dichloroethane-d4	12.91	12.50	ug/L	103%		70-140		
Toluene-d8	11.85	12.50	ug/L	95%		70-140		
Bromofluorobenzene	12.41	12.50	ug/L	99%		70-140		

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1006279	Batch: 294921
Matrix: Water		

QC1006279 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Method: EPA 524.2 Prep Method: METHOD							
1,1-Dichloroethene	ND		ug/L	0.50	0.10	08/11/22	08/11/22
Benzene	ND		ug/L	0.50	0.081	08/11/22	08/11/22
Trichloroethene	ND		ug/L	0.50	0.13	08/11/22	08/11/22
Toluene	ND		ug/L	0.50	0.10	08/11/22	08/11/22
Chlorobenzene	ND		ug/L	0.50	0.13	08/11/22	08/11/22
Chloromethane	ND		ug/L	0.50	0.15	08/11/22	08/11/22
Vinyl Chloride	ND		ug/L	0.50	0.11	08/11/22	08/11/22
Bromomethane	ND		ug/L	1.0	0.18	08/11/22	08/11/22
Chloroethane	ND		ug/L	0.50	0.13	08/11/22	08/11/22
Trichlorofluoromethane	ND		ug/L	0.50	0.12	08/11/22	08/11/22
Freon 113	ND		ug/L	0.50	0.12	08/11/22	08/11/22
Methylene Chloride	ND		ug/L	2.0	0.46	08/11/22	08/11/22
MTBE	ND		ug/L	0.50	0.10	08/11/22	08/11/22
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.15	08/11/22	08/11/22
1,1-Dichloroethane	ND		ug/L	0.50	0.12	08/11/22	08/11/22
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.11	08/11/22	08/11/22
Chloroform	ND		ug/L	0.50	0.28	08/11/22	08/11/22
1,1,1-Trichloroethane	ND		ug/L	0.50	0.11	08/11/22	08/11/22
Carbon Tetrachloride	ND		ug/L	0.50	0.10	08/11/22	08/11/22
1,2-Dichloroethane	ND		ug/L	0.50	0.098	08/11/22	08/11/22
1,2-Dichloropropane	ND		ug/L	0.50	0.12	08/11/22	08/11/22
Bromodichloromethane	ND		ug/L	0.50	0.052	08/11/22	08/11/22
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.075	08/11/22	08/11/22
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.12	08/11/22	08/11/22
1,1,2-Trichloroethane	ND		ug/L	0.50	0.14	08/11/22	08/11/22
Tetrachloroethene	ND		ug/L	0.50	0.20	08/11/22	08/11/22
Dibromochloromethane	ND		ug/L	0.50	0.19	08/11/22	08/11/22
Ethylbenzene	ND		ug/L	0.50	0.13	08/11/22	08/11/22
m,p-Xylenes	ND		ug/L	1.0	0.24	08/11/22	08/11/22
Styrene	ND		ug/L	0.50	0.11	08/11/22	08/11/22
Bromoform	ND		ug/L	0.50	0.078	08/11/22	08/11/22
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.16	08/11/22	08/11/22
1,3-Dichlorobenzene	ND		ug/L	0.50	0.12	08/11/22	08/11/22
1,4-Dichlorobenzene	ND		ug/L	0.50	0.11	08/11/22	08/11/22
1,2-Dichlorobenzene	ND		ug/L	0.50	0.083	08/11/22	08/11/22
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.15	08/11/22	08/11/22
Method: EPA 8260B Prep Method: EPA 5030B							
2-Chloroethylvinylether	ND	b	ug/L	5.0	0.6	08/11/22	08/11/22
Acrolein	ND		ug/L	200	1.1	08/11/22	08/11/22

ENTHALPY ANALYTICAL

Batch QC

QC1006279 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Acrylonitrile	ND		ug/L	10	0.1	08/11/22	08/11/22
Surrogates				**Limits**			
Dibromofluoromethane	104%		%REC	70-140	1.8	08/11/22	08/11/22
1,2-Dichloroethane-d4	102%		%REC	70-140	9.2	08/11/22	08/11/22
Toluene-d8	98%		%REC	70-140	3.9	08/11/22	08/11/22
Bromofluorobenzene	100%		%REC	70-140		08/11/22	08/11/22

Type: Lab Control Sample **Lab ID: QC1006280** **Batch: 294921**
Matrix: Water

QC1006280 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Method: EPA 524.2 Prep Method: METHOD						
MTBE	52.56	50.00	ug/L	105%		70-130
Method: EPA 8260B Prep Method: EPA 5030B						
1,1-Dichloroethene	51.05	50.00	ug/L	102%		70-135
Benzene	51.90	50.00	ug/L	104%		70-130
Trichloroethene	50.25	50.00	ug/L	101%		70-130
Toluene	48.74	50.00	ug/L	97%		70-130
Chlorobenzene	48.52	50.00	ug/L	97%		70-130
Surrogates						
Dibromofluoromethane	52.24	50.00	ug/L	104%		70-140
1,2-Dichloroethane-d4	52.52	50.00	ug/L	105%		70-140
Toluene-d8	48.94	50.00	ug/L	98%		70-140
Bromofluorobenzene	49.68	50.00	ug/L	99%		70-140

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample Duplicate **Lab ID:** QC1006281 **Batch:** 294921
Matrix: Water

QC1006281 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Method: EPA 524.2 Prep Method: METHOD								
MTBE	49.36	50.00	ug/L	99%		70-130	6	30
Method: EPA 8260B Prep Method: EPA 5030B								
1,1-Dichloroethene	47.22	50.00	ug/L	94%		70-135	8	30
Benzene	48.73	50.00	ug/L	97%		70-130	6	30
Trichloroethene	48.24	50.00	ug/L	96%		70-130	4	30
Toluene	46.80	50.00	ug/L	94%		70-130	4	30
Chlorobenzene	47.08	50.00	ug/L	94%		70-130	3	30
Surrogates								
Dibromofluoromethane	50.74	50.00	ug/L	101%		70-140		
1,2-Dichloroethane-d4	50.39	50.00	ug/L	101%		70-140		
Toluene-d8	49.27	50.00	ug/L	99%		70-140		
Bromofluorobenzene	48.60	50.00	ug/L	97%		70-140		

Type: Sample Duplicate **Lab ID:** QC1004260 **Batch:** 294230
Matrix (Source ID): Drinking Water (466606-001) **Method:** SM 2150B

QC1004260 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Odor	ND	ND	TON			20	1

Type: Blank **Lab ID:** QC1004600 **Batch:** 294355
Matrix: Water **Method:** SM 4500-CL-G

QC1004600 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Chlorine, Total Residual	ND		mg/L	0.10	0.026	08/02/22 19:47	08/02/22 19:47

Type: Lab Control Sample **Lab ID:** QC1004601 **Batch:** 294355
Matrix: Water **Method:** SM 4500-CL-G

QC1004601 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chlorine, Total Residual	1.087	1.000	mg/L	109%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Sample Duplicate**	**Lab ID:**	**QC1004602**	**Batch:**	**294355**
Matrix (Source ID):	**Water (466474-003)**	**Method:**	**SM 4500-CL-G**		

QC1004602 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Chlorine, Total Residual	1.034	1.036	mg/L		0	20	1

Type:	**Blank**	**Lab ID:**	**QC1004689**	**Batch:**	**294384**
Matrix:	**Water**	**Method:**	**SM 4500-CN-E**	**Prep Method:**	**METHOD**

QC1004689 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Cyanide	ND		mg/L	0.010	0.0034	08/04/22	08/04/22

Type:	**Lab Control Sample**	**Lab ID:**	**QC1004690**	**Batch:**	**294384**
Matrix:	**Water**	**Method:**	**SM 4500-CN-E**	**Prep Method:**	**METHOD**

QC1004690 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Cyanide	0.1920	0.2000	mg/L	96%		73-123

Type:	**Matrix Spike**	**Lab ID:**	**QC1004691**	**Batch:**	**294384**
Matrix (Source ID):	**Water (466215-001)**	**Method:**	**SM 4500-CN-E**	**Prep Method:**	**METHOD**

QC1004691 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Cyanide	0.1920	ND	0.2000	mg/L	96%		56-129	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1004692**	**Batch:**	**294384**
Matrix (Source ID):	**Water (466215-001)**	**Method:**	**SM 4500-CN-E**	**Prep Method:**	**METHOD**

QC1004692 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Cyanide	0.1920	ND	0.2000	mg/L	96%		56-129	0	37	1

Type:	**Blank**	**Lab ID:**	**QC1006471**	**Batch:**	**294990**
Matrix:	**Drinking Water**	**Method:**	**SM 4500-F-C**		

QC1006471 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Fluoride	ND		mg/L	0.10	0.0059	08/12/22	08/12/22

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample**	**Lab ID:**	**QC1006472**	**Batch:**	**294990**
Matrix:	**Drinking Water**	**Method:**	**SM 4500-F-C**		

QC1006472 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Fluoride	1.010	1.000	mg/L	101%		80-120

Type:	**Matrix Spike**	**Lab ID:**	**QC1006473**	**Batch:**	**294990**
Matrix (Source ID):	**Drinking Water (467206-002)**	**Method:**	**SM 4500-F-C**		

QC1006473 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Fluoride	1.030	ND	1.000	mg/L	100%		75-125	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1006474**	**Batch:**	**294990**
Matrix (Source ID):	**Drinking Water (467206-002)**	**Method:**	**SM 4500-F-C**		

QC1006474 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Fluoride	1.040	ND	1.000	mg/L	101%		75-125	1	20	1

Type:	**Sample Duplicate**	**Lab ID:**	**QC1006712**	**Batch:**	**294233**
Matrix (Source ID):	**Water (466631-001)**	**Method:**	**SM 4500-H+ B**		

QC1006712 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
pH	7.620	7.620	SU		0	20	1
Temperature	17.90	16.10	deg C		11	20	1

Type:	**Blank**	**Lab ID:**	**QC1005581**	**Batch:**	**294677**
Matrix:	**Water**	**Method:**	**SM 4500-NH3-G**		

QC1005581 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Ammonia-N	ND		mg/L	0.10	0.045	08/09/22	08/09/22

Type:	**Lab Control Sample**	**Lab ID:**	**QC1005582**	**Batch:**	**294677**
Matrix:	**Water**	**Method:**	**SM 4500-NH3-G**		

QC1005582 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Ammonia-N	2.361	2.500	mg/L	94%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike	**Lab ID:**	QC1005595	**Batch:**	294677
Matrix (Source ID):	Water (466882-001)	**Method:**	SM 4500-NH3-G	**Prep Method:**	METHOD

QC1005595 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Ammonia-N	2.509	0.05461	2.500	mg/L	98%		80-120	1

Type:	Matrix Spike Duplicate	**Lab ID:**	QC1005596	**Batch:**	294677
Matrix (Source ID):	Water (466882-001)	**Method:**	SM 4500-NH3-G	**Prep Method:**	METHOD

QC1005596 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Ammonia-N	2.399	0.05461	2.500	mg/L	94%		80-120	4	20	1

Type:	Matrix Spike	**Lab ID:**	QC1005615	**Batch:**	294677
Matrix (Source ID):	Water (466631-001)	**Method:**	SM 4500-NH3-G		

QC1005615 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Ammonia-N	2.625	0.05404	2.500	mg/L	103%		80-120	1

Type:	Matrix Spike Duplicate	**Lab ID:**	QC1005616	**Batch:**	294677
Matrix (Source ID):	Water (466631-001)	**Method:**	SM 4500-NH3-G		

QC1005616 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Ammonia-N	2.583	0.05404	2.500	mg/L	101%		80-120	2	20	1

Type:	Blank	**Lab ID:**	QC1005617	**Batch:**	294677
Matrix:	Water	**Method:**	SM 4500-NH3-G		

QC1005617 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Ammonia-N	ND		mg/L	0.10	0.045	08/09/22	08/09/22

Type:	Lab Control Sample	**Lab ID:**	QC1005618	**Batch:**	294677
Matrix:	Water	**Method:**	SM 4500-NH3-G		

QC1005618 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Ammonia-N	2.619	2.500	mg/L	105%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type: Blank **Lab ID: QC1005763** **Batch: 294755**
Matrix: Water **Method: SM 4500-NH3-G**

QC1005763 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Total Kjeldahl	ND		mg/L	0.20	0.062	08/10/22	08/10/22

Type: Lab Control Sample **Lab ID: QC1005764** **Batch: 294755**
Matrix: Water **Method: SM 4500-NH3-G**

QC1005764 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Total Kjeldahl	2.691	2.500	mg/L	108%		80-120

Type: Matrix Spike **Lab ID: QC1005765** **Batch: 294755**
Matrix (Source ID): Water (466764-001) **Method: SM 4500-NH3-G**

QC1005765 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Total Kjeldahl	13.04	0.6826	12.50	mg/L	99%		80-120	2.5

Type: Matrix Spike Duplicate **Lab ID: QC1005766** **Batch: 294755**
Matrix (Source ID): Water (466764-001) **Method: SM 4500-NH3-G**

QC1005766 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Total Kjeldahl	13.38	0.6826	12.50	mg/L	102%		80-120	3	20	2.5

Type: Blank **Lab ID: QC1004680** **Batch: 294380**
Matrix: Water **Method: SM 4500-P-B5-E**

QC1004680 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Phosphorus	ND		mg/L	0.020	0.0054	08/04/22	08/04/22

Type: Lab Control Sample **Lab ID: QC1004681** **Batch: 294380**
Matrix: Water **Method: SM 4500-P-B5-E**

QC1004681 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phosphorus	0.3870	0.3300	mg/L	117%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type: Matrix Spike | **Lab ID:** QC1004682 | **Batch:** 294380
Matrix (Source ID): Water (466497-001) | **Method:** SM 4500-P-B5-E

QC1004682 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phosphorus	0.4970	0.06500	0.4000	mg/L	108%		75-125	1

Type: Matrix Spike Duplicate | **Lab ID:** QC1004683 | **Batch:** 294380
Matrix (Source ID): Water (466497-001) | **Method:** SM 4500-P-B5-E

QC1004683 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phosphorus	0.4980	0.06500	0.4000	mg/L	108%		75-125	0	20	1

Type: Blank | **Lab ID:** QC1004324 | **Batch:** 294265
Matrix: Water | **Method:** SM 5310B

QC1004324 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Organic Carbon	ND		mg/L	1.0	0.23	08/02/22	08/02/22

Type: Lab Control Sample | **Lab ID:** QC1004325 | **Batch:** 294265
Matrix: Water | **Method:** SM 5310B

QC1004325 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	9.517	10.00	mg/L	95%		80-120

Type: Matrix Spike | **Lab ID:** QC1004326 | **Batch:** 294265
Matrix (Source ID): Water (466488-001) | **Method:** SM 5310B

QC1004326 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Organic Carbon	159.9	126.7	40.00	mg/L	83%		80-120	4

Type: Matrix Spike Duplicate | **Lab ID:** QC1004327 | **Batch:** 294265
Matrix (Source ID): Water (466488-001) | **Method:** SM 5310B

QC1004327 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	159.3	126.7	40.00	mg/L	82%		80-120	0	20	4

ENTHALPY ANALYTICAL

Batch QC

Type:	Sample Duplicate	Lab ID:	QC1004259	Batch:	294229
Matrix (Source ID):	Drinking Water (466606-001)	Method:	SM2120B		

QC1004259 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Color	ND	ND	ColorUnits			20	1

Type:	Sample Duplicate	Lab ID:	QC1004258	Batch:	294228
Matrix (Source ID):	Drinking Water (466606-001)	Method:	SM2130B		

QC1004258 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Turbidity	0.1000	ND	NTU		5	20	1

Type:	Blank	Lab ID:	QC1005312	Batch:	294591
Matrix:	Water	Method:	SM2320B	Prep Method:	METHOD

QC1005312 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Bicarbonate	ND		mg/L	5.0		08/05/22	08/05/22
Carbonate	ND		mg/L	5.0		08/05/22	08/05/22
Hydroxide	ND		mg/L	5.0		08/05/22	08/05/22
Alkalinity, Total as CaCO3	ND		mg/L	5.0		08/05/22	08/05/22

Type:	Lab Control Sample	Lab ID:	QC1005313	Batch:	294591
Matrix:	Water	Method:	SM2320B	Prep Method:	METHOD

QC1005313 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Alkalinity, Total as CaCO3	998.6	1000	mg/L	100%		90-110

Type:	Sample Duplicate	Lab ID:	QC1005314	Batch:	294591
Matrix (Source ID):	Water (466414-013)	Method:	SM2320B	Prep Method:	METHOD

QC1005314 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Bicarbonate	449.6	449.6	mg/L		0	20	2.5
Carbonate	ND	ND	mg/L			20	2.5
Hydroxide	ND	ND	mg/L			20	2.5
Alkalinity, Total as CaCO3	368.5	368.5	mg/L		0	20	2.5

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1004984	Batch: 294477
Matrix: Water	Method: SM2540C	Prep Method: METHOD

QC1004984 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Dissolved Solids	ND		mg/L	10		08/04/22	08/05/22

Type: Lab Control Sample	Lab ID: QC1004985	Batch: 294477
Matrix: Water	Method: SM2540C	Prep Method: METHOD

QC1004985 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Dissolved Solids	352.0	342.0	mg/L	103%		90-110

Type: Sample Duplicate	Lab ID: QC1004986	Batch: 294477
Matrix (Source ID): Water (466569-010)	Method: SM2540C	Prep Method: METHOD

QC1004986 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Dissolved Solids	19,620	19360	mg/L		1	5	10

Type: Blank	Lab ID: QC1005266	Batch: 294565
Matrix: Water	Method: SM2540D	Prep Method: METHOD

QC1005266 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Suspended Solids	ND		mg/L	0.5		08/05/22	08/05/22

Type: Sample Duplicate	Lab ID: QC1005267	Batch: 294565
Matrix (Source ID): Water (466495-002)	Method: SM2540D	Prep Method: METHOD

QC1005267 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Suspended Solids	300.0	290.0	mg/L		3	5	20

Type: Blank	Lab ID: QC1004283	Batch: 294244
Matrix: Water	Method: SM5210B	Prep Method: METHOD

QC1004283 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Biochemical Oxygen Demand	ND		mg/L	3.0		08/03/22 11:29	08/08/22 11:35

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	**Lab ID:** QC1004284	**Batch:** 294244
Matrix: Water	**Method:** SM5210B	**Prep Method:** METHOD

QC1004284 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Biochemical Oxygen Demand	209.0	198.0	mg/L	106%		84.6-115.4

Type: Blank	**Lab ID:** QC1004339	**Batch:** 294271
Matrix: Water	**Method:** SM5540C	

QC1004339 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Surfactants (MBAS)	ND		mg/L	0.040	0.029	08/03/22 12:45	08/03/22 16:34

Type: Lab Control Sample	**Lab ID:** QC1004340	**Batch:** 294271
Matrix: Water	**Method:** SM5540C	

QC1004340 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Surfactants (MBAS)	0.9290	1.000	mg/L	93%		80-120

Type: Matrix Spike	**Lab ID:** QC1004341	**Batch:** 294271
Matrix (Source ID): Water (466631-003)	**Method:** SM5540C	

QC1004341 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Surfactants (MBAS)	0.9120	ND	1.000	mg/L	88%		80-120	1

Type: Matrix Spike Duplicate	**Lab ID:** QC1004342	**Batch:** 294271
Matrix (Source ID): Water (466631-003)	**Method:** SM5540C	

QC1004342 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Surfactants (MBAS)	0.9080	ND	1.000	mg/L	88%		80-120	0	20	1

* Value is outside QC limits
E Response exceeds instrument's linear range
J Estimated value
ND Not Detected
NM Not Meaningful
b See narrative

Laboratory Job Number 466631

Subcontracted Products

Eurofins Southwest

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-105298-1
Client Project/Site: EO-466631

For:
Enthalpy Analytical LLC
931 W. Barkley Ave
Orange, California 92868

Attn: Ranjit Clarke

Authorized for release by:
8/11/2022 1:17:03 PM
Sheila Luu, Project Mgmt. Assistant
Sheila.Luu@et.eurofinsus.com

Designee for

Xuan Dang, Project Manager I
(714)895-5494
Xuan.Dang@et.eurofinsus.com

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
QC Sample Results 7
QC Association Summary 8
Lab Chronicle 9
Certification Summary 10
Method Summary 11
Sample Summary 12
Chain of Custody 13
Receipt Checklists 14

Definitions/Glossary

Client: Enthalpy Analytical LLC
Project/Site: EO-466631

Job ID: 570-105298-1

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

Case Narrative

Client: Enthalpy Analytical LLC
Project/Site: EO-466631

Job ID: 570-105298-1

Job ID: 570-105298-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-105298-1

Comments
No additional comments.

Receipt
The samples were received on 8/3/2022 5:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.5º C.

Receipt Exceptions

W received only 1L glass preserved with H2SO4 per sample, but on the COC the client is also requesting BOD.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 1664A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-255453. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.
Method 1664.

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

Detection Summary

Client: Enthalpy Analytical LLC
Project/Site: EO-466631

Job ID: 570-105298-1

Client Sample ID: MCWP-MW04S — Lab Sample ID: 570-105298-1

No Detections.

Client Sample ID: MCWP-MW07S — Lab Sample ID: 570-105298-2

No Detections.

Client Sample ID: MCWP-MW07D — Lab Sample ID: 570-105298-3

No Detections.

This Detection Summary does not include radiochemical test results.

General Chemistry

Client Sample ID: MCWP-MW04S
Date Collected: 08/02/22 13:00
Date Received: 08/03/22 17:50

Lab Sample ID: 570-105298-1
Matrix: Water

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	ND		1.25	0.639	mg/L		08/09/22 10:59	08/09/22 10:59	1

Client Sample ID: MCWP-MW07S
Date Collected: 08/02/22 11:30
Date Received: 08/03/22 17:50

Lab Sample ID: 570-105298-2
Matrix: Water

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	ND		1.23	0.628	mg/L		08/09/22 10:59	08/09/22 10:59	1

Client Sample ID: MCWP-MW07D
Date Collected: 08/02/22 11:35
Date Received: 08/03/22 17:50

Lab Sample ID: 570-105298-3
Matrix: Water

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	ND		1.15	0.587	mg/L		08/09/22 10:59	08/09/22 10:59	1

Client: Enthalpy Analytical LLC
Project/Site: EO-466631

Job ID: 570-105298-1

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 570-255453/1-A
Matrix: Water
Analysis Batch: 255570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 255453

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	ND		1.00	0.510	mg/L		08/09/22 10:59	08/09/22 10:59	1

Lab Sample ID: LCS 570-255453/2-A
Matrix: Water
Analysis Batch: 255570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 255453

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
HEM: Oil and Grease			40.0	38.80		mg/L		97	78 - 114		

Lab Sample ID: LCSD 570-255453/3-A
Matrix: Water
Analysis Batch: 255570

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 255453

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HEM: Oil and Grease			40.0	37.30		mg/L		93	78 - 114	4	18

QC Association Summary

Client: Enthalpy Analytical LLC
Project/Site: EO-466631

Job ID: 570-105298-1

General Chemistry

Prep Batch: 255453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-105298-1	MCWP-MW04S	Total/NA	Water	1664A	
570-105298-2	MCWP-MW07S	Total/NA	Water	1664A	
570-105298-3	MCWP-MW07D	Total/NA	Water	1664A	
MB 570-255453/1-A	Method Blank	Total/NA	Water	1664A	
LCS 570-255453/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 570-255453/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	

Analysis Batch: 255570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-105298-1	MCWP-MW04S	Total/NA	Water	1664A	255453
570-105298-2	MCWP-MW07S	Total/NA	Water	1664A	255453
570-105298-3	MCWP-MW07D	Total/NA	Water	1664A	255453
MB 570-255453/1-A	Method Blank	Total/NA	Water	1664A	255453
LCS 570-255453/2-A	Lab Control Sample	Total/NA	Water	1664A	255453
LCSD 570-255453/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	255453

Lab Chronicle

Client: Enthalpy Analytical LLC
Project/Site: EO-466631

Job ID: 570-105298-1

Client Sample ID: MCWP-MW04S
Date Collected: 08/02/22 13:00
Date Received: 08/03/22 17:50

Lab Sample ID: 570-105298-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			799 mL	1000 mL	255453	08/09/22 10:59	UWEZ	EET CAL 4
Total/NA	Analysis	1664A		1			255570	08/09/22 10:59	OM8W	EET CAL 4
	Instrument ID: NOEQUIP									

Client Sample ID: MCWP-MW07S
Date Collected: 08/02/22 11:30
Date Received: 08/03/22 17:50

Lab Sample ID: 570-105298-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			813 mL	1000 mL	255453	08/09/22 10:59	UWEZ	EET CAL 4
Total/NA	Analysis	1664A		1			255570	08/09/22 10:59	OM8W	EET CAL 4
	Instrument ID: NOEQUIP									

Client Sample ID: MCWP-MW07D
Date Collected: 08/02/22 11:35
Date Received: 08/03/22 17:50

Lab Sample ID: 570-105298-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			870 mL	1000 mL	255453	08/09/22 10:59	UWEZ	EET CAL 4
Total/NA	Analysis	1664A		1			255570	08/09/22 10:59	OM8W	EET CAL 4
	Instrument ID: NOEQUIP									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Enthalpy Analytical LLC
Project/Site: EO-466631

Job ID: 570-105298-1

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23
Oregon	NELAP	4175	02-02-23

Method Summary

Client: Enthalpy Analytical LLC
Project/Site: EO-466631

Job ID: 570-105298-1

Method	Method Description	Protocol	Laboratory
1664A	HEM and SGT-HEM	1664A	EET CAL 4
1664A	HEM and SGT-HEM (Aqueous)	1664A	EET CAL 4

Protocol References:

1664A = EPA-821-98-002

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Enthalpy Analytical LLC
Project/Site: EO-466631

Job ID: 570-105298-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-105298-1	MCWP-MW04S	Water	08/02/22 13:00	08/03/22 17:50
570-105298-2	MCWP-MW07S	Water	08/02/22 11:30	08/03/22 17:50
570-105298-3	MCWP-MW07D	Water	08/02/22 11:35	08/03/22 17:50

105298

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
Eurofins Southwest
2841 Dow Avenue
Suite 100
Tustin, CA 92780
ATTN: Xuan Dang
PO #: Required, to be sent via email

Enthalpy Order: EO-466631
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

Results Due: Standard TAT
Report Level: II
Report To: MDL
EDDs: .DBF erpimsenhanced

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
MCWP-MW04S	02-AUG-2022 13.00	466631-001	1	Water	EPA 1664 Oil & Grease (Total) -OUT	
				Water	BOD	
MCWP-MW07S	02-AUG-2022 11 30	466631-002	1	Water	EPA 1664 Oil & Grease (Total) -OUT	
				Water	BOD	
MCWP-MW07D	02-AUG-2022 11 35	466631-003	1	Water	EPA 1664 Oil & Grease (Total) -OUT	
				Water	BOD	

Notes:	Relinquished By:	Received By:
		EC
	Date: 8/3/22 17:50	Date: 8-3-2022 17:50
	Date:	Date:
	Date:	Date:

1 5/1.5 5c12

570-105298 Chain of Custody

Login Sample Receipt Checklist

Client: Enthalpy Analytical LLC

Job Number: 570-105298-1

Login Number: 105298
List Number: 1
Creator: Escalante, Maria I

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Laboratory Job Number 466631

Subcontracted Products

Enthalpy - Wilmington

Enthalpy Analytical - Orange

931 W. Barkley Ave
Orange, CA 92868

Client Project: EO-466631
Samples Received: 08/04/22

Analytical Report
0822-717

EPA Method 1613B

2, 3, 7, 8 TCDD

Enthalpy Analytical, LLC – Ultratrace
Mark Hager
O: 910-876-6894 / F: 910-212-6886
mark.hager@enthalpy.com / www.enthalpy.com
2714 Exchange Drive, Wilmington, NC 28405

I certify that to the best of my knowledge all analytical data presented in this report:

- Have been checked for completeness
- Are accurate, error-free, and legible
- Have been conducted in accordance with approved protocol, and that all deviations and analytical problems are summarized in the appropriate narrative(s)

This analytical report was prepared in Portable Document Format (.PDF) and contains __19__ pages.

QA Review Performed by: Laura K. Boivin

Report Issued Date: 08/22/2022

ENTHALPY ANALYTICAL

Summary of Results

Enthalpy Analytical

Job No.: 0822-717-1 EPA Method 1613B Water

Enthalpy Analytical, Orange, CA Client Project: EO-466631

Summary

	Compound	CAS	MCWP-MW04S pg/L	MCWP-MW07S pg/L	MCWP-MW07D pg/L
TCDD	2378-TCDD (S)	1746-01-6	ND U	ND U	ND U

Detailed Results

Enthalpy Analytical

Job No.: 0822-717-1 EPA Method 1613B Water

Enthalpy Analytical, Orange, CA Client Project: EO-466631

Enthalpy ID	0822-717-001-1	Prep Batch	EU13792	Sample Vol (mL)	1040.3
Sample Name	MCWP-MW04S	Prep Date	2022-08-05 13:30	Extract Vol (mL)	0.02
Matrix	Aqueous	Analysis Date	2022-08-15 22:44	Split Factor	N/A
Sampling Date	20220802 00:00	Analyst	bahager	Method Code	WM-016
Received Date	2022-08-04 10:15	Instrument	Gandolf	Sample Type	Sample

	Compound	CAS	Extract Concentration pg/uL	Sample Concentration pg/L	Formatted Result pg/L	LOQ pg/L	EDL pg/L	Recovery Limits	Recovery	Flags
TCDD	2378-TCDD (S)	1746-01-6	ND	ND	ND	4.81	0.784			U
ES	13C-2378-TCDD (ES)	76523-40-5	46.39	892			3.52	25-175%	46.4%	
CS	37Cl-2378-TCDD (CS)		41.93	806			0.793	39-154%	104.8%	
AS	13C-1368-TCDD (AS)		75.69	1455			3.16	20-150%	75.7%	

Enthalpy Analytical

Job No.: 0822-717-1 EPA Method 1613B Water

Enthalpy Analytical, Orange, CA Client Project: EO-466631

Enthalpy ID	0822-717-002-1	Prep Batch	EU13792	Sample Vol (mL)	991.9
Sample Name	MCWP-MW07S	Prep Date	2022-08-05 13:30	Extract Vol (mL)	0.02
Matrix	Aqueous	Analysis Date	2022-08-15 23:33	Split Factor	N/A
Sampling Date	20220802 00:00	Analyst	bahager	Method Code	WM-016
Received Date	2022-08-04 10:15	Instrument	Gandolf	Sample Type	Sample

	Compound	CAS	Extract Concentration pg/uL	Sample Concentration pg/L	Formatted Result pg/L	LOQ pg/L	EDL pg/L	Recovery Limits	Recovery	Flags
TCDD	2378-TCDD (S)	1746-01-6	ND	ND	ND	5.04	0.786			U
ES	13C-2378-TCDD (ES)	76523-40-5	58.11	1172			3.93	25-175%	58.1%	
CS	37Cl-2378-TCDD (CS)		42.51	857			0.756	39-154%	106.3%	
AS	13C-1368-TCDD (AS)		75.66	1525			3.54	20-150%	75.7%	

Enthalpy Analytical

Job No.: 0822-717-1 EPA Method 1613B Water

Enthalpy Analytical, Orange, CA Client Project: EO-466631

Enthalpy ID	0822-717-003-1	Prep Batch	EU13792	Sample Vol (mL)	1027.8
Sample Name	MCWP-MW07D	Prep Date	2022-08-05 13:30	Extract Vol (mL)	0.02
Matrix	Aqueous	Analysis Date	2022-08-16 00:23	Split Factor	N/A
Sampling Date	20220802 00:00	Analyst	bahager	Method Code	WM-016
Received Date	2022-08-04 10:15	Instrument	Gandolf	Sample Type	Sample

	Compound	CAS	Extract Concentration pg/uL	Sample Concentration pg/L	Formatted Result pg/L	LOQ pg/L	EDL pg/L	Recovery Limits	Recovery	Flags
TCDD	2378-TCDD (S)	1746-01-6	ND	ND	ND	4.86	0.832			U
ES	13C-2378-TCDD (ES)	76523-40-5	53.49	1041			4.31	25-175%	53.5%	
CS	37Cl-2378-TCDD (CS)		43.68	850			1.05	39-154%	109.2%	
AS	13C-1368-TCDD (AS)		78.46	1527			3.88	20-150%	78.5%	

QC Data

Enthalpy Analytical

Job No.: 0822-717-1 EPA Method 1613B Water

Enthalpy Analytical, Orange, CA Client Project: EO-466631

Enthalpy ID	MB-13792-DF	Prep Batch	EU13792	Sample Vol (mL)	1200
Sample Name	MB-13792-DF	Prep Date	2022-08-05 13:30	Extract Vol (mL)	0.02
Matrix	aqueous	Analysis Date	2022-08-15 21:04	Split Factor	N/A
Sampling Date		Analyst	bahager	Method Code	WM-016
Received Date		Instrument	Gandolf	Sample Type	Blank

	Compound	CAS	Extract Concentration pg/uL	Sample Concentration pg/L	Formatted Result pg/L	LOQ pg/L	EDL pg/L	Recovery Limits	Recovery	Flags
TCDD	2378-TCDD (S)	1746-01-6	ND	ND	ND	4.17	0.591			U
ES	13C-2378-TCDD (ES)	76523-40-5	52.24	871			2.96	25-175%	52.2%	
CS	37Cl-2378-TCDD (CS)		41.49	691			0.633	39-154%	103.7%	
AS	13C-1368-TCDD (AS)		74.37	1239			2.66	20-150%	74.4%	

Enthalpy Analytical

Job No.: 0822-717-1 EPA Method 1613B Water

Enthalpy Analytical, Orange, CA Client Project: EO-466631

Enthalpy ID	OPR-13792-DF	Prep Batch	EU13792	Sample Vol (mL)	1200
Sample Name	OPR-13792-DF	Prep Date	2022-08-05 13:30	Extract Vol (mL)	0.02
Matrix	aqueous	Analysis Date	2022-08-15 19:25	Split Factor	N/A
Sampling Date		Analyst	bahager	Method Code	WM-016
Received Date		Instrument	Gandolf	Sample Type	Control

	Compound	CAS	Extract Concentration pg/uL	Sample Concentration pg/L	Formatted Result pg/L	LOQ pg/L	EDL pg/L	Recovery Limits	Recovery	Flags
TCDD	2378-TCDD (S)	1746-01-6	10.14	169	169	4.17	1.24	67-158%	101.4%	
ES	13C-2378-TCDD (ES)	76523-40-5	63.66	1061			3.75	25-175%	63.7%	
CS	37Cl-2378-TCDD (CS)		43.77	729			0.882	39-154%	109.4%	
AS	13C-1368-TCDD (AS)		75.97	1266			3.37	20-150%	76.0%	

Narrative Summary

Enthalpy Analytical Narrative Summary

Company	Enthalpy Analytical - Orange
Job#	0822-717 EPA Method 1613B
Client Project #	EO-466631

Custody	Megan Holden of Enthalpy Analytical Wilmington received the samples (via FedEx) on ice on August 4, 2022 at 5.0°C in good condition. Prior to, during, and after analysis, the sample was stored in the laboratory with access only by authorized personnel of Enthalpy Analytical, LLC.
Analysis	The sample was analyzed by EPA Method 1613B for 2,3,7,8 TCDD using Agilent Technologies Model# 6890 High-Resolution GC/ Waters High-Resolution Mass-Spectrometer (HRGC/HRMS "Gandalf"). After sampling by the client, the laboratory spiked the samples with Extraction Standard (ES), then extracted by liquid-liquid extraction with methylene chloride. After solvent exchange, each extract was spiked with Alternate Standard (AS) and Clean Up Standard (CS). Cleanup procedures were performed on the extract. The final sample extract was transferred to an autosampler vial and spiked with 20 µL of Injection Standard (JS), prior to analysis.
Calibration	In the initial calibration, the analytes exhibited RSDs less than 20% and labeled standards exhibited RSDs of no more than 30%. The standard analytes, continuing calibration (concal) and Initial Calibration Verification (ICV) met the 20% criterion for native analytes.
QC Notes	The HRMS system displayed mass resolving power of at least 10,000 during the analysis. Labeled and sampling (surrogate) standard recovery values in the Ongoing Precision Recovery (OPR) and method blank were acceptable. GC resolution parameters were met for TCDD. The sample was extracted within the 30-day from collection holding time and analyzed within the 45-day from extraction to analysis holding time required by the method.
Reporting Notes	Any deviations from the requirements of the reference method or TNI Standard have been stated above. The results presented in this report are representative of the samples as provided to the laboratory. Enthalpy Analytical, LLC in Wilmington NC is accredited by the Louisiana Department of Environmental Quality to the 2009 TNI Standard under certificate number 05075.

General Reporting Notes – Data Qualifiers

The following are general reporting notes that are applicable to all Enthalpy Analytical, LLC - Wilmington, NC data reports, unless specifically noted otherwise.

General Data Qualifiers

- B – The analyte was found in the method blank, at a concentration that was at least 10% of the amount in the sample.
- Cxx – Two or more congeners co-elute. In EDDs, C denotes the lowest IUPAC congener in a co-elution group and additional co-eluters for the group ('xx') are shown with the number of the lowest IUPAC co-eluter.
- E – The reported concentration exceeds the calibration range (upper point of the calibration curve). For HRMS data, this condition does not imply additional measurement uncertainty. For LC-MS/MS data, these values should be considered as having measurement uncertainty higher than values within the calibration range.
- EDL – Estimated Detection Level: The EDL is unique to isotope dilution methods and reflects the conditions of analysis at the time of analysis, including the equipment used. Where the MDL is a static value, the EDL is a dynamic value.
- EMPC – Estimated Maximum Possible Concentration: EMPC is specific to Dioxin/Furan tests to indicate the determined ion-abundance ratio was outside the allowed theoretical range (usually due to being near the detection limit, although it can very rarely be caused by a co-eluting interference). The EMPC concentration is adjusted to reflect the value at the theoretical ion-abundance ratio.
- IR – The ion ratio between the primary and secondary ions was observed to be outside the method criteria. The analyte concentration may be inaccurate due to interference.
- J – The analyte has a concentration below the minimum calibration level (LOQ value) but greater than the LOD. These values should be considered as having measurement uncertainty higher than values within the calibration range
- L - Indicates that an analyte has a concentration below the Minimum Detection Limit (MDL). The reported concentration is not recommended for regulatory use as the analyte signal may have a signal-to-noise ratio less than the criteria deemed necessary to be considered a detected analyte.
- LOD – Limit of Detection: For reports conforming to the DOD ELAP QSM, this is the QSM-defined LOD. For reports conforming to TNI requirements (but not DOD ELAP QSM requirements), this value is the minimum detection limit (MDL). The LOD is adjusted for sample weight or volume.
- LOQ – Limit of Quantitation: For reports conforming to the DOD ELAP QSM, this is the QSM-defined LOQ. For reports conforming to TNI requirements (but not DOD ELAP QSM requirements), this value is the reporting limit (RL). The LOQ is adjusted for sample weight or volume.

- <LOD() – Analyte was not found at a concentration high enough to be reported as detected. It is reported as less than the LOD, and the LOD is given in the parentheses.
- <LOQ() – Analyte was not found at a concentration high enough to be reported as above the QSM-defined LOQ or TNI defined Reporting Limit. It is reported as less than the LOQ, and the LOQ is given in the parentheses.
- ND – Indicates a non-detect.
- NR – Indicates a value that is not reportable due to issues observed in sample preparation or analysis.
- PR – The associated congener(s) is(are) poorly resolved.
- QI – Indicates the presence of a quantitative interference.
- RL – Reporting Limit. Lowest reportable value. The level is higher than the MDL.
- SI – Denotes "Single Ion Mode" and is utilized for PCBs where the secondary ion trace has a significantly elevated noise level due to background PFK. Responses for such peaks are calculated using an EMPC approach based solely on the primary ion area(s) and may be considered estimates.
- U – The analyte was not detected.
- V / Q – The labeled standard recovery is not within method control limits.
- X – Indicates the result is from re-injection/repeat/second-column analysis.

Lab Identifiers/ Data Attributes

- AR – Indicates use of the archived portion of the sample extract.
- CU – Indicates a sample that required additional clean-up prior to HRMS injection/processing.
- D – Dilution Data. Result was obtained from the analysis of a dilution. The number that follows the "D" indicates the dilution factor.
- DE – Indicates a dilution performed with the addition of ES (Extraction Standard) solution.
- DUP – Designation for a duplicate sample.
- MS – Designation for a matrix spike.
- MSD – Designation for a matrix spike duplicate.
- R – Indicates a re-extraction of the sample.
- RJ – Indicates a reinjection of the sample extract.

- S – Indicates a sample split. The number that follows the "S" indicates the split factor.
- SAT – Indicates an analyte saturated the detector.

Sample Custody

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

0822-717

Subcontract Laboratory:
Enthalpy - Wilmington
2714 Exchange Drive
Wilmington, NC 28405
ATTN: Bryan Vining
PO #: Required, to be sent via email

Enthalpy Order: EO-466631
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

Results Due: Standard TAT
Report Level: II
Report To: MDL
EDDs: Quant Method PfasToBerkeley, EDD Filename TestWllmGeoTracker EDD

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
MCWP-MW04S	02-AUG-2022 13:00	466631-001	1	Water	EPA 1613 - 2,3,7,8-TCDD only	
MCWP-MW07S	02-AUG-2022 11:30	466631-002	1	Water	EPA 1613 - 2,3,7,8-TCDD only	
MCWP-MW07D	02-AUG-2022 11:35	466631-003	1	Water	EPA 1613 - 2,3,7,8-TCDD only	

Notes:	Relinquished By:	Received By:
Fedex, cooler in box, on ice, no seals, good condition, 777569010115 MR 8.4.22		FEDEX 777569010115
	Date: 8/3/22 1500	Date: 8/3/22
		Megan Holden
	Date:	Date: 8.4.22 10:15 5.0°C TO
	Date:	Date:

This Is The Last Page Of This Report.

Laboratory Job Number 466631

Subcontracted Products

SGS Forensic

SGS FORENSIC LABORATORIES

Final

ANALYSIS REPORT
ASBESTOS IN DRINKING WATER
Transmission Electron Microscopy*

Client:	Enthalpy Analytical LLC		
Contact:	Ranjit K Clarke	Client Number:	1137
Street:	2323 5th Street	Report Number:	T035507
City/state/zip:	Berkeley, CA 94710	Date/time Received:	8/3/22 1300

Site:		Date filtered:	8/3/22
Job ID/PO:	EO-466631	Analyst(s):	MAB
Date Collected:	8/2/22	Date Analyzed:	8/9/22
Hold time, hrs:	<48	Date Reported:	8/10/22
Filter type:	25mm MCE	Date Printed:	8/10/22
Pore size:	0.22 µm		

ANALYTICAL RESULTS

Sample Number	MCWP-MW04S	MCWP-MW07S	MCWP-MW07D	
Description				
Lab Sample Number	20138709	20138710	20138711	
Volume Filtered, mL	10	10	30	
Filter Area, mm2	190	190	190	
Grid Opening Area, mm^2	0.0086	0.0086	0.0086	
Number of GO's Analyzed	10	10	4	
Area Analyzed, mm^2	0.086	0.086	0.0344	
# Asbestos Fibers ≥10 µm	1	0	0	
Analytical Sensitivity, MFL	0.2	0.2	0.2	
Asbestos Concentration, ≥10um in length, MFL	**0.2**	**<0.2**	**<0.2**	
Asbestos Type(s) Detected**	**AC**	**ND**	**ND**	
95% Upper Conf. Limit, MFL	1.1	0.7	0.7	
95% Lower Conf. Limit, MFL	0.0	0.0	0.0	

0

Mark Floyd, Analytical Microscopy Supervisor

* Method 100.2 (EPA/600/R-94/134). Results are reported in Millions of Fibers per Liter (MFL) over 10 µm in length.

** Asbestos types: CH=chrysotile; AM=amosite; CR=crocidolite; TR=tremolite; AC=actinolite; AN=anthophyllite; ND=none detected; NA-Not Analyzed; n/a=not applicable (i.e., divide by 0); OV=overloaded; BL=blank sample; PF=prepped not analyzed.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (Client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full with approval from SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. This report must not be used by the client to claim product endorsement by NVLAP or any U.S. government agency. SGSFL is unable to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of 30 days, according to all state and federal guidelines, unless otherwise specified.

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
SGS Forensic
3777 Depot Road
Suite 409
Hayward, CA 94545
ATTN:
PO #: Required, to be sent via email

Enthalpy Order: EO-466631
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

Results Due: Standard TAT
Report Level: II
Report To: MDL
EDDs:

Notes:

80 of 181

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
MCWP-MW04S	02-AUG-2022 13:00	466631-001	1	Water	EPA 100.2 Asbestos	
MCWP-MW07S	02-AUG-2022 11:30	466631-002	1	Water	EPA 100.2 Asbestos	
MCWP-MW07D	02-AUG-2022 11:35	466631-003	1	Water	EPA 100.2 Asbestos	

Notes:	Relinquished By:	Received By:
	8/4/22 1855	
	Date:	Date:
	Date:	Date:
	Date:	Date:

RECEIVED
AUG 0 3 2022
BY: Courier

Laboratory Job Number 466631

Subcontracted Products

Pace Analytical - Greensburg

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

September 26, 2022

Ms. Patricia Mata
Enthalpy Analytical
931 W. Barkley Avenue
Orange, CA 92868

RE: Project: EO-466631
Pace Project No.: 30511721

Dear Ms. Mata:

Enclosed are the analytical results for sample(s) received by the laboratory on August 04, 2022. 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,

Nikayla M. Yasurek
nikayla.yasurek@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Incoming Reports, Enthalpy Analytical
David Tripp, Enthalpy Analytical

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

CERTIFICATIONS

Project: EO-466631
Pace Project No.: 30511721

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
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 #: PA014572018-1
New Hampshire/TNI Certification #: 297617
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 #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
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
Wyoming Certification #: 8TMS-L

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SAMPLE SUMMARY

Project: EO-466631
Pace Project No.: 30511721

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30511721001	**MCWP-MW04S**	Water	08/02/22 13:00	08/04/22 17:10
30511721002	**MCWP-MW07S**	Water	08/02/22 11:30	08/04/22 17:10
30511721003	**MCWP-MW07D**	Water	08/02/22 11:35	08/04/22 17:10

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SAMPLE ANALYTE COUNT

Project: EO-466631
Pace Project No.: 30511721

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30511721001	**MCWP-MW04S**	EPA 900.0	ERT	2	PASI-PA
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		ASTM D5811-95	JJY	1	PASI-PA
		EPA 906.0	JPM	1	PASI-PA
30511721002	**MCWP-MW07S**	EPA 900.0	ERT	2	PASI-PA
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		ASTM D5811-95	JJY	1	PASI-PA
		EPA 906.0	JPM	1	PASI-PA
30511721003	**MCWP-MW07D**	EPA 900.0	ERT	2	PASI-PA
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		ASTM D5811-95	JJY	1	PASI-PA
		EPA 906.0	JPM	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: EO-466631
Pace Project No.: 30511721

Sample: MCWP-MW04S **Lab ID: 30511721001** Collected: 08/02/22 13:00 Received: 08/04/22 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • no container preservative type on COC
• Added 5.0mL HNO3 to sample

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Gross Alpha	EPA 900.0	**78.1 ± 23.8 (24.5) C:NA T:NA**	pCi/L	08/22/22 20:46	12587-46-1	
Gross Beta	EPA 900.0	**9.88 ± 6.11 (9.41) C:NA T:NA**	pCi/L	08/22/22 20:46	12587-47-2	
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**-0.0978 ± 0.301 (0.553) C:NA T:90%**	pCi/L	08/22/22 15:24	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.07 ± 0.653 (1.23) C:69% T:90%**	pCi/L	08/15/22 15:42	15262-20-1	
		Pace Analytical Services - Greensburg				
Strontium-90	ASTM D5811-95	**0.160 ± 1.79 (3.40) C:96% T:NA**	pCi/L	08/16/22 19:10	10098-97-2	N2
		Pace Analytical Services - Greensburg				
Tritium	EPA 906.0	**-223 ± 147 (273) C:NA T:NA**	pCi/L	09/01/22 01:00	10028-17-8	

Sample: MCWP-MW07S **Lab ID: 30511721002** Collected: 08/02/22 11:30 Received: 08/04/22 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • no container preservative type on COC
• Added 5.0 mL HNO3 to sample

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Gross Alpha	EPA 900.0	**3.49 ± 2.49 (4.08) C:NA T:NA**	pCi/L	08/22/22 20:47	12587-46-1	
Gross Beta	EPA 900.0	**3.67 ± 1.51 (2.25) C:NA T:NA**	pCi/L	08/22/22 20:47	12587-47-2	
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.0827 ± 0.273 (0.459) C:NA T:96%**	pCi/L	08/22/22 15:24	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.09 ± 0.657 (1.23) C:64% T:96%**	pCi/L	08/15/22 15:42	15262-20-1	
		Pace Analytical Services - Greensburg				
Strontium-90	ASTM D5811-95	**0.370 ± 1.71 (3.23) C:97% T:NA**	pCi/L	08/16/22 19:13	10098-97-2	N2
		Pace Analytical Services - Greensburg				
Tritium	EPA 906.0	**-76.1 ± 152 (273) C:NA T:NA**	pCi/L	09/01/22 02:01	10028-17-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: EO-466631
Pace Project No.: 30511721

Sample: MCWP-MW07D **Lab ID: 30511721003** Collected: 08/02/22 11:35 Received: 08/04/22 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Comments:
- no container preservative type on OCC
- Added 2.5mL HNO3 to sample (2 bottles)
- Added 5.0mL HNO3 to sample (1 bottle)

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Gross Alpha	EPA 900.0	**1.10 ± 1.58 (2.90) C:NA T:NA**	pCi/L	08/22/22 20:47	12587-46-1	
Gross Beta	EPA 900.0	**1.57 ± 0.590 (0.834) C:NA T:NA**	pCi/L	08/22/22 20:47	12587-47-2	
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**-0.108 ± 0.270 (0.509) C:NA T:93%**	pCi/L	08/22/22 15:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**-0.118 ± 0.454 (1.08) C:70% T:93%**	pCi/L	08/15/22 15:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Strontium-90	ASTM D5811-95	**-1.64 ± 1.78 (3.50) C:98% T:NA**	pCi/L	08/16/22 19:13	10098-97-2	N2
	Pace Analytical Services - Greensburg					
Tritium	EPA 906.0	**-295 ± 158 (297) C:NA T:NA**	pCi/L	09/01/22 03:02	10028-17-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: EO-466631
Pace Project No.: 30511721

QC Batch: 524081
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30511721001, 30511721002, 30511721003

METHOD BLANK: 2541570 Matrix: Water
Associated Lab Samples: 30511721001, 30511721002, 30511721003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.127 ± 0.159 (0.359) C:NA T:97%	pCi/L	08/22/22 15:24	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: EO-466631
Pace Project No.: 30511721

QC Batch: 525969
QC Batch Method: EPA 906.0
Analysis Method: EPA 906.0
Analysis Description: 906.0 Tritium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30511721001, 30511721002, 30511721003

METHOD BLANK: 2551580 Matrix: Water
Associated Lab Samples: 30511721001, 30511721002, 30511721003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Tritium	94.0 ± 168 (285) C:NA T:NA	pCi/L	09/02/22 12:01	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: EO-466631
Pace Project No.: 30511721

QC Batch: 524082
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30511721001, 30511721002, 30511721003

METHOD BLANK: 2541573 Matrix: Water
Associated Lab Samples: 30511721001, 30511721002, 30511721003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.501 ± 0.320 (0.593) C:70% T:97%	pCi/L	08/15/22 12:25	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: EO-466631
Pace Project No.: 30511721

QC Batch: 524303
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: 30511721001, 30511721002, 30511721003

METHOD BLANK: 2542410 Matrix: Water
Associated Lab Samples: 30511721001, 30511721002, 30511721003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	0.313 ± 0.653 (1.52) C:NA T:NA	pCi/L	08/24/22 08:42	
Gross Beta	0.029 ± 0.656 (1.61) C:NA T:NA	pCi/L	08/24/22 08:42	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: EO-466631
Pace Project No.: 30511721

QC Batch: 524516
QC Batch Method: ASTM D5811-95
Analysis Method: ASTM D5811-95
Analysis Description: ASTM D5811 Sr 89/90 Eichrom
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30511721001, 30511721002, 30511721003

METHOD BLANK: 2543555 Matrix: Water
Associated Lab Samples: 30511721001, 30511721002, 30511721003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Strontium-90	0.152 ± 0.425 (0.998) C:100% T:NA	pCi/L	08/17/22 09:06	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALIFIERS

Project: EO-466631
Pace Project No.: 30511721

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.

ANALYTE QUALIFIERS

N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EO-466631
Pace Project No.: 30511721

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30511721001	**MCWP-MW04S**	EPA 900.0	524303		
30511721002	**MCWP-MW07S**	EPA 900.0	524303		
30511721003	**MCWP-MW07D**	EPA 900.0	524303		
30511721001	**MCWP-MW04S**	EPA 903.1	524081		
30511721002	**MCWP-MW07S**	EPA 903.1	524081		
30511721003	**MCWP-MW07D**	EPA 903.1	524081		
30511721001	**MCWP-MW04S**	EPA 904.0	524082		
30511721002	**MCWP-MW07S**	EPA 904.0	524082		
30511721003	**MCWP-MW07D**	EPA 904.0	524082		
30511721001	**MCWP-MW04S**	ASTM D5811-95	524516		
30511721002	**MCWP-MW07S**	ASTM D5811-95	524516		
30511721003	**MCWP-MW07D**	ASTM D5811-95	524516		
30511721001	**MCWP-MW04S**	EPA 906.0	525969		
30511721002	**MCWP-MW07S**	EPA 906.0	525969		
30511721003	**MCWP-MW07D**	EPA 906.0	525969		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
Pace Analytical - Greensburg
1638 Roseytown Rd.
Suite 2, 3, 4
Greensburg, PA 15601
ATTN: Karen Smetanka
PO #: Required, to be sent via email

Enthalpy Order: EO-466631
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

WO# : 30511721

30511721

Results Due: Standard TAT
Report Level: II
Report To: MDL
EDDs:

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
MCWP-MW04S	02-AUG-2022 13:00	466631-001	1	Water	EPA 900.0 Gross Alpha and Beta	001
			1	Water	EPA 903.1 Radium-226	
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	
MCWP-MW07S	02-AUG-2022 11:30	466631-002	1	Water	EPA 900.0 Gross Alpha and Beta	002
			1	Water	EPA 903.1 Radium-226	
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	
MCWP-MW07D	02-AUG-2022 11:35	466631-003	1	Water	EPA 900.0 Gross Alpha and Beta	003
			1	Water	EPA 903.1 Radium-226	
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	

Notes:	Relinquished By:	Received By:
		FedEx 7775 6904 3385
	Date: 8/3/22 1500	Date: 8/3/22
	Date:	Date:
	Date:	Date: 8-4-22 17:10

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Enthalpy Analytical Project # _____

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

Label JA

Tracking #: 7775 6904 3385 ✓

LIMS Login VPTNC

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# 10D042 | Date and initials of person examining contents: 8-5-22 JA

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:		✓		2. no container preservative type on COC
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.
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. Tritium - BP1U
-Pace Containers Used:		✓		
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16. 001- Added 5.0 mL HNO_3 to samples (3 Bottles) 002- Added 5.0 mL HNO_3 to Samples (3 Bottles) 003- Added 2.5 mL HNO_3 to samples (2 Bottles) 003- Added 5.0 mL HNO_3 to Sample (1 Bottle)
All containers meet method preservation requirements.		✓		Initial when completed JA Date/time of preservation 8-5-22 10:15
				Lot # of added preservative DL22-0763
Headspace in VOA Vials (>6mm):			✓	17.
Trip Blank Present:			✓	18.
Trip Blank Custody Seals Present			✓	
Rad Samples Screened < 0.5 mrem/hr	✓			Initial when completed: JA Date: 8-5-22 Survey Meter SN: 1563

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

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

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

WO#: 30511721

PM: NMY Due Date: 08/26/22

CLIENT: ENTHALPY

Pace Analytical®

Pace Greensburg Lab -Sample Container Count

WO#: 30511721

PM: NMY Due Date: 08/26/22

CLIENT: ENTHALPY

Client Enthalpy Analytical

Site EQ-466631

Profile Number 6364

Notes

Sample Line Item	Matrix	AG1H	AG1S	AG1T	AG2U	AG3S	AG3U	AG5U	AG5T	BG1U	BG2U	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	GCUB	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC	
1	WT											5	1																
2	WT											5	1																
3	WT											5	1																
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

Container Codes

Glass

GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unprserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosul
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	1L amber glass HCl	WGFU	4oz wide jar unpreserved
AG1T	1L amber glass Na Thiosulfate	BG2U	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserve
AG3S	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
AG3U	250mL amber glass unpreserved		

Plastic / Misc.

GCUB	1 Gallon Cubitainer
12GN	1/2 Gallon Cubitainer
SP5T	120mL Coliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unpreserved
BP3S	250mL plastic H2SO4
BP3N	250mL plastic HNO3
BP3U	250mL plastic unpreserved
BP3C	250ml plastic NAOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved

EZI	5g Encore
VOAK	Kit for Volatile Solid
I	Wipe/Swab
ZPLC	Ziploc Bag

WT	Water
SL	Solid
OL	Non-aqueous liquid
WP	Wipe

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
Pace Analytical - Greensburg
1638 Roseytown Rd.
Suite 2, 3, 4
Greensburg, PA 15601
ATTN: Karen Smetanka
PO #: Required, to be sent via email

Enthalpy Order: EO-466631
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

Results Due: Standard TAT
Report Level: II
Report To: MDL
EDDs:

WO#: 30511721
PM: NMY Due Date: 08/26/22
CLIENT: ENTHALPY

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
MCWP-MW04S	02-AUG-2022 13:00	466631-001	1	Water	EPA 900.0 Gross Alpha and Beta	
			1	Water	EPA 903.1 Radium-226	001
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	
			1	Water	ASTM D5174-97 Uranium	
MCWP-MW07S	02-AUG-2022 11:30	466631-002	1	Water	EPA 900.0 Gross Alpha and Beta	
			1	Water	EPA 903.1 Radium-226	002
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	
			1	Water	ASTM D5174-97 Uranium	
MCWP-MW07D	02-AUG-2022 11:35	466631-003	1	Water	EPA 900.0 Gross Alpha and Beta	
			1	Water	EPA 903.1 Radium-226	003
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	
			1	Water	ASTM D5174-97 Uranium	

Notes:	Relinquished By:	Received By:
		FEDEX 7775 6904 3385
	Date: 8/3/22 1500	Date: 8/3/22
	Date:	Date: 8-5-22 1410
	Date:	Date:

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Enthalpy Project #

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

Label PS
LIMS Login

Tracking #: 7775 7716 4899

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# 1000421 Date and Initials of person examining contents: PS 8/7/22

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC:	✓			5.
-Includes date/time/ID Matrix: WT				
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 sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16. Tritium
All containers meet method preservation requirements.	✓			Initial when completed PS Date/time of preservation; Lot # of added preservative
Headspace in VOA Vials (>6mm):			✓	17.
Trip Blank Present:		✓		18.
Trip Blank Custody Seals Present		✓		
Rad Samples Screened < 0.5 mrem/hr	✓			Initial when completed: PS Date: 8/7/22 Survey Meter SN: 1563

WO#: 30511721
Due Date: 08/26/22
PM: NHY
CLIENT: ENTHALPY

Client Notification/ Resolution:

Person Contacted: Date/Time: Contacted By:

Comments/ Resolution:

* Only BG1U Bottles Sent added to orginal WO.

☐ **A check in this box indicates that additional information has been stored in ereports.**

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

***PM review** is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

30511721

Subcontract Laboratory:
Pace Analytical - Greensburg
1638 Roseytown Rd.
Suite 2, 3, 4
Greensburg, PA 15601
ATTN: Karen Smetanka
PO #: Required, to be sent via email

Enthalpy Order: EO-466631
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

Results Due: Standard TAT
Report Level: II
Report To: MDL
EDDs:

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
MCWP-MW04S	02-AUG-2022 13:00	466631-001	1	Water	EPA 900.0 Gross Alpha and Beta	
			1	Water	EPA 903.1 Radium-226	
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	bottle should arrive 08/05
			1	Water	ASTM D5174-97 Uranium	Analysis missing from original COC
MCWP-MW07S	02-AUG-2022 11:30	466631-002	1	Water	EPA 900.0 Gross Alpha and Beta	
			1	Water	EPA 903.1 Radium-226	
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	bottle should arrive 08/05
			1	Water	ASTM D5174-97 Uranium	Analysis missing from original COC
MCWP-MW07D	02-AUG-2022 11:35	466631-003	1	Water	EPA 900.0 Gross Alpha and Beta	
			1	Water	EPA 903.1 Radium-226	
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	bottle should arrive 08/05
			1	Water	ASTM D5174-97 Uranium	Analysis missing from original COC

Notes:	Relinquished By:	Received By:
	Date:	Date:
	Date:	Date:
	Date:	Date:

ANALYTICAL REPORT

August 26, 2022

Pace Analytical - Greensburg, PA

Sample Delivery Group:	L1527679
Samples Received:	08/20/2022
Project Number:	30511721
Description:	EO-466631
Site:	001
Report To:	Nikayla Yasurek

Entire Report Reviewed By:

Donna Eidson
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

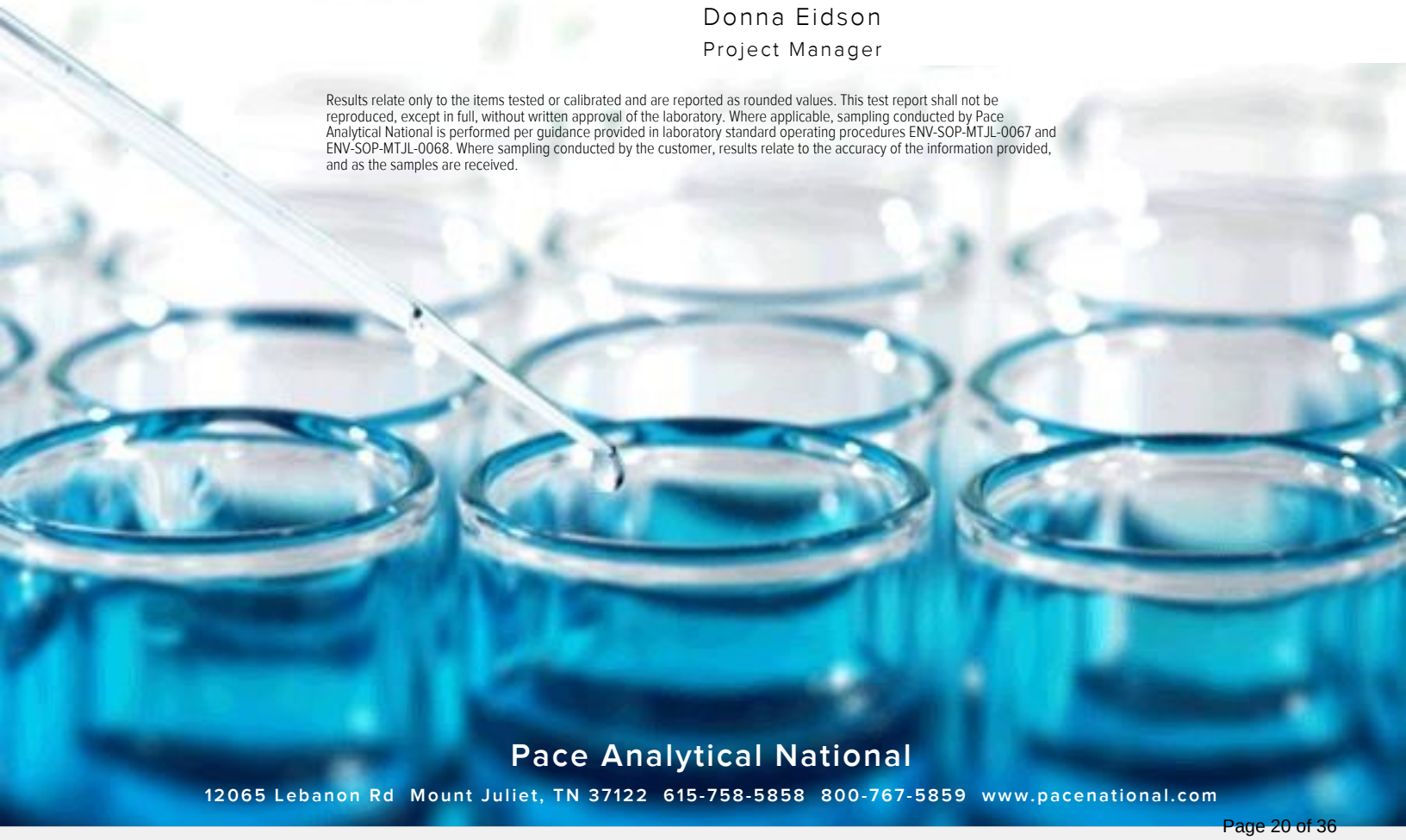


TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

MCWP-MW04S L1527679-01 5

MCWP-MW07S L1527679-02 6

MCWP-MW07D L1527679-03 7

Qc: Quality Control Summary 8

Radiochemistry by Method D5174 8

Gl: Glossary of Terms 9

Al: Accreditations & Locations 10

Sc: Sample Chain of Custody 11

MCWP-MW04S L1527679-01 Non-Potable Water

Collected by	Collected date/time	Received date/time
	08/02/22 13:00	08/20/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method D5174	WG1914421	1	08/22/22 11:13	08/24/22 19:32	RRE	Mt. Juliet, TN

MCWP-MW07S L1527679-02 Non-Potable Water

Collected by	Collected date/time	Received date/time
	08/02/22 11:30	08/20/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method D5174	WG1914421	1	08/22/22 11:13	08/24/22 19:35	RRE	Mt. Juliet, TN

MCWP-MW07D L1527679-03 Non-Potable Water

Collected by	Collected date/time	Received date/time
	08/02/22 11:35	08/20/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method D5174	WG1914421	1	08/22/22 11:13	08/24/22 19:37	RRE	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Donna Eidson
Project Manager

Radiochemistry by Method D5174

Analyte	Result	Qualifier	Uncertainty	RDL	Analysis Date	Batch
	ug/l		+ / -	ug/l	date / time	
Uranium	95.8			1.00	08/24/2022 19:32	WG1914421

Radiochemistry by Method D5174

Analyte	Result	Qualifier	Uncertainty	RDL	Analysis Date	Batch
	ug/l		+ / -	ug/l	date / time	
Uranium	5.77			1.00	08/24/2022 19:35	WG1914421

Radiochemistry by Method D5174

Analyte	Result ug/l	Qualifier	Uncertainty + / -	RDL ug/l	Analysis Date date / time	Batch
Uranium	2.73			1.00	08/24/2022 19:37	WG1914421

Method Blank (MB)

(MB) R3830595-1 08/24/22 18:59

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Uranium	U		1.00	1.00

L1527707-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1527707-01 08/24/22 19:42 • (DUP) R3830595-5 08/24/22 19:09

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Uranium	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3830595-2 08/24/22 19:02

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Uranium	30.0	28.4	94.7	80.0-120	

L1527621-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1527621-01 08/24/22 19:12 • (MS) R3830595-3 08/24/22 19:04 • (MSD) R3830595-4 08/24/22 19:07

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Uranium	20.0	ND	19.4	19.4	96.8	96.9	1	75.0-125			0.102	20

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
	The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Internal Transfer Chain of Custody

A128

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: CA
Cert. Needed: [x] Yes ☐ No
Owner Received Date: 8/4/2022
Results Requested By: 8/26/2022

Workorder: 30511721 **Workorder Name:** EO-466631

Report To	Subcontract To
Nikayla M. Yasurek Pace Analytical Pittsburgh 1638 Roseytown Road Suites 2,3,4 Greensburg, PA 15601 Phone (724)850-5600	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HNO3	Requested Analysis: Total Uranium KPA	LAB USE ONLY: L522679
1	MCWP-MW04S	PS	8/2/2022 13:00	30511721001	Water	1	X	-01
2	MCWP-MW07S	PS	8/2/2022 11:30	30511721002	Water	1	X	-02
3	MCWP-MW07D	PS	8/2/2022 11:35	30511721003	Water	1	X	-03
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	8/19/2216:00	[signature]	8/20/22 0900
2				
3				

Comments

Cooler Temperature on Receipt ____ °C | Custody Seal (Y) or N | Received on Ice (Y) or N | Samples Intact (Y) or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

5 344 4102 5042
23-570-23.5
FR#6

Sample Receipt Checklist

COC Seal Present/Intact:	Y N	If Applicable	
COC Signed/Accurate:	Y N	VOA Zero Headspace:	Y N
Bottles arrive intact:	Y N	Pres.Correct/Check:	Y N
Correct bottles used:	Y N		
Sufficient volume sent:	Y N		
RAD Screen <0.5 mR/hr:	Y N		

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
Pace Analytical - Greensburg
1638 Roseytown Rd.
Suite 2, 3, 4
Greensburg, PA 15601
ATTN: Karen Smetanka
PO #: Required, to be sent via email

Enthalpy Order: EO-466631
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

WO# : 30511721

30511721

Results Due: Standard TAT
Report Level: II
Report To: MDL
EDDs:

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
MCWP-MW04S	02-AUG-2022 13:00	466631-001	1	Water	EPA 900.0 Gross Alpha and Beta	001
			1	Water	EPA 903.1 Radium-226	
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	
MCWP-MW07S	02-AUG-2022 11:30	466631-002	1	Water	EPA 900.0 Gross Alpha and Beta	002
			1	Water	EPA 903.1 Radium-226	
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	
MCWP-MW07D	02-AUG-2022 11:35	466631-003	1	Water	EPA 900.0 Gross Alpha and Beta	003
			1	Water	EPA 903.1 Radium-226	
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	

Notes:	Relinquished By:	Received By:
		FedEx 7775 6904 3385
	Date: 8/3/22 1500	Date: 8/3/22
	Date:	Date:
	Date:	Date: 8-4-22 17:10

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Enthalpy Analytical Project # L1527679

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

Label JA
LIMS Login WPT

Tracking #: 7775 6904 3385

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# 100042 | Date and Initials of person examining contents: 8-5-22 JA

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:		✓		2. no Container preservative type on COC
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.
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: -Pace Containers Used:	✓	✓		10. Tritium - BP1L
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16. 001- Added 5.0 mL HNO_3 to Samples (3 Bottles) 002- Added 5.0 mL HNO_3 to Samples (3 Bottles) 003- Added 2.5 mL HNO_3 to Samples (2 Bottles) 003- Added 5.0 mL HNO_3 to Sample (1 Bottle)
All containers meet method preservation requirements.		✓		Initial when completed JA Date/time of preservation 8-5-22 10:15 Lot # of added preservative DL22-0763
Headspace in VOA Vials (>6mm):			✓	17.
Trip Blank Present:			✓	18.
Trip Blank Custody Seals Present			✓	
Rad Samples Screened < 0.5 mrem/hr	✓			Initial when completed: JA Date: 8-5-22 Survey Meter SN: 1563

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

WO#: 30511721
PM: NMY Due Date: 08/26/22
CLIENT: ENTHALPY

☐ **A check in this box indicates that additional information has been stored in ereports.**

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

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical

Pace Greensburg Lab -Sample Container Count

WO# : 30511721

PM: NMY **Due Date: 08/26/22**

CLIENT: ENTHALPY

L1527679

Client Enthalpy Analytical

Site 60-466631

Profile Number 6364

Notes

Sample Line Item	Matrix	AG1H	AG1S	AG1T	AG2U	AG3S	AG3U	AG5U	AG5T	BG1U	BG2U	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	GCUB	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC	
1	WT											5515	1																
2	WT												1																
3	WT												1																
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

Container Codes

Glass

GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unprserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosul
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	1L amber glass HCl	WGFU	4oz wide jar unpreserved
AG1T	1L amber glass Na Thiosulfate	BG2U	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserve
AG3S	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
AG3U	250mL amber glass unpreserved		

Plastic / Misc.

GCUB	1 Gallon Cubitainer
12GN	1/2 Gallon Cubitainer
SP5T	120mL Coliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unpreserved
BP3S	250mL plastic H2SO4
BP3N	250mL plastic HNO3
BP3U	250mL plastic unpreserved
BP3C	250ml plastic NAOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved

EZI	5g Encore
VOAK	Kit for Volatile Solic
I	Wipe/Swab
ZPLC	Ziploc Bag

WT	Water
SL	Solid
OL	Non-aqueous liquic
WP	Wipe

4527679

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
Pace Analytical - Greensburg
1638 Roseytown Rd.
Suite 2, 3, 4
Greensburg, PA 15601
ATTN: Karen Smetanka
PO #: Required, to be sent via email

Enthalpy Order: EO-466631
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

Results Due: Standard TAT
Report Level: II
Report To: MDL
EDDs:

WO#: 30511721
PM: NMY Due Date: 08/26/22
CLIENT: ENTHALPY

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
MCWP-MW04S	02-AUG-2022 13:00	466631-001	1	Water	EPA 900.0 Gross Alpha and Beta	
			1	Water	EPA 903.1 Radium-226	001
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	
			1	Water	ASTM D5174-97 Uranium	
MCWP-MW07S	02-AUG-2022 11:30	466631-002	1	Water	EPA 900.0 Gross Alpha and Beta	
			1	Water	EPA 903.1 Radium-226	
			2	Water	EPA 904.0 Radium-228	002
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	
			1	Water	ASTM D5174-97 Uranium	
MCWP-MW07D	02-AUG-2022 11:35	466631-003	1	Water	EPA 900.0 Gross Alpha and Beta	
			1	Water	EPA 903.1 Radium-226	
			2	Water	EPA 904.0 Radium-228	003
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	
			1	Water	ASTM D5174-97 Uranium	

Notes:	Relinquished By:	Received By:
		FEDEX 7775 6904 3385
	Date: 8/3/22 1500	Date: 8/3/22
	Date:	Date: 8-5-22 1410
	Date:	Date:

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Enthalpy Project # U527679

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

Label PS
LIMS Login

Tracking #: 7775 7716 4899

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# 1000421 Date and Initials of person examining contents: PS 8/7/22

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC:	✓			5.
-Includes date/time/ID Matrix: WT				
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 sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16. Tritium
All containers meet method preservation requirements.	✓			Initial when completed PS Date/time of preservation; Lot # of added preservative
Headspace in VOA Vials (>6mm):			✓	17.
Trip Blank Present:		✓		18.
Trip Blank Custody Seals Present		✓		
Rad Samples Screened < 0.5 mrem/hr	✓			Initial when completed: PS Date: 8/7/22 Survey Meter SN: 1563

WO#: 30511721
PM: NMY Due Date: 08/26/22
CLIENT: ENTHALPY

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: * only BGIU Bottles Sent added to orginal WO.

☐ A check in this box indicates that additional information has been stored in ereports.

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

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

U527679

30511721

Subcontract Laboratory:
Pace Analytical - Greensburg
1638 Roseytown Rd.
Suite 2, 3, 4
Greensburg, PA 15601
ATTN: Karen Smetanka
PO #: Required, to be sent via email

Enthalpy Order: EO-466631
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

Results Due: Standard TAT
Report Level: II
Report To: MDL
EDDs:

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
MCWP-MW04S	02-AUG-2022 13:00	466631-001	1	Water	EPA 900.0 Gross Alpha and Beta	
			1	Water	EPA 903.1 Radium-226	
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	bottle should arrive 08/05
			1	Water	ASTM D5174-97 Uranium	Analysis missing from original COC
MCWP-MW07S	02-AUG-2022 11:30	466631-002	1	Water	EPA 900.0 Gross Alpha and Beta	
			1	Water	EPA 903.1 Radium-226	
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	bottle should arrive 08/05
			1	Water	ASTM D5174-97 Uranium	Analysis missing from original COC
MCWP-MW07D	02-AUG-2022 11:35	466631-003	1	Water	EPA 900.0 Gross Alpha and Beta	
			1	Water	EPA 903.1 Radium-226	
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	bottle should arrive 08/05
			1	Water	ASTM D5174-97 Uranium	Analysis missing from original COC

Notes:	Relinquished By:	Received By:
	Date:	Date:
	Date:	Date:
	Date:	Date:

Laboratory Job Number 466631

Subcontracted Products

Weck Laboratories, Inc.

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders: 2H03125

Project: EO-466631

Attn: Ranjit Clarke

Client: Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Report Date: 10/03/2022

Received Date: 8/3/2022

Turnaround Time: Normal

Phones: (714) 771-9906

Fax: (714) 771-9933

P.O. #:

Billing Code:

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH #4047 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

Dear Ranjit Clarke,

Enclosed are the results of analyses for samples received 8/03/22 with the Chain-of-Custody document. The samples were received in good condition, at 5.4 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:

Rahul R. Nair
Project Manager

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
MCWP-MW04S	Client	2H03125-01	Water	08/02/22 13:00	
MCWP-MW04S Travel Blank	Client	2H03125-02	Water	08/02/22 13:00	
MCWP-MW07S	Client	2H03125-03	Water	08/02/22 11:30	
MCWP-MW07S Travel Blank	Client	2H03125-04	Water	08/02/22 13:00	
MCWP-MW07D	Client	2H03125-05	Water	08/02/22 11:35	
MCWP-MW07D Travel Blank	Client	2H03125-06	Water	08/02/22 13:00	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:38

Sample Results

Sample: MCWP-MW04S
2H03125-01 (Water)

Sampled: 08/02/22 13:00 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Anions by IC, EPA Method 300.1							
Method: EPA 300.1			**Instr:** LC08_Channel2				
Batch ID: W2H1193 **Preparation:** _NONE (LC)			**Prepared:** 08/15/22 10:47				**Analyst:** JAN
Bromate	ND	140	500	ug/l	100	08/15/22	M-05
Chlorite	ND	220	1000	ug/l	100	08/15/22	M-05
Surrogate(s)							
Dichloroacetate	*99%*	*Conc: 495*	*90-115*			*08/15/22*	
Carbamates and Urea Pesticides							
Method: EPA 531.2			**Instr:** LC11				
Batch ID: W2H1673 **Preparation:** _NONE (LC)			**Prepared:** 08/22/22 13:22				**Analyst:** PJS
3-Hydroxycarbofuran	ND	0.82	2.0	ug/l	1	08/25/22	
Aldicarb	ND	0.58	2.0	ug/l	1	08/25/22	
Aldicarb sulfone	ND	0.73	2.0	ug/l	1	08/25/22	
Aldicarb sulfoxide	ND	1.0	2.0	ug/l	1	08/25/22	
Carbaryl	ND	1.0	2.0	ug/l	1	08/25/22	
Carbofuran	ND	1.0	2.0	ug/l	1	08/25/22	
Methiocarb	ND	1.0	2.0	ug/l	1	08/25/22	
Methomyl	ND	1.3	2.0	ug/l	1	08/25/22	
Oxamyl	ND	1.1	2.0	ug/l	1	08/25/22	
Propoxur (Baygon)	ND	1.4	2.0	ug/l	1	08/25/22	
Surrogate(s)							
BDMC	*86%*	*Conc: 8.56*	*70-130*			*08/25/22*	
Chlorinated Acids Herbicides by GC/ECD							
Method: EPA 515.4			**Instr:** GC08				
Batch ID: W2H0686 **Preparation:** EPA 515.4/Micro Ext. Drtz			**Prepared:** 08/09/22 08:20				**Analyst:** rjg
2,4,5-T	ND	0.030	0.20	ug/l	1	08/11/22	
2,4,5-TP (Silvex)	ND	0.026	0.20	ug/l	1	08/11/22	
2,4-D	ND	0.14	0.40	ug/l	1	08/11/22	
2,4-DB	ND	0.19	2.0	ug/l	1	08/11/22	
3,5-Dichlorobenzoic acid	ND	0.12	1.0	ug/l	1	08/11/22	
Acifluorfen	ND	0.030	0.40	ug/l	1	08/11/22	
Bentazon	ND	0.23	2.0	ug/l	1	08/11/22	
Dalapon	ND	0.11	0.40	ug/l	1	08/11/22	
DCPA	ND	0.029	0.10	ug/l	1	08/11/22	
Dicamba	ND	0.049	0.60	ug/l	1	08/11/22	
Dichloroprop	ND	0.12	0.30	ug/l	1	08/11/22	
Dinoseb	ND	0.033	0.40	ug/l	1	08/11/22	
Pentachlorophenol	ND	0.046	0.20	ug/l	1	08/11/22	
Picloram	ND	0.050	0.60	ug/l	1	08/11/22	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Sample Results

(Continued)

Sample: MCWP-MW04S
2H03125-01 (Water)

Sampled: 08/02/22 13:00 by Client
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Acids Herbicides by GC/ECD (Continued)							
Method: EPA 515.4			**Instr:** GC08				
Batch ID: W2H0686 **Preparation:** EPA 515.4/Micro Ext. Drtz			**Prepared:** 08/09/22 08:20				**Analyst:** rjg
Surrogate(s)							
2,4-DCAA	*91%*	*Conc: 9.06*	*70-130*			*08/11/22*	
Chlorinated Pesticides and/or PCBs by GC/ECD							
Method: EPA 508.1			**Instr:** GC08				
Batch ID: W2H1280 **Preparation:** EPA 508.1/SPE			**Prepared:** 08/16/22 08:08				**Analyst:** rjg
4,4´-DDD	ND	0.0060	0.020	ug/l	2	08/20/22	M-04
4,4´-DDE	ND	0.0037	0.020	ug/l	2	08/20/22	M-04
4,4´-DDT	ND	0.0060	0.020	ug/l	2	08/20/22	M-04
Aldrin	ND	0.0080	0.020	ug/l	2	08/20/22	M-04
alpha-BHC	ND	0.0038	0.020	ug/l	2	08/20/22	M-04
Aroclor 1016	ND	1.0	1.0	ug/l	2	08/20/22	M-04, R-01
Aroclor 1221	ND	1.0	1.0	ug/l	2	08/20/22	M-04, R-01
Aroclor 1232	ND	1.0	1.0	ug/l	2	08/20/22	M-04, R-01
Aroclor 1242	ND	1.0	1.0	ug/l	2	08/20/22	M-04, R-01
Aroclor 1248	ND	1.0	1.0	ug/l	2	08/20/22	M-04, R-01
Aroclor 1254	ND	1.0	1.0	ug/l	2	08/20/22	M-04, R-01
Aroclor 1260	ND	1.0	1.0	ug/l	2	08/20/22	M-04, R-01
beta-BHC	ND	0.0048	0.020	ug/l	2	08/20/22	M-04
Chlordane (tech)	ND	0.20	0.20	ug/l	2	08/20/22	M-04, R-01
Chlorothalonil	ND	0.0030	0.10	ug/l	2	08/20/22	M-04
delta-BHC	ND	0.0060	0.020	ug/l	2	08/20/22	M-04
Dieldrin	ND	0.0060	0.020	ug/l	2	08/20/22	M-04
Endosulfan I	ND	0.0060	0.020	ug/l	2	08/20/22	M-04
Endosulfan II	ND	0.0033	0.020	ug/l	2	08/20/22	M-04
Endosulfan sulfate	ND	0.0060	0.020	ug/l	2	08/20/22	M-04
Endrin	ND	0.020	0.020	ug/l	2	08/20/22	M-04, R-01
Endrin aldehyde	ND	0.0080	0.020	ug/l	2	08/20/22	M-04
gamma-BHC (Lindane)	ND	0.0060	0.020	ug/l	2	08/20/22	M-04
Heptachlor	ND	0.0035	0.020	ug/l	2	08/20/22	M-04
Heptachlor epoxide	ND	0.0038	0.020	ug/l	2	08/20/22	M-04
Hexachlorobenzene	ND	0.0080	0.10	ug/l	2	08/20/22	M-04
Hexachlorocyclopentadiene	ND	0.013	0.10	ug/l	2	08/20/22	M-04
Methoxychlor	ND	0.0060	0.020	ug/l	2	08/20/22	M-04
PCBs, Total	ND		1.0	ug/l	2	08/20/22	M-04
Propachlor	ND	0.040	0.10	ug/l	2	08/20/22	M-04
Toxaphene	ND	2.0	2.0	ug/l	2	08/20/22	M-04, R-01

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:38

Sample Results

(Continued)

Sample: MCWP-MW04S
2H03125-01 (Water)

Sampled: 08/02/22 13:00 by Client
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)							
Method: EPA 508.1			**Instr:** GC08				
Batch ID: W2H1280 **Preparation:** EPA 508.1/SPE			**Prepared:** 08/16/22 08:08				**Analyst:** rjg
Trifluralin	ND	0.0040	0.020	ug/l	2	08/20/22	M-04
Surrogate(s)							
4,4-Dibromobiphenyl	*96%*	*Conc: 0.0963*	*70-130*			*08/20/22*	
Diquat and Paraquat by EPA 549.2							
Method: EPA 549.2			**Instr:** LC10				
Batch ID: W2H0401 **Preparation:** EPA 549.2/SPE			**Prepared:** 08/04/22 07:22				**Analyst:** pjs
Diquat	ND	0.90	4.0	ug/l	1	08/17/22	
Paraquat	ND	1.2	4.0	ug/l	1	08/17/22	
Endothall By EPA 548.1							
Method: EPA 548.1			**Instr:** GCMS06				
Batch ID: W2H0594 **Preparation:** EPA 548.1/SPE			**Prepared:** 08/09/22 08:15				**Analyst:** rmr
Endothall	ND	11	40	ug/l	1	08/13/22	
Glyphosate by EPA 547							
Method: EPA 547			**Instr:** LC11				
Batch ID: W2H0546 **Preparation:** _NONE (LC)			**Prepared:** 08/05/22 10:42				**Analyst:** PJS
Glyphosate	ND	1.8	5.0	ug/l	1	08/05/22	
Haloacetic Acids (HAAs) by GC/ECD							
Method: EPA 552.3			**Instr:** [CALC]				
Batch ID: [CALC] **Preparation:** [CALC]			**Prepared:** 08/05/22 07:47				**Analyst:** ecs
HAA5, Total	ND	0.28	1.0	ug/l	1	08/10/22	
Method: EPA 552.3			**Instr:** GC05				
Batch ID: W2H0521 **Preparation:** EPA 552.3/Micro Ext. Drtz			**Prepared:** 08/05/22 07:47				**Analyst:** ecs
Dibromoacetic acid (dbaa)	ND	0.28	1.0	ug/l	1	08/10/22	
Dichloroacetic acid (dcaa)	ND	0.29	1.0	ug/l	1	08/10/22	
Monobromoacetic acid (mbaa)	ND	0.34	1.0	ug/l	1	08/10/22	
Monochloroacetic acid (mcaa)	ND	0.31	2.0	ug/l	1	08/10/22	
Trichloroacetic acid (tcaa)	ND	0.29	1.0	ug/l	1	08/10/22	
Surrogate(s)							
2-Bromobutyric acid	*113%*	*Conc: 11.3*	*70-130*			*08/10/22*	
Hexavalent Chromium by IC							
Method: EPA 218.6			**Instr:** LC13				
Batch ID: W2H0547 **Preparation:** _NONE (LC)			**Prepared:** 08/05/22 11:02				**Analyst:** JAN
Chromium 6+	ND	0.0079	0.020	ug/l	1	08/05/22	
Nitrosamines by isotopic dilution GC/MS CI Mode							
Method: EPA 1625B			**Instr:** GCMS09				
Batch ID: W2H0652 **Preparation:** EPA 3535/SPE			**Prepared:** 08/08/22 14:07				**Analyst:** mld

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:38

Sample Results

(Continued)

Sample: MCWP-MW04S
2H03125-01 (Water)

Sampled: 08/02/22 13:00 by Client

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Nitrosamines by isotopic dilution GC/MS CI Mode (Continued)							
Method: EPA 1625B			**Instr:** GCMS09				
Batch ID: W2H0652 **Preparation:** EPA 3535/SPE			**Prepared:** 08/08/22 14:07				**Analyst:** mld
N-Nitrosodimethylamine	ND	0.66	2.0	ng/l	1	08/11/22	
PPCPs - Isotope Dilution LCMSMS							
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0443 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:18				**Analyst:** jna
17-b-Estradiol	ND	4.0	4.0	ng/l	1	08/06/22	
Surrogate(s)							
17-b-Estradiol-d3	*140%*	*Conc: 280*	*20-500*			*08/06/22*	
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0444 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:26				**Analyst:** jna
Triclosan	ND	8.0	8.0	ng/l	1	08/04/22	
Surrogate(s)							
Triclosan-d3	*95%*	*Conc: 378*	*20-500*			*08/04/22*	
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0445 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:27				**Analyst:** jna
Caffeine	**7.2**	4.0	4.0	ng/l	1	08/04/22	
DEET	ND	4.0	4.0	ng/l	1	08/04/22	
Surrogate(s)							
Caffeine-13C3	*201%*	*Conc: 402*	*20-500*			*08/04/22*	
DEET-d7	*113%*	*Conc: 22.5*	*20-500*			*08/04/22*	
Semivolatile Organic Compounds by GC/MS							
Method: EPA 525.2			**Instr:** GCMS16				
Batch ID: W2H0720 **Preparation:** EPA 525.2/SPE			**Prepared:** 08/09/22 06:55				**Analyst:** rmr
Alachlor	ND	0.030	0.10	ug/l	1	08/10/22	
Atrazine	ND	0.011	0.10	ug/l	1	08/10/22	
Benzo (a) pyrene	ND	0.020	0.10	ug/l	1	08/10/22	
Bis(2-ethylhexyl)adipate	ND	0.42	2.0	ug/l	1	08/10/22	
Bis(2-ethylhexyl)phthalate	ND	0.41	2.0	ug/l	1	08/10/22	
Bromacil	ND	0.070	0.50	ug/l	1	08/10/22	
Butachlor	ND	0.012	0.10	ug/l	1	08/10/22	
Captan	ND	0.32	1.0	ug/l	1	08/10/22	
Chlorpropham	ND	0.040	0.10	ug/l	1	08/10/22	
Diazinon	ND	0.022	0.10	ug/l	1	08/10/22	
Dimethoate	ND	0.020	0.20	ug/l	1	08/10/22	
Diphenamid	ND	0.030	0.10	ug/l	1	08/10/22	
Disulfoton	ND	0.015	0.10	ug/l	1	08/10/22	
EPTC	ND	0.020	0.10	ug/l	1	08/10/22	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Sample Results

(Continued)

Sample: MCWP-MW04S
2H03125-01 (Water)

Sampled: 08/02/22 13:00 by Client

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organic Compounds by GC/MS (Continued)							
Method: EPA 525.2			**Instr:** GCMS16				
Batch ID: W2H0720 **Preparation:** EPA 525.2/SPE			**Prepared:** 08/09/22 06:55				**Analyst:** rmr
Hexachlorocyclopentadiene	ND	0.092	1.0	ug/l	1	08/10/22	
Metolachlor	ND	0.030	0.10	ug/l	1	08/10/22	
Metribuzin	ND	0.030	0.10	ug/l	1	08/10/22	
Molinate	ND	0.030	0.10	ug/l	1	08/10/22	
Prometryn	ND	0.030	0.10	ug/l	1	08/10/22	
Simazine	ND	0.020	0.10	ug/l	1	08/10/22	
Terbacil	ND	0.090	2.0	ug/l	1	08/10/22	
Thiobencarb	ND	0.030	0.10	ug/l	1	08/10/22	
Trithion	ND	0.020	0.10	ug/l	1	08/10/22	
Surrogate(s)							
1,3-Dimethyl-2-nitrobenzene	*100%*	*Conc: 5.05*	*70-130*			*08/10/22*	
Perylene-d12	*98%*	*Conc: 4.98*	*50-120*			*08/10/22*	
Triphenyl phosphate	*105%*	*Conc: 5.29*	*70-130*			*08/10/22*	
Volatile Organics by P&T and GC/MS							
Method: EPA 524.3			**Instr:** GCMS08				
Batch ID: W2H1133 **Preparation:** Method (P+T)			**Prepared:** 08/12/22 14:47				**Analyst:** ADM
1,2-Dibromo-3-chloropropane	ND	0.0042	0.010	ug/l	1	08/13/22	
1,2-Dibromoethane (EDB)	ND	0.0029	0.020	ug/l	1	08/13/22	
Surrogate(s)							
1,2-Dichlorobenzene-d4	*100%*	*Conc: 0.400*	*70-130*			*08/13/22*	
4-Bromofluorobenzene	*82%*	*Conc: 0.327*	*70-130*			*08/13/22*	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Sample Results

(Continued)

Sample: MCWP-MW04S
2H03125-01RE1 (Water)

Sampled: 08/02/22 13:00 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS							
Method: EPA 625.1			**Instr:** GCMS06				
Batch ID: W2H0772 **Preparation:** EPA 625/L-L SF			**Prepared:** 08/09/22 12:03			**Analyst:** rmr	
1,2,4-Trichlorobenzene	ND	0.49	1.0	ug/l	1	08/13/22	
1,2-Dichlorobenzene	ND	0.46	1.0	ug/l	1	08/13/22	
1,2-Diphenylhydrazine/Azobenzene	ND	0.30	1.0	ug/l	1	08/13/22	
1,3-Dichlorobenzene	ND	0.42	1.0	ug/l	1	08/13/22	
1,4-Dichlorobenzene	ND	0.48	1.0	ug/l	1	08/13/22	
2,4,6-Trichlorophenol	ND	0.22	1.0	ug/l	1	08/13/22	
2,4-Dichlorophenol	ND	0.26	1.0	ug/l	1	08/13/22	
2,4-Dimethylphenol	ND	0.76	1.0	ug/l	1	08/13/22	
2,4-Dinitrophenol	ND	1.9	10	ug/l	1	08/13/22	
2,4-Dinitrotoluene	ND	0.46	1.0	ug/l	1	08/13/22	
2,6-Dinitrotoluene	ND	0.27	1.0	ug/l	1	08/13/22	
2-Chloronaphthalene	ND	0.45	1.0	ug/l	1	08/13/22	
2-Chlorophenol	ND	0.28	1.0	ug/l	1	08/13/22	
2-Methyl-4,6-dinitrophenol	ND	0.50	5.0	ug/l	1	08/13/22	
2-Nitrophenol	ND	0.26	1.0	ug/l	1	08/13/22	
3,3'-Dichlorobenzidine	ND	2.5	5.0	ug/l	1	08/13/22	
4-Bromophenyl phenyl ether	ND	0.36	1.0	ug/l	1	08/13/22	
4-Chloro-3-methylphenol	ND	0.23	1.0	ug/l	1	08/13/22	
4-Chlorophenyl phenyl ether	ND	0.41	1.0	ug/l	1	08/13/22	
4-Nitrophenol	ND	1.2	5.0	ug/l	1	08/13/22	
Acenaphthene	ND	0.38	1.0	ug/l	1	08/13/22	
Acenaphthylene	ND	0.35	1.0	ug/l	1	08/13/22	
Anthracene	ND	0.41	1.0	ug/l	1	08/13/22	
Benzidine	ND	3.2	10	ug/l	1	08/13/22	
Benzo (a) anthracene	ND	0.19	1.0	ug/l	1	08/13/22	
Benzo (a) pyrene	ND	0.39	1.0	ug/l	1	08/13/22	
Benzo (b) fluoranthene	ND	0.46	1.0	ug/l	1	08/13/22	
Benzo (g,h,i) perylene	ND	0.42	2.0	ug/l	1	08/13/22	
Benzo (k) fluoranthene	ND	0.22	1.0	ug/l	1	08/13/22	
Bis(2-chloroethoxy)methane	ND	0.25	1.0	ug/l	1	08/13/22	
Bis(2-chloroethyl)ether	ND	0.27	1.0	ug/l	1	08/13/22	
Bis(2-chloroisopropyl)ether	ND	0.38	1.0	ug/l	1	08/13/22	
Bis(2-ethylhexyl)phthalate	ND	2.3	5.0	ug/l	1	08/13/22	
Butyl benzyl phthalate	ND	0.49	1.0	ug/l	1	08/13/22	
Chrysene	ND	0.19	1.0	ug/l	1	08/13/22	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:38

Sample Results

(Continued)

Sample: MCWP-MW04S

2H03125-01RE1 (Water)

Sampled: 08/02/22 13:00 by Client

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS (Continued)							
Method: EPA 625.1			**Instr:** GCMS06				
Batch ID: W2H0772 **Preparation:** EPA 625/L-L SF			**Prepared:** 08/09/22 12:03			**Analyst:** rmr	
Dibenzo (a,h) anthracene	ND	0.15	2.0	ug/l	1	08/13/22	
Diethyl phthalate	ND	0.35	1.0	ug/l	1	08/13/22	
Dimethyl phthalate	ND	0.18	1.0	ug/l	1	08/13/22	
Di-n-butyl phthalate	ND	0.34	1.0	ug/l	1	08/13/22	
Di-n-octyl phthalate	ND	0.46	1.0	ug/l	1	08/13/22	
Fluoranthene	ND	0.35	1.0	ug/l	1	08/13/22	
Fluorene	ND	0.35	1.0	ug/l	1	08/13/22	
Hexachlorobenzene	ND	0.49	1.0	ug/l	1	08/13/22	
Hexachlorobutadiene	ND	0.47	1.0	ug/l	1	08/13/22	
Hexachlorocyclopentadiene	ND	0.31	5.0	ug/l	1	08/13/22	
Hexachloroethane	ND	0.50	1.0	ug/l	1	08/13/22	
Indeno (1,2,3-cd) pyrene	ND	0.25	2.0	ug/l	1	08/13/22	
Isophorone	ND	0.21	1.0	ug/l	1	08/13/22	
Naphthalene	ND	0.49	1.0	ug/l	1	08/13/22	
Nitrobenzene	ND	0.36	1.0	ug/l	1	08/13/22	
N-Nitrosodimethylamine	ND	0.50	1.0	ug/l	1	08/13/22	
N-Nitrosodi-n-propylamine	ND	0.26	1.0	ug/l	1	08/13/22	
N-Nitrosodiphenylamine	ND	0.19	1.0	ug/l	1	08/13/22	
Pentachlorophenol	ND	0.40	1.0	ug/l	1	08/13/22	
Phenanthrene	ND	0.32	1.0	ug/l	1	08/13/22	
Phenol	ND	0.81	1.0	ug/l	1	08/13/22	
Pyrene	ND	0.25	1.0	ug/l	1	08/13/22	
Surrogate(s)							
2,4,6-Tribromophenol	*81%*	*Conc: 33.3*	*25-120*			*08/13/22*	
2-Fluorobiphenyl	*72%*	*Conc: 14.9*	*22-120*			*08/13/22*	
2-Fluorophenol	*47%*	*Conc: 19.2*	*17-120*			*08/13/22*	
Nitrobenzene-d5	*78%*	*Conc: 16.0*	*47-120*			*08/13/22*	
Phenol-d5	*31%*	*Conc: 12.8*	*12-120*			*08/13/22*	
Terphenyl-d14	*88%*	*Conc: 18.1*	*44-129*			*08/13/22*	
PPCPs - Isotope Dilution LCMSMS							
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0443 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:18			**Analyst:** jna	
Sucralose	**5000**	400	400	ng/l	20	08/08/22	M-06
Surrogate(s)							
Sucralose-d6	*64%*	*Conc: 643*	*20-500*			*08/08/22*	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Sample Results

(Continued)

Sample: MCWP-MW04S Travel Blank
2H03125-02 (Water)

Sampled: 08/02/22 13:00 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organics by P&T and GC/MS							
Method: EPA 524.3			**Instr:** GCMS08				
Batch ID: W2H1133 **Preparation:** Method (P+T)			**Prepared:** 08/12/22 14:47			**Analyst:** ADM	
1,2-Dibromo-3-chloropropane	ND	0.0042	0.010	ug/l	1	08/13/22	
1,2-Dibromoethane (EDB)	ND	0.0029	0.020	ug/l	1	08/13/22	
Surrogate(s)							
1,2-Dichlorobenzene-d4	*100%*	*Conc: 0.401*	*70-130*			*08/13/22*	
4-Bromofluorobenzene	*87%*	*Conc: 0.346*	*70-130*			*08/13/22*	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:38

Sample Results

(Continued)

Sample: MCWP-MW07S
2H03125-03 (Water)

Sampled: 08/02/22 11:30 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Anions by IC, EPA Method 300.1							
Method: EPA 300.1			**Instr:** LC08_Channel2				
Batch ID: W2H1193 **Preparation:** _NONE (LC)			**Prepared:** 08/15/22 10:47			**Analyst:** JAN	
Bromate	ND	140	500	ug/l	100	08/15/22	M-05
Chlorite	ND	220	1000	ug/l	100	08/15/22	M-05
Surrogate(s)							
Dichloroacetate	*104%*	*Conc: 521*	*90-115*			*08/15/22*	
Carbamates and Urea Pesticides							
Method: EPA 531.2			**Instr:** LC11				
Batch ID: W2H1255 **Preparation:** _NONE (LC)			**Prepared:** 08/15/22 18:32			**Analyst:** PJS	
3-Hydroxycarbofuran	ND	0.82	2.0	ug/l	1	08/16/22	
Aldicarb	ND	0.58	2.0	ug/l	1	08/16/22	
Aldicarb sulfone	ND	0.73	2.0	ug/l	1	08/16/22	
Aldicarb sulfoxide	ND	1.0	2.0	ug/l	1	08/16/22	
Carbaryl	ND	1.0	2.0	ug/l	1	08/16/22	
Carbofuran	ND	1.0	2.0	ug/l	1	08/16/22	
Methiocarb	ND	1.0	2.0	ug/l	1	08/16/22	
Methomyl	ND	1.3	2.0	ug/l	1	08/16/22	
Oxamyl	ND	1.1	2.0	ug/l	1	08/16/22	
Propoxur (Baygon)	ND	1.4	2.0	ug/l	1	08/16/22	
Surrogate(s)							
BDMC	*81%*	*Conc: 8.08*	*70-130*			*08/16/22*	
Chlorinated Acids Herbicides by GC/ECD							
Method: EPA 515.4			**Instr:** GC08				
Batch ID: W2H0686 **Preparation:** EPA 515.4/Micro Ext. Drtz			**Prepared:** 08/09/22 08:20			**Analyst:** rjg	
2,4,5-T	ND	0.030	0.20	ug/l	1	08/11/22	
2,4,5-TP (Silvex)	ND	0.026	0.20	ug/l	1	08/11/22	
2,4-D	ND	0.14	0.40	ug/l	1	08/11/22	
2,4-DB	ND	0.19	2.0	ug/l	1	08/11/22	
3,5-Dichlorobenzoic acid	ND	0.12	1.0	ug/l	1	08/11/22	
Acifluorfen	ND	0.030	0.40	ug/l	1	08/11/22	
Bentazon	ND	0.23	2.0	ug/l	1	08/11/22	
Dalapon	ND	0.11	0.40	ug/l	1	08/11/22	
DCPA	ND	0.029	0.10	ug/l	1	08/11/22	
Dicamba	ND	0.049	0.60	ug/l	1	08/11/22	
Dichloroprop	ND	0.12	0.30	ug/l	1	08/11/22	
Dinoseb	ND	0.033	0.40	ug/l	1	08/11/22	
Pentachlorophenol	ND	0.046	0.20	ug/l	1	08/11/22	
Picloram	ND	0.050	0.60	ug/l	1	08/11/22	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Sample Results

(Continued)

Sample: MCWP-MW07S
2H03125-03 (Water)

Sampled: 08/02/22 11:30 by Client
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Acids Herbicides by GC/ECD (Continued)							
Method: EPA 515.4			**Instr:** GC08				
Batch ID: W2H0686 **Preparation:** EPA 515.4/Micro Ext. Drtz			**Prepared:** 08/09/22 08:20			**Analyst:** rjg	
Surrogate(s)							
2,4-DCAA	*88%*	*Conc: 8.75*	*70-130*			*08/11/22*	
Chlorinated Pesticides and/or PCBs by GC/ECD							
Method: EPA 508.1			**Instr:** GC08				
Batch ID: W2H1280 **Preparation:** EPA 508.1/SPE			**Prepared:** 08/16/22 08:08			**Analyst:** rjg	
4,4´-DDD	ND	0.0030	0.010	ug/l	1	08/20/22	
4,4´-DDE	ND	0.0018	0.010	ug/l	1	08/20/22	
4,4´-DDT	ND	0.0030	0.010	ug/l	1	08/20/22	
Aldrin	ND	0.0040	0.010	ug/l	1	08/20/22	
alpha-BHC	ND	0.0019	0.010	ug/l	1	08/20/22	
Aroclor 1016	ND	0.50	0.50	ug/l	1	08/20/22	R-01
Aroclor 1221	ND	0.50	0.50	ug/l	1	08/20/22	R-01
Aroclor 1232	ND	0.50	0.50	ug/l	1	08/20/22	R-01
Aroclor 1242	ND	0.50	0.50	ug/l	1	08/20/22	R-01
Aroclor 1248	ND	0.50	0.50	ug/l	1	08/20/22	R-01
Aroclor 1254	ND	0.50	0.50	ug/l	1	08/20/22	R-01
Aroclor 1260	ND	0.50	0.50	ug/l	1	08/20/22	R-01
beta-BHC	ND	0.0024	0.010	ug/l	1	08/20/22	
Chlordane (tech)	ND	0.10	0.10	ug/l	1	08/20/22	R-01
Chlorothalonil	ND	0.0015	0.050	ug/l	1	08/20/22	
delta-BHC	ND	0.0030	0.010	ug/l	1	08/20/22	
Dieldrin	ND	0.0030	0.010	ug/l	1	08/20/22	
Endosulfan I	ND	0.0030	0.010	ug/l	1	08/20/22	
Endosulfan II	ND	0.0016	0.010	ug/l	1	08/20/22	
Endosulfan sulfate	ND	0.0030	0.010	ug/l	1	08/20/22	
Endrin	ND	0.0013	0.010	ug/l	1	08/20/22	
Endrin aldehyde	ND	0.0040	0.010	ug/l	1	08/20/22	
gamma-BHC (Lindane)	ND	0.0030	0.010	ug/l	1	08/20/22	
Heptachlor	ND	0.0017	0.010	ug/l	1	08/20/22	
Heptachlor epoxide	ND	0.0019	0.010	ug/l	1	08/20/22	
Hexachlorobenzene	ND	0.0040	0.050	ug/l	1	08/20/22	
Hexachlorocyclopentadiene	ND	0.0065	0.050	ug/l	1	08/20/22	
Methoxychlor	ND	0.0030	0.010	ug/l	1	08/20/22	
PCBs, Total	ND		0.50	ug/l	1	08/20/22	
Propachlor	ND	0.020	0.050	ug/l	1	08/20/22	
Toxaphene	ND	1.0	1.0	ug/l	1	08/20/22	R-01

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:38

Sample Results

(Continued)

Sample: MCWP-MW07S
2H03125-03 (Water)

Sampled: 08/02/22 11:30 by Client
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)							
Method: EPA 508.1			**Instr:** GC08				
Batch ID: W2H1280 **Preparation:** EPA 508.1/SPE			**Prepared:** 08/16/22 08:08				**Analyst:** rjg
Trifluralin	ND	0.0020	0.010	ug/l	1	08/20/22	
Surrogate(s)							
4,4-Dibromobiphenyl	*99%*	*Conc: 0.101*	*70-130*			*08/20/22*	
Diquat and Paraquat by EPA 549.2							
Method: EPA 549.2			**Instr:** LC10				
Batch ID: W2H0401 **Preparation:** EPA 549.2/SPE			**Prepared:** 08/04/22 07:22				**Analyst:** pjs
Diquat	ND	0.90	4.0	ug/l	1	08/17/22	
Paraquat	ND	1.2	4.0	ug/l	1	08/17/22	
Endothall By EPA 548.1							
Method: EPA 548.1			**Instr:** GCMS06				
Batch ID: W2H0594 **Preparation:** EPA 548.1/SPE			**Prepared:** 08/09/22 08:15				**Analyst:** rmr
Endothall	ND	11	40	ug/l	1	08/11/22	
Glyphosate by EPA 547							
Method: EPA 547			**Instr:** LC11				
Batch ID: W2H0546 **Preparation:** _NONE (LC)			**Prepared:** 08/05/22 10:42				**Analyst:** PJS
Glyphosate	ND	1.8	5.0	ug/l	1	08/05/22	
Haloacetic Acids (HAAs) by GC/ECD							
Method: EPA 552.3			**Instr:** [CALC]				
Batch ID: [CALC] **Preparation:** [CALC]			**Prepared:** 08/05/22 07:47				**Analyst:** ecs
HAA5, Total	ND	0.28	1.0	ug/l	1	08/10/22	
Method: EPA 552.3			**Instr:** GC05				
Batch ID: W2H0521 **Preparation:** EPA 552.3/Micro Ext. Drtz			**Prepared:** 08/05/22 07:47				**Analyst:** ecs
Dibromoacetic acid (dbaa)	ND	0.28	1.0	ug/l	1	08/10/22	
Dichloroacetic acid (dcaa)	ND	0.29	1.0	ug/l	1	08/10/22	
Monobromoacetic acid (mbaa)	ND	0.34	1.0	ug/l	1	08/10/22	
Monochloroacetic acid (mcaa)	**0.42**	0.31	2.0	ug/l	1	08/10/22	J
Trichloroacetic acid (tcaa)	ND	0.29	1.0	ug/l	1	08/10/22	
Surrogate(s)							
2-Bromobutyric acid	*104%*	*Conc: 10.4*	*70-130*			*08/10/22*	
Hexavalent Chromium by IC							
Method: EPA 218.6			**Instr:** LC13				
Batch ID: W2H0547 **Preparation:** _NONE (LC)			**Prepared:** 08/05/22 11:02				**Analyst:** JAN
Chromium 6+	**0.39**	0.0079	0.020	ug/l	1	08/05/22	
Nitrosamines by isotopic dilution GC/MS CI Mode							
Method: EPA 1625B			**Instr:** GCMS09				
Batch ID: W2H0652 **Preparation:** EPA 3535/SPE			**Prepared:** 08/08/22 14:07				**Analyst:** mld

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:38

Sample Results

(Continued)

Sample: MCWP-MW07S
2H03125-03 (Water)

Sampled: 08/02/22 11:30 by Client

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Nitrosamines by isotopic dilution GC/MS CI Mode (Continued)							
Method: EPA 1625B			**Instr:** GCMS09				
Batch ID: W2H0652 **Preparation:** EPA 3535/SPE			**Prepared:** 08/08/22 14:07				**Analyst:** mld
N-Nitrosodimethylamine	**0.67**	0.66	2.0	ng/l	1	08/11/22	J
PPCPs - Isotope Dilution LCMSMS							
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0443 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:18				**Analyst:** jna
17-b-Estradiol	ND	4.0	4.0	ng/l	1	08/06/22	
Surrogate(s)							
17-b-Estradiol-d3	*109%*	*Conc: 217*	*20-500*			*08/06/22*	
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0444 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:26				**Analyst:** jna
Triclosan	ND	8.0	8.0	ng/l	1	08/04/22	
Surrogate(s)							
Triclosan-d3	*78%*	*Conc: 310*	*20-500*			*08/04/22*	
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0445 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:27				**Analyst:** jna
Caffeine	**18**	4.0	4.0	ng/l	1	08/04/22	
DEET	**15**	4.0	4.0	ng/l	1	08/04/22	
Surrogate(s)							
Caffeine-13C3	*101%*	*Conc: 202*	*20-500*			*08/04/22*	
DEET-d7	*93%*	*Conc: 18.6*	*20-500*			*08/04/22*	
Semivolatile Organic Compounds by GC/MS							
Method: EPA 525.2			**Instr:** GCMS16				
Batch ID: W2H0720 **Preparation:** EPA 525.2/SPE			**Prepared:** 08/09/22 06:55				**Analyst:** rmr
Alachlor	ND	0.030	0.10	ug/l	1	08/10/22	
Atrazine	ND	0.011	0.10	ug/l	1	08/10/22	
Benzo (a) pyrene	ND	0.020	0.10	ug/l	1	08/10/22	
Bis(2-ethylhexyl)adipate	ND	0.42	2.0	ug/l	1	08/10/22	
Bis(2-ethylhexyl)phthalate	ND	0.41	2.0	ug/l	1	08/10/22	
Bromacil	ND	0.070	0.50	ug/l	1	08/10/22	
Butachlor	ND	0.012	0.10	ug/l	1	08/10/22	
Captan	ND	0.32	1.0	ug/l	1	08/10/22	
Chlorpropham	ND	0.040	0.10	ug/l	1	08/10/22	
Diazinon	ND	0.022	0.10	ug/l	1	08/10/22	
Dimethoate	ND	0.020	0.20	ug/l	1	08/10/22	
Diphenamid	ND	0.030	0.10	ug/l	1	08/10/22	
Disulfoton	ND	0.015	0.10	ug/l	1	08/10/22	
EPTC	ND	0.020	0.10	ug/l	1	08/10/22	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Sample Results

(Continued)

Sample: MCWP-MW07S
2H03125-03 (Water)

Sampled: 08/02/22 11:30 by Client

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organic Compounds by GC/MS (Continued)							
Method: EPA 525.2			**Instr:** GCMS16				
Batch ID: W2H0720 **Preparation:** EPA 525.2/SPE			**Prepared:** 08/09/22 06:55				**Analyst:** rmr
Hexachlorocyclopentadiene	ND	0.092	1.0	ug/l	1	08/10/22	
Metolachlor	ND	0.030	0.10	ug/l	1	08/10/22	
Metribuzin	ND	0.030	0.10	ug/l	1	08/10/22	
Molinate	ND	0.030	0.10	ug/l	1	08/10/22	
Prometryn	ND	0.030	0.10	ug/l	1	08/10/22	
Simazine	ND	0.020	0.10	ug/l	1	08/10/22	
Terbacil	ND	0.090	2.0	ug/l	1	08/10/22	
Thiobencarb	ND	0.030	0.10	ug/l	1	08/10/22	
Trithion	ND	0.020	0.10	ug/l	1	08/10/22	
Surrogate(s)							
1,3-Dimethyl-2-nitrobenzene	*103%*	*Conc: 5.22*	*70-130*			*08/10/22*	
Perylene-d12	*101%*	*Conc: 5.10*	*50-120*			*08/10/22*	
Triphenyl phosphate	*109%*	*Conc: 5.54*	*70-130*			*08/10/22*	
Volatile Organics by P&T and GC/MS							
Method: EPA 524.3			**Instr:** GCMS08				
Batch ID: W2H1133 **Preparation:** Method (P+T)			**Prepared:** 08/12/22 14:47				**Analyst:** ADM
1,2-Dibromo-3-chloropropane	ND	0.0042	0.010	ug/l	1	08/13/22	
1,2-Dibromoethane (EDB)	ND	0.0029	0.020	ug/l	1	08/13/22	
Surrogate(s)							
1,2-Dichlorobenzene-d4	*100%*	*Conc: 0.399*	*70-130*			*08/13/22*	
4-Bromofluorobenzene	*88%*	*Conc: 0.351*	*70-130*			*08/13/22*	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Sample Results

(Continued)

Sample: MCWP-MW07S
2H03125-03RE1 (Water)

Sampled: 08/02/22 11:30 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS							
Method: EPA 625.1			**Instr:** GCMS06				
Batch ID: W2H0772 **Preparation:** EPA 625/L-L SF			**Prepared:** 08/09/22 12:03			**Analyst:** rmr	
1,2,4-Trichlorobenzene	ND	0.49	1.0	ug/l	1	08/13/22	
1,2-Dichlorobenzene	ND	0.46	1.0	ug/l	1	08/13/22	
1,2-Diphenylhydrazine/Azobenzene	ND	0.30	1.0	ug/l	1	08/13/22	
1,3-Dichlorobenzene	ND	0.42	1.0	ug/l	1	08/13/22	
1,4-Dichlorobenzene	ND	0.48	1.0	ug/l	1	08/13/22	
2,4,6-Trichlorophenol	ND	0.22	1.0	ug/l	1	08/13/22	
2,4-Dichlorophenol	ND	0.26	1.0	ug/l	1	08/13/22	
2,4-Dimethylphenol	ND	0.76	1.0	ug/l	1	08/13/22	
2,4-Dinitrophenol	ND	1.9	10	ug/l	1	08/13/22	
2,4-Dinitrotoluene	ND	0.46	1.0	ug/l	1	08/13/22	
2,6-Dinitrotoluene	ND	0.27	1.0	ug/l	1	08/13/22	
2-Chloronaphthalene	ND	0.45	1.0	ug/l	1	08/13/22	
2-Chlorophenol	ND	0.28	1.0	ug/l	1	08/13/22	
2-Methyl-4,6-dinitrophenol	ND	0.50	5.0	ug/l	1	08/13/22	
2-Nitrophenol	ND	0.26	1.0	ug/l	1	08/13/22	
3,3'-Dichlorobenzidine	ND	2.5	5.0	ug/l	1	08/13/22	
4-Bromophenyl phenyl ether	ND	0.36	1.0	ug/l	1	08/13/22	
4-Chloro-3-methylphenol	ND	0.23	1.0	ug/l	1	08/13/22	
4-Chlorophenyl phenyl ether	ND	0.41	1.0	ug/l	1	08/13/22	
4-Nitrophenol	ND	1.2	5.0	ug/l	1	08/13/22	
Acenaphthene	ND	0.38	1.0	ug/l	1	08/13/22	
Acenaphthylene	ND	0.35	1.0	ug/l	1	08/13/22	
Anthracene	ND	0.41	1.0	ug/l	1	08/13/22	
Benzidine	ND	3.2	10	ug/l	1	08/13/22	
Benzo (a) anthracene	ND	0.19	1.0	ug/l	1	08/13/22	
Benzo (a) pyrene	ND	0.39	1.0	ug/l	1	08/13/22	
Benzo (b) fluoranthene	ND	0.46	1.0	ug/l	1	08/13/22	
Benzo (g,h,i) perylene	ND	0.42	2.0	ug/l	1	08/13/22	
Benzo (k) fluoranthene	ND	0.22	1.0	ug/l	1	08/13/22	
Bis(2-chloroethoxy)methane	ND	0.25	1.0	ug/l	1	08/13/22	
Bis(2-chloroethyl)ether	ND	0.27	1.0	ug/l	1	08/13/22	
Bis(2-chloroisopropyl)ether	ND	0.38	1.0	ug/l	1	08/13/22	
Bis(2-ethylhexyl)phthalate	ND	2.3	5.0	ug/l	1	08/13/22	
Butyl benzyl phthalate	ND	0.49	1.0	ug/l	1	08/13/22	
Chrysene	**0.22**	0.19	1.0	ug/l	1	08/13/22	J

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:38

Sample Results

(Continued)

Sample: MCWP-MW07S
2H03125-03RE1 (Water)

Sampled: 08/02/22 11:30 by Client

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS (Continued)							
Method: EPA 625.1			**Instr:** GCMS06				
Batch ID: W2H0772 **Preparation:** EPA 625/L-L SF			**Prepared:** 08/09/22 12:03			**Analyst:** rmr	
Dibenzo (a,h) anthracene	**0.29**	0.15	2.0	ug/l	1	08/13/22	J
Diethyl phthalate	ND	0.35	1.0	ug/l	1	08/13/22	
Dimethyl phthalate	ND	0.18	1.0	ug/l	1	08/13/22	
Di-n-butyl phthalate	ND	0.34	1.0	ug/l	1	08/13/22	
Di-n-octyl phthalate	ND	0.46	1.0	ug/l	1	08/13/22	
Fluoranthene	ND	0.35	1.0	ug/l	1	08/13/22	
Fluorene	ND	0.35	1.0	ug/l	1	08/13/22	
Hexachlorobenzene	ND	0.49	1.0	ug/l	1	08/13/22	
Hexachlorobutadiene	ND	0.47	1.0	ug/l	1	08/13/22	
Hexachlorocyclopentadiene	ND	0.31	5.0	ug/l	1	08/13/22	
Hexachloroethane	ND	0.50	1.0	ug/l	1	08/13/22	
Indeno (1,2,3-cd) pyrene	**0.45**	0.25	2.0	ug/l	1	08/13/22	J
Isophorone	ND	0.21	1.0	ug/l	1	08/13/22	
Naphthalene	ND	0.49	1.0	ug/l	1	08/13/22	
Nitrobenzene	ND	0.36	1.0	ug/l	1	08/13/22	
N-Nitrosodimethylamine	ND	0.50	1.0	ug/l	1	08/13/22	
N-Nitrosodi-n-propylamine	ND	0.26	1.0	ug/l	1	08/13/22	
N-Nitrosodiphenylamine	ND	0.19	1.0	ug/l	1	08/13/22	
Pentachlorophenol	ND	0.40	1.0	ug/l	1	08/13/22	
Phenanthrene	ND	0.32	1.0	ug/l	1	08/13/22	
Phenol	ND	0.81	1.0	ug/l	1	08/13/22	
Pyrene	ND	0.25	1.0	ug/l	1	08/13/22	
Surrogate(s)							
2,4,6-Tribromophenol	*75%*	*Conc: 29.2*	*25-120*			*08/13/22*	
2-Fluorobiphenyl	*72%*	*Conc: 14.0*	*22-120*			*08/13/22*	
2-Fluorophenol	*49%*	*Conc: 19.2*	*17-120*			*08/13/22*	
Nitrobenzene-d5	*79%*	*Conc: 15.6*	*47-120*			*08/13/22*	
Phenol-d5	*32%*	*Conc: 12.5*	*12-120*			*08/13/22*	
Terphenyl-d14	*96%*	*Conc: 18.9*	*44-129*			*08/13/22*	
PPCPs - Isotope Dilution LCMSMS							
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0443 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:18			**Analyst:** jna	
Sucralose	**1500**	200	200	ng/l	10	08/08/22	M-06
Surrogate(s)							
Sucralose-d6	*42%*	*Conc: 418*	*20-500*			*08/08/22*	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Sample Results

(Continued)

Sample: MCWP-MW07S Travel Blank
2H03125-04 (Water)

Sampled: 08/02/22 13:00 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organics by P&T and GC/MS							
Method: EPA 524.3			**Instr:** GCMS08				
Batch ID: W2H1133 **Preparation:** Method (P+T)			**Prepared:** 08/12/22 14:47			**Analyst:** ADM	
1,2-Dibromo-3-chloropropane	ND	0.0042	0.010	ug/l	1	08/13/22	
1,2-Dibromoethane (EDB)	ND	0.0029	0.020	ug/l	1	08/13/22	
Surrogate(s)							
1,2-Dichlorobenzene-d4	*100%*	*Conc: 0.399*	*70-130*			*08/13/22*	
4-Bromofluorobenzene	*84%*	*Conc: 0.336*	*70-130*			*08/13/22*	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Sample Results

(Continued)

Sample: MCWP-MW07D
2H03125-05 (Water)

Sampled: 08/02/22 11:35 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS							
Method: EPA 625.1			**Instr:** GCMS06				
Batch ID: W2H0406 **Preparation:** EPA 625/L-L SF			**Prepared:** 08/04/22 08:20				**Analyst:** rmr
1,2,4-Trichlorobenzene	ND	0.49	1.0	ug/l	1	08/09/22	
1,2-Dichlorobenzene	ND	0.46	1.0	ug/l	1	08/09/22	
1,2-Diphenylhydrazine/Azobenzene	ND	0.30	1.0	ug/l	1	08/09/22	
1,3-Dichlorobenzene	ND	0.42	1.0	ug/l	1	08/09/22	
1,4-Dichlorobenzene	ND	0.48	1.0	ug/l	1	08/09/22	
2,4,6-Trichlorophenol	ND	0.22	1.0	ug/l	1	08/09/22	
2,4-Dichlorophenol	ND	0.26	1.0	ug/l	1	08/09/22	
2,4-Dimethylphenol	ND	0.76	1.0	ug/l	1	08/09/22	
2,4-Dinitrophenol	ND	1.9	5.0	ug/l	1	08/09/22	
2,4-Dinitrotoluene	ND	0.46	1.0	ug/l	1	08/09/22	
2,6-Dinitrotoluene	ND	0.27	1.0	ug/l	1	08/09/22	
2-Chloronaphthalene	ND	0.45	1.0	ug/l	1	08/09/22	
2-Chlorophenol	ND	0.28	1.0	ug/l	1	08/09/22	
2-Methyl-4,6-dinitrophenol	ND	0.50	1.0	ug/l	1	08/09/22	
2-Nitrophenol	ND	0.26	1.0	ug/l	1	08/09/22	
3,3'-Dichlorobenzidine	ND	2.5	5.0	ug/l	1	08/09/22	
4-Bromophenyl phenyl ether	ND	0.36	1.0	ug/l	1	08/09/22	
4-Chloro-3-methylphenol	ND	0.23	1.0	ug/l	1	08/09/22	
4-Chlorophenyl phenyl ether	ND	0.41	1.0	ug/l	1	08/09/22	
4-Nitrophenol	ND	1.2	2.0	ug/l	1	08/09/22	
Acenaphthene	ND	0.38	1.0	ug/l	1	08/09/22	
Acenaphthylene	ND	0.35	1.0	ug/l	1	08/09/22	
Anthracene	ND	0.41	1.0	ug/l	1	08/09/22	
Benzidine	ND	3.2	10	ug/l	1	08/09/22	
Benzo (a) anthracene	ND	0.19	1.0	ug/l	1	08/09/22	
Benzo (a) pyrene	ND	0.39	1.0	ug/l	1	08/09/22	
Benzo (b) fluoranthene	ND	0.46	1.0	ug/l	1	08/09/22	
Benzo (g,h,i) perylene	ND	0.42	1.0	ug/l	1	08/09/22	
Benzo (k) fluoranthene	ND	0.22	1.0	ug/l	1	08/09/22	
Bis(2-chloroethoxy)methane	ND	0.25	1.0	ug/l	1	08/09/22	
Bis(2-chloroethyl)ether	ND	0.27	1.0	ug/l	1	08/09/22	
Bis(2-chloroisopropyl)ether	ND	0.38	1.0	ug/l	1	08/09/22	
Bis(2-ethylhexyl)phthalate	ND	2.3	5.0	ug/l	1	08/09/22	
Butyl benzyl phthalate	ND	0.49	1.0	ug/l	1	08/09/22	
Chrysene	ND	0.19	1.0	ug/l	1	08/09/22	

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:38

Sample Results

(Continued)

Sample: MCWP-MW07D
2H03125-05 (Water)

Sampled: 08/02/22 11:35 by Client

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS (Continued)							
Method: EPA 625.1				**Instr:** GCMS06			
Batch ID: W2H0406 **Preparation:** EPA 625/L-L SF				**Prepared:** 08/04/22 08:20			**Analyst:** rmr
Dibenzo (a,h) anthracene	ND	0.15	1.0	ug/l	1	08/09/22	
Diethyl phthalate	ND	0.35	1.0	ug/l	1	08/09/22	
Dimethyl phthalate	ND	0.18	1.0	ug/l	1	08/09/22	
Di-n-butyl phthalate	ND	0.34	1.0	ug/l	1	08/09/22	
Di-n-octyl phthalate	ND	0.46	1.0	ug/l	1	08/09/22	
Fluoranthene	ND	0.35	1.0	ug/l	1	08/09/22	
Fluorene	ND	0.35	1.0	ug/l	1	08/09/22	
Hexachlorobenzene	ND	0.49	1.0	ug/l	1	08/09/22	
Hexachlorobutadiene	ND	0.47	1.0	ug/l	1	08/09/22	
Hexachlorocyclopentadiene	ND	0.31	5.0	ug/l	1	08/09/22	
Hexachloroethane	ND	0.50	1.0	ug/l	1	08/09/22	
Indeno (1,2,3-cd) pyrene	ND	0.25	1.0	ug/l	1	08/09/22	
Isophorone	ND	0.21	1.0	ug/l	1	08/09/22	
Naphthalene	ND	0.49	1.0	ug/l	1	08/09/22	
Nitrobenzene	ND	0.36	1.0	ug/l	1	08/09/22	
N-Nitrosodimethylamine	ND	0.50	1.0	ug/l	1	08/09/22	
N-Nitrosodi-n-propylamine	ND	0.26	1.0	ug/l	1	08/09/22	
N-Nitrosodiphenylamine	ND	0.19	1.0	ug/l	1	08/09/22	
Pentachlorophenol	ND	0.40	1.0	ug/l	1	08/09/22	
Phenanthrene	ND	0.32	1.0	ug/l	1	08/09/22	
Phenol	ND	0.81	1.0	ug/l	1	08/09/22	
Pyrene	ND	0.25	1.0	ug/l	1	08/09/22	
Surrogate(s)							
2,4,6-Tribromophenol	*84%*	*Conc: 31.8*	*25-120*			*08/09/22*	
2-Fluorobiphenyl	*87%*	*Conc: 16.5*	*22-120*			*08/09/22*	
2-Fluorophenol	*58%*	*Conc: 22.0*	*17-120*			*08/09/22*	
Nitrobenzene-d5	*104%*	*Conc: 19.8*	*47-120*			*08/09/22*	
Phenol-d5	*41%*	*Conc: 15.4*	*12-120*			*08/09/22*	
Terphenyl-d14	*101%*	*Conc: 19.2*	*44-129*			*08/09/22*	
Anions by IC, EPA Method 300.1							
Method: EPA 300.1				**Instr:** LC08_Channel2			
Batch ID: W2H1193 **Preparation:** _NONE (LC)				**Prepared:** 08/15/22 10:47			**Analyst:** JAN
Bromate	ND	140	500	ug/l	100	08/16/22	M-05
Chlorite	ND	220	1000	ug/l	100	08/16/22	M-05
Surrogate(s)							
Dichloroacetate	*106%*	*Conc: 532*	*90-115*			*08/16/22*	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:38

Sample Results

(Continued)

Sample: MCWP-MW07D
2H03125-05 (Water)

Sampled: 08/02/22 11:35 by Client

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Anions by IC, EPA Method 300.1 (Continued)							
Method: EPA 300.1			**Instr:** LC08_Channel2				
Batch ID: W2H1193 **Preparation:** _NONE (LC)			**Prepared:** 08/15/22 10:47				**Analyst:** JAN
Carbamates and Urea Pesticides							
Method: EPA 531.2			**Instr:** LC11				
Batch ID: W2H1255 **Preparation:** _NONE (LC)			**Prepared:** 08/15/22 18:32				**Analyst:** PJS
3-Hydroxycarbofuran	ND	0.82	2.0	ug/l	1	08/16/22	
Aldicarb	ND	0.58	2.0	ug/l	1	08/16/22	
Aldicarb sulfone	ND	0.73	2.0	ug/l	1	08/16/22	
Aldicarb sulfoxide	ND	1.0	2.0	ug/l	1	08/16/22	
Carbaryl	ND	1.0	2.0	ug/l	1	08/16/22	
Carbofuran	ND	1.0	2.0	ug/l	1	08/16/22	
Methiocarb	ND	1.0	2.0	ug/l	1	08/16/22	
Methomyl	ND	1.3	2.0	ug/l	1	08/16/22	
Oxamyl	ND	1.1	2.0	ug/l	1	08/16/22	
Propoxur (Baygon)	ND	1.4	2.0	ug/l	1	08/16/22	
Surrogate(s)							
BDMC	*82%*	*Conc: 8.19*	*70-130*			*08/16/22*	
Chlorinated Acids Herbicides by GC/ECD							
Method: EPA 515.4			**Instr:** GC08				
Batch ID: W2H0686 **Preparation:** EPA 515.4/Micro Ext. Drtz			**Prepared:** 08/09/22 08:20				**Analyst:** rjg
2,4,5-T	ND	0.030	0.20	ug/l	1	08/11/22	
2,4,5-TP (Silvex)	ND	0.026	0.20	ug/l	1	08/11/22	
2,4-D	ND	0.14	0.40	ug/l	1	08/11/22	
2,4-DB	ND	0.19	2.0	ug/l	1	08/11/22	
3,5-Dichlorobenzoic acid	ND	0.12	1.0	ug/l	1	08/11/22	
Acifluorfen	ND	0.030	0.40	ug/l	1	08/11/22	
Bentazon	ND	0.23	2.0	ug/l	1	08/11/22	
Dalapon	ND	0.11	0.40	ug/l	1	08/11/22	
DCPA	ND	0.029	0.10	ug/l	1	08/11/22	
Dicamba	ND	0.049	0.60	ug/l	1	08/11/22	
Dichloroprop	ND	0.12	0.30	ug/l	1	08/11/22	
Dinoseb	ND	0.033	0.40	ug/l	1	08/11/22	
Pentachlorophenol	ND	0.046	0.20	ug/l	1	08/11/22	
Picloram	ND	0.050	0.60	ug/l	1	08/11/22	
Surrogate(s)							
2,4-DCAA	*94%*	*Conc: 9.38*	*70-130*			*08/11/22*	
Chlorinated Pesticides and/or PCBs by GC/ECD							

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:38

Sample Results

(Continued)

Sample: MCWP-MW07D
2H03125-05 (Water)

Sampled: 08/02/22 11:35 by Client

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

Method: EPA 508.1 **Instr:** GC08

Batch ID: W2H1280 **Preparation:** EPA 508.1/SPE **Prepared:** 08/16/22 08:08 **Analyst:** rjg

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
4,4´-DDD	ND	0.0030	0.010	ug/l	1	08/20/22	
4,4´-DDE	ND	0.0018	0.010	ug/l	1	08/20/22	
4,4´-DDT	ND	0.0030	0.010	ug/l	1	08/20/22	
Aldrin	ND	0.0040	0.010	ug/l	1	08/20/22	
alpha-BHC	ND	0.0019	0.010	ug/l	1	08/20/22	
Aroclor 1016	ND	0.50	0.50	ug/l	1	08/20/22	R-01
Aroclor 1221	ND	0.50	0.50	ug/l	1	08/20/22	R-01
Aroclor 1232	ND	0.50	0.50	ug/l	1	08/20/22	R-01
Aroclor 1242	ND	0.50	0.50	ug/l	1	08/20/22	R-01
Aroclor 1248	ND	0.50	0.50	ug/l	1	08/20/22	R-01
Aroclor 1254	ND	0.50	0.50	ug/l	1	08/20/22	R-01
Aroclor 1260	ND	0.50	0.50	ug/l	1	08/20/22	R-01
beta-BHC	ND	0.0024	0.010	ug/l	1	08/20/22	
Chlordane (tech)	ND	0.50	0.50	ug/l	1	08/20/22	R-01
Chlorothalonil	ND	0.0015	0.050	ug/l	1	08/20/22	
delta-BHC	ND	0.0030	0.010	ug/l	1	08/20/22	
Dieldrin	ND	0.0030	0.010	ug/l	1	08/20/22	
Endosulfan I	ND	0.0030	0.010	ug/l	1	08/20/22	
Endosulfan II	ND	0.0016	0.010	ug/l	1	08/20/22	
Endosulfan sulfate	ND	0.0030	0.010	ug/l	1	08/20/22	
Endrin	ND	0.0013	0.010	ug/l	1	08/20/22	
Endrin aldehyde	ND	0.0040	0.010	ug/l	1	08/20/22	
gamma-BHC (Lindane)	ND	0.0030	0.010	ug/l	1	08/20/22	
Heptachlor	ND	0.010	0.010	ug/l	1	08/20/22	R-01
Heptachlor epoxide	ND	0.0019	0.010	ug/l	1	08/20/22	
Hexachlorobenzene	ND	0.0040	0.050	ug/l	1	08/20/22	
Hexachlorocyclopentadiene	ND	0.0065	0.050	ug/l	1	08/20/22	
Methoxychlor	ND	0.0030	0.010	ug/l	1	08/20/22	
PCBs, Total	ND		0.50	ug/l	1	08/20/22	
Propachlor	ND	0.020	0.050	ug/l	1	08/20/22	
Toxaphene	ND	1.0	1.0	ug/l	1	08/20/22	R-01
Trifluralin	ND	0.0020	0.010	ug/l	1	08/20/22	

Surrogate(s)

4,4-Dibromobiphenyl	*101%*	*Conc: 0.0988*	*70-130*		*08/20/22*

Diquat and Paraquat by EPA 549.2

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:38

Sample Results

(Continued)

Sample: MCWP-MW07D
2H03125-05 (Water)

Sampled: 08/02/22 11:35 by Client
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Diquat and Paraquat by EPA 549.2 (Continued)							
Method: EPA 549.2			**Instr:** LC10				
Batch ID: W2H0401 **Preparation:** EPA 549.2/SPE			**Prepared:** 08/04/22 07:22				**Analyst:** pjs
Diquat	ND	0.90	4.0	ug/l	1	08/17/22	
Paraquat	ND	1.2	4.0	ug/l	1	08/17/22	
Endothall By EPA 548.1							
Method: EPA 548.1			**Instr:** GCMS06				
Batch ID: W2H0594 **Preparation:** EPA 548.1/SPE			**Prepared:** 08/09/22 08:15				**Analyst:** rmr
Endothall	ND	11	40	ug/l	1	08/11/22	
Glyphosate by EPA 547							
Method: EPA 547			**Instr:** LC11				
Batch ID: W2H0546 **Preparation:** _NONE (LC)			**Prepared:** 08/05/22 10:42				**Analyst:** PJS
Glyphosate	ND	1.8	5.0	ug/l	1	08/05/22	
Haloacetic Acids (HAAs) by GC/ECD							
Method: EPA 552.3			**Instr:** [CALC]				
Batch ID: [CALC] **Preparation:** [CALC]			**Prepared:** 08/05/22 07:47				**Analyst:** ecs
HAA5, Total	ND	0.28	1.0	ug/l	1	08/10/22	
Method: EPA 552.3			**Instr:** GC05				
Batch ID: W2H0521 **Preparation:** EPA 552.3/Micro Ext. Drtz			**Prepared:** 08/05/22 07:47				**Analyst:** ecs
Dibromoacetic acid (dbaa)	ND	0.28	1.0	ug/l	1	08/10/22	
Dichloroacetic acid (dcaa)	ND	0.29	1.0	ug/l	1	08/10/22	
Monobromoacetic acid (mbaa)	ND	0.34	1.0	ug/l	1	08/10/22	
Monochloroacetic acid (mcaa)	**0.41**	0.31	2.0	ug/l	1	08/10/22	J
Trichloroacetic acid (tcaa)	ND	0.29	1.0	ug/l	1	08/10/22	
Surrogate(s)							
2-Bromobutyric acid	*105%*	*Conc: 10.5*	*70-130*			*08/10/22*	
Hexavalent Chromium by IC							
Method: EPA 218.6			**Instr:** LC13				
Batch ID: W2H0547 **Preparation:** _NONE (LC)			**Prepared:** 08/05/22 11:02				**Analyst:** JAN
Chromium 6+	ND	0.0079	0.020	ug/l	1	08/05/22	
Nitrosamines by isotopic dilution GC/MS CI Mode							
Method: EPA 1625B			**Instr:** GCMS09				
Batch ID: W2H0652 **Preparation:** EPA 3535/SPE			**Prepared:** 08/08/22 14:07				**Analyst:** mld
N-Nitrosodimethylamine	**0.98**	0.66	2.0	ng/l	1	08/11/22	J
PPCPs - Isotope Dilution LCMSMS							
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0443 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:18				**Analyst:** jna
17-b-Estradiol	ND	4.0	4.0	ng/l	1	08/06/22	
Surrogate(s)							

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:38

Sample Results

(Continued)

Sample: MCWP-MW07D
2H03125-05 (Water)

Sampled: 08/02/22 11:35 by Client
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
PPCPs - Isotope Dilution LCMSMS (Continued)							
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0443 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:18			**Analyst:** jna	
17-b-Estradiol-d3	*111%*	*Conc: 221*	*20-500*			*08/06/22*	
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0444 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:26			**Analyst:** jna	
Triclosan	ND	8.0	8.0	ng/l	1	08/04/22	
Surrogate(s)							
Triclosan-d3	*72%*	*Conc: 286*	*20-500*			*08/04/22*	
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0445 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:27			**Analyst:** jna	
Caffeine	ND	4.0	4.0	ng/l	1	08/04/22	
DEET	**7.2**	4.0	4.0	ng/l	1	08/04/22	
Surrogate(s)							
Caffeine-13C3	*122%*	*Conc: 244*	*20-500*			*08/04/22*	
DEET-d7	*101%*	*Conc: 20.1*	*20-500*			*08/04/22*	
Semivolatile Organic Compounds by GC/MS							
Method: EPA 525.2			**Instr:** GCMS16				
Batch ID: W2H0720 **Preparation:** EPA 525.2/SPE			**Prepared:** 08/09/22 06:55			**Analyst:** rmr	
Alachlor	ND	0.030	0.10	ug/l	1	08/10/22	
Atrazine	ND	0.011	0.10	ug/l	1	08/10/22	
Benzo (a) pyrene	ND	0.020	0.10	ug/l	1	08/10/22	
Bis(2-ethylhexyl)adipate	ND	0.42	2.0	ug/l	1	08/10/22	
Bis(2-ethylhexyl)phthalate	ND	0.41	2.0	ug/l	1	08/10/22	
Bromacil	ND	0.070	0.50	ug/l	1	08/10/22	
Butachlor	ND	0.012	0.10	ug/l	1	08/10/22	
Captan	ND	0.32	1.0	ug/l	1	08/10/22	
Chlorpropham	ND	0.040	0.10	ug/l	1	08/10/22	
Diazinon	ND	0.022	0.10	ug/l	1	08/10/22	
Dimethoate	ND	0.020	0.20	ug/l	1	08/10/22	
Diphenamid	ND	0.030	0.10	ug/l	1	08/10/22	
Disulfoton	ND	0.015	0.10	ug/l	1	08/10/22	
EPTC	ND	0.020	0.10	ug/l	1	08/10/22	
Hexachlorocyclopentadiene	ND	0.092	1.0	ug/l	1	08/10/22	
Metolachlor	ND	0.030	0.10	ug/l	1	08/10/22	
Metribuzin	ND	0.030	0.10	ug/l	1	08/10/22	
Molinate	ND	0.030	0.10	ug/l	1	08/10/22	
Prometryn	ND	0.030	0.10	ug/l	1	08/10/22	
Simazine	ND	0.020	0.10	ug/l	1	08/10/22	

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:38

Sample Results

(Continued)

Sample: MCWP-MW07D
2H03125-05 (Water)

Sampled: 08/02/22 11:35 by Client

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organic Compounds by GC/MS (Continued)							
Method: EPA 525.2			**Instr:** GCMS16				
Batch ID: W2H0720 **Preparation:** EPA 525.2/SPE			**Prepared:** 08/09/22 06:55				**Analyst:** rmr
Terbacil	ND	0.090	2.0	ug/l	1	08/10/22	
Thiobencarb	ND	0.030	0.10	ug/l	1	08/10/22	
Trithion	ND	0.020	0.10	ug/l	1	08/10/22	
Surrogate(s)							
1,3-Dimethyl-2-nitrobenzene	*101%*	*Conc: 5.32*	*70-130*			*08/10/22*	
Perylene-d12	*104%*	*Conc: 5.44*	*50-120*			*08/10/22*	
Triphenyl phosphate	*109%*	*Conc: 5.73*	*70-130*			*08/10/22*	
Volatile Organics by P&T and GC/MS							
Method: EPA 524.3			**Instr:** GCMS08				
Batch ID: W2H1133 **Preparation:** Method (P+T)			**Prepared:** 08/12/22 14:47				**Analyst:** ADM
1,2-Dibromo-3-chloropropane	ND	0.0042	0.010	ug/l	1	08/13/22	
1,2-Dibromoethane (EDB)	ND	0.0029	0.020	ug/l	1	08/13/22	
Surrogate(s)							
1,2-Dichlorobenzene-d4	*100%*	*Conc: 0.399*	*70-130*			*08/13/22*	
4-Bromofluorobenzene	*84%*	*Conc: 0.337*	*70-130*			*08/13/22*	

Sample Results

(Continued)

Sample: MCWP-MW07D
2H03125-05RE1 (Water)

Sampled: 08/02/22 11:35 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
PPCPs - Isotope Dilution LCMSMS							
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0443 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:18				**Analyst:** jna
Sucralose	**31000**	2000	2000	ng/l	100	08/08/22	M-06
Surrogate(s)							
Sucralose-d6	*101%*	*Conc: 1010*	*20-500*			*08/08/22*	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Sample Results

(Continued)

Sample: MCWP-MW07D Travel Blank
2H03125-06 (Water)

Sampled: 08/02/22 13:00 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organics by P&T and GC/MS							
Method: EPA 524.3				**Instr:** GCMS08			
Batch ID: W2H1133 **Preparation:** Method (P+T)				**Prepared:** 08/12/22 14:47			**Analyst:** ADM
1,2-Dibromo-3-chloropropane	ND	0.0042	0.010	ug/l	1	08/13/22	
1,2-Dibromoethane (EDB)	ND	0.0029	0.020	ug/l	1	08/13/22	
Surrogate(s)							
1,2-Dichlorobenzene-d4	*100%*	*Conc: 0.399*	*70-130*			*08/13/22*	
4-Bromofluorobenzene	*86%*	*Conc: 0.345*	*70-130*			*08/13/22*	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

Acid and Base/Neutral Extractables by GC/MS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0406 - EPA 625.1											
Blank (W2H0406-BLK1)					**Prepared: 08/04/22 Analyzed: 08/08/22**						
1,2,4-Trichlorobenzene	ND	0.49	1.0	ug/l							
1,2-Dichlorobenzene	ND	0.46	1.0	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	0.30	1.0	ug/l							
1,3-Dichlorobenzene	ND	0.42	1.0	ug/l							
1,4-Dichlorobenzene	ND	0.48	1.0	ug/l							
2,4,6-Trichlorophenol	ND	0.22	1.0	ug/l							
2,4-Dichlorophenol	ND	0.26	1.0	ug/l							
2,4-Dimethylphenol	ND	0.76	1.0	ug/l							
2,4-Dinitrophenol	ND	1.9	5.0	ug/l							
2,4-Dinitrotoluene	ND	0.46	1.0	ug/l							
2,6-Dinitrotoluene	ND	0.27	1.0	ug/l							
2-Chloronaphthalene	ND	0.45	1.0	ug/l							
2-Chlorophenol	ND	0.28	1.0	ug/l							
2-Methyl-4,6-dinitrophenol	ND	0.50	1.0	ug/l							
2-Nitrophenol	ND	0.26	1.0	ug/l							
3,3'-Dichlorobenzidine	ND	2.5	5.0	ug/l							
4-Bromophenyl phenyl ether	ND	0.36	1.0	ug/l							
4-Chloro-3-methylphenol	ND	0.23	1.0	ug/l							
4-Chlorophenyl phenyl ether	ND	0.41	1.0	ug/l							
4-Nitrophenol	ND	1.2	2.0	ug/l							
Acenaphthene	ND	0.38	1.0	ug/l							
Acenaphthylene	ND	0.35	1.0	ug/l							
Anthracene	ND	0.41	1.0	ug/l							
Benzidine	ND	3.2	10	ug/l							
Benzo (a) anthracene	ND	0.19	1.0	ug/l							
Benzo (a) pyrene	ND	0.39	1.0	ug/l							
Benzo (b) fluoranthene	ND	0.46	1.0	ug/l							
Benzo (g,h,i) perylene	ND	0.42	1.0	ug/l							
Benzo (k) fluoranthene	ND	0.22	1.0	ug/l							
Bis(2-chloroethoxy)methane	ND	0.25	1.0	ug/l							
Bis(2-chloroethyl)ether	ND	0.27	1.0	ug/l							
Bis(2-chloroisopropyl)ether	ND	0.38	1.0	ug/l							
Bis(2-ethylhexyl)phthalate	4.64	2.3	5.0	ug/l							B-06, J
Butyl benzyl phthalate	ND	0.49	1.0	ug/l							
Chrysene	ND	0.19	1.0	ug/l							
Dibenzo (a,h) anthracene	ND	0.15	1.0	ug/l							
Diethyl phthalate	ND	0.35	1.0	ug/l							
Dimethyl phthalate	ND	0.18	1.0	ug/l							
Di-n-butyl phthalate	ND	0.34	1.0	ug/l							

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0406 - EPA 625.1 (Continued)											
Blank (W2H0406-BLK1)					**Prepared: 08/04/22 Analyzed: 08/08/22**						
Di-n-octyl phthalate	ND	0.46	1.0	ug/l							
Fluoranthene	ND	0.35	1.0	ug/l							
Fluorene	ND	0.35	1.0	ug/l							
Hexachlorobenzene	ND	0.49	1.0	ug/l							
Hexachlorobutadiene	ND	0.47	1.0	ug/l							
Hexachlorocyclopentadiene	ND	0.31	5.0	ug/l							
Hexachloroethane	ND	0.50	1.0	ug/l							
Indeno (1,2,3-cd) pyrene	ND	0.25	1.0	ug/l							
Isophorone	ND	0.21	1.0	ug/l							
Naphthalene	ND	0.49	1.0	ug/l							
Nitrobenzene	ND	0.36	1.0	ug/l							
N-Nitrosodimethylamine	ND	0.50	1.0	ug/l							
N-Nitrosodi-n-propylamine	ND	0.26	1.0	ug/l							
N-Nitrosodiphenylamine	ND	0.19	1.0	ug/l							
Pentachlorophenol	ND	0.40	1.0	ug/l							
Phenanthrene	ND	0.32	1.0	ug/l							
Phenol	ND	0.81	1.0	ug/l							
Pyrene	ND	0.25	1.0	ug/l							
Surrogate(s)											
2,4,6-Tribromophenol	*21.5*			*ug/l*	*40.0*		*54*	*25-120*			
2-Fluorobiphenyl	*11.8*			*ug/l*	*20.0*		*59*	*22-120*			
2-Fluorophenol	*18.1*			*ug/l*	*40.0*		*45*	*17-120*			
Nitrobenzene-d5	*13.9*			*ug/l*	*20.0*		*69*	*47-120*			
Phenol-d5	*12.0*			*ug/l*	*40.0*		*30*	*12-120*			
Terphenyl-d14	*19.4*			*ug/l*	*20.0*		*97*	*44-129*			
LCS (W2H0406-BS1)					**Prepared: 08/04/22 Analyzed: 08/08/22**						
1,2,4-Trichlorobenzene	13.6	0.49	1.0	ug/l	20.0		68	57-130			
1,2-Dichlorobenzene	13.9	0.46	1.0	ug/l	20.0		69	57-120			
1,3-Dichlorobenzene	13.1	0.42	1.0	ug/l	20.0		65	55-120			
1,4-Dichlorobenzene	12.9	0.48	1.0	ug/l	20.0		64	55-120			
2,4,6-Trichlorophenol	15.0	0.22	1.0	ug/l	20.0		75	52-129			
2,4-Dichlorophenol	15.0	0.26	1.0	ug/l	20.0		75	53-122			
2,4-Dimethylphenol	12.6	0.76	1.0	ug/l	20.0		63	42-120			
2,4-Dinitrophenol	19.7	1.9	5.0	ug/l	20.0		98	0.1-173			
2,4-Dinitrotoluene	16.4	0.46	1.0	ug/l	20.0		82	48-127			
2,6-Dinitrotoluene	14.2	0.27	1.0	ug/l	20.0		71	68-137			
2-Chloronaphthalene	13.4	0.45	1.0	ug/l	20.0		67	65-120			
2-Chlorophenol	13.9	0.28	1.0	ug/l	20.0		70	36-120			
2-Methyl-4,6-dinitrophenol	18.0	0.50	1.0	ug/l	20.0		90	53-130			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0406 - EPA 625.1 (Continued)											
LCS (W2H0406-BS1)					**Prepared: 08/04/22**	**Analyzed: 08/08/22**					
2-Nitrophenol	16.1	0.26	1.0	ug/l	20.0		80	45-167			
3,3'-Dichlorobenzidine	11.7	1.0	5.0	ug/l	20.0		59	8-213			
4-Bromophenyl phenyl ether	15.2	0.36	1.0	ug/l	20.0		76	65-120			
4-Chloro-3-methylphenol	14.9	0.23	1.0	ug/l	20.0		75	41-128			
4-Chlorophenyl phenyl ether	13.4	0.41	1.0	ug/l	20.0		67	38-145			
4-Nitrophenol	7.22	1.2	2.0	ug/l	20.0		36	13-129			
Acenaphthene	15.6	0.38	1.0	ug/l	20.0		78	60-132			
Acenaphthylene	14.5	0.35	1.0	ug/l	20.0		73	54-126			
Anthracene	15.9	0.41	1.0	ug/l	20.0		79	43-120			
Benzidine	0.633	0.0	10	ug/l	20.0		3	0.1-200			J
Benzo (a) anthracene	17.5	0.19	1.0	ug/l	20.0		87	42-133			
Benzo (a) pyrene	19.7	0.39	1.0	ug/l	20.0		98	32-148			
Benzo (b) fluoranthene	19.7	0.46	1.0	ug/l	20.0		98	42-140			AN-IP
Benzo (g,h,i) perylene	17.3	0.42	1.0	ug/l	20.0		87	0.1-195			
Benzo (k) fluoranthene	18.1	0.22	1.0	ug/l	20.0		90	25-146			AN-IP
Bis(2-chloroethoxy)methane	13.8	0.25	1.0	ug/l	20.0		69	49-165			
Bis(2-chloroethyl)ether	13.1	0.27	1.0	ug/l	20.0		65	43-126			
Bis(2-chloroisopropyl)ether	14.3	0.38	1.0	ug/l	20.0		72	63-139			
Bis(2-ethylhexyl)phthalate	20.9	2.0	5.0	ug/l	20.0		104	29-137			
Butyl benzyl phthalate	18.9	0.49	1.0	ug/l	20.0		94	0.1-140			
Chrysene	16.2	0.19	1.0	ug/l	20.0		81	44-140			
Dibenzo (a,h) anthracene	16.3	0.15	1.0	ug/l	20.0		81	0.1-200			
Diethyl phthalate	15.1	0.35	1.0	ug/l	20.0		76	0.1-120			
Dimethyl phthalate	13.8	0.18	1.0	ug/l	20.0		69	0.1-120			
Di-n-butyl phthalate	17.0	0.34	1.0	ug/l	20.0		85	8-120			
Di-n-octyl phthalate	18.7	0.46	1.0	ug/l	20.0		94	19-132			
Fluoranthene	18.4	0.35	1.0	ug/l	20.0		92	43-121			
Fluorene	15.2	0.35	1.0	ug/l	20.0		76	70-120			
Hexachlorobenzene	15.6	0.49	1.0	ug/l	20.0		78	8-142			
Hexachlorobutadiene	13.9	0.47	1.0	ug/l	20.0		70	38-120			
Hexachlorocyclopentadiene	7.89	0.31	5.0	ug/l	20.0		39	10-120			
Hexachloroethane	13.5	0.50	1.0	ug/l	20.0		67	55-120			
Indeno (1,2,3-cd) pyrene	16.1	0.25	1.0	ug/l	20.0		80	0.1-151			
Isophorone	12.3	0.21	1.0	ug/l	20.0		62	47-180			
Naphthalene	13.8	0.49	1.0	ug/l	20.0		69	36-120			
Nitrobenzene	14.5	0.36	1.0	ug/l	20.0		72	54-158			
N-Nitrosodimethylamine	9.20	0.50	1.0	ug/l	20.0		46	22-120			
N-Nitrosodi-n-propylamine	15.2	0.26	1.0	ug/l	20.0		76	14-198			
N-Nitrosodiphenylamine	12.9	0.19	1.0	ug/l	20.0		65	47-120			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0406 - EPA 625.1 (Continued)											
LCS (W2H0406-BS1)					**Prepared: 08/04/22 Analyzed: 08/08/22**						
Pentachlorophenol	15.2	0.40	1.0	ug/l	20.0		76	41-120			
Phenanthrene	15.3	0.32	1.0	ug/l	20.0		76	65-120			
Phenol	5.86	0.81	1.0	ug/l	20.0		29	17-120			
Pyrene	16.6	0.25	1.0	ug/l	20.0		83	70-120			
Surrogate(s)											
2,4,6-Tribromophenol	*30.2*			*ug/l*	*40.0*		*75*	*25-120*			
2-Fluorobiphenyl	*14.2*			*ug/l*	*20.0*		*71*	*22-120*			
2-Fluorophenol	*19.7*			*ug/l*	*40.0*		*49*	*17-120*			
Nitrobenzene-d5	*15.4*			*ug/l*	*20.0*		*77*	*47-120*			
Phenol-d5	*13.0*			*ug/l*	*40.0*		*33*	*12-120*			
Terphenyl-d14	*17.2*			*ug/l*	*20.0*		*86*	*44-129*			
LCS Dup (W2H0406-BSD1)					**Prepared: 08/04/22 Analyzed: 08/08/22**						
1,2,4-Trichlorobenzene	13.4	0.49	1.0	ug/l	20.0		67	57-130	1	30	
1,2-Dichlorobenzene	13.0	0.46	1.0	ug/l	20.0		65	57-120	6	30	
1,3-Dichlorobenzene	12.2	0.42	1.0	ug/l	20.0		61	55-120	7	30	
1,4-Dichlorobenzene	12.1	0.48	1.0	ug/l	20.0		61	55-120	6	30	
2,4,6-Trichlorophenol	15.9	0.22	1.0	ug/l	20.0		80	52-129	6	30	
2,4-Dichlorophenol	15.3	0.26	1.0	ug/l	20.0		77	53-122	2	30	
2,4-Dimethylphenol	12.4	0.76	1.0	ug/l	20.0		62	42-120	1	30	
2,4-Dinitrophenol	22.7	1.9	5.0	ug/l	20.0		114	0.1-173	14	30	
2,4-Dinitrotoluene	18.5	0.46	1.0	ug/l	20.0		93	48-127	12	30	
2,6-Dinitrotoluene	16.2	0.27	1.0	ug/l	20.0		81	68-137	13	30	
2-Chloronaphthalene	14.2	0.45	1.0	ug/l	20.0		71	65-120	6	30	
2-Chlorophenol	13.2	0.28	1.0	ug/l	20.0		66	36-120	5	30	
2-Methyl-4,6-dinitrophenol	20.7	0.50	1.0	ug/l	20.0		104	53-130	14	30	
2-Nitrophenol	16.6	0.26	1.0	ug/l	20.0		83	45-167	3	30	
3,3'-Dichlorobenzidine	14.2	2.5	5.0	ug/l	20.0		71	8-213	19	30	
4-Bromophenyl phenyl ether	16.8	0.36	1.0	ug/l	20.0		84	65-120	10	30	
4-Chloro-3-methylphenol	15.5	0.23	1.0	ug/l	20.0		78	41-128	4	30	
4-Chlorophenyl phenyl ether	14.7	0.41	1.0	ug/l	20.0		74	38-145	9	30	
4-Nitrophenol	8.33	1.2	2.0	ug/l	20.0		42	13-129	14	30	
Acenaphthene	16.7	0.38	1.0	ug/l	20.0		84	60-132	7	30	
Acenaphthylene	15.6	0.35	1.0	ug/l	20.0		78	54-126	7	30	
Anthracene	18.3	0.41	1.0	ug/l	20.0		91	43-120	14	30	
Benzidine	1.30	0.0	10	ug/l	20.0		6	0.1-200	69	30	J
Benzo (a) anthracene	21.0	0.19	1.0	ug/l	20.0		105	42-133	18	30	
Benzo (a) pyrene	24.4	0.39	1.0	ug/l	20.0		122	32-148	21	30	
Benzo (b) fluoranthene	23.3	0.46	1.0	ug/l	20.0		117	42-140	17	30	AN-IP
Benzo (g,h,i) perylene	21.0	0.42	1.0	ug/l	20.0		105	0.1-195	19	30	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0406 - EPA 625.1 (Continued)											
LCS Dup (W2H0406-BSD1)					**Prepared: 08/04/22 Analyzed: 08/08/22**						
Benzo (k) fluoranthene	21.9	0.22	1.0	ug/l	20.0		110	25-146	19	30	AN-IP
Bis(2-chloroethoxy)methane	14.4	0.25	1.0	ug/l	20.0		72	49-165	4	30	
Bis(2-chloroethyl)ether	12.7	0.27	1.0	ug/l	20.0		64	43-126	3	30	
Bis(2-chloroisopropyl)ether	14.3	0.38	1.0	ug/l	20.0		71	63-139	0.2	30	
Bis(2-ethylhexyl)phthalate	24.3	2.3	5.0	ug/l	20.0		121	29-137	15	30	
Butyl benzyl phthalate	22.8	0.49	1.0	ug/l	20.0		114	0.1-140	19	30	
Chrysene	19.0	0.19	1.0	ug/l	20.0		95	44-140	16	30	
Dibenzo (a,h) anthracene	20.5	0.15	1.0	ug/l	20.0		103	0.1-200	23	30	
Diethyl phthalate	16.9	0.35	1.0	ug/l	20.0		85	0.1-120	11	30	
Dimethyl phthalate	15.4	0.18	1.0	ug/l	20.0		77	0.1-120	11	30	
Di-n-butyl phthalate	20.3	0.34	1.0	ug/l	20.0		101	8-120	18	30	
Di-n-octyl phthalate	22.7	0.46	1.0	ug/l	20.0		114	19-132	19	30	
Fluoranthene	21.8	0.35	1.0	ug/l	20.0		109	43-121	17	30	
Fluorene	16.6	0.35	1.0	ug/l	20.0		83	70-120	8	30	
Hexachlorobenzene	17.3	0.49	1.0	ug/l	20.0		87	8-142	11	30	
Hexachlorobutadiene	13.8	0.47	1.0	ug/l	20.0		69	38-120	0.5	30	
Hexachlorocyclopentadiene	8.89	0.31	5.0	ug/l	20.0		44	10-120	12	30	
Hexachloroethane	12.5	0.50	1.0	ug/l	20.0		63	55-120	7	30	
Indeno (1,2,3-cd) pyrene	19.5	0.25	1.0	ug/l	20.0		97	0.1-151	19	30	
Isophorone	13.1	0.21	1.0	ug/l	20.0		66	47-180	6	30	
Naphthalene	13.8	0.49	1.0	ug/l	20.0		69	36-120	0.2	30	
Nitrobenzene	14.6	0.36	1.0	ug/l	20.0		73	54-158	0.6	30	
N-Nitrosodimethylamine	8.59	0.50	1.0	ug/l	20.0		43	22-120	7	30	
N-Nitrosodi-n-propylamine	15.8	0.26	1.0	ug/l	20.0		79	14-198	4	30	
N-Nitrosodiphenylamine	14.4	0.19	1.0	ug/l	20.0		72	47-120	11	30	
Pentachlorophenol	17.5	0.40	1.0	ug/l	20.0		88	41-120	14	30	
Phenanthrene	17.4	0.32	1.0	ug/l	20.0		87	65-120	13	30	
Phenol	5.55	0.81	1.0	ug/l	20.0		28	17-120	5	30	
Pyrene	19.8	0.25	1.0	ug/l	20.0		99	70-120	18	30	
Surrogate(s)											
2,4,6-Tribromophenol	*33.2*			*ug/l*	*40.0*		*83*	*25-120*			
2-Fluorobiphenyl	*14.8*			*ug/l*	*20.0*		*74*	*22-120*			
2-Fluorophenol	*17.6*			*ug/l*	*40.0*		*44*	*17-120*			
Nitrobenzene-d5	*15.5*			*ug/l*	*20.0*		*77*	*47-120*			
Phenol-d5	*12.4*			*ug/l*	*40.0*		*31*	*12-120*			
Terphenyl-d14	*19.8*			*ug/l*	*20.0*		*99*	*44-129*			
Batch: W2H0772 - EPA 625.1											
Blank (W2H0772-BLK1)					**Prepared: 08/09/22 Analyzed: 08/13/22**						
1,2,4-Trichlorobenzene	ND	0.49	1.0	ug/l							

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0772 - EPA 625.1 (Continued)											
Blank (W2H0772-BLK1)					**Prepared: 08/09/22 Analyzed: 08/13/22**						
1,2-Dichlorobenzene	ND	0.46	1.0	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	0.30	1.0	ug/l							
1,3-Dichlorobenzene	ND	0.42	1.0	ug/l							
1,4-Dichlorobenzene	ND	0.48	1.0	ug/l							
2,4,6-Trichlorophenol	ND	0.22	1.0	ug/l							
2,4-Dichlorophenol	ND	0.26	1.0	ug/l							
2,4-Dimethylphenol	ND	0.76	1.0	ug/l							
2,4-Dinitrophenol	ND	1.9	10	ug/l							
2,4-Dinitrotoluene	ND	0.46	1.0	ug/l							
2,6-Dinitrotoluene	ND	0.27	1.0	ug/l							
2-Chloronaphthalene	ND	0.45	1.0	ug/l							
2-Chlorophenol	ND	0.28	1.0	ug/l							
2-Methyl-4,6-dinitrophenol	ND	0.50	5.0	ug/l							
2-Nitrophenol	ND	0.26	1.0	ug/l							
3,3'-Dichlorobenzidine	ND	2.5	5.0	ug/l							
4-Bromophenyl phenyl ether	ND	0.36	1.0	ug/l							
4-Chloro-3-methylphenol	ND	0.23	1.0	ug/l							
4-Chlorophenyl phenyl ether	ND	0.41	1.0	ug/l							
4-Nitrophenol	ND	1.2	5.0	ug/l							
Acenaphthene	ND	0.38	1.0	ug/l							
Acenaphthylene	ND	0.35	1.0	ug/l							
Anthracene	ND	0.41	1.0	ug/l							
Benzidine	ND	3.2	10	ug/l							
Benzo (a) anthracene	ND	0.19	1.0	ug/l							
Benzo (a) pyrene	ND	0.39	1.0	ug/l							
Benzo (b) fluoranthene	ND	0.46	1.0	ug/l							
Benzo (g,h,i) perylene	ND	0.42	2.0	ug/l							
Benzo (k) fluoranthene	ND	0.22	1.0	ug/l							
Bis(2-chloroethoxy)methane	ND	0.25	1.0	ug/l							
Bis(2-chloroethyl)ether	ND	0.27	1.0	ug/l							
Bis(2-chloroisopropyl)ether	ND	0.38	1.0	ug/l							
Bis(2-ethylhexyl)phthalate	9.15	2.3	5.0	ug/l							B-06
Butyl benzyl phthalate	ND	0.49	1.0	ug/l							
Chrysene	ND	0.19	1.0	ug/l							
Dibenzo (a,h) anthracene	ND	0.15	2.0	ug/l							
Diethyl phthalate	ND	0.35	1.0	ug/l							
Dimethyl phthalate	ND	0.18	1.0	ug/l							
Di-n-butyl phthalate	ND	0.34	1.0	ug/l							
Di-n-octyl phthalate	ND	0.46	1.0	ug/l							

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0772 - EPA 625.1 (Continued)											
Blank (W2H0772-BLK1)					**Prepared: 08/09/22 Analyzed: 08/13/22**						
Fluoranthene	ND	0.35	1.0	ug/l							
Fluorene	ND	0.35	1.0	ug/l							
Hexachlorobenzene	ND	0.49	1.0	ug/l							
Hexachlorobutadiene	ND	0.47	1.0	ug/l							
Hexachlorocyclopentadiene	ND	0.31	5.0	ug/l							
Hexachloroethane	ND	0.50	1.0	ug/l							
Indeno (1,2,3-cd) pyrene	ND	0.25	2.0	ug/l							
Isophorone	ND	0.21	1.0	ug/l							
Naphthalene	ND	0.49	1.0	ug/l							
Nitrobenzene	ND	0.36	1.0	ug/l							
N-Nitrosodimethylamine	ND	0.50	1.0	ug/l							
N-Nitrosodi-n-propylamine	ND	0.26	1.0	ug/l							
N-Nitrosodiphenylamine	ND	0.19	1.0	ug/l							
Pentachlorophenol	ND	0.40	1.0	ug/l							
Phenanthrene	ND	0.32	1.0	ug/l							
Phenol	ND	0.81	1.0	ug/l							
Pyrene	ND	0.25	1.0	ug/l							
Surrogate(s)											
2,4,6-Tribromophenol	*27.0*			*ug/l*	*40.0*		*68*	*25-120*			
2-Fluorobiphenyl	*12.5*			*ug/l*	*20.0*		*63*	*22-120*			
2-Fluorophenol	*19.6*			*ug/l*	*40.0*		*49*	*17-120*			
Nitrobenzene-d5	*14.4*			*ug/l*	*20.0*		*72*	*47-120*			
Phenol-d5	*12.9*			*ug/l*	*40.0*		*32*	*12-120*			
Terphenyl-d14	*19.4*			*ug/l*	*20.0*		*97*	*44-129*			
LCS (W2H0772-BS1)					**Prepared: 08/09/22 Analyzed: 08/12/22**						
1,2,4-Trichlorobenzene	14.8	0.49	1.0	ug/l	20.0		74	57-130			
1,2-Dichlorobenzene	15.2	0.46	1.0	ug/l	20.0		76	57-120			
1,3-Dichlorobenzene	14.1	0.42	1.0	ug/l	20.0		71	55-120			
1,4-Dichlorobenzene	14.0	0.48	1.0	ug/l	20.0		70	55-120			
2,4,6-Trichlorophenol	17.0	0.22	1.0	ug/l	20.0		85	52-129			
2,4-Dichlorophenol	16.8	0.26	1.0	ug/l	20.0		84	53-122			
2,4-Dimethylphenol	15.8	0.76	1.0	ug/l	20.0		79	42-120			
2,4-Dinitrophenol	23.5	1.9	10	ug/l	20.0		118	0.1-173			
2,4-Dinitrotoluene	19.3	0.46	1.0	ug/l	20.0		96	48-127			
2,6-Dinitrotoluene	16.3	0.27	1.0	ug/l	20.0		81	68-137			
2-Chloronaphthalene	14.7	0.45	1.0	ug/l	20.0		74	65-120			
2-Chlorophenol	15.2	0.28	1.0	ug/l	20.0		76	36-120			
2-Methyl-4,6-dinitrophenol	21.1	0.50	5.0	ug/l	20.0		106	53-130			
2-Nitrophenol	18.0	0.26	1.0	ug/l	20.0		90	45-167			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0772 - EPA 625.1 (Continued)											
LCS (W2H0772-BS1)					**Prepared: 08/09/22 Analyzed: 08/12/22**						
3,3'-Dichlorobenzidine	12.9	2.5	5.0	ug/l	20.0		65	8-213			
4-Bromophenyl phenyl ether	16.9	0.36	1.0	ug/l	20.0		85	65-120			
4-Chloro-3-methylphenol	17.1	0.23	1.0	ug/l	20.0		85	41-128			
4-Chlorophenyl phenyl ether	15.8	0.41	1.0	ug/l	20.0		79	38-145			
4-Nitrophenol	8.70	1.2	5.0	ug/l	20.0		43	13-129			
Acenaphthene	16.8	0.38	1.0	ug/l	20.0		84	60-132			
Acenaphthylene	16.0	0.35	1.0	ug/l	20.0		80	54-126			
Anthracene	17.9	0.41	1.0	ug/l	20.0		90	43-120			
Benzidine	2.82	0.0	10	ug/l	20.0		14	0.1-200			J
Benzo (a) anthracene	18.6	0.19	1.0	ug/l	20.0		93	42-133			
Benzo (a) pyrene	21.4	0.39	1.0	ug/l	20.0		107	32-148			
Benzo (b) fluoranthene	19.8	0.46	1.0	ug/l	20.0		99	42-140			AN-IP
Benzo (g,h,i) perylene	20.9	0.42	2.0	ug/l	20.0		105	0.1-195			
Benzo (k) fluoranthene	19.9	0.22	1.0	ug/l	20.0		100	25-146			AN-IP
Bis(2-chloroethoxy)methane	15.2	0.25	1.0	ug/l	20.0		76	49-165			
Bis(2-chloroethyl)ether	14.4	0.27	1.0	ug/l	20.0		72	43-126			
Bis(2-chloroisopropyl)ether	15.8	0.38	1.0	ug/l	20.0		79	63-139			
Bis(2-ethylhexyl)phthalate	22.3	2.3	5.0	ug/l	20.0		112	29-137			
Butyl benzyl phthalate	20.7	0.49	1.0	ug/l	20.0		103	0.1-140			
Chrysene	17.1	0.19	1.0	ug/l	20.0		86	44-140			
Dibenzo (a,h) anthracene	19.6	0.15	2.0	ug/l	20.0		98	0.1-200			
Diethyl phthalate	17.5	0.35	1.0	ug/l	20.0		88	0.1-120			
Dimethyl phthalate	16.3	0.18	1.0	ug/l	20.0		82	0.1-120			
Di-n-butyl phthalate	18.4	0.34	1.0	ug/l	20.0		92	8-120			
Di-n-octyl phthalate	20.1	0.46	1.0	ug/l	20.0		101	19-132			
Fluoranthene	22.4	0.35	1.0	ug/l	20.0		112	43-121			
Fluorene	17.4	0.35	1.0	ug/l	20.0		87	70-120			
Hexachlorobenzene	17.3	0.49	1.0	ug/l	20.0		86	8-142			
Hexachlorobutadiene	15.6	0.47	1.0	ug/l	20.0		78	38-120			
Hexachlorocyclopentadiene	10.3	0.31	5.0	ug/l	20.0		51	10-120			
Hexachloroethane	14.5	0.50	1.0	ug/l	20.0		72	55-120			
Indeno (1,2,3-cd) pyrene	19.3	0.25	2.0	ug/l	20.0		97	0.1-151			
Isophorone	13.5	0.21	1.0	ug/l	20.0		67	47-180			
Naphthalene	15.7	0.49	1.0	ug/l	20.0		78	36-120			
Nitrobenzene	15.6	0.36	1.0	ug/l	20.0		78	54-158			
N-Nitrosodimethylamine	10.3	0.50	1.0	ug/l	20.0		52	22-120			
N-Nitrosodi-n-propylamine	17.0	0.26	1.0	ug/l	20.0		85	14-198			
N-Nitrosodiphenylamine	14.6	0.19	1.0	ug/l	20.0		73	47-120			
Pentachlorophenol	19.2	0.40	1.0	ug/l	20.0		96	41-120			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0772 - EPA 625.1 (Continued)											
LCS (W2H0772-BS1)					**Prepared: 08/09/22 Analyzed: 08/12/22**						
Phenanthrene	16.8	0.32	1.0	ug/l	20.0		84	65-120			
Phenol	6.54	0.81	1.0	ug/l	20.0		33	17-120			
Pyrene	18.8	0.25	1.0	ug/l	20.0		94	70-120			
Surrogate(s)											
2,4,6-Tribromophenol	*33.5*			*ug/l*	*40.0*		*84*	*25-120*			
2-Fluorobiphenyl	*15.7*			*ug/l*	*20.0*		*78*	*22-120*			
2-Fluorophenol	*21.8*			*ug/l*	*40.0*		*54*	*17-120*			
Nitrobenzene-d5	*17.0*			*ug/l*	*20.0*		*85*	*47-120*			
Phenol-d5	*14.5*			*ug/l*	*40.0*		*36*	*12-120*			
Terphenyl-d14	*18.5*			*ug/l*	*20.0*		*92*	*44-129*			
LCS Dup (W2H0772-BSD1)					**Prepared: 08/09/22 Analyzed: 08/12/22**						
1,2,4-Trichlorobenzene	14.9	0.49	1.0	ug/l	20.0		74	57-130	0.5	30	
1,2-Dichlorobenzene	14.7	0.46	1.0	ug/l	20.0		74	57-120	3	30	
1,3-Dichlorobenzene	13.6	0.42	1.0	ug/l	20.0		68	55-120	4	30	
1,4-Dichlorobenzene	13.4	0.48	1.0	ug/l	20.0		67	55-120	5	30	
2,4,6-Trichlorophenol	17.3	0.22	1.0	ug/l	20.0		86	52-129	2	30	
2,4-Dichlorophenol	16.9	0.26	1.0	ug/l	20.0		84	53-122	0.5	30	
2,4-Dimethylphenol	15.1	0.76	1.0	ug/l	20.0		75	42-120	5	30	
2,4-Dinitrophenol	24.6	1.9	10	ug/l	20.0		123	0.1-173	4	30	
2,4-Dinitrotoluene	19.8	0.46	1.0	ug/l	20.0		99	48-127	3	30	
2,6-Dinitrotoluene	16.2	0.27	1.0	ug/l	20.0		81	68-137	0.9	30	
2-Chloronaphthalene	15.4	0.45	1.0	ug/l	20.0		77	65-120	5	30	
2-Chlorophenol	14.8	0.28	1.0	ug/l	20.0		74	36-120	3	30	
2-Methyl-4,6-dinitrophenol	22.1	0.50	5.0	ug/l	20.0		110	53-130	4	30	
2-Nitrophenol	18.3	0.26	1.0	ug/l	20.0		91	45-167	2	30	
3,3'-Dichlorobenzidine	12.6	2.5	5.0	ug/l	20.0		63	8-213	3	30	
4-Bromophenyl phenyl ether	17.6	0.36	1.0	ug/l	20.0		88	65-120	4	30	
4-Chloro-3-methylphenol	17.3	0.23	1.0	ug/l	20.0		87	41-128	1	30	
4-Chlorophenyl phenyl ether	16.1	0.41	1.0	ug/l	20.0		80	38-145	1	30	
4-Nitrophenol	9.44	1.2	5.0	ug/l	20.0		47	13-129	8	30	
Acenaphthene	17.6	0.38	1.0	ug/l	20.0		88	60-132	5	30	
Acenaphthylene	16.5	0.35	1.0	ug/l	20.0		82	54-126	3	30	
Anthracene	18.7	0.41	1.0	ug/l	20.0		93	43-120	4	30	
Benzidine	0.911	0.0	10	ug/l	20.0		5	0.1-200	102	30	J
Benzo (a) anthracene	19.2	0.19	1.0	ug/l	20.0		96	42-133	3	30	
Benzo (a) pyrene	21.8	0.39	1.0	ug/l	20.0		109	32-148	2	30	
Benzo (b) fluoranthene	22.1	0.46	1.0	ug/l	20.0		110	42-140	11	30	AN-IP
Benzo (g,h,i) perylene	21.7	0.42	2.0	ug/l	20.0		108	0.1-195	3	30	
Benzo (k) fluoranthene	19.2	0.22	1.0	ug/l	20.0		96	25-146	3	30	AN-IP

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0772 - EPA 625.1 (Continued)											
LCS Dup (W2H0772-BSD1)					**Prepared: 08/09/22**	**Analyzed: 08/12/22**					
Bis(2-chloroethoxy)methane	15.6	0.25	1.0	ug/l	20.0		78	49-165	3	30	
Bis(2-chloroethyl)ether	14.2	0.27	1.0	ug/l	20.0		71	43-126	1	30	
Bis(2-chloroisopropyl)ether	16.2	0.38	1.0	ug/l	20.0		81	63-139	2	30	
Bis(2-ethylhexyl)phthalate	22.8	2.3	5.0	ug/l	20.0		114	29-137	2	30	
Butyl benzyl phthalate	21.8	0.49	1.0	ug/l	20.0		109	0.1-140	5	30	
Chrysene	18.2	0.19	1.0	ug/l	20.0		91	44-140	6	30	
Dibenzo (a,h) anthracene	20.1	0.15	2.0	ug/l	20.0		100	0.1-200	2	30	
Diethyl phthalate	17.9	0.35	1.0	ug/l	20.0		89	0.1-120	2	30	
Dimethyl phthalate	16.3	0.18	1.0	ug/l	20.0		82	0.1-120	0.1	30	
Di-n-butyl phthalate	20.0	0.34	1.0	ug/l	20.0		100	8-120	8	30	
Di-n-octyl phthalate	21.7	0.46	1.0	ug/l	20.0		109	19-132	8	30	
Fluoranthene	24.6	0.35	1.0	ug/l	20.0		123	43-121	9	30	Q-08
Fluorene	17.7	0.35	1.0	ug/l	20.0		88	70-120	1	30	
Hexachlorobenzene	17.9	0.49	1.0	ug/l	20.0		90	8-142	4	30	
Hexachlorobutadiene	15.6	0.47	1.0	ug/l	20.0		78	38-120	0.01	30	
Hexachlorocyclopentadiene	10.9	0.31	5.0	ug/l	20.0		54	10-120	6	30	
Hexachloroethane	14.0	0.50	1.0	ug/l	20.0		70	55-120	3	30	
Indeno (1,2,3-cd) pyrene	19.8	0.25	2.0	ug/l	20.0		99	0.1-151	2	30	
Isophorone	14.0	0.21	1.0	ug/l	20.0		70	47-180	4	30	
Naphthalene	15.8	0.49	1.0	ug/l	20.0		79	36-120	0.4	30	
Nitrobenzene	15.9	0.36	1.0	ug/l	20.0		79	54-158	2	30	
N-Nitrosodimethylamine	10.6	0.50	1.0	ug/l	20.0		53	22-120	3	30	
N-Nitrosodi-n-propylamine	17.4	0.26	1.0	ug/l	20.0		87	14-198	2	30	
N-Nitrosodiphenylamine	15.0	0.19	1.0	ug/l	20.0		75	47-120	3	30	
Pentachlorophenol	19.2	0.40	1.0	ug/l	20.0		96	41-120	0.4	30	
Phenanthrene	18.2	0.32	1.0	ug/l	20.0		91	65-120	8	30	
Phenol	6.68	0.81	1.0	ug/l	20.0		33	17-120	2	30	
Pyrene	19.9	0.25	1.0	ug/l	20.0		100	70-120	6	30	
Surrogate(s)											
2,4,6-Tribromophenol	*33.9*			*ug/l*	*40.0*		*85*	*25-120*			
2-Fluorobiphenyl	*15.5*			*ug/l*	*20.0*		*77*	*22-120*			
2-Fluorophenol	*20.9*			*ug/l*	*40.0*		*52*	*17-120*			
Nitrobenzene-d5	*17.0*			*ug/l*	*20.0*		*85*	*47-120*			
Phenol-d5	*14.6*			*ug/l*	*40.0*		*37*	*12-120*			
Terphenyl-d14	*19.3*			*ug/l*	*20.0*		*96*	*44-129*			

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Anions by IC, EPA Method 300.1

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1193 - EPA 300.1											
Blank (W2H1193-BLK1)					**Prepared & Analyzed: 08/15/22**						
Bromate	ND	1.4	5.0	ug/l							
Chlorite	ND	2.2	10	ug/l							
Surrogate(s)											
Dichloroacetate	*529*			*ug/l*	*500*		*106*	*90-115*			
LCS (W2H1193-BS1)					**Prepared & Analyzed: 08/15/22**						
Bromate	98.6	1.4	5.0	ug/l	100		99	85-115			
Chlorite	99.6	2.2	10	ug/l	100		100	85-115			
Surrogate(s)											
Dichloroacetate	*521*			*ug/l*	*500*		*104*	*90-115*			
Matrix Spike (W2H1193-MS1)	**Source: 2H03055-01**				**Prepared & Analyzed: 08/15/22**						
Bromate	103	1.4	5.0	ug/l	100	ND	103	64-133			
Chlorite	96.7	2.2	10	ug/l	100	ND	97	78-129			
Surrogate(s)											
Dichloroacetate	*545*			*ug/l*	*500*		*109*	*90-115*			
Matrix Spike (W2H1193-MS2)	**Source: 2H05020-01**				**Prepared & Analyzed: 08/15/22**						
Bromate	97.8	1.4	5.0	ug/l	100	ND	98	64-133			
Chlorite	98.0	2.2	10	ug/l	100	ND	98	78-129			
Surrogate(s)											
Dichloroacetate	*521*			*ug/l*	*500*		*104*	*90-115*			
Matrix Spike Dup (W2H1193-MSD1)	**Source: 2H03055-01**				**Prepared & Analyzed: 08/15/22**						
Bromate	106	1.4	5.0	ug/l	100	ND	106	64-133	3	20	
Chlorite	97.8	2.2	10	ug/l	100	ND	98	78-129	1	20	
Surrogate(s)											
Dichloroacetate	*541*			*ug/l*	*500*		*108*	*90-115*			
Matrix Spike Dup (W2H1193-MSD2)	**Source: 2H05020-01**				**Prepared & Analyzed: 08/15/22**						
Bromate	101	1.4	5.0	ug/l	100	ND	101	64-133	3	20	
Chlorite	99.4	2.2	10	ug/l	100	ND	99	78-129	1	20	
Surrogate(s)											
Dichloroacetate	*534*			*ug/l*	*500*		*107*	*90-115*			

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Carbamates and Urea Pesticides

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1255 - EPA 531.2											
Blank (W2H1255-BLK1)					**Prepared: 08/15/22 Analyzed: 08/16/22**						
3-Hydroxycarbofuran	ND	0.82	2.0	ug/l							
Aldicarb	ND	0.58	2.0	ug/l							
Aldicarb sulfone	ND	0.73	2.0	ug/l							
Aldicarb sulfoxide	ND	1.0	2.0	ug/l							
Carbaryl	ND	1.0	2.0	ug/l							
Carbofuran	ND	1.0	2.0	ug/l							
Methiocarb	ND	1.0	2.0	ug/l							
Methomyl	ND	1.3	2.0	ug/l							
Oxamyl	ND	1.1	2.0	ug/l							
Propoxur (Baygon)	ND	1.4	2.0	ug/l							
Surrogate(s)											
BDMC	*10.2*			*ug/l*	*10.0*		*102*	*70-130*			
LCS (W2H1255-BS1)					**Prepared: 08/15/22 Analyzed: 08/16/22**						
3-Hydroxycarbofuran	9.22	0.82	2.0	ug/l	10.0		92	80-120			
Aldicarb	9.93	0.58	2.0	ug/l	10.0		99	80-120			
Aldicarb sulfone	11.8	0.73	2.0	ug/l	10.0		118	80-120			
Aldicarb sulfoxide	11.1	1.0	2.0	ug/l	10.0		111	80-120			
Carbaryl	9.27	1.0	2.0	ug/l	10.0		93	80-120			
Carbofuran	9.28	1.0	2.0	ug/l	10.0		93	70-130			
Methiocarb	10.1	1.0	2.0	ug/l	10.0		101	80-120			
Methomyl	9.93	1.3	2.0	ug/l	10.0		99	80-120			
Oxamyl	10.7	1.1	2.0	ug/l	10.0		107	80-120			
Propoxur (Baygon)	10.3	1.4	2.0	ug/l	10.0		103	80-120			
Surrogate(s)											
BDMC	*9.13*			*ug/l*	*10.0*		*91*	*70-130*			
Matrix Spike (W2H1255-MS1)	**Source: 2G15022-02**				**Prepared: 08/15/22 Analyzed: 08/16/22**						
3-Hydroxycarbofuran	11.7	0.82	2.0	ug/l	10.0	ND	117	70-130			
Aldicarb	10.4	0.58	2.0	ug/l	10.0	ND	104	70-130			
Aldicarb sulfone	12.3	0.73	2.0	ug/l	10.0	ND	123	70-130			
Aldicarb sulfoxide	18.2	1.0	2.0	ug/l	10.0	ND	182	70-130			MS-01
Carbaryl	9.46	1.0	2.0	ug/l	10.0	ND	95	70-130			
Carbofuran	9.70	1.0	2.0	ug/l	10.0	ND	97	70-130			
Methiocarb	11.7	1.0	2.0	ug/l	10.0	ND	117	70-130			
Methomyl	12.0	1.3	2.0	ug/l	10.0	ND	120	70-130			
Oxamyl	12.3	1.1	2.0	ug/l	10.0	ND	123	70-130			
Propoxur (Baygon)	9.54	1.4	2.0	ug/l	10.0	ND	95	70-130			
Surrogate(s)											
BDMC	*9.71*			*ug/l*	*10.0*		*97*	*70-130*			
Matrix Spike Dup (W2H1255-MSD1)	**Source: 2G15022-02**				**Prepared: 08/15/22 Analyzed: 08/16/22**						
3-Hydroxycarbofuran	11.4	0.82	2.0	ug/l	10.0	ND	114	70-130	3	30	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Carbamates and Urea Pesticides (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1255 - EPA 531.2 (Continued)											
Matrix Spike Dup (W2H1255-MSD1)	**Source: 2G15022-02**				**Prepared: 08/15/22**	**Analyzed: 08/16/22**					
Aldicarb	11.1	0.58	2.0	ug/l	10.0	ND	111	70-130	6	30	
Aldicarb sulfone	13.5	0.73	2.0	ug/l	10.0	ND	135	70-130	9	30	MS-01
Aldicarb sulfoxide	18.4	1.0	2.0	ug/l	10.0	ND	184	70-130	0.9	30	MS-01
Carbaryl	9.98	1.0	2.0	ug/l	10.0	ND	100	70-130	5	30	
Carbofuran	10.0	1.0	2.0	ug/l	10.0	ND	100	70-130	4	30	
Methiocarb	12.9	1.0	2.0	ug/l	10.0	ND	129	70-130	9	30	
Methomyl	12.5	1.3	2.0	ug/l	10.0	ND	125	70-130	4	30	
Oxamyl	12.2	1.1	2.0	ug/l	10.0	ND	122	70-130	0.4	30	
Propoxur (Baygon)	10.2	1.4	2.0	ug/l	10.0	ND	102	70-130	6	30	
Surrogate(s)											
BDMC	*10.7*			*ug/l*	*10.0*		*107*	*70-130*			
Batch: W2H1673 - EPA 531.2											
Blank (W2H1673-BLK1)					**Prepared: 08/22/22**	**Analyzed: 08/24/22**					
3-Hydroxycarbofuran	ND	0.82	2.0	ug/l							
Aldicarb	ND	0.58	2.0	ug/l							
Aldicarb sulfone	ND	0.73	2.0	ug/l							
Aldicarb sulfoxide	ND	1.0	2.0	ug/l							
Carbaryl	ND	1.0	2.0	ug/l							
Carbofuran	ND	1.0	2.0	ug/l							
Methiocarb	ND	1.0	2.0	ug/l							
Methomyl	ND	1.3	2.0	ug/l							
Oxamyl	ND	1.1	2.0	ug/l							
Propoxur (Baygon)	ND	1.4	2.0	ug/l							
Surrogate(s)											
BDMC	*10.1*			*ug/l*	*10.0*		*101*	*70-130*			
LCS (W2H1673-BS1)					**Prepared: 08/22/22**	**Analyzed: 08/24/22**					
3-Hydroxycarbofuran	14.8	0.82	2.0	ug/l	10.0		148	70-130			Q-08
Aldicarb	15.1	0.58	2.0	ug/l	10.0		151	70-130			Q-08
Aldicarb sulfone	15.9	0.73	2.0	ug/l	10.0		159	70-130			Q-08
Aldicarb sulfoxide	17.6	1.0	2.0	ug/l	10.0		176	70-130			Q-08
Carbaryl	13.3	1.0	2.0	ug/l	10.0		133	70-130			Q-08
Carbofuran	15.2	1.0	2.0	ug/l	10.0		152	70-130			Q-08
Methiocarb	14.0	1.0	2.0	ug/l	10.0		140	70-130			Q-08
Methomyl	17.4	1.3	2.0	ug/l	10.0		174	70-130			Q-08
Oxamyl	17.0	1.1	2.0	ug/l	10.0		170	70-130			Q-08
Propoxur (Baygon)	16.8	1.4	2.0	ug/l	10.0		168	70-130			Q-08
Surrogate(s)											
BDMC	*10.9*			*ug/l*	*10.0*		*109*	*70-130*			
Matrix Spike (W2H1673-MS1)	**Source: 1G28007-01**				**Prepared: 08/22/22**	**Analyzed: 08/24/22**					

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Carbamates and Urea Pesticides (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1673 - EPA 531.2 (Continued)											
Matrix Spike (W2H1673-MS1)	**Source: 1G28007-01**				**Prepared: 08/22/22**	**Analyzed: 08/24/22**					
3-Hydroxycarbofuran	11.1	0.82	2.0	ug/l	10.0	ND	111	70-130			
Aldicarb	12.1	0.58	2.0	ug/l	10.0	ND	121	70-130			
Aldicarb sulfone	14.2	0.73	2.0	ug/l	10.0	ND	142	70-130			Q-08
Aldicarb sulfoxide	14.0	1.0	2.0	ug/l	10.0	ND	140	70-130			Q-08
Carbaryl	10.8	1.0	2.0	ug/l	10.0	ND	108	70-130			
Carbofuran	19.6	1.0	2.0	ug/l	10.0	ND	196	70-130			Q-08
Methiocarb	11.4	1.0	2.0	ug/l	10.0	ND	114	70-130			
Methomyl	13.7	1.3	2.0	ug/l	10.0	ND	137	70-130			Q-08
Oxamyl	13.5	1.1	2.0	ug/l	10.0	ND	135	70-130			Q-08
Propoxur (Baygon)	12.3	1.4	2.0	ug/l	10.0	ND	123	70-130			
Surrogate(s)											
BDMC	*10.2*			*ug/l*	*10.0*		*102*	*70-130*			
Matrix Spike Dup (W2H1673-MSD1)	**Source: 1G28007-01**				**Prepared: 08/22/22**	**Analyzed: 08/24/22**					
3-Hydroxycarbofuran	11.0	0.82	2.0	ug/l	10.0	ND	110	70-130	2	30	
Aldicarb	12.7	0.58	2.0	ug/l	10.0	ND	127	70-130	5	30	
Aldicarb sulfone	13.3	0.73	2.0	ug/l	10.0	ND	133	70-130	6	30	Q-08
Aldicarb sulfoxide	14.5	1.0	2.0	ug/l	10.0	ND	145	70-130	3	30	Q-08
Carbaryl	10.5	1.0	2.0	ug/l	10.0	ND	105	70-130	3	30	
Carbofuran	19.0	1.0	2.0	ug/l	10.0	ND	190	70-130	3	30	Q-08
Methiocarb	11.3	1.0	2.0	ug/l	10.0	ND	113	70-130	0.8	30	
Methomyl	14.3	1.3	2.0	ug/l	10.0	ND	143	70-130	4	30	Q-08
Oxamyl	13.7	1.1	2.0	ug/l	10.0	ND	137	70-130	1	30	Q-08
Propoxur (Baygon)	12.5	1.4	2.0	ug/l	10.0	ND	125	70-130	1	30	
Surrogate(s)											
BDMC	*10.2*			*ug/l*	*10.0*		*102*	*70-130*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Chlorinated Acids Herbicides by GC/ECD

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0686 - EPA 515.4											
Blank (W2H0686-BLK1)					**Prepared: 08/09/22 Analyzed: 08/10/22**						
2,4,5-T	ND	0.030	0.20	ug/l							
2,4,5-TP (Silvex)	ND	0.026	0.20	ug/l							
2,4-D	ND	0.14	0.40	ug/l							
2,4-DB	ND	0.19	2.0	ug/l							
3,5-Dichlorobenzoic acid	ND	0.12	1.0	ug/l							
Acifluorfen	ND	0.030	0.40	ug/l							
Bentazon	ND	0.23	2.0	ug/l							
Dalapon	ND	0.11	0.40	ug/l							
DCPA	ND	0.029	0.10	ug/l							
Dicamba	ND	0.049	0.60	ug/l							
Dichloroprop	ND	0.12	0.30	ug/l							
Dinoseb	ND	0.033	0.40	ug/l							
Pentachlorophenol	ND	0.046	0.20	ug/l							
Picloram	ND	0.050	0.60	ug/l							
Surrogate(s)											
2,4-DCAA	*9.10*			*ug/l*	*10.0*		*91*	*70-130*			
LCS (W2H0686-BS1)					**Prepared: 08/09/22 Analyzed: 08/10/22**						
2,4,5-T	4.15	0.030	0.20	ug/l	4.00		104	70-130			
2,4,5-TP (Silvex)	4.17	0.026	0.20	ug/l	4.00		104	70-130			
2,4-D	8.30	0.14	0.40	ug/l	8.00		104	70-130			
2,4-DB	16.1	0.19	2.0	ug/l	16.0		101	70-130			
3,5-Dichlorobenzoic acid	8.16	0.12	1.0	ug/l	8.00		102	70-130			
Acifluorfen	4.15	0.030	0.40	ug/l	4.00		104	70-130			
Bentazon	16.1	0.23	2.0	ug/l	16.0		101	70-130			
Dalapon	8.02	0.11	0.40	ug/l	8.00		100	70-130			
DCPA	4.10	0.029	0.10	ug/l	4.00		103	70-130			
Dicamba	8.38	0.049	0.60	ug/l	8.00		105	70-130			
Dichloroprop	8.36	0.12	0.30	ug/l	8.00		105	70-130			
Dinoseb	4.13	0.033	0.40	ug/l	4.00		103	70-130			
Pentachlorophenol	4.05	0.046	0.20	ug/l	4.00		101	70-130			
Picloram	3.99	0.050	0.60	ug/l	4.00		100	70-130			
Surrogate(s)											
2,4-DCAA	*10.1*			*ug/l*	*10.0*		*101*	*70-130*			
Matrix Spike (W2H0686-MS1)	**Source: 1G28007-01**				**Prepared: 08/09/22 Analyzed: 08/10/22**						
2,4,5-T	4.09	0.030	0.20	ug/l	4.00	ND	102	70-130			
2,4,5-TP (Silvex)	4.14	0.026	0.20	ug/l	4.00	ND	103	70-130			
2,4-D	8.29	0.14	0.40	ug/l	8.00	ND	104	70-130			
2,4-DB	16.7	0.19	2.0	ug/l	16.0	ND	104	70-130			
3,5-Dichlorobenzoic acid	8.22	0.12	1.0	ug/l	8.00	ND	103	70-130			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Chlorinated Acids Herbicides by GC/ECD (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0686 - EPA 515.4 (Continued)											
Matrix Spike (W2H0686-MS1)	**Source: 1G28007-01**				**Prepared: 08/09/22**	**Analyzed: 08/10/22**					
Acifluorfen	4.08	0.030	0.40	ug/l	4.00	ND	102	70-130			
Bentazon	15.9	0.23	2.0	ug/l	16.0	ND	100	70-130			
Dalapon	8.37	0.11	0.40	ug/l	8.00	ND	105	70-130			
DCPA	4.16	0.029	0.10	ug/l	4.00	ND	104	70-130			
Dicamba	8.42	0.049	0.60	ug/l	8.00	ND	105	70-130			
Dichloroprop	8.33	0.12	0.30	ug/l	8.00	ND	104	70-130			
Dinoseb	4.04	0.033	0.40	ug/l	4.00	ND	101	70-130			
Pentachlorophenol	4.06	0.046	0.20	ug/l	4.00	ND	101	70-130			
Picloram	3.97	0.050	0.60	ug/l	4.00	ND	99	70-130			
Surrogate(s)											
2,4-DCAA	*10.0*			*ug/l*	*10.0*		*100*	*70-130*			
Matrix Spike Dup (W2H0686-MSD1)	**Source: 1G28007-01**				**Prepared: 08/09/22**	**Analyzed: 08/10/22**					
2,4,5-T	4.05	0.030	0.20	ug/l	4.00	ND	101	70-130	0.8	30	
2,4,5-TP (Silvex)	4.04	0.026	0.20	ug/l	4.00	ND	101	70-130	2	30	
2,4-D	8.21	0.14	0.40	ug/l	8.00	ND	103	70-130	1	30	
2,4-DB	16.6	0.19	2.0	ug/l	16.0	ND	104	70-130	0.3	30	
3,5-Dichlorobenzoic acid	8.35	0.12	1.0	ug/l	8.00	ND	104	70-130	2	30	
Acifluorfen	4.02	0.030	0.40	ug/l	4.00	ND	101	70-130	1	30	
Bentazon	15.3	0.23	2.0	ug/l	16.0	ND	95	70-130	4	30	
Dalapon	8.09	0.11	0.40	ug/l	8.00	ND	101	70-130	3	30	
DCPA	4.07	0.029	0.10	ug/l	4.00	ND	102	70-130	2	30	
Dicamba	8.20	0.049	0.60	ug/l	8.00	ND	103	70-130	3	30	
Dichloroprop	8.07	0.12	0.30	ug/l	8.00	ND	101	70-130	3	30	
Dinoseb	3.93	0.033	0.40	ug/l	4.00	ND	98	70-130	3	30	
Pentachlorophenol	3.98	0.046	0.20	ug/l	4.00	ND	99	70-130	2	30	
Picloram	3.96	0.050	0.60	ug/l	4.00	ND	99	70-130	0.09	30	
Surrogate(s)											
2,4-DCAA	*9.86*			*ug/l*	*10.0*		*99*	*70-130*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1280 - EPA 508.1											
Blank (W2H1280-BLK1)					**Prepared: 08/16/22 Analyzed: 08/19/22**						
4,4´-DDD	ND	0.0030	0.010	ug/l							
4,4´-DDE	ND	0.0018	0.010	ug/l							
4,4´-DDT	ND	0.0030	0.010	ug/l							
Aldrin	ND	0.0040	0.010	ug/l							
alpha-BHC	ND	0.0019	0.010	ug/l							
Aroclor 1016	ND	0.016	0.10	ug/l							
Aroclor 1221	ND	0.044	0.10	ug/l							
Aroclor 1232	ND	0.010	0.10	ug/l							
Aroclor 1242	ND	0.074	0.10	ug/l							
Aroclor 1248	ND	0.094	0.10	ug/l							
Aroclor 1254	ND	0.087	0.10	ug/l							
Aroclor 1260	ND	0.038	0.10	ug/l							
beta-BHC	ND	0.0024	0.010	ug/l							
Chlordane (tech)	ND	0.067	0.10	ug/l							
Chlorothalonil	ND	0.0015	0.050	ug/l							
delta-BHC	ND	0.0030	0.010	ug/l							
Dieldrin	ND	0.0030	0.010	ug/l							
Endosulfan I	ND	0.0030	0.010	ug/l							
Endosulfan II	ND	0.0016	0.010	ug/l							
Endosulfan sulfate	ND	0.0030	0.010	ug/l							
Endrin	ND	0.0013	0.010	ug/l							
Endrin aldehyde	ND	0.0040	0.010	ug/l							
gamma-BHC (Lindane)	ND	0.0030	0.010	ug/l							
Heptachlor	ND	0.0017	0.010	ug/l							
Heptachlor epoxide	ND	0.0019	0.010	ug/l							
Hexachlorobenzene	ND	0.0040	0.050	ug/l							
Hexachlorocyclopentadiene	ND	0.0065	0.050	ug/l							
Methoxychlor	ND	0.0030	0.010	ug/l							
PCBs, Total	ND		0.50	ug/l							
Propachlor	ND	0.020	0.050	ug/l							
Toxaphene	ND	0.37	0.50	ug/l							
Trifluralin	ND	0.0020	0.010	ug/l							
Surrogate(s)											
4,4-Dibromobiphenyl	*0.0871*			*ug/l*	*0.100*		*87*	*70-130*			
Blank (W2H1280-BLK2)					**Prepared: 08/16/22 Analyzed: 08/23/22**						
4,4´-DDD	ND	0.0030	0.010	ug/l							QC-2
4,4´-DDE	ND	0.0018	0.010	ug/l							QC-2
4,4´-DDT	ND	0.0030	0.010	ug/l							QC-2
Aldrin	ND	0.0040	0.010	ug/l							QC-2

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1280 - EPA 508.1 (Continued)											
Blank (W2H1280-BLK2)					**Prepared: 08/16/22 Analyzed: 08/23/22**						
alpha-BHC	ND	0.0019	0.010	ug/l							QC-2
Aroclor 1016	ND	0.016	0.10	ug/l							QC-2
Aroclor 1221	ND	0.044	0.10	ug/l							QC-2
Aroclor 1232	ND	0.010	0.10	ug/l							QC-2
Aroclor 1242	ND	0.074	0.10	ug/l							QC-2
Aroclor 1248	ND	0.094	0.10	ug/l							QC-2
Aroclor 1254	ND	0.087	0.10	ug/l							QC-2
Aroclor 1260	ND	0.038	0.10	ug/l							QC-2
beta-BHC	ND	0.0024	0.010	ug/l							QC-2
Chlordane (tech)	ND	0.067	0.10	ug/l							QC-2
Chlorothalonil	ND	0.0015	0.050	ug/l							QC-2
delta-BHC	ND	0.0030	0.010	ug/l							QC-2
Dieldrin	ND	0.0030	0.010	ug/l							QC-2
Endosulfan I	ND	0.0030	0.010	ug/l							QC-2
Endosulfan II	ND	0.0016	0.010	ug/l							QC-2
Endosulfan sulfate	ND	0.0030	0.010	ug/l							QC-2
Endrin	ND	0.0013	0.010	ug/l							QC-2
Endrin aldehyde	ND	0.0040	0.010	ug/l							QC-2
gamma-BHC (Lindane)	ND	0.0030	0.010	ug/l							QC-2
Heptachlor	ND	0.0017	0.010	ug/l							QC-2
Heptachlor epoxide	ND	0.0019	0.010	ug/l							QC-2
Hexachlorobenzene	ND	0.0040	0.050	ug/l							QC-2
Hexachlorocyclopentadiene	ND	0.0065	0.050	ug/l							QC-2
Methoxychlor	ND	0.0030	0.010	ug/l							QC-2
PCBs, Total	ND		0.50	ug/l							QC-2
Propachlor	ND	0.020	0.050	ug/l							QC-2
Toxaphene	ND	0.37	0.50	ug/l							QC-2
Trifluralin	ND	0.0020	0.010	ug/l							QC-2
Surrogate(s)											
4,4-Dibromobiphenyl	*0.0875*			*ug/l*	*0.100*		*87*	*70-130*			QC-2
LCS (W2H1280-BS1)					**Prepared: 08/16/22 Analyzed: 08/19/22**						
4,4´-DDD	0.0961	0.0030	0.010	ug/l	0.100		96	70-130			
4,4´-DDE	0.0799	0.0018	0.010	ug/l	0.100		80	70-130			
4,4´-DDT	0.0902	0.0030	0.010	ug/l	0.100		90	70-130			
Aldrin	0.0717	0.0040	0.010	ug/l	0.100		72	50-130			
alpha-BHC	0.100	0.0019	0.010	ug/l	0.100		100	70-130			
beta-BHC	0.0931	0.0024	0.010	ug/l	0.100		93	70-130			
delta-BHC	0.0979	0.0030	0.010	ug/l	0.100		98	70-130			
Dieldrin	0.0859	0.0030	0.010	ug/l	0.100		86	70-130			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1280 - EPA 508.1 (Continued)											
LCS (W2H1280-BS1)					**Prepared: 08/16/22 Analyzed: 08/19/22**						
Endosulfan I	0.0871	0.0030	0.010	ug/l	0.100		87	70-130			
Endosulfan II	0.0886	0.0016	0.010	ug/l	0.100		89	70-130			
Endosulfan sulfate	0.103	0.0030	0.010	ug/l	0.100		103	70-130			
Endrin	0.0924	0.0013	0.010	ug/l	0.100		92	70-130			
Endrin aldehyde	0.0853	0.0040	0.010	ug/l	0.100		85	70-130			
gamma-BHC (Lindane)	0.0979	0.0030	0.010	ug/l	0.100		98	70-130			
Heptachlor	0.0885	0.0017	0.010	ug/l	0.100		89	70-130			
Heptachlor epoxide	0.0952	0.0019	0.010	ug/l	0.100		95	70-130			
Methoxychlor	0.103	0.0030	0.010	ug/l	0.100		103	70-130			
Surrogate(s)											
4,4-Dibromobiphenyl	*0.0935*			*ug/l*	*0.100*		*93*	*70-130*			
LCS (W2H1280-BS2)					**Prepared: 08/16/22 Analyzed: 08/19/22**						
Toxaphene	1.18	0.37	0.50	ug/l	1.00		118	70-130			
Surrogate(s)											
4,4-Dibromobiphenyl	*0.0829*			*ug/l*	*0.100*		*83*	*70-130*			
LCS (W2H1280-BS3)					**Prepared: 08/16/22 Analyzed: 08/23/22**						
4,4´-DDD	0.0986	0.0030	0.010	ug/l	0.100		99	70-130			QC-2
4,4´-DDE	0.0819	0.0018	0.010	ug/l	0.100		82	70-130			QC-2
4,4´-DDT	0.0955	0.0030	0.010	ug/l	0.100		95	70-130			QC-2
Aldrin	0.0721	0.0040	0.010	ug/l	0.100		72	50-130			QC-2
alpha-BHC	0.0999	0.0019	0.010	ug/l	0.100		100	70-130			QC-2
beta-BHC	0.0930	0.0024	0.010	ug/l	0.100		93	70-130			QC-2
delta-BHC	0.0994	0.0030	0.010	ug/l	0.100		99	70-130			QC-2
Dieldrin	0.0860	0.0030	0.010	ug/l	0.100		86	70-130			QC-2
Endosulfan I	0.0869	0.0030	0.010	ug/l	0.100		87	70-130			QC-2
Endosulfan II	0.0896	0.0016	0.010	ug/l	0.100		90	70-130			QC-2
Endosulfan sulfate	0.108	0.0030	0.010	ug/l	0.100		108	70-130			QC-2
Endrin	0.0968	0.0013	0.010	ug/l	0.100		97	70-130			QC-2
Endrin aldehyde	0.0862	0.0040	0.010	ug/l	0.100		86	70-130			QC-2
gamma-BHC (Lindane)	0.0979	0.0030	0.010	ug/l	0.100		98	70-130			QC-2
Heptachlor	0.0891	0.0017	0.010	ug/l	0.100		89	70-130			QC-2
Heptachlor epoxide	0.0940	0.0019	0.010	ug/l	0.100		94	70-130			QC-2
Methoxychlor	0.111	0.0030	0.010	ug/l	0.100		111	70-130			QC-2
Surrogate(s)											
4,4-Dibromobiphenyl	*0.0927*			*ug/l*	*0.100*		*93*	*70-130*			*QC-2*
LCS (W2H1280-BS4)					**Prepared: 08/16/22 Analyzed: 08/23/22**						
Toxaphene	1.22	0.37	0.50	ug/l	1.00		122	70-130			QC-2
Surrogate(s)											
4,4-Dibromobiphenyl	*0.0830*			*ug/l*	*0.100*		*83*	*70-130*			*QC-2*
Matrix Spike (W2H1280-MS1)	**Source: 1G28007-01**				**Prepared: 08/16/22 Analyzed: 08/20/22**						

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1280 - EPA 508.1 (Continued)											
Matrix Spike (W2H1280-MS1)	**Source: 1G28007-01**				**Prepared: 08/16/22**	**Analyzed: 08/20/22**					
4,4´-DDD	0.108	0.0030	0.010	ug/l	0.101	ND	106	65-135			
4,4´-DDE	0.0918	0.0018	0.010	ug/l	0.101	ND	91	65-135			
4,4´-DDT	0.100	0.0030	0.010	ug/l	0.101	ND	99	65-135			
Aldrin	0.0835	0.0040	0.010	ug/l	0.101	ND	82	65-135			
alpha-BHC	0.103	0.0019	0.010	ug/l	0.101	ND	101	65-135			
beta-BHC	0.0990	0.0024	0.010	ug/l	0.101	ND	98	65-135			
delta-BHC	0.105	0.0030	0.010	ug/l	0.101	ND	103	65-135			
Dieldrin	0.0912	0.0030	0.010	ug/l	0.101	ND	90	65-135			
Endosulfan I	0.0920	0.0030	0.010	ug/l	0.101	ND	91	65-135			
Endosulfan II	0.0942	0.0016	0.010	ug/l	0.101	ND	93	65-135			
Endosulfan sulfate	0.118	0.0030	0.010	ug/l	0.101	ND	117	65-135			
Endrin	0.101	0.0013	0.010	ug/l	0.101	ND	100	65-135			
Endrin aldehyde	0.0917	0.0040	0.010	ug/l	0.101	ND	90	65-135			
gamma-BHC (Lindane)	0.102	0.0030	0.010	ug/l	0.101	ND	101	65-135			
Heptachlor	0.0957	0.0017	0.010	ug/l	0.101	ND	94	65-135			
Heptachlor epoxide	0.0997	0.0019	0.010	ug/l	0.101	ND	98	65-135			
Methoxychlor	0.121	0.0030	0.010	ug/l	0.101	ND	120	65-135			
Surrogate(s)											
4,4-Dibromobiphenyl	*0.100*			*ug/l*	*0.101*		*99*	*70-130*			
Matrix Spike Dup (W2H1280-MSD1)	**Source: 1G28007-01**				**Prepared: 08/16/22**	**Analyzed: 08/20/22**					
4,4´-DDD	0.0824	0.0030	0.010	ug/l	0.101	ND	82	65-135	27	30	
4,4´-DDE	0.0646	0.0018	0.010	ug/l	0.101	ND	64	65-135	35	30	MS-01, R-02
4,4´-DDT	0.0715	0.0030	0.010	ug/l	0.101	ND	71	65-135	33	30	R-02
Aldrin	0.0480	0.0040	0.010	ug/l	0.101	ND	48	65-135	54	30	MS-01, R-02
alpha-BHC	0.0938	0.0019	0.010	ug/l	0.101	ND	93	65-135	9	30	
beta-BHC	0.0895	0.0024	0.010	ug/l	0.101	ND	89	65-135	10	30	
delta-BHC	0.0955	0.0030	0.010	ug/l	0.101	ND	95	65-135	9	30	
Dieldrin	0.0755	0.0030	0.010	ug/l	0.101	ND	75	65-135	19	30	
Endosulfan I	0.0788	0.0030	0.010	ug/l	0.101	ND	78	65-135	15	30	
Endosulfan II	0.0785	0.0016	0.010	ug/l	0.101	ND	78	65-135	18	30	
Endosulfan sulfate	0.102	0.0030	0.010	ug/l	0.101	ND	101	65-135	14	30	
Endrin	0.0837	0.0013	0.010	ug/l	0.101	ND	83	65-135	19	30	
Endrin aldehyde	0.0728	0.0040	0.010	ug/l	0.101	ND	72	65-135	23	30	
gamma-BHC (Lindane)	0.0933	0.0030	0.010	ug/l	0.101	ND	93	65-135	9	30	
Heptachlor	0.0757	0.0017	0.010	ug/l	0.101	ND	75	65-135	23	30	
Heptachlor epoxide	0.0874	0.0019	0.010	ug/l	0.101	ND	87	65-135	13	30	
Methoxychlor	0.0974	0.0030	0.010	ug/l	0.101	ND	97	65-135	22	30	
Surrogate(s)											
4,4-Dibromobiphenyl	*0.0930*			*ug/l*	*0.101*		*92*	*70-130*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Diquat and Paraquat by EPA 549.2

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0401 - EPA 549.2											
Blank (W2H0401-BLK1)					**Prepared: 08/04/22**	**Analyzed: 08/17/22**					
Diquat	ND	0.90	4.0	ug/l							
Paraquat	ND	1.2	4.0	ug/l							
LCS (W2H0401-BS1)					**Prepared: 08/04/22**	**Analyzed: 08/17/22**					
Diquat	14.7	0.90	4.0	ug/l	20.0		73	70-130			
Paraquat	17.4	1.2	4.0	ug/l	20.0		87	70-130			
Matrix Spike (W2H0401-MS1)	**Source: 2H02052-01**				**Prepared: 08/04/22**	**Analyzed: 08/17/22**					
Diquat	13.8	0.90	4.0	ug/l	20.0	ND	69	46-122			
Paraquat	15.7	1.2	4.0	ug/l	20.0	ND	78	38-129			
Matrix Spike Dup (W2H0401-MSD1)	**Source: 2H02052-01**				**Prepared: 08/04/22**	**Analyzed: 08/17/22**					
Diquat	15.2	0.90	4.0	ug/l	20.0	ND	76	46-122	10	30	
Paraquat	17.8	1.2	4.0	ug/l	20.0	ND	89	38-129	13	30	

Quality Control Results

(Continued)

Endothall By EPA 548.1

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0594 - EPA 548.1											
Blank (W2H0594-BLK1)					**Prepared: 08/09/22**	**Analyzed: 08/11/22**					
Endothall	ND	11	40	ug/l							
Blank (W2H0594-BLK2)					**Prepared: 08/09/22**	**Analyzed: 08/13/22**					
Endothall	ND	11	40	ug/l							QC-2
LCS (W2H0594-BS1)					**Prepared: 08/09/22**	**Analyzed: 08/11/22**					
Endothall	99.1	11	40	ug/l	100		99	31-117			
LCS (W2H0594-BS2)					**Prepared: 08/09/22**	**Analyzed: 08/13/22**					
Endothall	97.1	11	40	ug/l	100		97	31-117			QC-2
Matrix Spike (W2H0594-MS1)	**Source: 2H05046-01**				**Prepared: 08/09/22**	**Analyzed: 08/11/22**					
Endothall	7.75	0.0	80	ug/l	200	ND	4	0.1-109			J
Matrix Spike (W2H0594-MS2)	**Source: 1G28007-01**				**Prepared: 08/09/22**	**Analyzed: 08/11/22**					
Endothall	22.6	22	80	ug/l	200	ND	11	0.1-109			J
Matrix Spike Dup (W2H0594-MSD1)	**Source: 2H05046-01**				**Prepared: 08/09/22**	**Analyzed: 08/11/22**					
Endothall	9.41	0.0	80	ug/l	200	ND	5	0.1-109	200	30	R-03, J
Matrix Spike Dup (W2H0594-MSD2)	**Source: 1G28007-01**				**Prepared: 08/09/22**	**Analyzed: 08/11/22**					
Endothall	22.7	22	80	ug/l	200	ND	11	0.1-109	0.7	30	J

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Glyphosate by EPA 547

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0546 - EPA 547											
Blank (W2H0546-BLK1)					**Prepared & Analyzed: 08/05/22**						
Glyphosate	ND	1.8	5.0	ug/l							
Blank (W2H0546-BLK2)					**Prepared: 08/05/22 Analyzed: 08/08/22**						
Glyphosate	ND	1.8	5.0	ug/l							QC-2
LCS (W2H0546-BS1)					**Prepared & Analyzed: 08/05/22**						
Glyphosate	28.4	1.8	5.0	ug/l	25.0		114	70-130			
LCS (W2H0546-BS2)					**Prepared: 08/05/22 Analyzed: 08/08/22**						
Glyphosate	28.1	1.8	5.0	ug/l	25.0		112	70-130			QC-2
Matrix Spike (W2H0546-MS1)	**Source: 1G28007-01**				**Prepared & Analyzed: 08/05/22**						
Glyphosate	22.4	1.8	5.0	ug/l	25.0	ND	90	41-149			
Matrix Spike (W2H0546-MS2)	**Source: 2G22002-02**				**Prepared & Analyzed: 08/05/22**						
Glyphosate	29.6	1.8	5.0	ug/l	25.0	ND	118	41-149			
Matrix Spike Dup (W2H0546-MSD1)	**Source: 1G28007-01**				**Prepared & Analyzed: 08/05/22**						
Glyphosate	30.0	1.8	5.0	ug/l	25.0	ND	120	41-149	29	30	
Matrix Spike Dup (W2H0546-MSD2)	**Source: 2G22002-02**				**Prepared & Analyzed: 08/05/22**						
Glyphosate	31.4	1.8	5.0	ug/l	25.0	ND	125	41-149	6	30	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Haloacetic Acids (HAAs) by GC/ECD

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0521 - EPA 552.3											
Blank (W2H0521-BLK1)					**Prepared: 08/05/22**	**Analyzed: 08/10/22**					
Dibromoacetic acid (dbaa)	ND	0.28	1.0	ug/l							
Dichloroacetic acid (dcaa)	ND	0.29	1.0	ug/l							
Monobromoacetic acid (mbaa)	ND	0.34	1.0	ug/l							
Monochloroacetic acid (mcaa)	ND	0.31	2.0	ug/l							
Trichloroacetic acid (tcaa)	ND	0.29	1.0	ug/l							
Surrogate(s)											
2-Bromobutyric acid	*10.1*			*ug/l*	*10.0*		*101*	*70-130*			
LCS (W2H0521-BS1)					**Prepared: 08/05/22**	**Analyzed: 08/10/22**					
Dibromoacetic acid (dbaa)	9.88	0.28	1.0	ug/l	10.0		99	70-130			
Dichloroacetic acid (dcaa)	9.94	0.29	1.0	ug/l	10.0		99	70-130			
Monobromoacetic acid (mbaa)	9.72	0.34	1.0	ug/l	10.0		97	70-130			
Monochloroacetic acid (mcaa)	9.60	0.31	2.0	ug/l	10.0		96	70-130			
Trichloroacetic acid (tcaa)	10.1	0.29	1.0	ug/l	10.0		101	70-130			
Surrogate(s)											
2-Bromobutyric acid	*10.3*			*ug/l*	*10.0*		*103*	*70-130*			
Matrix Spike (W2H0521-MS1)	**Source: 2G29041-01**				**Prepared: 08/05/22**	**Analyzed: 08/10/22**					
Dibromoacetic acid (dbaa)	11.2	0.28	1.0	ug/l	10.0	1.08	101	70-130			
Dichloroacetic acid (dcaa)	10.4	0.29	1.0	ug/l	10.0	0.482	99	70-130			
Monobromoacetic acid (mbaa)	9.55	0.34	1.0	ug/l	10.0	ND	95	70-130			
Monochloroacetic acid (mcaa)	5.68	0.31	2.0	ug/l	10.0	0.945	47	70-130			MS-01
Trichloroacetic acid (tcaa)	10.6	0.29	1.0	ug/l	10.0	0.831	98	70-130			
Surrogate(s)											
2-Bromobutyric acid	*9.54*			*ug/l*	*10.0*		*95*	*70-130*			
Matrix Spike Dup (W2H0521-MSD1)	**Source: 2G29041-01**				**Prepared: 08/05/22**	**Analyzed: 08/10/22**					
Dibromoacetic acid (dbaa)	10.7	0.28	1.0	ug/l	10.0	1.08	96	70-130	5	30	
Dichloroacetic acid (dcaa)	10.4	0.29	1.0	ug/l	10.0	0.482	99	70-130	0.4	30	
Monobromoacetic acid (mbaa)	9.92	0.34	1.0	ug/l	10.0	ND	99	70-130	4	30	
Monochloroacetic acid (mcaa)	6.18	0.31	2.0	ug/l	10.0	0.945	52	70-130	8	30	MS-01
Trichloroacetic acid (tcaa)	10.3	0.29	1.0	ug/l	10.0	0.831	95	70-130	3	30	
Surrogate(s)											
2-Bromobutyric acid	*9.14*			*ug/l*	*10.0*		*91*	*70-130*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Hexavalent Chromium by IC

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0547 - EPA 218.6											
Blank (W2H0547-BLK1)					**Prepared & Analyzed: 08/05/22**						
Chromium 6+	ND	0.0079	0.020	ug/l							
LCS (W2H0547-BS1)					**Prepared & Analyzed: 08/05/22**						
Chromium 6+	5.03	0.0079	0.020	ug/l	5.00		101	90-110			
Matrix Spike (W2H0547-MS1)	**Source: 2G26003-01**				**Prepared & Analyzed: 08/05/22**						
Chromium 6+	5.16	0.0079	0.020	ug/l	5.00	ND	103	88-112			
Matrix Spike (W2H0547-MS2)	**Source: 2H01109-01**				**Prepared & Analyzed: 08/05/22**						
Chromium 6+	6.15	0.0079	0.020	ug/l	5.00	0.793	107	88-112			
Matrix Spike Dup (W2H0547-MSD1)	**Source: 2G26003-01**				**Prepared & Analyzed: 08/05/22**						
Chromium 6+	5.23	0.0079	0.020	ug/l	5.00	ND	105	88-112	1	10	
Matrix Spike Dup (W2H0547-MSD2)	**Source: 2H01109-01**				**Prepared & Analyzed: 08/05/22**						
Chromium 6+	6.09	0.0079	0.020	ug/l	5.00	0.793	106	88-112	1	10	

Quality Control Results

(Continued)

Nitrosamines by isotopic dilution GC/MS CI Mode

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0652 - EPA 1625B											
Blank (W2H0652-BLK1)					**Prepared: 08/08/22 Analyzed: 08/11/22**						
N-Nitrosodimethylamine	ND	0.66	2.0	ng/l							
LCS (W2H0652-BS1)					**Prepared: 08/08/22 Analyzed: 08/11/22**						
N-Nitrosodimethylamine	1.95	0.66	2.0	ng/l	2.00		97	50-150			J
LCS Dup (W2H0652-BSD1)					**Prepared: 08/08/22 Analyzed: 08/11/22**						
N-Nitrosodimethylamine	1.86	0.66	2.0	ng/l	2.00		93	50-150	4	50	J

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0443 - EPA 1694M											
Blank (W2H0443-BLK1)					**Prepared: 08/04/22 Analyzed: 08/05/22**						
17-b-Estradiol	ND	4.0	4.0	ng/l							
Ibuprofen	ND	4.0	4.0	ng/l							
Iohexol	ND	5.0	5.0	ng/l							
Sucralose	ND	20	20	ng/l							
Surrogate(s)											
17-b-Estradiol-d3	*189*			*ng/l*	*200*		*95*	*20-500*			
Ibuprofen-d3	*211*			*ng/l*	*200*		*105*	*20-500*			
Iohexol-d5	*514*			*ng/l*	*500*		*103*	*20-500*			
Sucralose-d6	*1130*			*ng/l*	*1000*		*113*	*20-500*			
Blank (W2H0443-BLK2)					**Prepared: 08/04/22 Analyzed: 08/08/22**						
17-b-Estradiol	ND	4.0	4.0	ng/l							QC-2
Ibuprofen	ND	4.0	4.0	ng/l							QC-2
Iohexol	ND	5.0	5.0	ng/l							QC-2
Sucralose	ND	20	20	ng/l							QC-2
Surrogate(s)											
17-b-Estradiol-d3	*174*			*ng/l*	*200*		*87*	*20-500*			*QC-2*
Ibuprofen-d3	*229*			*ng/l*	*200*		*115*	*20-500*			*QC-2*
Iohexol-d5	*627*			*ng/l*	*500*		*125*	*20-500*			*QC-2*
Sucralose-d6	*1050*			*ng/l*	*1000*		*105*	*20-500*			*QC-2*
LCS (W2H0443-BS1)					**Prepared: 08/04/22 Analyzed: 08/05/22**						
17-b-Estradiol	38.0	4.0	4.0	ng/l	40.0		95	50-150			
Ibuprofen	33.7	4.0	4.0	ng/l	40.0		84	50-150			
Iohexol	49.5	5.0	5.0	ng/l	50.0		99	50-150			
Sucralose	213	20	20	ng/l	200		106	50-150			
Surrogate(s)											
17-b-Estradiol-d3	*202*			*ng/l*	*200*		*101*	*20-500*			
Ibuprofen-d3	*197*			*ng/l*	*200*		*99*	*20-500*			
Iohexol-d5	*469*			*ng/l*	*500*		*94*	*20-500*			
Sucralose-d6	*1070*			*ng/l*	*1000*		*107*	*20-500*			
LCS (W2H0443-BS2)					**Prepared: 08/04/22 Analyzed: 08/08/22**						
17-b-Estradiol	38.7	4.0	4.0	ng/l	40.0		97	50-150			QC-2
Ibuprofen	49.9	4.0	4.0	ng/l	40.0		125	50-150			QC-2
Iohexol	45.3	5.0	5.0	ng/l	50.0		91	50-150			QC-2
Sucralose	226	20	20	ng/l	200		113	50-150			QC-2
Surrogate(s)											
17-b-Estradiol-d3	*187*			*ng/l*	*200*		*94*	*20-500*			*QC-2*
Ibuprofen-d3	*213*			*ng/l*	*200*		*106*	*20-500*			*QC-2*
Iohexol-d5	*611*			*ng/l*	*500*		*122*	*20-500*			*QC-2*
Sucralose-d6	*1030*			*ng/l*	*1000*		*103*	*20-500*			*QC-2*
Matrix Spike (W2H0443-MS1)	**Source: 2H03125-01RE1**				**Prepared: 08/04/22 Analyzed: 08/08/22**						

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0443 - EPA 1694M (Continued)											
Matrix Spike (W2H0443-MS1)	**Source: 2H03125-01RE1**				**Prepared: 08/04/22**	**Analyzed: 08/08/22**					
17-b-Estradiol	765	80	80	ng/l	800	ND	96	50-150			M-05
Ibuprofen	757	80	80	ng/l	800	ND	95	50-150			M-05
Iohexol	833	100	100	ng/l	1000	ND	83	50-150			M-05
Sucralose	13600	400	400	ng/l	4000	5030	214	50-150			M-05, MS-01
Surrogate(s)											
17-b-Estradiol-d3	*186*			*ng/l*	*200*		*93*	*20-500*			
Ibuprofen-d3	*214*			*ng/l*	*200*		*107*	*20-500*			
Iohexol-d5	*258*			*ng/l*	*500*		*52*	*20-500*			
Sucralose-d6	*501*			*ng/l*	*1000*		*50*	*20-500*			
Matrix Spike Dup (W2H0443-MSD1)	**Source: 2H03125-01RE1**				**Prepared: 08/04/22**	**Analyzed: 08/08/22**					
17-b-Estradiol	707	80	80	ng/l	800	ND	88	50-150	8	30	M-05
Ibuprofen	850	80	80	ng/l	800	ND	106	50-150	12	30	M-05
Iohexol	982	100	100	ng/l	1000	ND	98	50-150	16	30	M-05
Sucralose	9640	400	400	ng/l	4000	5030	115	50-150	34	30	M-05, R-02
Surrogate(s)											
17-b-Estradiol-d3	*204*			*ng/l*	*200*		*102*	*20-500*			
Ibuprofen-d3	*196*			*ng/l*	*200*		*98*	*20-500*			
Iohexol-d5	*320*			*ng/l*	*500*		*64*	*20-500*			
Sucralose-d6	*623*			*ng/l*	*1000*		*62*	*20-500*			
Batch: W2H0444 - EPA 1694M											
Blank (W2H0444-BLK1)					**Prepared & Analyzed: 08/04/22**						
17-a-Ethynylestradiol	ND	4.0	4.0	ng/l							
Diclofenac	ND	4.0	4.0	ng/l							
Diethylstilbestrol	ND	4.0	4.0	ng/l							
Epitestosterone	ND	4.0	4.0	ng/l							
Estriol	ND	4.0	4.0	ng/l							
Estrone	ND	4.0	4.0	ng/l							
Galaxolide (HHCB)	ND	40	40	ng/l							
Gemfibrozil	ND	4.0	4.0	ng/l							
Hydrochlorothiazide	ND	20	20	ng/l							
Iopromide	ND	4.0	4.0	ng/l							
Naproxen	ND	4.0	4.0	ng/l							
Phenytoin (Dilantin)	ND	4.0	4.0	ng/l							
Primidone	ND	4.0	4.0	ng/l							
Salicylic Acid	ND	100	100	ng/l							
TDCPP	ND	50	50	ng/l							
Testosterone	ND	4.0	4.0	ng/l							
Triclosan	ND	8.0	8.0	ng/l							
Surrogate(s)											

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0444 - EPA 1694M (Continued)											
Blank (W2H0444-BLK1)					**Prepared & Analyzed: 08/04/22**						
Surrogate(s)											
17-a-Ethynylestradiol-d4	*187*			*ng/l*	*200*		*93*	*20-500*			
Bisphenol A-d16	*176*			*ng/l*	*200*		*88*	*20-500*			
Estriol-d2	*202*			*ng/l*	*200*		*101*	*20-500*			
Gemfibrozil-d6	*86.2*			*ng/l*	*100*		*86*	*20-500*			
Naproxen-d3	*215*			*ng/l*	*200*		*108*	*20-500*			
Phenytoin-d10	*198*			*ng/l*	*200*		*99*	*20-500*			
Primidone-d5	*203*			*ng/l*	*200*		*102*	*20-500*			
Progesterone-d9	*180*			*ng/l*	*200*		*90*	*20-500*			
Salicylic Acid-d4	*505*			*ng/l*	*500*		*101*	*20-500*			
Testosterone-d3	*217*			*ng/l*	*200*		*108*	*20-500*			
Triclosan-d3	*306*			*ng/l*	*400*		*76*	*20-500*			
Blank (W2H0444-BLK2)					**Prepared: 08/04/22 Analyzed: 08/05/22**						
Bisphenol A	ND	4.0	4.0	ng/l							QC-2
Progesterone	ND	4.0	4.0	ng/l							QC-2
Surrogate(s)											
Bisphenol A-d16	*177*			*ng/l*	*200*		*89*	*20-500*			*QC-2*
Progesterone-d9	*189*			*ng/l*	*200*		*94*	*20-500*			*QC-2*
LCS (W2H0444-BS1)					**Prepared & Analyzed: 08/04/22**						
17-a-Ethynylestradiol	35.7	4.0	4.0	ng/l	40.0		89	50-150			
Diclofenac	34.5	4.0	4.0	ng/l	40.0		86	50-150			
Diethylstilbestrol	36.1	4.0	4.0	ng/l	40.0		90	50-150			
Epitestosterone	41.9	4.0	4.0	ng/l	40.0		105	50-150			
Estriol	39.5	4.0	4.0	ng/l	40.0		99	50-150			
Estrone	34.5	4.0	4.0	ng/l	40.0		86	50-150			
Galaxolide (HHCB)	388	40	40	ng/l	400		97	50-150			
Gemfibrozil	38.5	4.0	4.0	ng/l	40.0		96	50-150			
Hydrochlorothiazide	190	20	20	ng/l	200		95	50-150			
Iopromide	41.7	4.0	4.0	ng/l	40.0		104	50-150			
Naproxen	43.0	4.0	4.0	ng/l	40.0		108	50-150			
Phenytoin (Dilantin)	37.1	4.0	4.0	ng/l	40.0		93	50-150			
Primidone	38.1	4.0	4.0	ng/l	40.0		95	50-150			
Salicylic Acid	922	100	100	ng/l	1000		92	50-150			
TDCPP	488	50	50	ng/l	500		98	50-150			
Testosterone	37.1	4.0	4.0	ng/l	40.0		93	50-150			
Triclosan	81.8	8.0	8.0	ng/l	80.0		102	50-150			
Surrogate(s)											
17-a-Ethynylestradiol-d4	*186*			*ng/l*	*200*		*93*	*20-500*			
Bisphenol A-d16	*170*			*ng/l*	*200*		*85*	*20-500*			
Estriol-d2	*192*			*ng/l*	*200*		*96*	*20-500*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0444 - EPA 1694M (Continued)											
LCS (W2H0444-BS1)					**Prepared & Analyzed: 08/04/22**						
Surrogate(s)											
Gemfibrozil-d6	*90.3*			*ng/l*	*100*		*90*	*20-500*			
Naproxen-d3	*199*			*ng/l*	*200*		*99*	*20-500*			
Phenytoin-d10	*209*			*ng/l*	*200*		*104*	*20-500*			
Primidone-d5	*212*			*ng/l*	*200*		*106*	*20-500*			
Progesterone-d9	*185*			*ng/l*	*200*		*93*	*20-500*			
Salicylic Acid-d4	*519*			*ng/l*	*500*		*104*	*20-500*			
Testosterone-d3	*210*			*ng/l*	*200*		*105*	*20-500*			
Triclosan-d3	*351*			*ng/l*	*400*		*88*	*20-500*			
LCS (W2H0444-BS2)					**Prepared: 08/04/22 Analyzed: 08/05/22**						
Bisphenol A	31.5	4.0	4.0	ng/l	40.0		79	50-150			QC-2
Progesterone	44.0	4.0	4.0	ng/l	40.0		110	50-150			QC-2
Surrogate(s)											
Bisphenol A-d16	*193*			*ng/l*	*200*		*96*	*20-500*			QC-2
Progesterone-d9	*196*			*ng/l*	*200*		*98*	*20-500*			QC-2
Matrix Spike (W2H0444-MS1)	**Source: 2G27058-01RE1**				**Prepared & Analyzed: 08/04/22**						
17-a-Ethynylestradiol	33.0	4.0	4.0	ng/l	40.0	ND	82	50-150			
Diclofenac	33.2	4.0	4.0	ng/l	40.0	ND	83	50-150			
Diethylstilbestrol	32.9	4.0	4.0	ng/l	40.0	ND	82	50-150			
Epitestosterone	43.6	4.0	4.0	ng/l	40.0	ND	109	50-150			
Estriol	46.1	4.0	4.0	ng/l	40.0	ND	115	50-150			
Estrone	37.1	4.0	4.0	ng/l	40.0	ND	93	50-150			
Galaxolide (HHCB)	187	40	40	ng/l	400	ND	47	50-150			MS-01
Gemfibrozil	32.8	4.0	4.0	ng/l	40.0	ND	82	50-150			
Hydrochlorothiazide	160	20	20	ng/l	200	ND	80	50-150			
Iopromide	39.7	4.0	4.0	ng/l	40.0	ND	99	50-150			
Naproxen	39.6	4.0	4.0	ng/l	40.0	ND	99	50-150			
Phenytoin (Dilantin)	36.5	4.0	4.0	ng/l	40.0	ND	91	50-150			
Primidone	50.5	4.0	4.0	ng/l	40.0	ND	126	50-150			
Salicylic Acid	959	100	100	ng/l	1000	ND	96	50-150			
TDCPP	495	50	50	ng/l	500	ND	99	50-150			
Testosterone	38.1	4.0	4.0	ng/l	40.0	ND	95	50-150			
Triclosan	73.0	8.0	8.0	ng/l	80.0	ND	91	50-150			
Surrogate(s)											
17-a-Ethynylestradiol-d4	*287*			*ng/l*	*200*		*143*	*20-500*			
Bisphenol A-d16	*259*			*ng/l*	*200*		*129*	*20-500*			
Estriol-d2	*204*			*ng/l*	*200*		*102*	*20-500*			
Gemfibrozil-d6	*130*			*ng/l*	*100*		*130*	*20-500*			
Naproxen-d3	*226*			*ng/l*	*200*		*113*	*20-500*			
Phenytoin-d10	*204*			*ng/l*	*200*		*102*	*20-500*			

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0444 - EPA 1694M (Continued)											
Matrix Spike (W2H0444-MS1)	**Source: 2G27058-01RE1**				**Prepared & Analyzed: 08/04/22**						
Surrogate(s)											
Primidone-d5	*60.6*			*ng/l*	*200*		*30*	*20-500*			
Progesterone-d9	*192*			*ng/l*	*200*		*96*	*20-500*			
Salicylic Acid-d4	*418*			*ng/l*	*500*		*84*	*20-500*			
Testosterone-d3	*203*			*ng/l*	*200*		*101*	*20-500*			
Triclosan-d3	*784*			*ng/l*	*400*		*196*	*20-500*			
Matrix Spike (W2H0444-MS2)	**Source: 2H03125-01**				**Prepared: 08/04/22 Analyzed: 08/05/22**						
Bisphenol A	37.8	4.0	4.0	ng/l	40.0	9.78	70	50-150			QC-2
Progesterone	37.2	4.0	4.0	ng/l	40.0	11.3	65	50-150			QC-2
Surrogate(s)											
Bisphenol A-d16	*271*			*ng/l*	*200*		*136*	*20-500*			*QC-2*
Progesterone-d9	*185*			*ng/l*	*200*		*93*	*20-500*			*QC-2*
Matrix Spike Dup (W2H0444-MSD1)	**Source: 2G27058-01RE1**				**Prepared & Analyzed: 08/04/22**						
17-a-Ethynylestradiol	33.9	4.0	4.0	ng/l	40.0	ND	85	50-150	3	30	
Diclofenac	29.1	4.0	4.0	ng/l	40.0	ND	73	50-150	13	30	
Diethylstilbestrol	32.5	4.0	4.0	ng/l	40.0	ND	81	50-150	1	30	
Epitestosterone	52.0	4.0	4.0	ng/l	40.0	ND	130	50-150	18	30	
Estriol	35.8	4.0	4.0	ng/l	40.0	ND	89	50-150	25	30	
Estrone	33.5	4.0	4.0	ng/l	40.0	ND	84	50-150	10	30	
Galaxolide (HHCB)	271	40	40	ng/l	400	ND	68	50-150	37	30	R-02
Gemfibrozil	36.8	4.0	4.0	ng/l	40.0	ND	92	50-150	11	30	
Hydrochlorothiazide	159	20	20	ng/l	200	ND	79	50-150	0.9	30	
Iopromide	35.6	4.0	4.0	ng/l	40.0	ND	89	50-150	11	30	
Naproxen	50.0	4.0	4.0	ng/l	40.0	ND	125	50-150	23	30	
Phenytoin (Dilantin)	37.4	4.0	4.0	ng/l	40.0	ND	93	50-150	2	30	
Primidone	51.4	4.0	4.0	ng/l	40.0	ND	128	50-150	2	30	
Salicylic Acid	933	100	100	ng/l	1000	ND	93	50-150	3	30	
TDCPP	467	50	50	ng/l	500	ND	93	50-150	6	30	
Testosterone	37.7	4.0	4.0	ng/l	40.0	ND	94	50-150	1	30	
Triclosan	68.6	8.0	8.0	ng/l	80.0	ND	86	50-150	6	30	
Surrogate(s)											
17-a-Ethynylestradiol-d4	*237*			*ng/l*	*200*		*119*	*20-500*			
Bisphenol A-d16	*187*			*ng/l*	*200*		*94*	*20-500*			
Estriol-d2	*202*			*ng/l*	*200*		*101*	*20-500*			
Gemfibrozil-d6	*91.0*			*ng/l*	*100*		*91*	*20-500*			
Naproxen-d3	*135*			*ng/l*	*200*		*67*	*20-500*			
Phenytoin-d10	*195*			*ng/l*	*200*		*98*	*20-500*			
Primidone-d5	*61.8*			*ng/l*	*200*		*31*	*20-500*			
Progesterone-d9	*211*			*ng/l*	*200*		*105*	*20-500*			
Salicylic Acid-d4	*442*			*ng/l*	*500*		*88*	*20-500*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0444 - EPA 1694M (Continued)											
Matrix Spike Dup (W2H0444-MSD1)	**Source: 2G27058-01RE1**				**Prepared & Analyzed: 08/04/22**						
Surrogate(s)											
Testosterone-d3	*185*			*ng/l*	*200*		*92*	*20-500*			
Triclosan-d3	*719*			*ng/l*	*400*		*180*	*20-500*			
Matrix Spike Dup (W2H0444-MSD2)	**Source: 2H03125-01**				**Prepared: 08/04/22 Analyzed: 08/05/22**						
Bisphenol A	30.6	4.0	4.0	ng/l	40.0	9.78	52	50-150	21	30	QC-2
Progesterone	32.1	4.0	4.0	ng/l	40.0	11.3	52	50-150	15	30	QC-2
Surrogate(s)											
Bisphenol A-d16	*259*			*ng/l*	*200*		*129*	*20-500*			QC-2
Progesterone-d9	*195*			*ng/l*	*200*		*98*	*20-500*			QC-2
Batch: W2H0445 - EPA 1694M											
Blank (W2H0445-BLK1)					**Prepared & Analyzed: 08/04/22**						
Acetaminophen	ND	5.0	5.0	ng/l							
Amoxicillin	ND	20	20	ng/l							
Atenolol	ND	4.0	4.0	ng/l							
Atorvastatin	ND	4.0	4.0	ng/l							
Azithromycin	ND	20	20	ng/l							
Caffeine	ND	4.0	4.0	ng/l							
Carbamazepine	ND	4.0	4.0	ng/l							
Ciprofloxacin	ND	20	20	ng/l							
Cotinine	ND	8.0	8.0	ng/l							
DEET	ND	4.0	4.0	ng/l							
Diazepam	ND	4.0	4.0	ng/l							
Fluoxetine	ND	4.0	4.0	ng/l							
Meprobamate	ND	4.0	4.0	ng/l							
Methadone	ND	4.0	4.0	ng/l							
Sulfamethoxazole	ND	4.0	4.0	ng/l							
TCEP	ND	10	10	ng/l							
TCPP	ND	50	50	ng/l							
Trimethoprim	ND	4.0	4.0	ng/l							
Surrogate(s)											
Acetaminophen-d4	*3090*			*ng/l*	*3000*		*103*	*20-500*			
Amoxicillin-d4	*59100*			*ng/l*	*62500*		*95*	*20-500*			
Atenolol-d7	*388*			*ng/l*	*400*		*97*	*20-500*			
Azithromycin-d3	*2250*			*ng/l*	*2000*		*112*	*20-500*			
Caffeine-13C3	*196*			*ng/l*	*200*		*98*	*20-500*			
Carbamazepine- 13C2, d2	*40.6*			*ng/l*	*40.0*		*101*	*20-500*			
Ciprofloxacin-d8	*1050*			*ng/l*	*1000*		*105*	*20-500*			
Cotinine-d3	*210*			*ng/l*	*200*		*105*	*20-500*			
DEET-d7	*18.6*			*ng/l*	*20.0*		*93*	*20-500*			
Diazepam-d5	*1780*			*ng/l*	*2000*		*89*	*20-500*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0445 - EPA 1694M (Continued)											
Blank (W2H0445-BLK1)					**Prepared & Analyzed: 08/04/22**						
Surrogate(s)											
Fluoxetine-d5	*214*			*ng/l*	*200*		*107*	*20-500*			
Methadone-d3	*45.0*			*ng/l*	*40.0*		*112*	*20-500*			
Sulfamethoxazole-d4	*194*			*ng/l*	*200*		*97*	*20-500*			
Trimethoprim-d9	*189*			*ng/l*	*200*		*94*	*20-500*			
LCS (W2H0445-BS1)					**Prepared & Analyzed: 08/04/22**						
Acetaminophen	50.1	5.0	5.0	ng/l	50.0		100	50-150			
Amoxicillin	171	20	20	ng/l	200		85	50-150			
Atenolol	38.0	4.0	4.0	ng/l	40.0		95	50-150			
Atorvastatin	42.3	4.0	4.0	ng/l	40.0		106	50-150			
Azithromycin	175	20	20	ng/l	200		88	50-150			
Caffeine	38.2	4.0	4.0	ng/l	40.0		96	50-150			
Carbamazepine	41.6	4.0	4.0	ng/l	40.0		104	50-150			
Ciprofloxacin	186	20	20	ng/l	200		93	50-150			
Cotinine	75.2	8.0	8.0	ng/l	80.0		94	50-150			
DEET	38.8	4.0	4.0	ng/l	40.0		97	50-150			
Diazepam	40.3	4.0	4.0	ng/l	40.0		101	50-150			
Fluoxetine	40.1	4.0	4.0	ng/l	40.0		100	50-150			
Meprobamate	36.5	4.0	4.0	ng/l	40.0		91	50-150			
Methadone	39.3	4.0	4.0	ng/l	40.0		98	50-150			
Propranolol	38.1	4.0	4.0	ng/l	40.0		95	50-150			
Sulfamethoxazole	35.7	4.0	4.0	ng/l	40.0		89	50-150			
TCEP	118	10	10	ng/l	100		118	50-150			
TCPP	539	50	50	ng/l	500		108	50-150			
Trimethoprim	38.9	4.0	4.0	ng/l	40.0		97	50-150			
Surrogate(s)											
Acetaminophen-d4	*3110*			*ng/l*	*3000*		*104*	*20-500*			
Amoxicillin-d4	*52300*			*ng/l*	*62500*		*84*	*20-500*			
Atenolol-d7	*385*			*ng/l*	*400*		*96*	*20-500*			
Azithromycin-d3	*2630*			*ng/l*	*2000*		*131*	*20-500*			
Caffeine-13C3	*197*			*ng/l*	*200*		*98*	*20-500*			
Carbamazepine- 13C2, d2	*36.8*			*ng/l*	*40.0*		*92*	*20-500*			
Ciprofloxacin-d8	*832*			*ng/l*	*1000*		*83*	*20-500*			
Cotinine-d3	*205*			*ng/l*	*200*		*102*	*20-500*			
DEET-d7	*20.8*			*ng/l*	*20.0*		*104*	*20-500*			
Diazepam-d5	*1780*			*ng/l*	*2000*		*89*	*20-500*			
Fluoxetine-d5	*221*			*ng/l*	*200*		*110*	*20-500*			
Methadone-d3	*44.9*			*ng/l*	*40.0*		*112*	*20-500*			
Sulfamethoxazole-d4	*188*			*ng/l*	*200*		*94*	*20-500*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0445 - EPA 1694M (Continued)											
LCS (W2H0445-BS1)					**Prepared & Analyzed: 08/04/22**						
Surrogate(s)											
Trimethoprim-d9	*202*			*ng/l*	*200*		*101*	*20-500*			
Matrix Spike (W2H0445-MS1)	**Source: 2H03125-01**				**Prepared & Analyzed: 08/04/22**						
Acetaminophen	52.6	5.0	5.0	ng/l	50.0	ND	105	50-150			
Amoxicillin	195	20	20	ng/l	200	ND	97	50-150			
Atenolol	37.3	4.0	4.0	ng/l	40.0	ND	93	50-150			
Atorvastatin	53.1	4.0	4.0	ng/l	40.0	ND	133	50-150			
Azithromycin	157	20	20	ng/l	200	56.8	50	50-150			
Caffeine	41.1	4.0	4.0	ng/l	40.0	7.24	85	50-150			
Carbamazepine	46.9	4.0	4.0	ng/l	40.0	ND	117	50-150			
Ciprofloxacin	217	20	20	ng/l	200	ND	109	50-150			
Cotinine	76.2	8.0	8.0	ng/l	80.0	ND	95	50-150			
DEET	35.1	4.0	4.0	ng/l	40.0	ND	88	50-150			
Diazepam	35.1	4.0	4.0	ng/l	40.0	ND	88	50-150			
Fluoxetine	35.9	4.0	4.0	ng/l	40.0	ND	90	50-150			
Meprobamate	25.1	4.0	4.0	ng/l	40.0	ND	63	50-150			
Methadone	39.0	4.0	4.0	ng/l	40.0	ND	98	50-150			
Sulfamethoxazole	38.4	4.0	4.0	ng/l	40.0	ND	96	50-150			
TCEP	132	10	10	ng/l	100	ND	132	50-150			
TCPP	649	50	50	ng/l	500	86.4	112	50-150			
Trimethoprim	39.8	4.0	4.0	ng/l	40.0	ND	100	50-150			
Surrogate(s)											
Acetaminophen-d4	*3470*			*ng/l*	*3000*		*116*	*20-500*			
Amoxicillin-d4	*192000*			*ng/l*	*62500*		*307*	*20-500*			
Atenolol-d7	*346*			*ng/l*	*400*		*86*	*20-500*			
Azithromycin-d3	*1690*			*ng/l*	*2000*		*85*	*20-500*			
Caffeine-13C3	*355*			*ng/l*	*200*		*177*	*20-500*			
Carbamazepine- 13C2, d2	*32.5*			*ng/l*	*40.0*		*81*	*20-500*			
Ciprofloxacin-d8	*1780*			*ng/l*	*1000*		*178*	*20-500*			
Cotinine-d3	*170*			*ng/l*	*200*		*85*	*20-500*			
DEET-d7	*23.3*			*ng/l*	*20.0*		*117*	*20-500*			
Diazepam-d5	*1920*			*ng/l*	*2000*		*96*	*20-500*			
Fluoxetine-d5	*127*			*ng/l*	*200*		*63*	*20-500*			
Methadone-d3	*41.7*			*ng/l*	*40.0*		*104*	*20-500*			
Sulfamethoxazole-d4	*439*			*ng/l*	*200*		*220*	*20-500*			
Trimethoprim-d9	*158*			*ng/l*	*200*		*79*	*20-500*			
Matrix Spike Dup (W2H0445-MSD1)	**Source: 2H03125-01**				**Prepared & Analyzed: 08/04/22**						
Acetaminophen	49.3	5.0	5.0	ng/l	50.0	ND	99	50-150	6	30	
Amoxicillin	163	20	20	ng/l	200	ND	82	50-150	18	30	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0445 - EPA 1694M (Continued)											
Matrix Spike Dup (W2H0445-MSD1)	**Source: 2H03125-01**				**Prepared & Analyzed: 08/04/22**						
Atenolol	41.3	4.0	4.0	ng/l	40.0	ND	103	50-150	10	30	
Atorvastatin	52.2	4.0	4.0	ng/l	40.0	ND	130	50-150	2	30	
Azithromycin	165	20	20	ng/l	200	56.8	54	50-150	5	30	
Caffeine	45.1	4.0	4.0	ng/l	40.0	7.24	95	50-150	9	30	
Carbamazepine	40.7	4.0	4.0	ng/l	40.0	ND	102	50-150	14	30	
Ciprofloxacin	205	20	20	ng/l	200	ND	102	50-150	6	30	
Cotinine	75.0	8.0	8.0	ng/l	80.0	ND	94	50-150	2	30	
DEET	38.4	4.0	4.0	ng/l	40.0	ND	96	50-150	9	30	
Diazepam	33.7	4.0	4.0	ng/l	40.0	ND	84	50-150	4	30	
Fluoxetine	37.1	4.0	4.0	ng/l	40.0	ND	93	50-150	3	30	
Meprobamate	24.9	4.0	4.0	ng/l	40.0	ND	62	50-150	0.7	30	
Methadone	39.8	4.0	4.0	ng/l	40.0	ND	99	50-150	2	30	
Sulfamethoxazole	38.0	4.0	4.0	ng/l	40.0	ND	95	50-150	1	30	
TCEP	122	10	10	ng/l	100	ND	122	50-150	8	30	
TCPP	651	50	50	ng/l	500	86.4	113	50-150	0.4	30	
Trimethoprim	37.5	4.0	4.0	ng/l	40.0	ND	94	50-150	6	30	
Surrogate(s)											
Acetaminophen-d4	*3540*			*ng/l*	*3000*		*118*	*20-500*			
Amoxicillin-d4	*185000*			*ng/l*	*62500*		*297*	*20-500*			
Atenolol-d7	*339*			*ng/l*	*400*		*85*	*20-500*			
Azithromycin-d3	*1640*			*ng/l*	*2000*		*82*	*20-500*			
Caffeine-13C3	*376*			*ng/l*	*200*		*188*	*20-500*			
Carbamazepine- 13C2, d2	*38.1*			*ng/l*	*40.0*		*95*	*20-500*			
Ciprofloxacin-d8	*1900*			*ng/l*	*1000*		*190*	*20-500*			
Cotinine-d3	*166*			*ng/l*	*200*		*83*	*20-500*			
DEET-d7	*20.0*			*ng/l*	*20.0*		*100*	*20-500*			
Diazepam-d5	*1950*			*ng/l*	*2000*		*98*	*20-500*			
Fluoxetine-d5	*124*			*ng/l*	*200*		*62*	*20-500*			
Methadone-d3	*41.0*			*ng/l*	*40.0*		*102*	*20-500*			
Sulfamethoxazole-d4	*504*			*ng/l*	*200*		*252*	*20-500*			
Trimethoprim-d9	*173*			*ng/l*	*200*		*87*	*20-500*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0720 - EPA 525.2											
Blank (W2H0720-BLK1)					**Prepared: 08/09/22 Analyzed: 08/10/22**						
Alachlor	ND	0.030	0.10	ug/l							
Atrazine	ND	0.011	0.10	ug/l							
Benzo (a) pyrene	ND	0.020	0.10	ug/l							
Bis(2-ethylhexyl)adipate	ND	0.42	2.0	ug/l							
Bis(2-ethylhexyl)phthalate	ND	0.41	2.0	ug/l							
Bromacil	ND	0.070	0.50	ug/l							
Butachlor	ND	0.012	0.10	ug/l							
Captan	ND	0.32	1.0	ug/l							
Chlorpropham	ND	0.040	0.10	ug/l							
Diazinon	ND	0.022	0.10	ug/l							
Dimethoate	ND	0.020	0.20	ug/l							
Diphenamid	ND	0.030	0.10	ug/l							
Disulfoton	ND	0.015	0.10	ug/l							
EPTC	ND	0.020	0.10	ug/l							
Hexachlorocyclopentadiene	ND	0.092	1.0	ug/l							
Metolachlor	ND	0.030	0.10	ug/l							
Metribuzin	ND	0.030	0.10	ug/l							
Molinate	ND	0.030	0.10	ug/l							
Prometryn	ND	0.030	0.10	ug/l							
Simazine	ND	0.020	0.10	ug/l							
Terbacil	ND	0.090	2.0	ug/l							
Thiobencarb	ND	0.030	0.10	ug/l							
Trithion	ND	0.020	0.10	ug/l							
Surrogate(s)											
1,3-Dimethyl-2-nitrobenzene	*4.79*			*ug/l*	*5.00*		*96*	*70-130*			
Perylene-d12	*4.29*			*ug/l*	*5.00*		*86*	*50-120*			
Triphenyl phosphate	*4.54*			*ug/l*	*5.00*		*91*	*70-130*			
LCS (W2H0720-BS1)					**Prepared: 08/09/22 Analyzed: 08/10/22**						
Alachlor	9.18	0.030	0.10	ug/l	7.50		122	70-130			
Atrazine	4.92	0.011	0.10	ug/l	5.00		98	70-130			
Benzo (a) pyrene	5.12	0.020	0.10	ug/l	5.00		102	60-130			
Bis(2-ethylhexyl)adipate	5.27	0.42	2.0	ug/l	5.00		105	70-130			
Bis(2-ethylhexyl)phthalate	4.86	0.41	2.0	ug/l	5.00		97	70-130			
Bromacil	4.85	0.070	0.50	ug/l	5.00		97	70-130			
Butachlor	5.66	0.012	0.10	ug/l	5.00		113	70-130			
Captan	4.54	0.32	1.0	ug/l	5.00		91	70-130			
Chlorpropham	5.49	0.040	0.10	ug/l	5.00		110	70-130			
Diazinon	4.96	0.022	0.10	ug/l	5.00		99	50-120			
Dimethoate	3.20	0.020	0.20	ug/l	5.00		64	50-120			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0720 - EPA 525.2 (Continued)											
LCS (W2H0720-BS1)					**Prepared: 08/09/22 Analyzed: 08/10/22**						
Diphenamid	5.15	0.030	0.10	ug/l	5.00		103	70-130			
Disulfoton	4.27	0.015	0.10	ug/l	5.00		85	50-120			
EPTC	5.90	0.020	0.10	ug/l	5.00		118	70-130			
Hexachlorocyclopentadiene	1.98	0.092	1.0	ug/l	2.50		79	33-106			
Metolachlor	5.63	0.030	0.10	ug/l	5.00		113	60-130			
Metribuzin	4.55	0.030	0.10	ug/l	5.00		91	50-120			
Molinate	4.68	0.030	0.10	ug/l	5.00		94	70-130			
Prometryn	2.75	0.030	0.10	ug/l	5.00		55	30-120			
Simazine	3.79	0.020	0.10	ug/l	5.00		76	60-130			
Terbacil	3.61	0.090	2.0	ug/l	5.00		72	70-130			
Thiobencarb	4.88	0.030	0.10	ug/l	5.00		98	70-130			
Trithion	4.60	0.020	0.10	ug/l	5.00		92	70-130			
Surrogate(s)											
1,3-Dimethyl-2-nitrobenzene	*4.50*			*ug/l*	*5.00*		*90*	*70-130*			
Perylene-d12	*4.88*			*ug/l*	*5.00*		*98*	*50-120*			
Triphenyl phosphate	*5.33*			*ug/l*	*5.00*		*107*	*70-130*			
LCS Dup (W2H0720-BSD1)					**Prepared: 08/09/22 Analyzed: 08/10/22**						
Alachlor	8.66	0.030	0.10	ug/l	7.50		115	70-130	6	30	
Atrazine	4.88	0.011	0.10	ug/l	5.00		98	70-130	0.7	30	
Benzo (a) pyrene	4.74	0.020	0.10	ug/l	5.00		95	60-130	8	30	
Bis(2-ethylhexyl)adipate	5.31	0.42	2.0	ug/l	5.00		106	70-130	0.8	30	
Bis(2-ethylhexyl)phthalate	4.83	0.41	2.0	ug/l	5.00		97	70-130	0.8	30	
Bromacil	5.18	0.070	0.50	ug/l	5.00		104	70-130	7	30	
Butachlor	5.46	0.012	0.10	ug/l	5.00		109	70-130	4	30	
Captan	4.42	0.32	1.0	ug/l	5.00		88	70-130	3	30	
Chlorpropham	5.57	0.040	0.10	ug/l	5.00		111	70-130	2	30	
Diazinon	4.76	0.022	0.10	ug/l	5.00		95	50-120	4	30	
Dimethoate	3.37	0.020	0.20	ug/l	5.00		67	50-120	5	30	
Diphenamid	4.97	0.030	0.10	ug/l	5.00		99	70-130	4	30	
Disulfoton	4.14	0.015	0.10	ug/l	5.00		83	50-120	3	30	
EPTC	5.80	0.020	0.10	ug/l	5.00		116	70-130	2	30	
Hexachlorocyclopentadiene	2.06	0.092	1.0	ug/l	2.50		82	33-106	4	30	
Metolachlor	5.20	0.030	0.10	ug/l	5.00		104	60-130	8	30	
Metribuzin	4.51	0.030	0.10	ug/l	5.00		90	50-120	0.7	30	
Molinate	4.59	0.030	0.10	ug/l	5.00		92	70-130	2	30	
Prometryn	2.76	0.030	0.10	ug/l	5.00		55	30-120	0.7	30	
Simazine	3.71	0.020	0.10	ug/l	5.00		74	60-130	2	30	
Terbacil	3.88	0.090	2.0	ug/l	5.00		78	70-130	7	30	
Thiobencarb	4.32	0.030	0.10	ug/l	5.00		86	70-130	12	30	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Quality Control Results (Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0720 - EPA 525.2 (Continued)											
LCS Dup (W2H0720-BSD1)					**Prepared: 08/09/22**	**Analyzed: 08/10/22**					
Trithion	4.39	0.020	0.10	ug/l	5.00		88	70-130	5	30	
Surrogate(s)											
1,3-Dimethyl-2-nitrobenzene	*4.94*			*ug/l*	*5.00*		*99*	*70-130*			
Perylene-d12	*4.96*			*ug/l*	*5.00*		*99*	*50-120*			
Triphenyl phosphate	*5.47*			*ug/l*	*5.00*		*109*	*70-130*			

Quality Control Results (Continued)

Volatile Organics by P&T and GC/MS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1133 - EPA 524.3											
Blank (W2H1133-BLK1)					**Prepared: 08/12/22**	**Analyzed: 08/13/22**					
1,2-Dibromo-3-chloropropane	ND	0.0042	0.010	ug/l							
1,2-Dibromoethane (EDB)	ND	0.0029	0.020	ug/l							
Surrogate(s)											
1,2-Dichlorobenzene-d4	*0.400*			*ug/l*	*0.400*		*100*	*70-130*			
4-Bromofluorobenzene	*0.346*			*ug/l*	*0.400*		*86*	*70-130*			
LCS (W2H1133-BS1)					**Prepared: 08/12/22**	**Analyzed: 08/13/22**					
1,2-Dibromo-3-chloropropane	0.0623	0.0042	0.010	ug/l	0.0500		125	70-130			
1,2-Dibromoethane (EDB)	0.0563	0.0029	0.020	ug/l	0.0500		113	70-130			
Surrogate(s)											
1,2-Dichlorobenzene-d4	*0.397*			*ug/l*	*0.400*		*99*	*70-130*			
4-Bromofluorobenzene	*0.354*			*ug/l*	*0.400*		*89*	*70-130*			
Matrix Spike (W2H1133-MS1)	**Source: 2G15022-01**				**Prepared: 08/12/22**	**Analyzed: 08/13/22**					
1,2-Dibromo-3-chloropropane	0.0588	0.0042	0.010	ug/l	0.0500	ND	118	65-135			
1,2-Dibromoethane (EDB)	0.0672	0.0029	0.020	ug/l	0.0500	ND	134	65-135			
Surrogate(s)											
1,2-Dichlorobenzene-d4	*0.401*			*ug/l*	*0.400*		*100*	*70-130*			
4-Bromofluorobenzene	*0.313*			*ug/l*	*0.400*		*78*	*70-130*			
Matrix Spike Dup (W2H1133-MSD1)	**Source: 2G15022-01**				**Prepared: 08/12/22**	**Analyzed: 08/13/22**					
1,2-Dibromo-3-chloropropane	0.0547	0.0042	0.010	ug/l	0.0500	ND	109	65-135	7	30	
1,2-Dibromoethane (EDB)	0.0612	0.0029	0.020	ug/l	0.0500	ND	122	65-135	9	30	
Surrogate(s)											
1,2-Dichlorobenzene-d4	*0.399*			*ug/l*	*0.400*		*100*	*70-130*			
4-Bromofluorobenzene	*0.303*			*ug/l*	*0.400*		*76*	*70-130*			

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466631

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:38

Notes and Definitions

Item	Definition
AN-IP	Sample results for structural isomers may have contribution from their isomeric pair.
B-06	This analyte was found in the method blank, which was possibly contaminated during sample preparation. The batch was accepted since this analyte was either not detected or more than 10 times of the blank value for all the samples in the batch.
J	Estimated conc. detected <MRL and >MDL.
M-04	Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
M-05	Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
M-06	Due to the high concentration of analyte inherent in the sample, sample was diluted prior to preparation and/or analysis. The MDL and MRL were raised due to this dilution.
MS-01	The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference.
Q-08	High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit.
QC-2	This QC sample was reanalyzed to complement samples that require re-analysis on different date. See analysis date.
R-01	The MDL and/or MRL for this analyte has been raised to account for matrix interference.
R-02	The RPD was outside of QC acceptance limits due to possible matrix interference.
R-03	The RPD is not applicable for result below the reporting limit (either ND or J value).
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

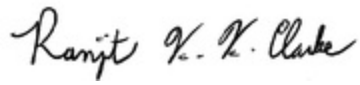
Lab Job Number: 466647
Report Level: II
Report Date: 08/15/2022

Analytical Report *prepared for:*

Kiernan Brtalik
Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001

Project: MALIBU - Annual

Authorized for release by:



Ranjit K Clarke, Client Services Manager
(714) 771-9906
Ranjit.Clarke@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Kiernan Brtalik
Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001

Lab Job #:	466647
Project No:	MALIBU
Location:	Annual
Date Received:	08/02/22

Sample ID	Lab ID	Collected	Matrix
SMBRP-13	466647-001	08/02/22 14:40	Water
SMBRP-7B	466647-002	08/02/22 09:15	Water
LAMW-5S	466647-003	08/02/22 08:40	Water
SMBRP-11	466647-004	08/02/22 09:20	Water

ENTHALPY ANALYTICAL

Case Narrative

Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001
Kiernan Brtalik

Lab Job Number: 466647
Project No: MALIBU
Location: Annual
Date Received: 08/02/22

This data package contains sample and QC results for four water samples, requested for the above referenced project on 08/02/22. The samples were received cold and intact.

Ion Chromatography (EPA 300.0 and EPA 300.0):

- Low recoveries were observed for nitrogen, nitrite in the MS/MSD of SMBRP-13 (lab # 466647-001); the associated RPD was within limits.
- SMBRP-13 (lab # 466647-001) was diluted due to high chloride concentration.
- SMBRP-13 (lab # 466647-001) was diluted due to high sulfate concentration.
- No other analytical problems were encountered.

Total Phosphorus as P (SM 4500-P-B5-E):
No analytical problems were encountered.

Organic Nitrogen, by Calculation (ORGANIC NITROGEN):
No analytical problems were encountered.

Total Dissolved Solids (TDS) (SM2540C):
No analytical problems were encountered.

Total Coliform / E. coli by Quanti-Tray (SM 9223Bb):
No analytical problems were encountered.

Ammonia and TKN- Semi-Automated Method (SM 4500-NH3-G):
No analytical problems were encountered.

ENTHALPHY ANALYTICAL, INC.		Chain of Custody Record		Turn Around Time (Rush by advanced notice only)					
931 W. Barkley Ave., Orange, CA 92868	ENTHALPY analytical, inc.	Lab No: 466647		Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714) 538-1209		Page: 1 of 1		2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal		Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other		Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					
c/o Montrose Environmental Group									
1 Park Plaza, Suite 1000, Irvine, CA 92614									

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants	Name:	Malibu - Annual
Report To:	Kiernan Brtalik	Number:	20-09665
Email:	KBrtalik@rinconconsultants.com	P.O. #:	
Address:	180 N. Ashwood Ave.	Address:	Malibu CC
	Ventura, CA 93003		
Phone:		Global ID:	
Cell:		Sampled By:	LL, JB, kc

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Total /Fecal Coliforms - SM 9223 Quantitray	TKN; NH3; Organic Nitrogen (Calculation)	EPA 300.0 (NO2,NO3)	Total Phosphorus	SM 2540C TDS	EPA 300.0 (NO3)	Test Instructions / Comments
SMBRP-13	8.2.22	1440	GW	5	✓	X	X	X	X	X		
[redacted]												8.2 JB
[redacted]												8.2 JB
[redacted]												8.2 JB
SMBRP-7B	8.2.22	0915	GW	5	✓	X	X	X	X	X		
LAMW-5S	8.2.22	0840	GW	5	✓	X	X	X	X	X		
SMBRP-11	8.2.22	0920	GW	5	✓	X	X	X	X	X		
[redacted]												8.2 JB
[redacted]												8.2 JB

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Jon Bridgen	Rincon	8.2.22 1457
[1] Received By:		Gerardo Gawat	EA	8.2.22 1457
[2] Relinquished By:		GGawat	EA	8.2.22 1731
[2] Received By:		G. Kim	GA	8/2/22 1731
[3] Relinquished By:				

7.9 | 3.7

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: Malibu - Annual

Date Received: 8/2/22 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 7.9 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 3.7 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?		✔	
If custody seals are present, were they intact?			✔
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✔		
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?	✔		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?		✔	
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 8/2/22

ENTHALPY ANALYTICAL

Analysis Results for 466647

Kiernan Brtalik
Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001

Lab Job #: 466647
Project No: MALIBU
Location: Annual
Date Received: 08/02/22

Sample ID: SMBRP-13 **Lab ID: 466647-001** **Collected: 08/02/22 14:40**
Matrix: Water

466647-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrite	ND		mg/L	1.0	0.20	10	294193	08/02/22 19:16	08/03/22 04:20	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.32	10	294193	08/02/22 19:16	08/03/22 04:20	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	294193	08/02/22 19:16	08/03/22 04:20	RKV
Method: EPA 351.2 Prep Method: METHOD										
Nitrogen, Total Kjeldahl	**0.87**		mg/L	0.40	0.12	1	294754	08/10/22	08/10/22	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.49**		mg/L			1	294825	08/10/22	08/10/22	SLL
Method: SM 4500-NH3-G										
Ammonia-N	**0.38**		mg/L	0.10	0.045	1	294678	08/09/22	08/09/22	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.20**		mg/L	0.020	0.0054	1	294380	08/04/22	08/04/22	ATP
Method: SM 9223Bb										
Fecal Coliform	<1.0		MPN/100ml	1.0		1	294240	08/02/22 18:37	08/03/22 13:29	PAS
Coliform, Total	**1.0**		MPN/100ml	1.0		1	294240	08/02/22 18:37	08/03/22 13:29	PAS
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**6,000**		mg/L	100		10	294477	08/04/22	08/05/22	DNA

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466647

Sample ID: SMBRP-7B	Lab ID: 466647-002	Collected: 08/02/22 09:15
	Matrix: Water	

466647-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	1	294193	08/02/22 19:16	08/03/22 02:56	RKV
Nitrogen, Nitrate	**0.46**		mg/L	0.10	0.03	1	294193	08/02/22 19:16	08/03/22 02:56	RKV
Nitrogen, Nitrate/Nitrite	**0.46**		mg/L	0.10		1	294193	08/02/22 19:16	08/03/22 02:56	RKV
Method: EPA 351.2 Prep Method: METHOD										
Nitrogen, Total Kjeldahl	**0.20**	J	mg/L	0.40	0.12	1	294754	08/10/22	08/10/22	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.20**		mg/L			1	294825	08/10/22	08/10/22	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.045	1	294678	08/09/22	08/09/22	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.18**		mg/L	0.020	0.0054	1	294380	08/04/22	08/04/22	ATP
Method: SM 9223Bb										
Fecal Coliform	<1.0		MPN/100ml	1.0		1	294240	08/02/22 18:37	08/03/22 13:29	PAS
Coliform, Total	**>2,400**		MPN/100ml	1.0		1	294240	08/02/22 18:37	08/03/22 13:29	PAS
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**2,700**		mg/L	20		2	294477	08/04/22	08/05/22	DNA

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466647

Sample ID: LAMW-5S	Lab ID: 466647-003	Collected: 08/02/22 08:40
	Matrix: Water	

466647-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	1	294193	08/02/22 19:16	08/03/22 03:13	RKV
Nitrogen, Nitrate	**23**		mg/L	1.0	0.32	10	294193	08/02/22 19:16	08/03/22 05:28	RKV
Nitrogen, Nitrate/Nitrite	**23**		mg/L	0.10		1	294193	08/02/22 19:16	08/03/22 03:13	RKV
Method: EPA 351.2 Prep Method: METHOD										
Nitrogen, Total Kjeldahl	**0.18**	J	mg/L	0.40	0.12	1	294754	08/10/22	08/10/22	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.13**		mg/L			1	294825	08/10/22	08/10/22	SLL
Method: SM 4500-NH3-G										
Ammonia-N	**0.049**	J	mg/L	0.10	0.045	1	294678	08/09/22	08/09/22	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.11**		mg/L	0.020	0.0054	1	294380	08/04/22	08/04/22	ATP
Method: SM 9223Bb										
Fecal Coliform	<1.0		MPN/100ml	1.0		1	294240	08/02/22 18:37	08/03/22 13:29	PAS
Coliform, Total	**100**		MPN/100ml	1.0		1	294240	08/02/22 18:37	08/03/22 13:29	PAS
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**1,000**		mg/L	20		2	294477	08/04/22	08/05/22	DNA

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466647

Sample ID: SMBRP-11	Lab ID: 466647-004	Collected: 08/02/22 09:20
	Matrix: Water	

466647-004 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrite	**0.27**		mg/L	0.10	0.02	1	294193	08/02/22 19:16	08/03/22 04:03	RKV
Nitrogen, Nitrate	**2.3**		mg/L	0.10	0.03	1	294193	08/02/22 19:16	08/03/22 04:03	RKV
Nitrogen, Nitrate/Nitrite	**2.6**		mg/L	0.10		1	294193	08/02/22 19:16	08/03/22 04:03	RKV
Method: EPA 351.2 Prep Method: METHOD										
Nitrogen, Total Kjeldahl	**2.6**		mg/L	0.40	0.12	1	294754	08/10/22	08/10/22	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.40**		mg/L			1	294825	08/10/22	08/10/22	SLL
Method: SM 4500-NH3-G										
Ammonia-N	**2.2**		mg/L	0.10	0.045	1	294678	08/09/22	08/09/22	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**3.0**		mg/L	0.10	0.027	5	294380	08/04/22	08/04/22	ATP
Method: SM 9223Bb										
Fecal Coliform	<1.0		MPN/100ml	1.0		1	294240	08/02/22 18:37	08/03/22 13:29	PAS
Coliform, Total	**>2,400**		MPN/100ml	1.0		1	294240	08/02/22 18:37	08/03/22 13:29	PAS
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**1,800**		mg/L	20		2	294477	08/04/22	08/05/22	DNA

< Value is less than indicated concentration
> Value exceeds indicated concentration
J Estimated value
ND Not Detected

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC1004138	**Batch:** 294193
Matrix: Drinking Water	**Method:** EPA 300.0	**Prep Method:** METHOD

QC1004138 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	08/02/22 19:16	08/03/22 03:46
Nitrogen, Nitrate	ND		mg/L	0.10	0.03	08/02/22 19:16	08/03/22 03:46
Nitrogen, Nitrate/Nitrite	ND		mg/L	0.10		08/02/22 19:16	08/03/22 03:46

Type: Lab Control Sample	**Lab ID:** QC1004139	**Batch:** 294193
Matrix: Drinking Water	**Method:** EPA 300.0	**Prep Method:** METHOD

QC1004139 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Nitrite	2.481	2.283	mg/L	109%		90-110
Nitrogen, Nitrate	2.393	2.259	mg/L	106%		90-110

Type: Matrix Spike	**Lab ID:** QC1004140	**Batch:** 294193
Matrix (Source ID): Water (466647-001)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC1004140 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Nitrite	1.344	ND	1.827	mg/L	74%	*	80-120	10
Nitrogen, Nitrate	1.601	ND	1.807	mg/L	89%		80-120	10

Type: Matrix Spike Duplicate	**Lab ID:** QC1004141	**Batch:** 294193
Matrix (Source ID): Water (466647-001)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC1004141 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Nitrite	1.391	ND	1.827	mg/L	76%	*	80-120	3	20	10
Nitrogen, Nitrate	1.674	ND	1.807	mg/L	93%		80-120	4	20	10

Type: Blank	**Lab ID:** QC1005757	**Batch:** 294754
Matrix: Water	**Method:** EPA 351.2	**Prep Method:** METHOD

QC1005757 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Total Kjeldahl	ND		mg/L	0.20	0.062	08/10/22	08/10/22

Type: Lab Control Sample	**Lab ID:** QC1005758	**Batch:** 294754
Matrix: Water	**Method:** EPA 351.2	**Prep Method:** METHOD

QC1005758 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Total Kjeldahl	2.562	2.500	mg/L	102%		90-110

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC1005759	**Batch:** 294754
Matrix: Water	**Method:** EPA 351.2	**Prep Method:** METHOD

QC1005759 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Total Kjeldahl	ND		mg/L	0.20	0.062	08/10/22	08/10/22

Type: Lab Control Sample	**Lab ID:** QC1005760	**Batch:** 294754
Matrix: Water	**Method:** EPA 351.2	**Prep Method:** METHOD

QC1005760 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Total Kjeldahl	2.688	2.500	mg/L	108%		90-110

Type: Matrix Spike	**Lab ID:** QC1005761	**Batch:** 294754
Matrix (Source ID): Water (466789-001)	**Method:** EPA 351.2	**Prep Method:** METHOD

QC1005761 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Total Kjeldahl	12.02	0.1315	12.50	mg/L	95%		90-110	2.5

Type: Matrix Spike Duplicate	**Lab ID:** QC1005762	**Batch:** 294754
Matrix (Source ID): Water (466789-001)	**Method:** EPA 351.2	**Prep Method:** METHOD

QC1005762 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Total Kjeldahl	12.82	0.1315	12.50	mg/L	101%		90-110	6	20	2.5

Type: Matrix Spike	**Lab ID:** QC1005921	**Batch:** 294754
Matrix (Source ID): Water (466806-001)	**Method:** EPA 351.2	**Prep Method:** METHOD

QC1005921 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Total Kjeldahl	12.95	0.07253	12.50	mg/L	103%		90-110	2.5

Type: Matrix Spike Duplicate	**Lab ID:** QC1005922	**Batch:** 294754
Matrix (Source ID): Water (466806-001)	**Method:** EPA 351.2	**Prep Method:** METHOD

QC1005922 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Total Kjeldahl	13.25	0.07253	12.50	mg/L	105%		90-110	2	20	2.5

ENTHALPY ANALYTICAL

Batch QC

Type: Blank **Lab ID: QC1005603** **Batch: 294678**
Matrix: Water **Method: SM 4500-NH3-G**

QC1005603 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Ammonia-N	ND		mg/L	0.10	0.045	08/09/22	08/09/22

Type: Lab Control Sample **Lab ID: QC1005604** **Batch: 294678**
Matrix: Water **Method: SM 4500-NH3-G**

QC1005604 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Ammonia-N	2.429	2.500	mg/L	97%		80-120

Type: Matrix Spike **Lab ID: QC1005605** **Batch: 294678**
Matrix (Source ID): Water (466836-001) **Method: SM 4500-NH3-G**

QC1005605 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Ammonia-N	2.527	0.1060	2.500	mg/L	97%		80-120	1

Type: Matrix Spike Duplicate **Lab ID: QC1005606** **Batch: 294678**
Matrix (Source ID): Water (466836-001) **Method: SM 4500-NH3-G**

QC1005606 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Ammonia-N	2.554	0.1060	2.500	mg/L	98%		80-120	1	20	1

Type: Blank **Lab ID: QC1004680** **Batch: 294380**
Matrix: Water **Method: SM 4500-P-B5-E**

QC1004680 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Phosphorus	ND		mg/L	0.020	0.0054	08/04/22	08/04/22

Type: Lab Control Sample **Lab ID: QC1004681** **Batch: 294380**
Matrix: Water **Method: SM 4500-P-B5-E**

QC1004681 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phosphorus	0.3870	0.3300	mg/L	117%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1004682**	**Batch:**	**294380**
Matrix (Source ID):	**Water (466497-001)**	**Method:**	**SM 4500-P-B5-E**		

QC1004682 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phosphorus	0.4970	0.06500	0.4000	mg/L	108%		75-125	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1004683**	**Batch:**	**294380**
Matrix (Source ID):	**Water (466497-001)**	**Method:**	**SM 4500-P-B5-E**		

QC1004683 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phosphorus	0.4980	0.06500	0.4000	mg/L	108%		75-125	0	20	1

Type:	**Blank**	**Lab ID:**	**QC1004984**	**Batch:**	**294477**
Matrix:	**Water**	**Method:**	**SM2540C**	**Prep Method:**	**METHOD**

QC1004984 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Dissolved Solids	ND		mg/L	10		08/04/22	08/05/22

Type:	**Lab Control Sample**	**Lab ID:**	**QC1004985**	**Batch:**	**294477**
Matrix:	**Water**	**Method:**	**SM2540C**	**Prep Method:**	**METHOD**

QC1004985 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Dissolved Solids	352.0	342.0	mg/L	103%		90-110

Type:	**Sample Duplicate**	**Lab ID:**	**QC1004986**	**Batch:**	**294477**
Matrix (Source ID):	**Water (466569-010)**	**Method:**	**SM2540C**	**Prep Method:**	**METHOD**

QC1004986 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Dissolved Solids	19,620	19360	mg/L		1	5	10

* Value is outside QC limits

ND Not Detected

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

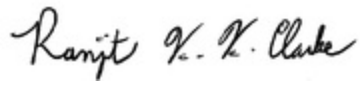
Lab Job Number: 466759
Report Level: II
Report Date: 10/10/2022

Analytical Report *prepared for:*

Kiernan Brtalik
Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001

Project: MALIBU - Annual

Authorized for release by:



Ranjit K Clarke, Client Services Manager
(714) 771-9906
Ranjit.Clarke@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Kiernan Brtalik
Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001

Lab Job #:	466759
Project No:	MALIBU
Location:	Annual
Date Received:	08/03/22

Sample ID	Lab ID	Collected	Matrix
SMBRP-12	466759-001	08/03/22 12:15	Water
MCWP-MW04D	466759-002	08/03/22 10:40	Water
MCWP-MW09	466759-003	08/03/22 12:40	Water

Case Narrative

Rincon Consultants - Ventura	Lab Job Number: 466759
2060 Knoll Drive	Project No: MALIBU
Unit B	Location: Annual
Ventura, CA 93001	Date Received: 08/03/22
Kiernan Brtalik	

This data package contains sample and QC results for three water samples, requested for the above referenced project on 08/03/22. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):

- Low response was observed for 2-chloroethylvinylether in the calibration analyzed 07/26/22 06:41; this analyte was not detected at or above the RL in the associated samples, and affected data was qualified with "b".
- Low response was observed for 2-chloroethylvinylether in the CCV/LCS analyzed 08/12/22 10:00; this analyte was not detected at or above the RL in the associated samples, and affected data was qualified with "b".
- Low response was observed for 2-chloroethylvinylether in the CCV/LCS analyzed 08/08/22 13:27; this analyte was not detected at or above the RL in the associated samples, and affected data was qualified with "b".
- 466759-001, 466759-002, and 466759-003 were analyzed outside of hold time; affected data was qualified with "H".
- SMBRP-12 (lab # 466759-001), MCWP-MW04D (lab # 466759-002), and MCWP-MW09 (lab # 466759-003) had pH greater than 2.
- No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 524.2):

- 1,2,4-trichlorobenzene was detected between the MDL and the RL in the method blank for batch 294335; this analyte was not detected in samples at or above the RL.
- 466759-001, 466759-002, and 466759-003 were analyzed outside of hold time; affected data was qualified with "H".
- SMBRP-12 (lab # 466759-001), MCWP-MW04D (lab # 466759-002), and MCWP-MW09 (lab # 466759-003) had pH greater than 2.
- No other analytical problems were encountered.

Metals (CALCULATION):

No analytical problems were encountered.

Metals (EPA 200.7, EPA 200.8, EPA 245.1, and EPA 245.1):

- High response was observed for boron in the ICV analyzed 08/05/22 12:42; affected data was qualified with "b".
- Antimony was detected at or above the RL in the CCB analyzed 08/05/22 14:40; this analyte was detected in samples between LOD and RL, was not detected at or above the RL in the associated samples, and affected data was qualified with "b".
- A number of analytes were detected between the MDL and the RL in the method blank for batch 294423; these analytes were either not detected in samples at or above the RL, or detected at a level at least 10 times that of the blank.
- No other analytical problems were encountered.

Ion Chromatography (EPA 300.0 and EPA 300.0):

- Low response was observed for fluoride in the CCV analyzed 08/08/22 19:48; affected data was qualified with "b".
- Low response was observed for fluoride in the CCV analyzed 08/08/22 23:10; affected data was qualified with "b".
- Low recoveries were observed for chloride in the MS/MSD for batch 294551; the parent sample was not a project sample, and the associated RPD was within limits.
- Chloride was detected between the MDL and the RL in the method blank for batch 294551; this analyte was detected in samples at a level at least 10 times that of the blank.
- SMBRP-12 (lab # 466759-001) and MCWP-MW09 (lab # 466759-003) were diluted due to high chloride concentrations.
- No other analytical problems were encountered.

Perchlorate by Ion Chromatography (EPA 314.0):
No analytical problems were encountered.

Total Carbon by High-Temperature Combust (SM 5310B):
No analytical problems were encountered.

Fluoride by ISE (SM 4500-F-C):
No analytical problems were encountered.

Total Phosphorus as P (SM 4500-P-B5-E):
No analytical problems were encountered.

Total Cyanide, Manual Colorimetric (SM 4500-CN-E):
No analytical problems were encountered.

Alkalinity (SM2320B):
No analytical problems were encountered.

CCPP (SM 2330B):
No analytical problems were encountered.

Total Dissolved Solids (TDS) (SM2540C):
No analytical problems were encountered.

Total Suspended Solids (TSS) (SM2540D):
No analytical problems were encountered.

Free Chlorine (SM 4500-CL-G):
No analytical problems were encountered.

pH of Aqueous Samples (SM 4500-H+ B):
No analytical problems were encountered.

Biochemical Oxygen Demand (SM5210B):
No analytical problems were encountered.

Odor (SM 2150B):
No analytical problems were encountered.

Turbidity (SM2130B):
No analytical problems were encountered.

Color by Visual Comparison (SM2120B):
No analytical problems were encountered.

Surfactants (MBAS) (SM5540C):

- MBAS are calculated and reported as Linear Anionic Surfactants with a molecular weight of 348 g/mol.
- No analytical problems were encountered.

Total Coliform / E. coli by Quanti-Tray (SM 9223Bb):
No analytical problems were encountered.

Ammonia and TKN- Semi-Automated Method (SM 4500-NH3-G):
No analytical problems were encountered.

EPA 100.2 Asbestos (EPA 100.2 Asbestos):
SGS Forensic in Hayward, CA performed the analysis (see sublab report section for certifications). Please see the SGS Forensic case narrative.

EPA 1613B - 2,3,7,8-TCDD only (EPA 1613B):
Enthalpy - Wilmington in Wilmington, NC performed the analysis (see sublab report section for certifications). Please see the Enthalpy - Wilmington case narrative.

EPA 508 Chlorinated Pesticides (EPA 508):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 525.2 Semi-Volatile Organics (EPA 525.2):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 547 Glyphosate (EPA 547):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 548.1 Endothall (EPA 548.1):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 549.2 Diquat (EPA 549.2):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 900.0 Gross Alpha and Beta (EPA 900.0):
Pace Analytical - Greensburg in Greensburg, PA performed the analysis (see sublab report section for certifications). Please see the Pace Analytical - Greensburg case narrative.

EPA 903.1 Radium-226 (EPA 903.1):
Pace Analytical - Greensburg in Greensburg, PA performed the analysis (see sublab report section for certifications). Please see the Pace Analytical - Greensburg case narrative.

EPA 904.0 Radium-228 (EPA 904.0):
Pace Analytical - Greensburg in Greensburg, PA performed the analysis (see sublab report section for certifications). Please see the Pace Analytical - Greensburg case narrative.

EPA 906.0 Tritium (EPA 906.0):
Pace Analytical - Greensburg in Greensburg, PA performed the analysis (see sublab report section for certifications). Please see the Pace Analytical - Greensburg case narrative.

EPA 905.0 Strontium-90 (EPA 905.0):
Pace Analytical - Greensburg in Greensburg, PA performed the analysis (see sublab report section for certifications). Please see the Pace Analytical - Greensburg case narrative.

Chlorinated Acids in Drinking Water (EPA 515.4):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 525.3 Pesticides - SUB (EPA 552.3):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 908.1 Uranium in Water - OUT (EPA 908.0):
Pace Analytical - Greensburg in Greensburg, PA performed the analysis (see sublab report section for certifications). Please see the Pace Analytical - Greensburg case narrative.

EPA 1625 Isotope Dilution (EPA 1625):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

Bromate EPA 300.1 -OUT (EPA 300.1):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 1664A Total O&G - OUT (EPA 1664A):
Eurofins Southwest in Tustin, CA performed the analysis (see sublab report section for certifications). Please see the Eurofins Southwest case narrative.

EPA 1694 Pharma, PCP by HPLC/MS/MS (EPA 1694):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 218.6 Hexavalent Chromium by IC (EPA 218.6):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 300.1 Chlorite by IC (EPA 300.1):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 524.3 (EPA 524.3):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 531.2 (EPA 531.2):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 625.1 (EPA 625.1):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

ENTHALPHY ANALYTICAL, INC.		Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
931 W. Barkley Ave., Orange, CA 92868	ENTHALPY analytical, inc.	Lab No: (20) 466764	Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714) 538-1209		Page: 1 of 3	2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal		Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					
c/o Montrose Environmental Group								
1 Park Plaza, Suite 1000, Irvine, CA 92614								

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants	Name:	Malibu - Annual
Report To:	Kiernan Brtalik	Number:	20-09665
Email:		P.O. #:	
Address:	180 N. Ashwood Ave.	Address:	
	Ventura, CA 93003		
Phone: Email	KBrtalik@rinconconsultants.com	Global ID:	
Cell:		Sampled By:	LL, JB, KC

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Total /Fecal Coliforms - SM 9223 Quantitray	EPA 200.7 (B), 200.8 (see list), 245.1 (Hg)	EPA 300.0: Cl,Fl,NO2,NO3,SO4; EPA 314.0	SM 4500-CN E; TKN; NH3; Phosphorus	SM 5310C TOC; BOD; TSS; TDS	pH; Residual Cl; MBAS; Turbidity; Color; Odor	SM 2330B Corrosivity; EPA 218.6 Cr VI	EPA 1664A Oil & Grease; EPA 1625M NDMA	EPA 1613 TCDD only; EPA 625 LL SVOCs	EPA 524.2 VOCs (inc. 2-CEVE, A/A)	Test Instructions / Comments
[redacted]																JB 8.3
SMBRP-12	8.3.22	1215	GW	53	✓	X	X	X	X	X	X	X	X	X	X	
[redacted]																JB 8.3
MCWP-MW04D	8.3.22	1040	GW	53	✓	X	X	X	X	X	X	X	X	X	X	
[redacted]																JB 8.3
[redacted]																JB 8.3
MCWP-MW09	8.3.22	1240	GW	53	✓	X	X	X	X	X	X	X	X	X	X	

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Jon Bridgman	Rincon	8-3 / 1446
[1] Received By:		GGawat	EA	8-3 / 1446
[2] Relinquished By:		GGawat	EA	8-3 / 1728
[2] Received By:		ZAIN PADILLA	EA/AL	8/03/22 1728
[3] Relinquished By:				
[3] Received By:				

6.3 / 5.3

ENTHALPHY ANALYTICAL, INC.		Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
931 W. Barkley Ave., Orange, CA 92868	ENTHALPY analytical, inc.	Lab No: (20) ~~466764~~	Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714) 538-1209		Page: 2 of 3	2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal		Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					
c/o Montrose Environmental Group								
1 Park Plaza, Suite 1000, Irvine, CA 92614								

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants	Name:	Malibu - Annual
Report To:	Kiernan Brtalik	Number:	20-09665
Email:	Kbrtalik@rinconconsultants.com	P.O. #:	
Address:	180 N. Ashwood Ave.	Address:	
	Ventura, CA 93003		
Phone:		Global ID:	
Cell:		Sampled By:	LL, JB, KC

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	EPA 100.2 Asbestos;EPA 908.0 Uranium	EPA 900.0 Gross Alpha & Beta	EPA 903.0 Radium 226, EPA 904.0 Radium 228	EPA 905.0 Strontium-90; EPA 906.0 Tritium	EPA 504.1 EDB, DBCP; EPA 525.2 (see list)	EPA 515.3 Chlorinated Herbicides	EPA 300.1B Bromate, Chlorite	EPA 531.1 Carbofuran, Oxamyl	EPA 548.1 Endothall; EPA 549.2 Diquat	EPA 547 Glyphosate; EPA 552.2 HAAs	Test Instructions / Comments
~~SMBRP-9~~																466759
SMBRP-12	8.3.22	1215	GW	53	✓	X	X	X	X	X	X	X	X	X	X	JB 8.3
~~MCWP-MW04S~~																
MCWP-MW04D	8.3.22	1040	GW	53	✓	X	X	X	X	X	X	X	X	X	X	JB 8.3
~~MCWP-MW07S~~																
~~MCWP-MW07D~~																JB 8.3
MCWP-MW09	8.3.22	1240	GW	53	✓	X	X	X	X	X	X	X	X	X	X	JB 8.3

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Jon Baldyga	Rincon	8.3 / 1446
[1] Received By:		GGawat	EA	8.3 / 1446
[2] Relinquished By:		GGawat	EA	8.3 / 1728
[2] Received By:		ZAN PAISMA	~~EA~~ GL	8/03/22 1728
[3] Relinquished By:				
[3] Received By:				

6.5 / 12.3

ENTHALPHY ANALYTICAL, INC.		Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
931 W. Barkley Ave., Orange, CA 92868	ENTHALPY analytical, inc.	Lab No: (2p) ~~466764~~	Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714) 538-1209		Page: 3 of 3	2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal		Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					
c/o Montrose Environmental Group								
1 Park Plaza, Suite 1000, Irvine, CA 92614								

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants	Name:	Malibu - Annual
Report To:	Kiernan Brtalik	Number:	20-09665
Email:	KBrtalik@rinconconsultants.com	P.O. #:	
Address:	180 N. Ashwood Ave.	Address:	
	Ventura, CA 93003		
Phone:		Global ID:	
Cell:		Sampled By:	

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	EPA 1694M-ESI+/ESI-/APCI (see list)	EPA 508 Pest/PCBs	Analysis Request	Test Instructions / Comments
~~SMBRP-9~~						X	X	JB 8.3	466759
SMBRP-12	8.3.22	1205	GW	G3	✓	X	X		
~~MCWP-MW04S~~						X	X	JB 8.3	
MCWP-MW04D	8.3.22	1040	GW	53	✓	X	X		
~~MCWP-MW07S~~						X	X	JB 8.3	
~~MCWP-MW07D~~						X	X	JB 8.3	
MCWP-MW09	8.3.22	1240	GW	53	✓	X	X		

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Jon Bridgman	Rincon	8.3 / 1446
[1] Received By:		Gawat	EA	8-3 / 1446
[2] Relinquished By:		Gawat	~~EA~~	8.3 / 1728
[2] Received By:		ZAID PADILLA	EA/GL	8/03/22 1728
[3] Relinquished By:				
[3] Received By:				

2.5 / 1.8

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: RINCON CONSULTANTS Project: MALIBU - ANNUAL

Date Received: 8/03/22 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 6.3 °C #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 5.3 °C #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?	✓		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?		✓	
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____ ☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 8/03/22

ENTHALPY ANALYTICAL

Analysis Results for 466759

Kiernan Brtalik
Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001

Lab Job #: 466759
Project No: MALIBU
Location: Annual
Date Received: 08/03/22

Sample ID: SMBRP-12 **Lab ID: 466759-001** **Collected: 08/03/22 12:15**
Matrix: Water

466759-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: CALCULATION Prep Method: EPA 200.8										
Chromium Trivalent	ND		ug/L	1.0		1	294414	08/05/22	10/07/22	KAM
Method: EPA 200.7 Prep Method: EPA 200.7										
Boron	**0.92**		mg/L	0.050	0.0080	1	294423	08/05/22	08/05/22	SBW
Calcium	**160**		mg/L	0.10	0.021	1	294423	08/05/22	08/05/22	SBW
Iron	**1.4**		mg/L	0.020	0.0066	1	294423	08/05/22	08/05/22	SBW
Magnesium	**130**		mg/L	0.10	0.049	1	294423	08/05/22	08/05/22	SBW
Manganese	**0.61**		mg/L	0.010	0.00061	1	294423	08/05/22	08/05/22	SBW
Potassium	**35**		mg/L	0.50	0.18	1	294423	08/05/22	08/05/22	SBW
Sodium	**580**		mg/L	0.50	0.035	1	294423	08/05/22	08/05/22	SBW
Method: EPA 200.8 Prep Method: EPA 200.8										
Aluminum	**11**		ug/L	10	3.2	1	294414	08/05/22	08/05/22	THP
Antimony	**0.25**	J,b	ug/L	0.50	0.060	1	294414	08/05/22	08/05/22	THP
Arsenic	**17**		ug/L	2.0	0.38	1	294414	08/05/22	08/05/22	THP
Barium	**66**		ug/L	5.0	0.28	1	294414	08/05/22	08/05/22	THP
Beryllium	ND		ug/L	0.50	0.050	1	294414	08/05/22	08/05/22	THP
Cadmium	**0.12**	J	ug/L	0.20	0.033	1	294414	08/05/22	08/05/22	THP
Chromium	**0.60**	J	ug/L	1.0	0.48	1	294414	08/05/22	08/05/22	THP
Copper	**4.7**		ug/L	0.50	0.050	1	294414	08/05/22	08/05/22	THP
Lead	ND		ug/L	0.50	0.044	1	294414	08/05/22	08/05/22	THP
Nickel	**20**		ug/L	1.0	0.20	1	294414	08/05/22	08/05/22	THP
Selenium	**8.1**		ug/L	2.0	0.27	1	294414	08/05/22	08/05/22	THP
Silver	ND		ug/L	0.20	0.025	1	294414	08/05/22	08/05/22	THP
Thallium	ND		ug/L	1.0	0.23	1	294414	08/05/22	08/05/22	THP
Zinc	ND		ug/L	10	4.2	1	294414	08/05/22	08/05/22	THP
Method: EPA 245.1 Prep Method: METHOD										
Mercury	ND		ug/L	0.20	0.11	1	294448	08/06/22	08/06/22	TNN
Method: EPA 300.0 Prep Method: METHOD										
Fluoride	**0.34**		mg/L	0.20	0.081	1	294274	08/03/22 14:19	08/04/22 01:48	RKV

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466759

466759-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Chloride	**880**		mg/L	50	25	50	294551	08/08/22 11:31	08/09/22 00:18	RKV
Nitrogen, Nitrite	ND		mg/L	1.0	0.20	10	294274	08/03/22 14:19	08/04/22 19:34	RKV
Nitrogen, Nitrate	ND		mg/L	0.10	0.03	1	294274	08/03/22 14:19	08/04/22 01:48	RKV
Sulfate	**490**		mg/L	50	13	50	294551	08/08/22 11:31	08/09/22 00:18	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	0.10		10	294274	08/03/22 14:19	08/04/22 19:34	RKV
Method: EPA 314.0 Prep Method: METHOD										
Perchlorate	**41**		ug/L	2.0	0.78	1	294671	08/10/22	08/10/22	RKV
Method: EPA 524.2 Prep Method: METHOD										
1,1-Dichloroethene	ND	H	ug/L	0.50	0.10	1	294552	08/08/22	08/08/22	ILK
Benzene	ND	H	ug/L	0.50	0.081	1	294552	08/08/22	08/08/22	ILK
Trichloroethene	ND	H	ug/L	0.50	0.13	1	294552	08/08/22	08/08/22	ILK
Toluene	ND	H	ug/L	0.50	0.10	1	294552	08/08/22	08/08/22	ILK
Chlorobenzene	ND	H	ug/L	0.50	0.13	1	294552	08/08/22	08/08/22	ILK
Chloromethane	ND	H	ug/L	0.50	0.14	1	294335	08/04/22	08/04/22	ILK
Vinyl Chloride	ND	H	ug/L	0.50	0.12	1	294335	08/04/22	08/04/22	ILK
Bromomethane	ND	H	ug/L	1.0	0.17	1	294335	08/04/22	08/04/22	ILK
Chloroethane	ND	H	ug/L	0.50	0.16	1	294335	08/04/22	08/04/22	ILK
Trichlorofluoromethane	ND	H	ug/L	0.50	0.15	1	294335	08/04/22	08/04/22	ILK
Freon 113	ND	H	ug/L	0.50	0.13	1	294335	08/04/22	08/04/22	ILK
Methylene Chloride	ND	H	ug/L	0.50	0.36	1	294335	08/04/22	08/04/22	ILK
MTBE	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
trans-1,2-Dichloroethene	ND	H	ug/L	0.50	0.14	1	294335	08/04/22	08/04/22	ILK
1,1-Dichloroethane	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
cis-1,2-Dichloroethene	ND	H	ug/L	0.50	0.14	1	294335	08/04/22	08/04/22	ILK
Chloroform	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,1,1-Trichloroethane	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
Carbon Tetrachloride	ND	H	ug/L	0.50	0.14	1	294335	08/04/22	08/04/22	ILK
1,2-Dichloroethane	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,2-Dichloropropane	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
Bromodichloromethane	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
cis-1,3-Dichloropropene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
trans-1,3-Dichloropropene	ND	H	ug/L	0.50	0.13	1	294335	08/04/22	08/04/22	ILK
1,1,2-Trichloroethane	ND	H	ug/L	0.50	0.13	1	294335	08/04/22	08/04/22	ILK
Tetrachloroethene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
Dibromochloromethane	ND	H	ug/L	0.50	0.13	1	294335	08/04/22	08/04/22	ILK
Ethylbenzene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
m,p-Xylenes	ND	H	ug/L	1.0	0.10	1	294335	08/04/22	08/04/22	ILK
Styrene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
Bromoform	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,1,2,2-Tetrachloroethane	ND	H	ug/L	0.50	0.16	1	294335	08/04/22	08/04/22	ILK

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466759

466759-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
1,3-Dichlorobenzene	**0.14**	H,J	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,4-Dichlorobenzene	**0.17**	H,J	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,2-Dichlorobenzene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,2,4-Trichlorobenzene	ND	H	ug/L	0.50	0.11	1	294335	08/04/22	08/04/22	ILK
Method: EPA 8260B Prep Method: EPA 5030B										
2-Chloroethylvinylether	ND	H,b	ug/L	50	0.6	1	294552	08/08/22	08/08/22	ILK
Acrolein	ND	H	ug/L	200	1.1	1	294552	08/08/22	08/08/22	ILK
Acrylonitrile	ND	H	ug/L	10	0.1	1	294552	08/08/22	08/08/22	ILK
Surrogates				**Limits**						
Dibromofluoromethane	104%	H	%REC	70-140	1.8	1	294552	08/08/22	08/08/22	ILK
1,2-Dichloroethane-d4	104%	H	%REC	70-140	9.2	1	294552	08/08/22	08/08/22	ILK
Toluene-d8	99%	H	%REC	70-140	3.9	1	294552	08/08/22	08/08/22	ILK
Bromofluorobenzene	99%	H	%REC	70-140		1	294552	08/08/22	08/08/22	ILK
Method: SM 2150B										
Odor	ND		TON	1.0		1	294343	08/03/22 18:30	08/03/22 18:30	LVL
Method: SM 2330B										
CCPP	**0.30**		SU			1	294898	08/11/22	08/11/22	SLL
Method: SM 4500-CL-G										
Chlorine, Total Residual	ND	H	mg/L	0.10	0.026	1	294356	08/04/22 11:59	08/04/22 11:59	ATP
Method: SM 4500-CN-E Prep Method: METHOD										
Cyanide	ND		mg/L	0.010	0.0034	1	294384	08/04/22	08/04/22	ATP
Method: SM 4500-F-C										
Fluoride	**0.44**		mg/L	0.10	0.0059	1	294990	08/12/22	08/12/22	LVL
Method: SM 4500-H+ B										
pH	**7.15**	H	SU			1	294375	08/04/22 14:42	08/04/22 14:42	LVL
Temperature	**25.20**	H	deg C	1.00		1	294375	08/04/22 14:42	08/04/22 14:42	LVL
Method: SM 4500-NH3-G										
Ammonia-N	**3.9**		mg/L	0.10	0.045	1	294678	08/09/22	08/09/22	ATP
Nitrogen, Total Kjeldahl	**5.2**		mg/L	0.40	0.12	1	294755	08/10/22	08/10/22	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**1.1**		mg/L	0.10	0.027	5	294923	08/11/22	08/11/22	ATP
Method: SM 5310B										
Total Organic Carbon	**2.0**		mg/L	1.0	0.23	1	294485	08/05/22	08/05/22	ATP
Method: SM 9223Bb										
Fecal Coliform	<1.0		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Coliform, Total	**4.1**		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Method: SM2120B										

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466759

466759-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Color	**20**		ColorUnits	5		1	294342	08/03/22 18:30	08/03/22 18:30	LVL
Method: SM2130B										
Turbidity	**7.2**		NTU	0.10	0.02	1	294341	08/03/22 18:30	08/03/22 18:30	LVL
Method: SM2320B Prep Method: METHOD										
Bicarbonate	**430**		mg/L	13		2.5	294876	08/11/22	08/11/22	WWC
Carbonate	ND		mg/L	13		2.5	294876	08/11/22	08/11/22	WWC
Hydroxide	ND		mg/L	13		2.5	294876	08/11/22	08/11/22	WWC
Alkalinity, Total as CaCO3	**350**		mg/L	13		2.5	294876	08/11/22	08/11/22	WWC
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**2,600**		mg/L	20		2	294681	08/09/22	08/10/22	DNA
Method: SM2540D Prep Method: METHOD										
Total Suspended Solids	**5.3**		mg/L	0.6		1.1	294722	08/05/22	08/05/22	ATP
Method: SM5210B Prep Method: METHOD										
Biochemical Oxygen Demand	**3.3**		mg/L	3.0		1	294277	08/03/22 18:18	08/08/22 15:54	DNA
Method: SM5540C										
Surfactants (MBAS)	**0.058**		mg/L	0.040	0.029	1	294916	08/05/22 09:20	08/05/22 18:07	LVL

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466759

Sample ID: MCWP-MW04D	Lab ID: 466759-002	Collected: 08/03/22 10:40
	Matrix: Water	

466759-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: CALCULATION Prep Method: EPA 200.8										
Chromium Trivalent	ND		ug/L	1.0		1	294414	08/05/22	10/07/22	KAM
Method: EPA 200.7 Prep Method: EPA 200.7										
Boron	**0.78**		mg/L	0.050	0.0080	1	294423	08/05/22	08/05/22	SBW
Calcium	**170**		mg/L	0.10	0.021	1	294423	08/05/22	08/05/22	SBW
Iron	**0.011**	B,J	mg/L	0.020	0.0066	1	294423	08/05/22	08/05/22	SBW
Magnesium	**95**		mg/L	0.10	0.049	1	294423	08/05/22	08/05/22	SBW
Manganese	**0.0080**	J	mg/L	0.010	0.00061	1	294423	08/05/22	08/05/22	SBW
Potassium	**2.2**		mg/L	0.50	0.18	1	294423	08/05/22	08/05/22	SBW
Sodium	**180**		mg/L	0.50	0.035	1	294423	08/05/22	08/05/22	SBW
Method: EPA 200.8 Prep Method: EPA 200.8										
Aluminum	**5.4**	J	ug/L	10	3.2	1	294414	08/05/22	08/05/22	THP
Antimony	**0.17**	J,b	ug/L	0.50	0.060	1	294414	08/05/22	08/05/22	THP
Arsenic	**1.7**	J	ug/L	2.0	0.38	1	294414	08/05/22	08/05/22	THP
Barium	**32**		ug/L	5.0	0.28	1	294414	08/05/22	08/05/22	THP
Beryllium	ND		ug/L	0.50	0.050	1	294414	08/05/22	08/05/22	THP
Cadmium	**0.22**		ug/L	0.20	0.033	1	294414	08/05/22	08/05/22	THP
Chromium	**0.83**	J	ug/L	1.0	0.48	1	294414	08/05/22	08/05/22	THP
Copper	**1.9**		ug/L	0.50	0.050	1	294414	08/05/22	08/05/22	THP
Lead	ND		ug/L	0.50	0.044	1	294414	08/05/22	08/05/22	THP
Nickel	**10**		ug/L	1.0	0.20	1	294414	08/05/22	08/05/22	THP
Selenium	**1.9**	J	ug/L	2.0	0.27	1	294414	08/05/22	08/05/22	THP
Silver	ND		ug/L	0.20	0.025	1	294414	08/05/22	08/05/22	THP
Thallium	ND		ug/L	1.0	0.23	1	294414	08/05/22	08/05/22	THP
Zinc	ND		ug/L	10	4.2	1	294414	08/05/22	08/05/22	THP
Method: EPA 245.1 Prep Method: METHOD										
Mercury	ND		ug/L	0.20	0.11	1	294448	08/06/22	08/06/22	TNN
Method: EPA 300.0 Prep Method: METHOD										
Fluoride	**0.38**		mg/L	0.20	0.081	1	294274	08/03/22 14:19	08/04/22 02:05	RKV
Chloride	**230**		mg/L	25	13	25	294551	08/08/22 11:31	08/09/22 00:35	RKV
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	1	294274	08/03/22 14:19	08/04/22 02:05	RKV
Nitrogen, Nitrate	**1.5**		mg/L	0.10	0.03	1	294274	08/03/22 14:19	08/04/22 02:05	RKV

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466759

466759-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Sulfate	**570**		mg/L	25	6.3	25	294551	08/08/22 11:31	08/09/22 00:35	RKV
Nitrogen, Nitrate/Nitrite	**1.5**		mg/L	0.10		1	294274	08/03/22 14:19	08/04/22 02:05	RKV
Method: EPA 314.0 Prep Method: METHOD										
Perchlorate	ND		ug/L	2.0	0.78	1	294671	08/10/22	08/10/22	RKV
Method: EPA 524.2 Prep Method: METHOD										
1,1-Dichloroethene	ND	H	ug/L	0.50	0.10	1	294928	08/12/22	08/12/22	TCN
Benzene	ND	H	ug/L	0.50	0.081	1	294928	08/12/22	08/12/22	TCN
Trichloroethene	ND	H	ug/L	0.50	0.13	1	294928	08/12/22	08/12/22	TCN
Toluene	ND	H	ug/L	0.50	0.10	1	294928	08/12/22	08/12/22	TCN
Chlorobenzene	ND	H	ug/L	0.50	0.13	1	294928	08/12/22	08/12/22	TCN
Chloromethane	ND	H	ug/L	0.50	0.14	1	294335	08/04/22	08/04/22	ILK
Vinyl Chloride	ND	H	ug/L	0.50	0.12	1	294335	08/04/22	08/04/22	ILK
Bromomethane	ND	H	ug/L	1.0	0.17	1	294335	08/04/22	08/04/22	ILK
Chloroethane	ND	H	ug/L	0.50	0.16	1	294335	08/04/22	08/04/22	ILK
Trichlorofluoromethane	ND	H	ug/L	0.50	0.15	1	294335	08/04/22	08/04/22	ILK
Freon 113	ND	H	ug/L	0.50	0.13	1	294335	08/04/22	08/04/22	ILK
Methylene Chloride	ND	H	ug/L	0.50	0.36	1	294335	08/04/22	08/04/22	ILK
MTBE	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
trans-1,2-Dichloroethene	ND	H	ug/L	0.50	0.14	1	294335	08/04/22	08/04/22	ILK
1,1-Dichloroethane	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
cis-1,2-Dichloroethene	ND	H	ug/L	0.50	0.14	1	294335	08/04/22	08/04/22	ILK
Chloroform	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,1,1-Trichloroethane	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
Carbon Tetrachloride	ND	H	ug/L	0.50	0.14	1	294335	08/04/22	08/04/22	ILK
1,2-Dichloroethane	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,2-Dichloropropane	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
Bromodichloromethane	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
cis-1,3-Dichloropropene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
trans-1,3-Dichloropropene	ND	H	ug/L	0.50	0.13	1	294335	08/04/22	08/04/22	ILK
1,1,2-Trichloroethane	ND	H	ug/L	0.50	0.13	1	294335	08/04/22	08/04/22	ILK
Tetrachloroethene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
Dibromochloromethane	ND	H	ug/L	0.50	0.13	1	294335	08/04/22	08/04/22	ILK
Ethylbenzene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
m,p-Xylenes	ND	H	ug/L	1.0	0.10	1	294335	08/04/22	08/04/22	ILK
Styrene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
Bromoform	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,1,2,2-Tetrachloroethane	ND	H	ug/L	0.50	0.16	1	294335	08/04/22	08/04/22	ILK
1,3-Dichlorobenzene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,4-Dichlorobenzene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,2-Dichlorobenzene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,2,4-Trichlorobenzene	ND	H	ug/L	0.50	0.11	1	294335	08/04/22	08/04/22	ILK

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466759

466759-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8260B Prep Method: EPA 5030B										
2-Chloroethylvinylether	ND	H,b	ug/L	50	0.6	1	294928	08/12/22	08/12/22	TCN
Acrolein	ND	H	ug/L	200	1.1	1	294928	08/12/22	08/12/22	TCN
Acrylonitrile	ND	H	ug/L	10	0.1	1	294928	08/12/22	08/12/22	TCN
Surrogates				**Limits**						
Dibromofluoromethane	106%	H	%REC	70-140	1.8	1	294928	08/12/22	08/12/22	TCN
1,2-Dichloroethane-d4	105%	H	%REC	70-140	9.2	1	294928	08/12/22	08/12/22	TCN
Toluene-d8	98%	H	%REC	70-140	3.9	1	294928	08/12/22	08/12/22	TCN
Bromofluorobenzene	100%	H	%REC	70-140		1	294928	08/12/22	08/12/22	TCN
Method: SM 2150B										
Odor	ND		TON	1.0		1	294343	08/03/22 18:30	08/03/22 18:30	LVL
Method: SM 2330B										
CCPP	**0.35**		SU			1	294898	08/11/22	08/11/22	SLL
Method: SM 4500-CL-G										
Chlorine, Total Residual	ND	H	mg/L	0.10	0.026	1	294356	08/04/22 11:59	08/04/22 11:59	ATP
Method: SM 4500-CN-E Prep Method: METHOD										
Cyanide	ND		mg/L	0.010	0.0034	1	294384	08/04/22	08/04/22	ATP
Method: SM 4500-F-C										
Fluoride	**0.55**		mg/L	0.10	0.0059	1	294990	08/12/22	08/12/22	LVL
Method: SM 4500-H+ B										
pH	**7.24**	H	SU			1	294375	08/04/22 14:42	08/04/22 14:42	LVL
Temperature	**24.90**	H	deg C	1.00		1	294375	08/04/22 14:42	08/04/22 14:42	LVL
Method: SM 4500-NH3-G										
Ammonia-N	**0.12**		mg/L	0.10	0.045	1	294678	08/09/22	08/09/22	ATP
Nitrogen, Total Kjeldahl	**0.15**	J	mg/L	0.40	0.12	1	294755	08/10/22	08/10/22	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.097**		mg/L	0.020	0.0054	1	294923	08/11/22	08/11/22	ATP
Method: SM 5310B										
Total Organic Carbon	**0.54**	J	mg/L	1.0	0.23	1	294485	08/05/22	08/05/22	ATP
Method: SM 9223Bb										
Fecal Coliform	<1.0	H	MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Coliform, Total	**1.0**	H	MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Method: SM2120B										
Color	ND		ColorUnits	5		1	294342	08/03/22 18:30	08/03/22 18:30	LVL
Method: SM2130B										

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466759

466759-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Turbidity	**0.08**	J	NTU	0.10	0.02	1	294341	08/03/22 18:30	08/03/22 18:30	LVL
Method: SM2320B Prep Method: METHOD										
Bicarbonate	**310**		mg/L	13		2.5	294876	08/11/22	08/11/22	WWC
Carbonate	ND		mg/L	13		2.5	294876	08/11/22	08/11/22	WWC
Hydroxide	ND		mg/L	13		2.5	294876	08/11/22	08/11/22	WWC
Alkalinity, Total as CaCO3	**260**		mg/L	13		2.5	294876	08/11/22	08/11/22	WWC
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**1,500**		mg/L	20		2	294681	08/09/22	08/10/22	DNA
Method: SM2540D Prep Method: METHOD										
Total Suspended Solids	**0.8**		mg/L	0.6		1.1	294722	08/05/22	08/05/22	ATP
Method: SM5210B Prep Method: METHOD										
Biochemical Oxygen Demand	ND		mg/L	3.0		1	294277	08/03/22 18:26	08/08/22 15:54	DNA
Method: SM5540C										
Surfactants (MBAS)	ND		mg/L	0.040	0.029	1	294916	08/05/22 09:20	08/05/22 18:07	LVL

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466759

Sample ID: MCWP-MW09	Lab ID: 466759-003	Collected: 08/03/22 12:40
	Matrix: Water	

466759-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: CALCULATION Prep Method: EPA 200.8										
Chromium Trivalent	ND		ug/L	1.0		1	294414	08/05/22	10/07/22	KAM
Method: EPA 200.7 Prep Method: EPA 200.7										
Boron	**0.76**		mg/L	0.050	0.0080	1	294423	08/05/22	08/05/22	SBW
Calcium	**100**		mg/L	0.10	0.021	1	294423	08/05/22	08/05/22	SBW
Iron	**0.41**		mg/L	0.020	0.0066	1	294423	08/05/22	08/09/22	SBW
Magnesium	**96**		mg/L	0.10	0.049	1	294423	08/05/22	08/05/22	SBW
Manganese	**0.12**		mg/L	0.010	0.00061	1	294423	08/05/22	08/05/22	SBW
Potassium	**15**		mg/L	0.50	0.18	1	294423	08/05/22	08/05/22	SBW
Sodium	**620**		mg/L	0.50	0.035	1	294423	08/05/22	08/05/22	SBW
Method: EPA 200.8 Prep Method: EPA 200.8										
Aluminum	**380**		ug/L	52	52	2	294414	08/05/22	08/11/22	THP
Antimony	ND		ug/L	1.0	0.084	2	294414	08/05/22	08/11/22	THP
Arsenic	**4.3**		ug/L	2.0	0.38	1	294414	08/05/22	08/05/22	THP
Barium	**19**		ug/L	5.0	0.28	1	294414	08/05/22	08/05/22	THP
Beryllium	ND		ug/L	0.50	0.050	1	294414	08/05/22	08/05/22	THP
Cadmium	**0.065**	J	ug/L	0.20	0.033	1	294414	08/05/22	08/05/22	THP
Chromium	**0.72**	J	ug/L	1.0	0.48	1	294414	08/05/22	08/05/22	THP
Copper	**6.1**		ug/L	0.50	0.050	1	294414	08/05/22	08/05/22	THP
Lead	**0.12**	J	ug/L	0.50	0.044	1	294414	08/05/22	08/05/22	THP
Nickel	**6.5**		ug/L	1.0	0.20	1	294414	08/05/22	08/05/22	THP
Selenium	**6.1**		ug/L	2.0	0.27	1	294414	08/05/22	08/05/22	THP
Silver	ND		ug/L	0.20	0.025	1	294414	08/05/22	08/05/22	THP
Thallium	ND		ug/L	1.0	0.23	1	294414	08/05/22	08/05/22	THP
Zinc	**320**		ug/L	10	4.2	1	294414	08/05/22	08/05/22	THP
Method: EPA 245.1 Prep Method: METHOD										
Mercury	ND		ug/L	0.20	0.11	1	294448	08/06/22	08/06/22	TNN
Method: EPA 300.0 Prep Method: METHOD										
Fluoride	**0.31**		mg/L	0.20	0.081	1	294274	08/03/22 14:19	08/04/22 02:22	RKV
Chloride	**800**		mg/L	50	25	50	294551	08/08/22 11:31	08/09/22 00:51	RKV
Nitrogen, Nitrite	ND		mg/L	1.0	0.20	10	294274	08/03/22 14:19	08/04/22 19:51	RKV
Nitrogen, Nitrate	ND		mg/L	0.10	0.03	1	294274	08/03/22 14:19	08/04/22 02:22	RKV

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466759

466759-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Sulfate	**650**		mg/L	50	13	50	294551	08/08/22 11:31	08/09/22 00:51	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	0.10		10	294274	08/03/22 14:19	08/04/22 19:51	RKV
Method: EPA 314.0 Prep Method: METHOD										
Perchlorate	ND		ug/L	2.0	0.78	1	294671	08/10/22	08/10/22	RKV
Method: EPA 524.2 Prep Method: METHOD										
1,1-Dichloroethene	ND	H	ug/L	0.50	0.10	1	294928	08/12/22	08/12/22	TCN
Benzene	ND	H	ug/L	0.50	0.081	1	294928	08/12/22	08/12/22	TCN
Trichloroethene	ND	H	ug/L	0.50	0.13	1	294928	08/12/22	08/12/22	TCN
Toluene	**0.90**	H	ug/L	0.50	0.10	1	294928	08/12/22	08/12/22	TCN
Chlorobenzene	ND	H	ug/L	0.50	0.13	1	294928	08/12/22	08/12/22	TCN
Chloromethane	ND	H	ug/L	0.50	0.14	1	294335	08/04/22	08/04/22	ILK
Vinyl Chloride	ND	H	ug/L	0.50	0.12	1	294335	08/04/22	08/04/22	ILK
Bromomethane	ND	H	ug/L	1.0	0.17	1	294335	08/04/22	08/04/22	ILK
Chloroethane	ND	H	ug/L	0.50	0.16	1	294335	08/04/22	08/04/22	ILK
Trichlorofluoromethane	ND	H	ug/L	0.50	0.15	1	294335	08/04/22	08/04/22	ILK
Freon 113	ND	H	ug/L	0.50	0.13	1	294335	08/04/22	08/04/22	ILK
Methylene Chloride	ND	H	ug/L	0.50	0.36	1	294335	08/04/22	08/04/22	ILK
MTBE	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
trans-1,2-Dichloroethene	ND	H	ug/L	0.50	0.14	1	294335	08/04/22	08/04/22	ILK
1,1-Dichloroethane	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
cis-1,2-Dichloroethene	ND	H	ug/L	0.50	0.14	1	294335	08/04/22	08/04/22	ILK
Chloroform	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,1,1-Trichloroethane	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
Carbon Tetrachloride	ND	H	ug/L	0.50	0.14	1	294335	08/04/22	08/04/22	ILK
1,2-Dichloroethane	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,2-Dichloropropane	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
Bromodichloromethane	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
cis-1,3-Dichloropropene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
trans-1,3-Dichloropropene	ND	H	ug/L	0.50	0.13	1	294335	08/04/22	08/04/22	ILK
1,1,2-Trichloroethane	ND	H	ug/L	0.50	0.13	1	294335	08/04/22	08/04/22	ILK
Tetrachloroethene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
Dibromochloromethane	ND	H	ug/L	0.50	0.13	1	294335	08/04/22	08/04/22	ILK
Ethylbenzene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
m,p-Xylenes	ND	H	ug/L	1.0	0.10	1	294335	08/04/22	08/04/22	ILK
Styrene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
Bromoform	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,1,2,2-Tetrachloroethane	ND	H	ug/L	0.50	0.16	1	294335	08/04/22	08/04/22	ILK
1,3-Dichlorobenzene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,4-Dichlorobenzene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,2-Dichlorobenzene	ND	H	ug/L	0.50	0.10	1	294335	08/04/22	08/04/22	ILK
1,2,4-Trichlorobenzene	ND	H	ug/L	0.50	0.11	1	294335	08/04/22	08/04/22	ILK

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466759

466759-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8260B Prep Method: EPA 5030B										
2-Chloroethylvinylether	ND	H,b	ug/L	50	0.6	1	294928	08/12/22	08/12/22	TCN
Acrolein	ND	H	ug/L	200	1.1	1	294928	08/12/22	08/12/22	TCN
Acrylonitrile	ND	H	ug/L	10	0.1	1	294928	08/12/22	08/12/22	TCN
Surrogates				**Limits**						
Dibromofluoromethane	100%	H	%REC	70-140	1.8	1	294928	08/12/22	08/12/22	TCN
1,2-Dichloroethane-d4	93%	H	%REC	70-140	9.2	1	294928	08/12/22	08/12/22	TCN
Toluene-d8	103%	H	%REC	70-140	3.9	1	294928	08/12/22	08/12/22	TCN
Bromofluorobenzene	99%	H	%REC	70-140		1	294928	08/12/22	08/12/22	TCN
Method: SM 2150B										
Odor	ND		TON	1.0		1	294343	08/03/22 18:30	08/03/22 18:30	LVL
Method: SM 2330B										
CCPP	**0.34**		SU			1	294898	08/11/22	08/11/22	SLL
Method: SM 4500-CL-G										
Chlorine, Total Residual	ND	H	mg/L	0.10	0.026	1	294356	08/04/22 11:59	08/04/22 11:59	ATP
Method: SM 4500-CN-E Prep Method: METHOD										
Cyanide	ND		mg/L	0.010	0.0034	1	294384	08/04/22	08/04/22	ATP
Method: SM 4500-F-C										
Fluoride	**0.46**		mg/L	0.10	0.0059	1	294990	08/12/22	08/12/22	LVL
Method: SM 4500-H+ B										
pH	**7.50**	H	SU			1	294375	08/04/22 14:42	08/04/22 14:42	LVL
Temperature	**25.40**	H	deg C	1.00		1	294375	08/04/22 14:42	08/04/22 14:42	LVL
Method: SM 4500-NH3-G										
Ammonia-N	**2.2**		mg/L	0.10	0.045	1	294678	08/09/22	08/09/22	ATP
Nitrogen, Total Kjeldahl	**2.4**		mg/L	0.40	0.12	1	294755	08/10/22	08/10/22	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.20**		mg/L	0.020	0.0054	1	294923	08/11/22	08/11/22	ATP
Method: SM 5310B										
Total Organic Carbon	ND		mg/L	1.0	0.23	1	294485	08/05/22	08/05/22	ATP
Method: SM 9223Bb										
Fecal Coliform	<1.0		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Coliform, Total	**1.0**		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Method: SM2120B										
Color	**10**		ColorUnits	5		1	294342	08/03/22 18:30	08/03/22 18:30	LVL
Method: SM2130B										

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466759

466759-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Turbidity	**2.3**		NTU	0.10	0.02	1	294341	08/03/22 18:30	08/03/22 18:30	LVL
Method: SM2320B Prep Method: METHOD										
Bicarbonate	**330**		mg/L	13		2.5	294876	08/11/22	08/11/22	WWC
Carbonate	ND		mg/L	13		2.5	294876	08/11/22	08/11/22	WWC
Hydroxide	ND		mg/L	13		2.5	294876	08/11/22	08/11/22	WWC
Alkalinity, Total as CaCO3	**270**		mg/L	13		2.5	294876	08/11/22	08/11/22	WWC
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**2,700**		mg/L	20		2	294681	08/09/22	08/10/22	DNA
Method: SM2540D Prep Method: METHOD										
Total Suspended Solids	**1.3**		mg/L	0.6		1.1	294722	08/05/22	08/05/22	ATP
Method: SM5210B Prep Method: METHOD										
Biochemical Oxygen Demand	ND		mg/L	3.0		1	294277	08/03/22 18:17	08/08/22 15:54	DNA
Method: SM5540C										
Surfactants (MBAS)	ND		mg/L	0.040	0.029	1	294916	08/05/22 09:20	08/05/22 18:07	LVL

<	Value is less than indicated concentration
B	Contamination found in associated Method Blank
H	Holding time was exceeded
J	Estimated value
ND	Not Detected
b	See narrative

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC1004811	**Batch:** 294423
Matrix: Water	**Method:** EPA 200.7	**Prep Method:** EPA 200.7

QC1004811 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Boron	ND		mg/L	0.050	0.0080	08/05/22	08/05/22
Calcium	ND		mg/L	0.10	0.021	08/05/22	08/05/22
Iron	0.011	J	mg/L	0.020	0.0066	08/05/22	08/09/22
Magnesium	0.079	J	mg/L	0.10	0.049	08/05/22	08/05/22
Manganese	0.00068	J	mg/L	0.010	0.00061	08/05/22	08/05/22
Potassium	ND		mg/L	0.50	0.18	08/05/22	08/05/22
Sodium	0.060	J	mg/L	0.50	0.035	08/05/22	08/05/22

Type: Lab Control Sample	**Lab ID:** QC1004812	**Batch:** 294423
Matrix: Water	**Method:** EPA 200.7	**Prep Method:** EPA 200.7

QC1004812 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Boron	0.4158	0.4000	mg/L	104%	b	85-115
Calcium	19.68	18.40	mg/L	107%		85-115
Iron	0.4246	0.4000	mg/L	106%		85-115
Magnesium	20.35	18.40	mg/L	111%		85-115
Manganese	0.4157	0.4000	mg/L	104%		85-115
Potassium	22.18	22.00	mg/L	101%		85-115
Sodium	18.79	18.40	mg/L	102%		85-115

Type: Matrix Spike	**Lab ID:** QC1004813	**Batch:** 294423
Matrix (Source ID): Water (466782-001)	**Method:** EPA 200.7	**Prep Method:** EPA 200.7

QC1004813 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Boron	0.6598	0.2635	0.4000	mg/L	99%		75-125	1
Calcium	40.17	17.96	19.40	mg/L	114%		75-125	1
Iron	0.4005	0.01253	0.4000	mg/L	97%		75-125	1
Magnesium	25.64	3.503	19.40	mg/L	114%		75-125	1
Manganese	0.3786	0.004787	0.4000	mg/L	93%		75-125	1
Potassium	25.67	1.192	23.00	mg/L	106%		75-125	1
Sodium	122.7	97.26	19.40	mg/L	131%	NM	75-125	1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1004814**	**Batch:**	**294423**
Matrix (Source ID):	**Water (466782-001)**	**Method:**	**EPA 200.7**	**Prep Method:**	**EPA 200.7**

QC1004814 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Boron	0.6341	0.2635	0.4000	mg/L	93%		75-125	4	20	1
Calcium	39.23	17.96	19.40	mg/L	110%		75-125	2	20	1
Iron	0.3885	0.01253	0.4000	mg/L	94%		75-125	3	20	1
Magnesium	25.30	3.503	19.40	mg/L	112%		75-125	1	20	1
Manganese	0.3659	0.004787	0.4000	mg/L	90%		75-125	3	20	1
Potassium	25.11	1.192	23.00	mg/L	104%		75-125	2	20	1
Sodium	119.3	97.26	19.40	mg/L	113%	NM	75-125	3	20	1

Type:	**Blank**	**Lab ID:**	**QC1004782**	**Batch:**	**294414**
Matrix:	**Water**				

QC1004782 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Method: CALCULATION Prep Method: EPA 200.8							
Chromium Trivalent	ND		ug/L	1.0		08/05/22	10/07/22
Method: EPA 200.8 Prep Method: EPA 200.8							
Aluminum	ND		ug/L	10	3.2	08/05/22	08/05/22
Antimony	ND		ug/L	0.50	0.042	08/05/22	08/11/22
Arsenic	ND		ug/L	2.0	0.38	08/05/22	08/08/22
Barium	ND		ug/L	5.0	0.28	08/05/22	08/05/22
Beryllium	ND		ug/L	0.50	0.050	08/05/22	08/05/22
Cadmium	ND		ug/L	0.20	0.033	08/05/22	08/05/22
Chromium	ND		ug/L	1.0	0.48	08/05/22	08/08/22
Copper	ND		ug/L	0.50	0.28	08/05/22	08/11/22
Lead	ND		ug/L	0.50	0.044	08/05/22	08/05/22
Nickel	ND		ug/L	1.0	0.20	08/05/22	08/05/22
Selenium	ND		ug/L	2.0	0.27	08/05/22	08/05/22
Silver	ND		ug/L	0.20	0.025	08/05/22	08/05/22
Thallium	ND		ug/L	1.0	0.23	08/05/22	08/05/22
Zinc	ND		ug/L	10	4.2	08/05/22	08/05/22

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	Lab ID: QC1004783	Batch: 294414
Matrix: Water	Method: EPA 200.8	Prep Method: EPA 200.8

QC1004783 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Aluminum	96.82	100.0	ug/L	97%		85-115
Antimony	107.1	100.0	ug/L	107%		85-115
Arsenic	101.2	100.0	ug/L	101%		85-115
Barium	100.0	100.0	ug/L	100%		85-115
Beryllium	109.8	100.0	ug/L	110%		85-115
Cadmium	102.8	100.0	ug/L	103%		85-115
Chromium	103.2	100.0	ug/L	103%		85-115
Copper	101.9	100.0	ug/L	102%		85-115
Lead	93.85	100.0	ug/L	94%		85-115
Nickel	103.0	100.0	ug/L	103%		85-115
Selenium	102.5	100.0	ug/L	103%		85-115
Silver	49.14	50.00	ug/L	98%		85-115
Thallium	92.30	100.0	ug/L	92%		85-115
Zinc	105.3	100.0	ug/L	105%		85-115

Type: Matrix Spike	Lab ID: QC1004788	Batch: 294414
Matrix (Source ID): Water (466803-001)	Method: EPA 200.8	Prep Method: EPA 200.8

QC1004788 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Aluminum	91.17	ND	100.0	ug/L	91%		70-130	1
Antimony	102.8	ND	100.0	ug/L	103%		70-130	1
Arsenic	98.13	0.6000	100.0	ug/L	98%		70-130	1
Barium	93.35	ND	100.0	ug/L	93%		70-130	1
Beryllium	108.1	ND	100.0	ug/L	108%		70-130	1
Cadmium	98.77	ND	100.0	ug/L	99%		70-130	1
Chromium	99.42	1.239	100.0	ug/L	98%		70-130	1
Copper	96.84	0.07200	100.0	ug/L	97%		70-130	1
Lead	87.24	ND	100.0	ug/L	87%		70-130	1
Nickel	97.27	ND	100.0	ug/L	97%		70-130	1
Selenium	98.61	0.3280	100.0	ug/L	98%		70-130	1
Silver	45.99	ND	50.00	ug/L	92%		70-130	1
Thallium	86.63	ND	100.0	ug/L	87%		70-130	1
Zinc	101.1	ND	100.0	ug/L	101%		70-130	1

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike Duplicate	Lab ID:	QC1004789	Batch:	294414
Matrix (Source ID):	Water (466803-001)	Method:	EPA 200.8	Prep Method:	EPA 200.8

QC1004789 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Aluminum	90.38	ND	100.0	ug/L	90%		70-130	1	20	1
Antimony	102.1	ND	100.0	ug/L	102%		70-130	1	20	1
Arsenic	97.84	0.6000	100.0	ug/L	97%		70-130	0	20	1
Barium	92.67	ND	100.0	ug/L	93%		70-130	1	20	1
Beryllium	107.3	ND	100.0	ug/L	107%		70-130	1	20	1
Cadmium	97.71	ND	100.0	ug/L	98%		70-130	1	20	1
Chromium	97.37	1.239	100.0	ug/L	96%		70-130	2	20	1
Copper	95.67	0.07200	100.0	ug/L	96%		70-130	1	20	1
Lead	86.67	ND	100.0	ug/L	87%		70-130	1	20	1
Nickel	95.79	ND	100.0	ug/L	96%		70-130	2	20	1
Selenium	98.90	0.3280	100.0	ug/L	99%		70-130	0	20	1
Silver	45.73	ND	50.00	ug/L	91%		70-130	1	20	1
Thallium	85.99	ND	100.0	ug/L	86%		70-130	1	20	1
Zinc	100.4	ND	100.0	ug/L	100%		70-130	1	20	1

Type:	Blank	Lab ID:	QC1004879	Batch:	294448
Matrix:	Water	Method:	EPA 245.1	Prep Method:	METHOD

QC1004879 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Mercury	ND		ug/L	0.20	0.11	08/06/22	08/06/22

Type:	Lab Control Sample	Lab ID:	QC1004880	Batch:	294448
Matrix:	Water	Method:	EPA 245.1	Prep Method:	METHOD

QC1004880 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Mercury	4.865	5.000	ug/L	97%		80-120

Type:	Matrix Spike	Lab ID:	QC1004881	Batch:	294448
Matrix (Source ID):	Water (466334-001)	Method:	EPA 245.1	Prep Method:	METHOD

QC1004881 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	4.838	ND	5.000	ug/L	97%		75-125	1

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1004882**	**Batch:**	**294448**
Matrix (Source ID):	**Water (466334-001)**	**Method:**	**EPA 245.1**	**Prep Method:**	**METHOD**

QC1004882 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	4.946	ND	5.000	ug/L	99%		75-125	2	20	1

Type:	**Matrix Spike**	**Lab ID:**	**QC1004883**	**Batch:**	**294448**
Matrix (Source ID):	**Water (466598-001)**	**Method:**	**EPA 245.1**	**Prep Method:**	**METHOD**

QC1004883 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	4.638	ND	5.000	ug/L	93%		75-125	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1004884**	**Batch:**	**294448**
Matrix (Source ID):	**Water (466598-001)**	**Method:**	**EPA 245.1**	**Prep Method:**	**METHOD**

QC1004884 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	4.744	ND	5.000	ug/L	95%		75-125	2	20	1

Type:	**Blank**	**Lab ID:**	**QC1004351**	**Batch:**	**294274**
Matrix:	**Drinking Water**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC1004351 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Fluoride	ND		mg/L	0.20	0.081	08/03/22 14:19	08/03/22 20:11
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	08/03/22 14:19	08/03/22 20:11
Nitrogen, Nitrate	ND		mg/L	0.10	0.03	08/03/22 14:19	08/03/22 20:11
Nitrogen, Nitrate/Nitrite	ND		mg/L	0.10		08/03/22 14:19	08/03/22 20:11

Type:	**Lab Control Sample**	**Lab ID:**	**QC1004352**	**Batch:**	**294274**
Matrix:	**Drinking Water**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC1004352 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Fluoride	4.798	5.000	mg/L	96%		90-110
Nitrogen, Nitrite	2.507	2.283	mg/L	110%		90-110
Nitrogen, Nitrate	2.430	2.259	mg/L	108%		90-110

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1004353**	**Batch:**	**294274**
Matrix (Source ID):	**Drinking Water (466719-003)**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC1004353 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Fluoride	4.650	0.8242	4.000	mg/L	96%		80-120	1
Nitrogen, Nitrite	1.991	ND	1.827	mg/L	109%		80-120	1
Nitrogen, Nitrate	5.367	3.359	1.807	mg/L	111%		80-120	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1004354**	**Batch:**	**294274**
Matrix (Source ID):	**Drinking Water (466719-003)**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC1004354 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Fluoride	4.650	0.8242	4.000	mg/L	96%		80-120	0	20	1
Nitrogen, Nitrite	1.988	ND	1.827	mg/L	109%		80-120	0	20	1
Nitrogen, Nitrate	5.360	3.359	1.807	mg/L	111%		80-120	0	20	1

Type:	**Matrix Spike**	**Lab ID:**	**QC1004369**	**Batch:**	**294274**
Matrix (Source ID):	**Drinking Water (466774-004)**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC1004369 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Fluoride	3.840	0.2288	4.000	mg/L	90%		80-120	1
Nitrogen, Nitrite	1.860	ND	1.827	mg/L	102%		80-120	1
Nitrogen, Nitrate	10.02	7.955	1.807	mg/L	114%	E,NM	80-120	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1004370**	**Batch:**	**294274**
Matrix (Source ID):	**Drinking Water (466774-004)**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC1004370 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Fluoride	3.889	0.2288	4.000	mg/L	92%		80-120	1	20	1
Nitrogen, Nitrite	1.885	ND	1.827	mg/L	103%		80-120	1	20	1
Nitrogen, Nitrate	10.03	7.955	1.807	mg/L	115%	E,NM	80-120		20	1

Type:	**Blank**	**Lab ID:**	**QC1005229**	**Batch:**	**294551**
Matrix:	**Drinking Water**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC1005229 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Chloride	0.67	J	mg/L	1.0	0.50	08/08/22 11:31	08/08/22 20:05
Sulfate	ND		mg/L	1.0	0.25	08/08/22 11:31	08/08/22 20:05

ENTHALPY ANALYTICAL

Batch QC

Type:	Lab Control Sample	Lab ID:	QC1005230	Batch:	294551
Matrix:	Drinking Water	Method:	EPA 300.0	Prep Method:	METHOD

QC1005230 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chloride	25.81	25.00	mg/L	103%		90-110
Sulfate	13.36	12.50	mg/L	107%		90-110

Type:	Matrix Spike	Lab ID:	QC1005272	Batch:	294551
Matrix (Source ID):	Drinking Water (466982-001)	Method:	EPA 300.0	Prep Method:	METHOD

QC1005272 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Chloride	312.1	278.4	20.00	mg/L	168%	NM	80-120	10
Sulfate	339.2	312.6	10.00	mg/L	266%	NM	80-120	10

Type:	Matrix Spike Duplicate	Lab ID:	QC1005273	Batch:	294551
Matrix (Source ID):	Drinking Water (466982-001)	Method:	EPA 300.0	Prep Method:	METHOD

QC1005273 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Chloride	313.2	278.4	20.00	mg/L	174%	NM	80-120	0	20	10
Sulfate	339.3	312.6	10.00	mg/L	267%	NM	80-120	0	20	10

Type:	Matrix Spike	Lab ID:	QC1005355	Batch:	294551
Matrix (Source ID):	Drinking Water (467056-001)	Method:	EPA 300.0	Prep Method:	METHOD

QC1005355 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Chloride	90.03	74.41	20.00	mg/L	78%	*	80-120	5
Sulfate	23.18	12.01	10.00	mg/L	112%		80-120	1

Type:	Matrix Spike Duplicate	Lab ID:	QC1005356	Batch:	294551
Matrix (Source ID):	Drinking Water (467056-001)	Method:	EPA 300.0	Prep Method:	METHOD

QC1005356 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Chloride	89.46	74.41	20.00	mg/L	75%	*	80-120	1	20	5
Sulfate	23.11	12.01	10.00	mg/L	111%		80-120	0	20	1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC1005556	**Batch:** 294671
Matrix: Drinking Water	**Method:** EPA 314.0	**Prep Method:** METHOD

QC1005556 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Perchlorate	ND		ug/L	2.0	0.78	08/10/22	08/10/22

Type: Lab Control Sample	**Lab ID:** QC1005557	**Batch:** 294671
Matrix: Drinking Water	**Method:** EPA 314.0	**Prep Method:** METHOD

QC1005557 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Perchlorate	51.28	50.00	ug/L	103%		85-115

Type: Matrix Spike	**Lab ID:** QC1005558	**Batch:** 294671
Matrix (Source ID): Drinking Water (466774-008)	**Method:** EPA 314.0	**Prep Method:** METHOD

QC1005558 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Perchlorate	27.71	ND	25.00	ug/L	111%		80-120	1

Type: Matrix Spike Duplicate	**Lab ID:** QC1005559	**Batch:** 294671
Matrix (Source ID): Drinking Water (466774-008)	**Method:** EPA 314.0	**Prep Method:** METHOD

QC1005559 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Perchlorate	28.81	ND	25.00	ug/L	115%		80-120	4	15	1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC1004559		**Batch:** 294335
Matrix: Water	**Method:** EPA 524.2		**Prep Method:** METHOD

QC1004559 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
1,1-Dichloroethene	ND		ug/L	0.50	0.14	08/04/22	08/04/22
Benzene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Trichloroethene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Toluene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Chlorobenzene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Chloromethane	ND		ug/L	0.50	0.14	08/04/22	08/04/22
Vinyl Chloride	ND		ug/L	0.50	0.12	08/04/22	08/04/22
Bromomethane	ND		ug/L	1.0	0.17	08/04/22	08/04/22
Chloroethane	ND		ug/L	0.50	0.16	08/04/22	08/04/22
Trichlorofluoromethane	ND		ug/L	0.50	0.15	08/04/22	08/04/22
Freon 113	ND		ug/L	0.50	0.13	08/04/22	08/04/22
Methylene Chloride	ND		ug/L	0.50	0.36	08/04/22	08/04/22
MTBE	ND		ug/L	0.50	0.10	08/04/22	08/04/22
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.14	08/04/22	08/04/22
1,1-Dichloroethane	ND		ug/L	0.50	0.10	08/04/22	08/04/22
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.14	08/04/22	08/04/22
Chloroform	ND		ug/L	0.50	0.10	08/04/22	08/04/22
1,1,1-Trichloroethane	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Carbon Tetrachloride	ND		ug/L	0.50	0.14	08/04/22	08/04/22
1,2-Dichloroethane	ND		ug/L	0.50	0.10	08/04/22	08/04/22
1,2-Dichloropropane	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Bromodichloromethane	ND		ug/L	0.50	0.10	08/04/22	08/04/22
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.13	08/04/22	08/04/22
1,1,2-Trichloroethane	ND		ug/L	0.50	0.13	08/04/22	08/04/22
Tetrachloroethene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Dibromochloromethane	ND		ug/L	0.50	0.13	08/04/22	08/04/22
Ethylbenzene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
m,p-Xylenes	ND		ug/L	1.0	0.10	08/04/22	08/04/22
Styrene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Bromoform	ND		ug/L	0.50	0.10	08/04/22	08/04/22
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.16	08/04/22	08/04/22
1,3-Dichlorobenzene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
1,4-Dichlorobenzene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
1,2-Dichlorobenzene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
1,2,4-Trichlorobenzene	0.12	J	ug/L	0.50	0.11	08/04/22	08/04/22
Surrogates				**Limits**			
Bromofluorobenzene	103%		%REC	70-140		08/04/22	08/04/22
1,2-Dichloroethane-d4	99%		%REC	70-140		08/04/22	08/04/22
Dibromofluoromethane	95%		%REC	70-140		08/04/22	08/04/22
Toluene-d8	97%		%REC	70-140		08/04/22	08/04/22

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample **Lab ID: QC1004560** **Batch: 294335**
Matrix: Water

QC1004560 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Method: EPA 524.2 Prep Method: METHOD						
MTBE	10.04	10.00	ug/L	100%		70-130
Method: EPA 8260B Prep Method: EPA 5030B						
1,1-Dichloroethene	7.648	10.00	ug/L	76%		70-135
Benzene	10.14	10.00	ug/L	101%		70-130
Trichloroethene	10.54	10.00	ug/L	105%		70-130
Toluene	9.462	10.00	ug/L	95%		70-130
Chlorobenzene	9.555	10.00	ug/L	96%		70-130
Surrogates						
Dibromofluoromethane	12.10	12.50	ug/L	97%		70-140
1,2-Dichloroethane-d4	12.75	12.50	ug/L	102%		70-140
Toluene-d8	12.28	12.50	ug/L	98%		70-140
Bromofluorobenzene	12.90	12.50	ug/L	103%		70-140

Type: Lab Control Sample Duplicate **Lab ID: QC1004561** **Batch: 294335**
Matrix: Water

QC1004561 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Method: EPA 524.2 Prep Method: METHOD								
MTBE	10.10	10.00	ug/L	101%		70-130	1	30
Method: EPA 8260B Prep Method: EPA 5030B								
1,1-Dichloroethene	7.144	10.00	ug/L	71%		70-135	7	30
Benzene	9.856	10.00	ug/L	99%		70-130	3	30
Trichloroethene	10.24	10.00	ug/L	102%		70-130	3	30
Toluene	9.164	10.00	ug/L	92%		70-130	3	30
Chlorobenzene	9.388	10.00	ug/L	94%		70-130	2	30
Surrogates								
Dibromofluoromethane	12.48	12.50	ug/L	100%		70-140		
1,2-Dichloroethane-d4	12.91	12.50	ug/L	103%		70-140		
Toluene-d8	11.85	12.50	ug/L	95%		70-140		
Bromofluorobenzene	12.41	12.50	ug/L	99%		70-140		

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1005233	Batch: 294552
Matrix: Water		

QC1005233 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Method: EPA 524.2 Prep Method: METHOD							
1,1-Dichloroethene	ND		ug/L	0.50	0.10	08/08/22	08/08/22
Benzene	ND		ug/L	0.50	0.081	08/08/22	08/08/22
Trichloroethene	ND		ug/L	0.50	0.13	08/08/22	08/08/22
Toluene	ND		ug/L	0.50	0.10	08/08/22	08/08/22
Chlorobenzene	ND		ug/L	0.50	0.13	08/08/22	08/08/22
Chloromethane	ND		ug/L	0.50	0.15	08/08/22	08/08/22
Vinyl Chloride	ND		ug/L	0.50	0.11	08/08/22	08/08/22
Bromomethane	ND		ug/L	1.0	0.18	08/08/22	08/08/22
Chloroethane	ND		ug/L	0.50	0.13	08/08/22	08/08/22
Trichlorofluoromethane	ND		ug/L	0.50	0.12	08/08/22	08/08/22
Freon 113	ND		ug/L	0.50	0.12	08/08/22	08/08/22
Methylene Chloride	ND		ug/L	2.0	0.46	08/08/22	08/08/22
MTBE	ND		ug/L	0.50	0.10	08/08/22	08/08/22
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.15	08/08/22	08/08/22
1,1-Dichloroethane	ND		ug/L	0.50	0.12	08/08/22	08/08/22
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.11	08/08/22	08/08/22
Chloroform	ND		ug/L	0.50	0.28	08/08/22	08/08/22
1,1,1-Trichloroethane	ND		ug/L	0.50	0.11	08/08/22	08/08/22
Carbon Tetrachloride	ND		ug/L	0.50	0.10	08/08/22	08/08/22
1,2-Dichloroethane	ND		ug/L	0.50	0.098	08/08/22	08/08/22
1,2-Dichloropropane	ND		ug/L	0.50	0.12	08/08/22	08/08/22
Bromodichloromethane	ND		ug/L	0.50	0.052	08/08/22	08/08/22
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.075	08/08/22	08/08/22
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.12	08/08/22	08/08/22
1,1,2-Trichloroethane	ND		ug/L	0.50	0.14	08/08/22	08/08/22
Tetrachloroethene	ND		ug/L	0.50	0.20	08/08/22	08/08/22
Dibromochloromethane	ND		ug/L	0.50	0.19	08/08/22	08/08/22
Ethylbenzene	ND		ug/L	0.50	0.13	08/08/22	08/08/22
m,p-Xylenes	ND		ug/L	1.0	0.24	08/08/22	08/08/22
Styrene	ND		ug/L	0.50	0.11	08/08/22	08/08/22
Bromoform	ND		ug/L	0.50	0.078	08/08/22	08/08/22
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.16	08/08/22	08/08/22
1,3-Dichlorobenzene	ND		ug/L	0.50	0.12	08/08/22	08/08/22
1,4-Dichlorobenzene	ND		ug/L	0.50	0.11	08/08/22	08/08/22
1,2-Dichlorobenzene	ND		ug/L	0.50	0.083	08/08/22	08/08/22
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.15	08/08/22	08/08/22
Method: EPA 8260B Prep Method: EPA 5030B							
2-Chloroethylvinylether	ND	b	ug/L	50	0.6	08/08/22	08/08/22
Acrolein	ND		ug/L	200	1.1	08/08/22	08/08/22

Batch QC

QC1005233 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Acrylonitrile	ND		ug/L	10	0.1	08/08/22	08/08/22
Surrogates				**Limits**			
Dibromofluoromethane	103%		%REC	70-140	1.8	08/08/22	08/08/22
1,2-Dichloroethane-d4	101%		%REC	70-140	9.2	08/08/22	08/08/22
Toluene-d8	99%		%REC	70-140	3.9	08/08/22	08/08/22
Bromofluorobenzene	101%		%REC	70-140		08/08/22	08/08/22

Type: Lab Control Sample **Lab ID: QC1005235** **Batch: 294552**
Matrix: Water

QC1005235 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Method: EPA 524.2 Prep Method: METHOD						
MTBE	43.71	50.00	ug/L	87%		70-130
Method: EPA 8260B Prep Method: EPA 5030B						
1,1-Dichloroethene	43.82	50.00	ug/L	88%		70-135
Benzene	43.48	50.00	ug/L	87%		70-130
Trichloroethene	44.12	50.00	ug/L	88%		70-130
Toluene	42.49	50.00	ug/L	85%		70-130
Chlorobenzene	42.82	50.00	ug/L	86%		70-130
Surrogates						
Dibromofluoromethane	50.52	50.00	ug/L	101%		70-140
1,2-Dichloroethane-d4	46.40	50.00	ug/L	93%		70-140
Toluene-d8	50.74	50.00	ug/L	101%		70-140
Bromofluorobenzene	52.37	50.00	ug/L	105%		70-140

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample Duplicate **Lab ID:** QC1005236 **Batch:** 294552
Matrix: Water

QC1005236 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Method: EPA 524.2 Prep Method: METHOD								
MTBE	51.90	50.00	ug/L	104%		70-130	17	30
Method: EPA 8260B Prep Method: EPA 5030B								
1,1-Dichloroethene	50.09	50.00	ug/L	100%		70-135	13	30
Benzene	50.45	50.00	ug/L	101%		70-130	15	30
Trichloroethene	50.36	50.00	ug/L	101%		70-130	13	30
Toluene	48.61	50.00	ug/L	97%		70-130	13	30
Chlorobenzene	49.16	50.00	ug/L	98%		70-130	14	30
Surrogates								
Dibromofluoromethane	50.68	50.00	ug/L	101%		70-140		
1,2-Dichloroethane-d4	50.74	50.00	ug/L	101%		70-140		
Toluene-d8	49.46	50.00	ug/L	99%		70-140		
Bromofluorobenzene	49.69	50.00	ug/L	99%		70-140		

Type: Blank **Lab ID:** QC1006308 **Batch:** 294928
Matrix: Water **Method:** EPA 8260B **Prep Method:** EPA 5030B

QC1006308 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
2-Chloroethylvinylether	ND	b	ug/L	50	0.6	08/12/22	08/12/22
Acrolein	ND		ug/L	200	1.1	08/12/22	08/12/22
Acrylonitrile	ND		ug/L	10	0.1	08/12/22	08/12/22
Surrogates				**Limits**			
Dibromofluoromethane	101%		%REC	70-140	1.8	08/12/22	08/12/22
1,2-Dichloroethane-d4	96%		%REC	70-140	9.2	08/12/22	08/12/22
Toluene-d8	102%		%REC	70-140	3.9	08/12/22	08/12/22
Bromofluorobenzene	99%		%REC	70-140		08/12/22	08/12/22

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	**Lab ID:** QC1006309	**Batch:** 294928
Matrix: Water	**Method:** EPA 8260B	**Prep Method:** EPA 5030B

QC1006309 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1-Dichloroethene	48.50	50.00	ug/L	97%		70-135
Benzene	50.45	50.00	ug/L	101%		70-130
Trichloroethene	49.12	50.00	ug/L	98%		70-130
Toluene	48.23	50.00	ug/L	96%		70-130
Chlorobenzene	48.18	50.00	ug/L	96%		70-130
Surrogates						
Dibromofluoromethane	50.54	50.00	ug/L	101%		70-140
1,2-Dichloroethane-d4	50.70	50.00	ug/L	101%		70-140
Toluene-d8	50.12	50.00	ug/L	100%		70-140
Bromofluorobenzene	48.56	50.00	ug/L	97%		70-140

Type: Lab Control Sample Duplicate	**Lab ID:** QC1006310	**Batch:** 294928
Matrix: Water	**Method:** EPA 8260B	**Prep Method:** EPA 5030B

QC1006310 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
1,1-Dichloroethene	45.64	50.00	ug/L	91%		70-135	6	30
Benzene	46.56	50.00	ug/L	93%		70-130	8	30
Trichloroethene	45.85	50.00	ug/L	92%		70-130	7	30
Toluene	45.40	50.00	ug/L	91%		70-130	6	30
Chlorobenzene	45.29	50.00	ug/L	91%		70-130	6	30
Surrogates								
Dibromofluoromethane	50.30	50.00	ug/L	101%		70-140		
1,2-Dichloroethane-d4	46.27	50.00	ug/L	93%		70-140		
Toluene-d8	49.98	50.00	ug/L	100%		70-140		
Bromofluorobenzene	50.16	50.00	ug/L	100%		70-140		

Type: Sample Duplicate	**Lab ID:** QC1004571	**Batch:** 294343
Matrix (Source ID): Drinking Water (466729-011)	**Method:** SM 2150B	

QC1004571 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Odor	ND	ND	TON			20	1

Type: Blank	**Lab ID:** QC1004603	**Batch:** 294356
Matrix: Water	**Method:** SM 4500-CL-G	

QC1004603 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Chlorine, Total Residual	ND		mg/L	0.10	0.026	08/04/22 11:59	08/04/22 11:59

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	**Lab ID:** QC1004604	**Batch:** 294356
Matrix: Water	**Method:** SM 4500-CL-G	

QC1004604 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chlorine, Total Residual	1.045	1.000	mg/L	105%		80-120

Type: Sample Duplicate	**Lab ID:** QC1004605	**Batch:** 294356
Matrix (Source ID): Water (466759-003)	**Method:** SM 4500-CL-G	

QC1004605 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Chlorine, Total Residual	ND	ND	mg/L			20	1

Type: Blank	**Lab ID:** QC1004689	**Batch:** 294384
Matrix: Water	**Method:** SM 4500-CN-E	**Prep Method:** METHOD

QC1004689 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Cyanide	ND		mg/L	0.010	0.0034	08/04/22	08/04/22

Type: Lab Control Sample	**Lab ID:** QC1004690	**Batch:** 294384
Matrix: Water	**Method:** SM 4500-CN-E	**Prep Method:** METHOD

QC1004690 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Cyanide	0.1920	0.2000	mg/L	96%		73-123

Type: Matrix Spike	**Lab ID:** QC1004691	**Batch:** 294384
Matrix (Source ID): Water (466215-001)	**Method:** SM 4500-CN-E	**Prep Method:** METHOD

QC1004691 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Cyanide	0.1920	ND	0.2000	mg/L	96%		56-129	1

Type: Matrix Spike Duplicate	**Lab ID:** QC1004692	**Batch:** 294384
Matrix (Source ID): Water (466215-001)	**Method:** SM 4500-CN-E	**Prep Method:** METHOD

QC1004692 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Cyanide	0.1920	ND	0.2000	mg/L	96%		56-129	0	37	1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank **Lab ID:** QC1006471 **Batch:** 294990
Matrix: Drinking Water **Method:** SM 4500-F-C

QC1006471 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Fluoride	ND		mg/L	0.10	0.0059	08/12/22	08/12/22

Type: Lab Control Sample **Lab ID:** QC1006472 **Batch:** 294990
Matrix: Drinking Water **Method:** SM 4500-F-C

QC1006472 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Fluoride	1.010	1.000	mg/L	101%		80-120

Type: Matrix Spike **Lab ID:** QC1006473 **Batch:** 294990
Matrix (Source ID): Drinking Water (467206-002) **Method:** SM 4500-F-C

QC1006473 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Fluoride	1.030	ND	1.000	mg/L	100%		75-125	1

Type: Matrix Spike Duplicate **Lab ID:** QC1006474 **Batch:** 294990
Matrix (Source ID): Drinking Water (467206-002) **Method:** SM 4500-F-C

QC1006474 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Fluoride	1.040	ND	1.000	mg/L	101%		75-125	1	20	1

Type: Sample Duplicate **Lab ID:** QC1004663 **Batch:** 294375
Matrix (Source ID): Water (466677-003) **Method:** SM 4500-H+ B

QC1004663 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
pH	10.50	10.49	SU		0	20	1
Temperature	24.70	24.60	deg C		0	20	1

Type: Blank **Lab ID:** QC1005603 **Batch:** 294678
Matrix: Water **Method:** SM 4500-NH3-G

QC1005603 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Ammonia-N	ND		mg/L	0.10	0.045	08/09/22	08/09/22

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample **Lab ID:** QC1005604 **Batch:** 294678
Matrix: Water **Method:** SM 4500-NH3-G

QC1005604 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Ammonia-N	2.429	2.500	mg/L	97%		80-120

Type: Matrix Spike **Lab ID:** QC1005605 **Batch:** 294678
Matrix (Source ID): Water (466836-001) **Method:** SM 4500-NH3-G

QC1005605 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Ammonia-N	2.527	0.1060	2.500	mg/L	97%		80-120	1

Type: Matrix Spike Duplicate **Lab ID:** QC1005606 **Batch:** 294678
Matrix (Source ID): Water (466836-001) **Method:** SM 4500-NH3-G

QC1005606 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Ammonia-N	2.554	0.1060	2.500	mg/L	98%		80-120	1	20	1

Type: Blank **Lab ID:** QC1005763 **Batch:** 294755
Matrix: Water **Method:** SM 4500-NH3-G

QC1005763 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Total Kjeldahl	ND		mg/L	0.20	0.062	08/10/22	08/10/22

Type: Lab Control Sample **Lab ID:** QC1005764 **Batch:** 294755
Matrix: Water **Method:** SM 4500-NH3-G

QC1005764 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Total Kjeldahl	2.691	2.500	mg/L	108%		80-120

Type: Matrix Spike **Lab ID:** QC1005765 **Batch:** 294755
Matrix (Source ID): Water (466764-001) **Method:** SM 4500-NH3-G

QC1005765 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Total Kjeldahl	13.04	0.6826	12.50	mg/L	99%		80-120	2.5

ENTHALPY ANALYTICAL

Batch QC

Type: Matrix Spike Duplicate **Lab ID:** QC1005766 **Batch:** 294755
Matrix (Source ID): Water (466764-001) **Method:** SM 4500-NH3-G

QC1005766 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Total Kjeldahl	13.38	0.6826	12.50	mg/L	102%		80-120	3	20	2.5

Type: Blank **Lab ID:** QC1006289 **Batch:** 294923
Matrix: Water **Method:** SM 4500-P-B5-E

QC1006289 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Phosphorus	ND		mg/L	0.020	0.0054	08/11/22	08/11/22

Type: Lab Control Sample **Lab ID:** QC1006290 **Batch:** 294923
Matrix: Water **Method:** SM 4500-P-B5-E

QC1006290 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phosphorus	0.3970	0.4000	mg/L	99%		80-120

Type: Matrix Spike **Lab ID:** QC1006291 **Batch:** 294923
Matrix (Source ID): Water (466831-001) **Method:** SM 4500-P-B5-E

QC1006291 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phosphorus	1.108	0.1170	1.000	mg/L	99%		75-125	2.5

Type: Matrix Spike Duplicate **Lab ID:** QC1006292 **Batch:** 294923
Matrix (Source ID): Water (466831-001) **Method:** SM 4500-P-B5-E

QC1006292 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phosphorus	1.105	0.1170	1.000	mg/L	99%		75-125	0	20	2.5

Type: Blank **Lab ID:** QC1005003 **Batch:** 294485
Matrix: Water **Method:** SM 5310B

QC1005003 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Organic Carbon	ND		mg/L	1.0	0.23	08/05/22	08/05/22

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	Lab ID: QC1005004	Batch: 294485
Matrix: Water	Method: SM 5310B	

QC1005004 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	9.679	10.00	mg/L	97%		80-120

Type: Matrix Spike	Lab ID: QC1005005	Batch: 294485
Matrix (Source ID): Water (466744-005)	Method: SM 5310B	

QC1005005 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Organic Carbon	43.74	ND	40.00	mg/L	109%		80-120	4

Type: Matrix Spike Duplicate	Lab ID: QC1005006	Batch: 294485
Matrix (Source ID): Water (466744-005)	Method: SM 5310B	

QC1005006 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	46.40	ND	40.00	mg/L	116%		80-120	6	20	4

Type: Sample Duplicate	Lab ID: QC1004570	Batch: 294342
Matrix (Source ID): Drinking Water (466729-011)	Method: SM2120B	

QC1004570 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Color	ND	ND	ColorUnits			20	1

Type: Sample Duplicate	Lab ID: QC1004569	Batch: 294341
Matrix (Source ID): Drinking Water (466729-011)	Method: SM2130B	

QC1004569 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Turbidity	0.07900	ND	NTU	J	16	20	1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1006146	Batch: 294876
Matrix: Water	Method: SM2320B	Prep Method: METHOD

QC1006146 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Bicarbonate	ND		mg/L	5.0		08/11/22	08/11/22
Carbonate	ND		mg/L	5.0		08/11/22	08/11/22
Hydroxide	ND		mg/L	5.0		08/11/22	08/11/22
Alkalinity, Total as CaCO3	ND		mg/L	5.0		08/11/22	08/11/22

Type: Lab Control Sample	Lab ID: QC1006147	Batch: 294876
Matrix: Water	Method: SM2320B	Prep Method: METHOD

QC1006147 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Alkalinity, Total as CaCO3	969.8	1000	mg/L	97%		90-110

Type: Sample Duplicate	Lab ID: QC1006148	Batch: 294876
Matrix (Source ID): Water (466744-002)	Method: SM2320B	Prep Method: METHOD

QC1006148 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Bicarbonate	282.0	279.1	mg/L		1	20	2.5
Carbonate	ND	ND	mg/L			20	2.5
Hydroxide	ND	ND	mg/L			20	2.5
Alkalinity, Total as CaCO3	231.1	228.8	mg/L		1	20	2.5

Type: Blank	Lab ID: QC1005589	Batch: 294681
Matrix: Water	Method: SM2540C	Prep Method: METHOD

QC1005589 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Dissolved Solids	ND		mg/L	10		08/09/22	08/10/22

Type: Lab Control Sample	Lab ID: QC1005590	Batch: 294681
Matrix: Water	Method: SM2540C	Prep Method: METHOD

QC1005590 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Dissolved Solids	348.0	342.0	mg/L	102%		90-110

Type: Sample Duplicate	Lab ID: QC1005591	Batch: 294681
Matrix (Source ID): Water (466783-001)	Method: SM2540C	Prep Method: METHOD

QC1005591 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Dissolved Solids	2,160	2140	mg/L		1	5	20

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1005689	Batch: 294722
Matrix: Water	Method: SM2540D	Prep Method: METHOD

QC1005689 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Suspended Solids	ND		mg/L	0.5		08/05/22	08/05/22

Type: Sample Duplicate	Lab ID: QC1005690	Batch: 294722
Matrix (Source ID): Water (466495-003)	Method: SM2540D	Prep Method: METHOD

QC1005690 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Suspended Solids	602.0	596.0	mg/L		1	5	20

Type: Blank	Lab ID: QC1004361	Batch: 294277
Matrix: Water	Method: SM5210B	Prep Method: METHOD

QC1004361 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Biochemical Oxygen Demand	ND		mg/L	3.0		08/03/22 15:54	08/08/22 15:54

Type: Lab Control Sample	Lab ID: QC1004362	Batch: 294277
Matrix: Water	Method: SM5210B	Prep Method: METHOD

QC1004362 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Biochemical Oxygen Demand	205.0	198.0	mg/L	104%		84.6-115.4

Type: Blank	Lab ID: QC1006255	Batch: 294916
Matrix: Water	Method: SM5540C	

QC1006255 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Surfactants (MBAS)	ND		mg/L	0.040	0.029	08/05/22 09:20	08/05/22 18:07

Type: Lab Control Sample	Lab ID: QC1006256	Batch: 294916
Matrix: Water	Method: SM5540C	

QC1006256 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Surfactants (MBAS)	0.9850	1.000	mg/L	99%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1006257**	**Batch:**	**294916**
Matrix (Source ID):	**Water (466808-001)**	**Method:**	**SM5540C**		

QC1006257 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Surfactants (MBAS)	0.9300	ND	1.000	mg/L	93%		80-120	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1006258**	**Batch:**	**294916**
Matrix (Source ID):	**Water (466808-001)**	**Method:**	**SM5540C**		

QC1006258 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Surfactants (MBAS)	0.9070	ND	1.000	mg/L	91%		80-120	3	20	1

* Value is outside QC limits
E Response exceeds instrument's linear range
J Estimated value
ND Not Detected
NM Not Meaningful
b See narrative

Laboratory Job Number 466759

Subcontracted Products

Eurofins Southwest

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-105745-1
Client Project/Site: 466759

For:
Enthalpy Analytical LLC
931 W. Barkley Ave
Orange, California 92868

Attn: Ranjit Clarke

Authorized for release by:
8/16/2022 8:35:13 AM
Sheila Luu, Project Mgmt. Assistant
Sheila.Luu@et.eurofinsus.com

Designee for

Xuan Dang, Project Manager I
(714)895-5494
Xuan.Dang@et.eurofinsus.com

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
QC Sample Results 7
QC Association Summary 8
Lab Chronicle 9
Certification Summary 10
Method Summary 11
Sample Summary 12
Chain of Custody 13
Receipt Checklists 14

Definitions/Glossary

Client: Enthalpy Analytical LLC
Project/Site: 466759

Job ID: 570-105745-1

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

Case Narrative

Client: Enthalpy Analytical LLC
Project/Site: 466759

Job ID: 570-105745-1

Job ID: 570-105745-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-105745-1

Comments
No additional comments.

Receipt
The samples were received on 8/8/2022 5:41 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.9º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

Detection Summary

Client: Enthalpy Analytical LLC
Project/Site: 466759

Job ID: 570-105745-1

Client Sample ID: SMBRP-12 — Lab Sample ID: 570-105745-1

No Detections.

Client Sample ID: MCWP-MW04D — Lab Sample ID: 570-105745-2

No Detections.

Client Sample ID: MCWP-MW09 — Lab Sample ID: 570-105745-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Enthalpy Analytical LLC
Project/Site: 466759

Job ID: 570-105745-1

General Chemistry

Client Sample ID: SMBRP-12
Date Collected: 08/03/22 12:15
Date Received: 08/08/22 17:41

Lab Sample ID: 570-105745-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	ND		1.20	0.614	mg/L		08/12/22 12:04	08/12/22 12:04	1

Client Sample ID: MCWP-MW04D
Date Collected: 08/03/22 10:40
Date Received: 08/08/22 17:41

Lab Sample ID: 570-105745-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	ND		1.20	0.613	mg/L		08/12/22 12:04	08/12/22 12:04	1

Client Sample ID: MCWP-MW09
Date Collected: 08/03/22 12:40
Date Received: 08/08/22 17:41

Lab Sample ID: 570-105745-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	ND		1.21	0.619	mg/L		08/12/22 12:04	08/12/22 12:04	1

Client: Enthalpy Analytical LLC
Project/Site: 466759

Job ID: 570-105745-1

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 570-256391/1-A
Matrix: Water
Analysis Batch: 256520

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 256391

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	ND		1.00	0.510	mg/L		08/12/22 12:04	08/12/22 12:04	1

Lab Sample ID: LCS 570-256391/2-A
Matrix: Water
Analysis Batch: 256520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 256391

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
HEM: Oil and Grease			40.0	37.30		mg/L		93	78 - 114		

Lab Sample ID: LCSD 570-256391/3-A
Matrix: Water
Analysis Batch: 256520

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 256391

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HEM: Oil and Grease			40.0	38.40		mg/L		96	78 - 114	3	18

QC Association Summary

Client: Enthalpy Analytical LLC
Project/Site: 466759

Job ID: 570-105745-1

General Chemistry

Prep Batch: 256391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-105745-1	SMBRP-12	Total/NA	Water	1664A	
570-105745-2	MCWP-MW04D	Total/NA	Water	1664A	
570-105745-3	MCWP-MW09	Total/NA	Water	1664A	
MB 570-256391/1-A	Method Blank	Total/NA	Water	1664A	
LCS 570-256391/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 570-256391/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	

Analysis Batch: 256520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-105745-1	SMBRP-12	Total/NA	Water	1664A	256391
570-105745-2	MCWP-MW04D	Total/NA	Water	1664A	256391
570-105745-3	MCWP-MW09	Total/NA	Water	1664A	256391
MB 570-256391/1-A	Method Blank	Total/NA	Water	1664A	256391
LCS 570-256391/2-A	Lab Control Sample	Total/NA	Water	1664A	256391
LCSD 570-256391/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	256391

Lab Chronicle

Client: Enthalpy Analytical LLC
Project/Site: 466759

Job ID: 570-105745-1

Client Sample ID: SMBRP-12

Date Collected: 08/03/22 12:15
Date Received: 08/08/22 17:41

Lab Sample ID: 570-105745-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			831 mL	1000 mL	256391	08/12/22 12:04	UWEZ	EET CAL 4
Total/NA	Analysis	1664A		1			256520	08/12/22 12:04	L6IE	EET CAL 4
	Instrument ID: NOEQUIP									

Client Sample ID: MCWP-MW04D

Date Collected: 08/03/22 10:40
Date Received: 08/08/22 17:41

Lab Sample ID: 570-105745-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			833 mL	1000 mL	256391	08/12/22 12:04	UWEZ	EET CAL 4
Total/NA	Analysis	1664A		1			256520	08/12/22 12:04	L6IE	EET CAL 4
	Instrument ID: NOEQUIP									

Client Sample ID: MCWP-MW09

Date Collected: 08/03/22 12:40
Date Received: 08/08/22 17:41

Lab Sample ID: 570-105745-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			825 mL	1000 mL	256391	08/12/22 12:04	UWEZ	EET CAL 4
Total/NA	Analysis	1664A		1			256520	08/12/22 12:04	L6IE	EET CAL 4
	Instrument ID: NOEQUIP									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Enthalpy Analytical LLC
Project/Site: 466759

Job ID: 570-105745-1

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23
Oregon	NELAP	4175	02-02-23

Method Summary

Client: Enthalpy Analytical LLC
Project/Site: 466759

Job ID: 570-105745-1

Method	Method Description	Protocol	Laboratory
1664A	HEM and SGT-HEM	1664A	EET CAL 4
1664A	HEM and SGT-HEM (Aqueous)	1664A	EET CAL 4

Protocol References:

1664A = EPA-821-98-002

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Enthalpy Analytical LLC
Project/Site: 466759

Job ID: 570-105745-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-105745-1	SMBRP-12	Water	08/03/22 12:15	08/08/22 17:41
570-105745-2	MCWP-MW04D	Water	08/03/22 10:40	08/08/22 17:41
570-105745-3	MCWP-MW09	Water	08/03/22 12:40	08/08/22 17:41

105745

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
Eurofins Southwest
2841 Dow Avenue
Suite 100
Tustin, CA 92780
ATTN: Xuan Dang
PO #: Required, to be sent via email

Enthalpy Order: EO-466759
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

Results Due: Standard TAT
Report Level: II
Report To: MDL
EDDs: .DBF erpimsenhanced

570-105745 Chain of Custody

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
SMBRP-12	03-AUG-2022 12.15	466759-001	1	Water	EPA 1664 Oil & Grease (Total) -OUT	
MCWP-MW04D	03-AUG-2022 10.40	466759-002	1	Water	EPA 1664 Oil & Grease (Total) -OUT	
MCWP-MW09	03-AUG-2022 12 40	466759-003	1	Water	EPA 1664 Oil & Grease (Total) -OUT	

Notes:	Relinquished By:	Received By:
	Date: 8/8/22 5:41pm	Date: 8/8/22 5.41 pm
	Date:	Date:
	Date:	Date: SC12 4 9 4 9

Login Sample Receipt Checklist

Client: Enthalpy Analytical LLC

Job Number: 570-105745-1

Login Number: 105745
List Number: 1
Creator: Escalante, Maria I

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Laboratory Job Number 466759

Subcontracted Products

Enthalpy - Wilmington

Enthalpy Analytical - Orange

931 W. Barkley Ave
Orange, CA 92868

Client Project: EO-466759
Samples Received: 08/05/22

Analytical Report
0822-723

EPA Method 1613B

2, 3, 7, 8 TCDD

Enthalpy Analytical, LLC – Ultratrace
Mark Hager
O: 910-876-6894 / F: 910-212-6886
mark.hager@enthalpy.com / www.enthalpy.com
2714 Exchange Drive, Wilmington, NC 28405

I certify that to the best of my knowledge all analytical data presented in this report:

- Have been checked for completeness
- Are accurate, error-free, and legible
- Have been conducted in accordance with approved protocol, and that all deviations and analytical problems are summarized in the appropriate narrative(s)

This analytical report was prepared in Portable Document Format (.PDF) and contains __19__ pages.

QA Review Performed by: Laura K. Boivin

Report Issued Date: 08/23/2022

ENTHALPY ANALYTICAL

Summary of Results

Enthalpy Analytical

Job No.: 0822-723-1 EPA Method 1613B Water

Enthalpy Analytical, Orange, CA Client Project: EO-466759

Summary

	Compound	CAS	SMBRP-12 pg/L	MCWP-MW04D pg/L	MCWP-MW09 pg/L
TCDD	2378-TCDD (S)	1746-01-6	ND U	ND U	ND U

Detailed Results

Enthalpy Analytical

Job No.: 0822-723-1 EPA Method 1613B Water

Enthalpy Analytical, Orange, CA Client Project: EO-466759

Enthalpy ID	0822-723-001-1	Prep Batch	EU13812	Sample Vol (mL)	1049.8
Sample Name	SMBRP-12	Prep Date	2022-08-08 10:30	Extract Vol (mL)	0.02
Matrix	Aqueous	Analysis Date	2022-08-16 19:14	Split Factor	N/A
Sampling Date	20220803 00:00	Analyst	bahager	Method Code	WM-016
Received Date	2022-08-05 10:05	Instrument	Galadriel	Sample Type	Sample

	Compound	CAS	Extract Concentration pg/uL	Sample Concentration pg/L	Formatted Result pg/L	LOQ pg/L	EDL pg/L	Recovery Limits	Recovery	Flags
TCDD	2378-TCDD (S)	1746-01-6	ND	ND	ND	4.76	1.39			U
ES	13C-2378-TCDD (ES)	76523-40-5	56.95	1085			3.96	25-175%	57.0%	
CS	37Cl-2378-TCDD (CS)		45.36	864			0.650	39-154%	113.4%	
AS	13C-1368-TCDD (AS)		76.25	1453			3.80	20-150%	76.3%	

Enthalpy Analytical

Job No.: 0822-723-1 EPA Method 1613B Water

Enthalpy Analytical, Orange, CA Client Project: EO-466759

Enthalpy ID	0822-723-002-1	Prep Batch	EU13812	Sample Vol (mL)	1023.8
Sample Name	MCWP-MW04D	Prep Date	2022-08-08 10:30	Extract Vol (mL)	0.02
Matrix	Aqueous	Analysis Date	2022-08-16 20:05	Split Factor	N/A
Sampling Date	20220803 00:00	Analyst	bahager	Method Code	WM-016
Received Date	2022-08-05 10:05	Instrument	Galadriel	Sample Type	Sample

	Compound	CAS	Extract Concentration pg/uL	Sample Concentration pg/L	Formatted Result pg/L	LOQ pg/L	EDL pg/L	Recovery Limits	Recovery	Flags
TCDD	2378-TCDD (S)	1746-01-6	ND	ND	ND	4.88	1.26			U
ES	13C-2378-TCDD (ES)	76523-40-5	62.65	1224			4.76	25-175%	62.6%	
CS	37Cl-2378-TCDD (CS)		46.02	899			0.852	39-154%	115.0%	
AS	13C-1368-TCDD (AS)		79.18	1547			4.57	20-150%	79.2%	

Enthalpy Analytical

Job No.: 0822-723-1 EPA Method 1613B Water

Enthalpy Analytical, Orange, CA Client Project: EO-466759

Enthalpy ID	0822-723-003-1	Prep Batch	EU13812	Sample Vol (mL)	1010.3
Sample Name	MCWP-MW09	Prep Date	2022-08-08 10:30	Extract Vol (mL)	0.02
Matrix	Aqueous	Analysis Date	2022-08-16 20:56	Split Factor	N/A
Sampling Date	20220803 00:00	Analyst	bahager	Method Code	WM-016
Received Date	2022-08-05 10:05	Instrument	Galadriel	Sample Type	Sample

	Compound	CAS	Extract Concentration pg/uL	Sample Concentration pg/L	Formatted Result pg/L	LOQ pg/L	EDL pg/L	Recovery Limits	Recovery	Flags
TCDD	2378-TCDD (S)	1746-01-6	ND	ND	ND	4.95	1.32			U
ES	13C-2378-TCDD (ES)	76523-40-5	56.54	1119			3.79	25-175%	56.5%	
CS	37Cl-2378-TCDD (CS)		43.57	862			0.549	39-154%	108.9%	
AS	13C-1368-TCDD (AS)		80.09	1586			3.64	20-150%	80.1%	

QC Data

Enthalpy Analytical

Job No.: 0822-723-1 EPA Method 1613B Water

Enthalpy Analytical, Orange, CA Client Project: EO-466759

Enthalpy ID	MB-13812-DF	Prep Batch	EU13812	Sample Vol (mL)	1000
Sample Name	MB-13812-DF	Prep Date	2022-08-08 10:30	Extract Vol (mL)	0.02
Matrix	aqueous	Analysis Date	2022-08-16 18:23	Split Factor	N/A
Sampling Date		Analyst	bahager	Method Code	WM-016
Received Date		Instrument	Galadriel	Sample Type	Blank

	Compound	CAS	Extract Concentration pg/uL	Sample Concentration pg/L	Formatted Result pg/L	LOQ pg/L	EDL pg/L	Recovery Limits	Recovery	Flags
TCDD	2378-TCDD (S)	1746-01-6	ND	ND	ND	5.00	1.26			U
ES	13C-2378-TCDD (ES)	76523-40-5	68.15	1363			4.47	25-175%	68.2%	
CS	37Cl-2378-TCDD (CS)		44.80	896			0.549	39-154%	112.0%	
AS	13C-1368-TCDD (AS)		76.96	1539			4.29	20-150%	77.0%	

Enthalpy Analytical

Job No.: 0822-723-1 EPA Method 1613B Water

Enthalpy Analytical, Orange, CA Client Project: EO-466759

Enthalpy ID	OPR-13812-DF	Prep Batch	EU13812	Sample Vol (mL)	1000
Sample Name	OPR-13812-DF	Prep Date	2022-08-08 10:30	Extract Vol (mL)	0.02
Matrix	aqueous	Analysis Date	2022-08-16 16:42	Split Factor	N/A
Sampling Date		Analyst	bahager	Method Code	WM-016
Received Date		Instrument	Galadriel	Sample Type	Control

	Compound	CAS	Extract Concentration pg/uL	Sample Concentration pg/L	Formatted Result pg/L	LOQ pg/L	EDL pg/L	Recovery Limits	Recovery	Flags
TCDD	2378-TCDD (S)	1746-01-6	10.23	205	205	5.00	1.36	67-158%	102.3%	
ES	13C-2378-TCDD (ES)	76523-40-5	69.22	1384			5.46	25-175%	69.2%	
CS	37Cl-2378-TCDD (CS)		44.85	897			1.36	39-154%	112.1%	
AS	13C-1368-TCDD (AS)		76.40	1528			5.24	20-150%	76.4%	

Narrative Summary

Enthalpy Analytical Narrative Summary

Company	Enthalpy Analytical - Orange
Job#	0822-723 EPA Method 1613B
Client Project #	EO-466759

Custody	Megan Holden of Enthalpy Analytical Wilmington received the samples (via FedEx) on ice on August 5, 2022 at 2.4°C in good condition. Prior to, during, and after analysis, the samples were stored in the laboratory with access only by authorized personnel of Enthalpy Analytical, LLC.
Analysis	The sample was analyzed by EPA Method 1613B for 2,3,7,8 TCDD using Agilent Technologies Model# 6890 High-Resolution GC/ Waters High-Resolution Mass-Spectrometer (HRGC/HRMS "Galadriel"). After sampling by the client, the laboratory spiked the samples with Extraction Standard (ES), then extracted by liquid-liquid extraction with methylene chloride. After solvent exchange, each extract was spiked with Alternate Standard (AS) and Clean Up Standard (CS). Cleanup procedures were performed on the extract. The final sample extract was transferred to an autosampler vial and spiked with 20 µL of Injection Standard (JS), prior to analysis.
Calibration	In the initial calibration, the analytes exhibited RSDs less than 20% and labeled standards exhibited RSDs of no more than 30%. The standard analytes, continuing calibration (concal) and Initial Calibration Verification (ICV) met the 20% criterion for native analytes.
QC Notes	The HRMS system displayed mass resolving power of at least 10,000 during the analysis. Labeled and sampling (surrogate) standard recovery values in the Ongoing Precision Recovery (OPR) and method blank were acceptable. GC resolution parameters were met for TCDD. The sample was extracted within the 30-day from collection holding time and analyzed within the 45-day from extraction to analysis holding time required by the method.
Reporting Notes	Any deviations from the requirements of the reference method or TNI Standard have been stated above. The results presented in this report are representative of the samples as provided to the laboratory. Enthalpy Analytical, LLC in Wilmington NC is accredited by the Louisiana Department of Environmental Quality to the 2009 TNI Standard under certificate number 05075.

General Reporting Notes – Data Qualifiers

The following are general reporting notes that are applicable to all Enthalpy Analytical, LLC - Wilmington, NC data reports, unless specifically noted otherwise.

General Data Qualifiers

- B – The analyte was found in the method blank, at a concentration that was at least 10% of the amount in the sample.
- Cxx – Two or more congeners co-elute. In EDDs, C denotes the lowest IUPAC congener in a co-elution group and additional co-eluters for the group ('xx') are shown with the number of the lowest IUPAC co-eluter.
- E – The reported concentration exceeds the calibration range (upper point of the calibration curve). For HRMS data, this condition does not imply additional measurement uncertainty. For LC-MS/MS data, these values should be considered as having measurement uncertainty higher than values within the calibration range.
- EDL – Estimated Detection Level: The EDL is unique to isotope dilution methods and reflects the conditions of analysis at the time of analysis, including the equipment used. Where the MDL is a static value, the EDL is a dynamic value.
- EMPC – Estimated Maximum Possible Concentration: EMPC is specific to Dioxin/Furan tests to indicate the determined ion-abundance ratio was outside the allowed theoretical range (usually due to being near the detection limit, although it can very rarely be caused by a co-eluting interference). The EMPC concentration is adjusted to reflect the value at the theoretical ion-abundance ratio.
- IR – The ion ratio between the primary and secondary ions was observed to be outside the method criteria. The analyte concentration may be inaccurate due to interference.
- J – The analyte has a concentration below the minimum calibration level (LOQ value) but greater than the LOD. These values should be considered as having measurement uncertainty higher than values within the calibration range
- L - Indicates that an analyte has a concentration below the Minimum Detection Limit (MDL). The reported concentration is not recommended for regulatory use as the analyte signal may have a signal-to-noise ratio less than the criteria deemed necessary to be considered a detected analyte.
- LOD – Limit of Detection: For reports conforming to the DOD ELAP QSM, this is the QSM-defined LOD. For reports conforming to TNI requirements (but not DOD ELAP QSM requirements), this value is the minimum detection limit (MDL). The LOD is adjusted for sample weight or volume.
- LOQ – Limit of Quantitation: For reports conforming to the DOD ELAP QSM, this is the QSM-defined LOQ. For reports conforming to TNI requirements (but not DOD ELAP QSM requirements), this value is the reporting limit (RL). The LOQ is adjusted for sample weight or volume.

- <LOD() – Analyte was not found at a concentration high enough to be reported as detected. It is reported as less than the LOD, and the LOD is given in the parentheses.
- <LOQ() – Analyte was not found at a concentration high enough to be reported as above the QSM-defined LOQ or TNI defined Reporting Limit. It is reported as less than the LOQ, and the LOQ is given in the parentheses.
- ND – Indicates a non-detect.
- NR – Indicates a value that is not reportable due to issues observed in sample preparation or analysis.
- PR – The associated congener(s) is(are) poorly resolved.
- QI – Indicates the presence of a quantitative interference.
- RL – Reporting Limit. Lowest reportable value. The level is higher than the MDL.
- SI – Denotes "Single Ion Mode" and is utilized for PCBs where the secondary ion trace has a significantly elevated noise level due to background PFK. Responses for such peaks are calculated using an EMPC approach based solely on the primary ion area(s) and may be considered estimates.
- U – The analyte was not detected.
- V / Q – The labeled standard recovery is not within method control limits.
- X – Indicates the result is from re-injection/repeat/second-column analysis.

Lab Identifiers/ Data Attributes

- AR – Indicates use of the archived portion of the sample extract.
- CU – Indicates a sample that required additional clean-up prior to HRMS injection/processing.
- D – Dilution Data. Result was obtained from the analysis of a dilution. The number that follows the "D" indicates the dilution factor.
- DE – Indicates a dilution performed with the addition of ES (Extraction Standard) solution.
- DUP – Designation for a duplicate sample.
- MS – Designation for a matrix spike.
- MSD – Designation for a matrix spike duplicate.
- R – Indicates a re-extraction of the sample.
- RJ – Indicates a reinjection of the sample extract.

- S – Indicates a sample split. The number that follows the "S" indicates the split factor.
- SAT – Indicates an analyte saturated the detector.

Sample Custody

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
Enthalpy - Wilmington
2714 Exchange Drive
Wilmington, NC 28405
ATTN: Bryan Vining
PO #: Required, to be sent via email

0822-723

Enthalpy Order: EO-466759
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

Results Due: Standard TAT
Report Level: II
Report To: MDL
EDDs: Quant Method PfasToBerkeley, EDD Filename TestWllmGeoTracker EDD

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
SMBRP-12	03-AUG-2022 12:15	466759-001	1	Water	EPA 1613 - 2,3,7,8-TCDD only	
MCWP-MW04D	03-AUG-2022 10:40	466759-002	1	Water	EPA 1613 - 2,3,7,8-TCDD only	
MCWP-MW09	03-AUG-2022 12:40	466759-003	1	Water	EPA 1613 - 2,3,7,8-TCDD only	

Notes:	Relinquished By:	Received By:
Fedex, 777577776 9463, cooler, ambient, no seals, good condition, 2.4°C TID MJL 8.5.22		FEDEX 7775 7776 9463
	Date: 8/4/22 1500	Date: 8/4/22
		[signature]
	Date:	Date: 8.5.22 10:05
	Date:	Date:

This Is The Last Page Of This Report.

Laboratory Job Number 466759

Subcontracted Products

SGS Forensic

SGS FORENSIC LABORATORIES

Final

ANALYSIS REPORT
ASBESTOS IN DRINKING WATER
Transmission Electron Microscopy*

Client:	Enthalpy Analytical LLC		
Contact:	Ranjit K Clarke	Client Number:	1137
Street:	2323 5th Street	Report Number:	T035528
City/state/zip:	Berkeley, CA 94710	Date/time Received:	8/5/22 1245

Site:		Date filtered:	8/5/22
Job ID/PO:	EO-466759, PO-032142	Analyst(s):	MAB
Date Collected:	8/3/22	Date Analyzed:	8/12/22
Hold time, hrs:	>48	Date Reported:	8/12/22
Filter type:	25mm MCE	Date Printed:	8/12/22
Pore size:	0.22 µm		

ANALYTICAL RESULTS

Sample Number	SMBRP-12	MCWP-MW04D	MCWP-MW09	
Description				
Lab Sample Number	20138755	20138756	20138757	
Volume Filtered, mL	1	30	30	
Filter Area, mm2	190	190	190	
Grid Opening Area, mm^2	0.0086	0.0086	0.0086	
Number of GO's Analyzed	10	4	4	
Area Analyzed, mm^2	0.086	0.0344	0.0344	
# Asbestos Fibers ≥10 µm	0	0	0	
Analytical Sensitivity, MFL	2.2	0.2	0.2	
Asbestos Concentration, ≥10um in length, MFL	**<2.2**	**<0.2**	**<0.2**	
Asbestos Type(s) Detected**	**ND**	**ND**	**ND**	
95% Upper Conf. Limit, MFL	8.1	0.7	0.7	
95% Lower Conf. Limit, MFL	0.0	0.0	0.0	

0

Mark Floyd, Analytical Microscopy Supervisor

* Method 100.2 (EPA/600/R-94/134). Results are reported in Millions of Fibers per Liter (MFL) over 10 µm in length.

** Asbestos types: CH=chrysotile; AM=amosite; CR=crocidolite; TR=tremolite; AC=actinolite; AN=anthophyllite; ND=none detected; NA-Not Analyzed; n/a=not applicable (i.e., divide by 0); OV=overloaded; BL=blank sample; PF=prepped not analyzed.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (Client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full with approval from SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. This report must not be used by the client to claim product endorsement by NVLAP or any U.S. government agency. SGSFL is unable to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of 30 days, according to all state and federal guidelines, unless otherwise specified.

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
SGS Forensic
3777 Depot Road
Suite 409
Hayward, CA 94545
ATTN:
PO #: Required, to be sent via email

Enthalpy Order: EO-466759
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

Results Due: Standard TAT
Report Level: II
Report To: MDL
EDDs:

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
SMBRP-12	03-AUG-2022 12:15	466759-001	1	Water	EPA 100.2 Asbestos	
MCWP-MW04D	03-AUG-2022 10:40	466759-002	1	Water	EPA 100.2 Asbestos	
MCWP-MW09	03-AUG-2022 12:40	466759-003	1	Water	EPA 100.2 Asbestos	

Notes:	Relinquished By:	Received By:
		GLS 557470 570
	Date: 8/4/22 1500	Date: 8/4/22
	Date:	Date:
	Date:	Date:

RECEIVED
AUG 05 2022
BY: Connie 12:45

Laboratory Job Number 466759

Subcontracted Products

Pace Analytical - Greensburg

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

September 26, 2022

Ms. Patricia Mata
Enthalpy Analytical
931 W. Barkley Avenue
Orange, CA 92868

RE: Project: 466759
Pace Project No.: 30512096

Dear Ms. Mata:

Enclosed are the analytical results for sample(s) received by the laboratory on August 05, 2022. 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,

Nikayla M. Yasurek
nikayla.yasurek@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Incoming Reports, Enthalpy Analytical
David Tripp, Enthalpy Analytical

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

CERTIFICATIONS

Project: 466759
Pace Project No.: 30512096

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
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 #: PA014572018-1
New Hampshire/TNI Certification #: 297617
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 #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
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
Wyoming Certification #: 8TMS-L

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SAMPLE SUMMARY

Project: 466759
Pace Project No.: 30512096

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30512096001	**SMBRP-12**	Water	08/03/22 12:15	08/05/22 14:20
30512096002	**MCWP-MW04D**	Water	08/03/22 10:40	08/05/22 14:20
30512096003	**MCWP-MW09**	Water	08/03/22 12:40	08/05/22 14:20

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SAMPLE ANALYTE COUNT

Project: 466759
Pace Project No.: 30512096

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30512096001	**SMBRP-12**	EPA 900.0	ERT	2	PASI-PA
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		ASTM D5811-95	JJY	1	PASI-PA
		EPA 906.0	JPM	1	PASI-PA
30512096002	**MCWP-MW04D**	EPA 900.0	ERT	2	PASI-PA
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		ASTM D5811-95	JJY	1	PASI-PA
		EPA 906.0	JPM	1	PASI-PA
30512096003	**MCWP-MW09**	EPA 900.0	ERT	2	PASI-PA
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		ASTM D5811-95	JJY	1	PASI-PA
		EPA 906.0	JPM	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 466759
Pace Project No.: 30512096

Sample: SMBRP-12 **Lab ID: 30512096001** Collected: 08/03/22 12:15 Received: 08/05/22 14:20 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • Added 7.5mL HNO3 to samples
• BP1N = 3/6 - 6/6 for each sample

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Gross Alpha	EPA 900.0	**-2.02 ± 4.80 (9.95) C:NA T:NA**	pCi/L	08/12/22 18:48	12587-46-1	
Gross Beta	EPA 900.0	**22.2 ± 5.74 (6.21) C:NA T:NA**	pCi/L	08/12/22 18:48	12587-47-2	
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.173 ± 0.408 (0.755) C:NA T:96%**	pCi/L	08/19/22 15:15	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.0508 ± 0.287 (0.658) C:77% T:93%**	pCi/L	08/25/22 14:39	15262-20-1	
		Pace Analytical Services - Greensburg				
Strontium-90	ASTM D5811-95	**1.42 ± 1.67 (3.03) C:103% T:NA**	pCi/L	08/16/22 19:13	10098-97-2	N2
		Pace Analytical Services - Greensburg				
Tritium	EPA 906.0	**5.14 ± 156 (277) C:NA T:NA**	pCi/L	09/03/22 01:52	10028-17-8	

Sample: MCWP-MW04D **Lab ID: 30512096002** Collected: 08/03/22 10:40 Received: 08/05/22 14:20 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • Added 7.5mL HNO3 to samples
• BP1N = 3/6 - 6/6 for each sample

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Gross Alpha	EPA 900.0	**3.88 ± 2.95 (4.93) C:NA T:NA**	pCi/L	08/12/22 18:48	12587-46-1	
Gross Beta	EPA 900.0	**1.50 ± 1.75 (3.13) C:NA T:NA**	pCi/L	08/12/22 18:48	12587-47-2	
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**-0.0570 ± 0.403 (0.855) C:NA T:93%**	pCi/L	08/19/22 15:15	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.706 ± 0.399 (0.727) C:74% T:93%**	pCi/L	08/25/22 14:39	15262-20-1	
		Pace Analytical Services - Greensburg				
Strontium-90	ASTM D5811-95	**-1.19 ± 1.44 (2.87) C:98% T:NA**	pCi/L	08/16/22 19:18	10098-97-2	N2
		Pace Analytical Services - Greensburg				
Tritium	EPA 906.0	**66.6 ± 160 (276) C:NA T:NA**	pCi/L	09/03/22 02:38	10028-17-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 466759
Pace Project No.: 30512096

Sample: MCWP-MW09 **Lab ID: 30512096003** Collected: 08/03/22 12:40 Received: 08/05/22 14:20 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • Added 7.5mL HNO3 to samples
• BP1N = 3/6 - 6/6 for each sample

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Gross Alpha	EPA 900.0	**11.3 ± 5.98 (8.93) C:NA T:NA**	pCi/L	08/12/22 18:49	12587-46-1	
Gross Beta	EPA 900.0	**9.47 ± 3.86 (5.70) C:NA T:NA**	pCi/L	08/12/22 18:49	12587-47-2	
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.201 ± 0.349 (0.623) C:NA T:94%**	pCi/L	08/19/22 15:15	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.315 ± 0.341 (0.710) C:78% T:91%**	pCi/L	08/25/22 14:39	15262-20-1	
		Pace Analytical Services - Greensburg				
Strontium-90	ASTM D5811-95	**0.730 ± 1.68 (3.13) C:93% T:NA**	pCi/L	08/16/22 19:18	10098-97-2	N2
		Pace Analytical Services - Greensburg				
Tritium	EPA 906.0	**66.4 ± 160 (276) C:NA T:NA**	pCi/L	09/03/22 03:25	10028-17-8	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: 466759
Pace Project No.: 30512096

QC Batch: 525970
QC Batch Method: EPA 906.0
Analysis Method: EPA 906.0
Analysis Description: 906.0 Tritium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30512096001, 30512096002, 30512096003

METHOD BLANK: 2551582 Matrix: Water
Associated Lab Samples: 30512096001, 30512096002, 30512096003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Tritium	5.15 ± 157 (278) C:NA T:NA	pCi/L	09/03/22 01:06	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: 466759
Pace Project No.: 30512096

QC Batch: 524828
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30512096001, 30512096002, 30512096003

METHOD BLANK: 2545469 Matrix: Water
Associated Lab Samples: 30512096001, 30512096002, 30512096003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.418 ± 0.289 (0.545) C:77% T:96%	pCi/L	08/25/22 14:35	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: 466759
Pace Project No.: 30512096

QC Batch: 524946
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: 30512096001, 30512096002, 30512096003

METHOD BLANK: 2545892 Matrix: Water
Associated Lab Samples: 30512096001, 30512096002, 30512096003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	-0.129 ± 0.639 (1.87) C:NA T:NA	pCi/L	08/15/22 08:52	
Gross Beta	0.039 ± 0.779 (1.94) C:NA T:NA	pCi/L	08/15/22 08:52	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: 466759
Pace Project No.: 30512096

QC Batch: 524827
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30512096001, 30512096002, 30512096003

METHOD BLANK: 2545466 Matrix: Water
Associated Lab Samples: 30512096001, 30512096002, 30512096003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0427 ± 0.251 (0.560) C:NA T:99%	pCi/L	08/19/22 15:15	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: 466759
Pace Project No.: 30512096

QC Batch: 524516
QC Batch Method: ASTM D5811-95
Analysis Method: ASTM D5811-95
Analysis Description: ASTM D5811 Sr 89/90 Eichrom
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30512096001, 30512096002, 30512096003

METHOD BLANK: 2543555 Matrix: Water
Associated Lab Samples: 30512096001, 30512096002, 30512096003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Strontium-90	0.152 ± 0.425 (0.998) C:100% T:NA	pCi/L	08/17/22 09:06	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALIFIERS

Project: 466759
Pace Project No.: 30512096

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.

ANALYTE QUALIFIERS

N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 466759
Pace Project No.: 30512096

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30512096001	**SMBRP-12**	EPA 900.0	524946		
30512096002	**MCWP-MW04D**	EPA 900.0	524946		
30512096003	**MCWP-MW09**	EPA 900.0	524946		
30512096001	**SMBRP-12**	EPA 903.1	524827		
30512096002	**MCWP-MW04D**	EPA 903.1	524827		
30512096003	**MCWP-MW09**	EPA 903.1	524827		
30512096001	**SMBRP-12**	EPA 904.0	524828		
30512096002	**MCWP-MW04D**	EPA 904.0	524828		
30512096003	**MCWP-MW09**	EPA 904.0	524828		
30512096001	**SMBRP-12**	ASTM D5811-95	524516		
30512096002	**MCWP-MW04D**	ASTM D5811-95	524516		
30512096003	**MCWP-MW09**	ASTM D5811-95	524516		
30512096001	**SMBRP-12**	EPA 906.0	525970		
30512096002	**MCWP-MW04D**	EPA 906.0	525970		
30512096003	**MCWP-MW09**	EPA 906.0	525970		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
Pace Analytical - Greensburg
1638 Roseytown Rd.
Suite 2, 3, 4
Greensburg, PA 15601
ATTN: Karen Smetanka
PO #: Required, to be sent via email

Enthalpy Order: EO-466759
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

Results Due: Standard TAT
Report Level: II
Report To: MDL
EDDs:

WO# : 30512096
30512096

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
SMBRP-12	03-AUG-2022 12:15	466759-001	1	Water	EPA 900.0 Gross Alpha and Beta	001
			1	Water	EPA 903.1 Radium-226	
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	
			1	Water	ASTM D5174-97 Uranium	
MCWP-MW04D	03-AUG-2022 10:40	466759-002	1	Water	EPA 900.0 Gross Alpha and Beta	002
			1	Water	EPA 903.1 Radium-226	
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	
			1	Water	ASTM D5174-97 Uranium	
MCWP-MW09	03-AUG-2022 12:40	466759-003	1	Water	EPA 900.0 Gross Alpha and Beta	003
			1	Water	EPA 903.1 Radium-226	
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	
			1	Water	ASTM D5174-97 Uranium	

Notes:	Relinquished By:	Received By:
		FedEx 7775 7716 4899
	Date: 8/4/22	Date: 8/4/22
	Date:	Date: 8-5-22 1430
	Date:	Date:

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Enthalpy Project #

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

Label PS
LIMS Login

Tracking #: 7775 7716 4899

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# 1000421 Date and Initials of person examining contents: PS 8/7/22

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC:	✓			5.
-Includes date/time/ID Matrix: WT				
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 sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16. Tritium / added ~~5.0~~ 7.5 mL HNO_3 to samples 001-003 BPIN=3/6 - 6/6 for each sample. PS 8/8/22
All containers meet method preservation requirements.		✓		Initial when completed: PS Date/time of preservation: 8/8/22 9:05 Lot # of added preservative: HNO_3 D122-0893
Headspace in VOA Vials (>6mm):			✓	17.
Trip Blank Present:		✓		18.
Trip Blank Custody Seals Present		✓		
Rad Samples Screened < 0.5 mrem/hr	✓			Initial when completed: PS Date: 8/7/22 Survey Meter SN: 1563

WO#: 30512096
Due Date: 08/26/22
PM: NHY
CLIENT: ENTHALPY

Client Notification/ Resolution:

Person Contacted: Date/Time: Contacted By:

Comments/ Resolution:

☐ **A check in this box indicates that additional information has been stored in ereports.**

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

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical®

Pace Greensburg Lab -Sample Container Count

Client

Site 466759

Profile Number 6364

Notes

Sample Line Item	Matrix	AG1H	AG1S	AG1T	AG2U	AG3S	AG3U	AG5U	AG5T	BG1U	BG2U	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	GCUB	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC	
1	WT									1		6																	
2	↓									1		6																	
3	↓									1		6																	
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

WO# : 30512096

PM: NMY Due Date: 08/26/22

CLIENT: ENTHALPY

Container Codes

Glass

GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unprserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosul
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	1L amber glass HCl	WGFU	4oz wide jar unpreserved
AG1T	1L amber glass Na Thiosulfate	BG2U	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserve
AG3S	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
AG3U	250mL amber glass unpreserved		

Plastic / Misc.

GCUB	1 Gallon Cubitainer
12GN	1/2 Gallon Cubitainer
SP5T	120mL Coliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unpreserved
BP3S	250mL plastic H2SO4
BP3N	250mL plastic HNO3
BP3U	250mL plastic unpreserved
BP3C	250ml plastic NAOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved

EZI	5g Encore
VOAK	Kit for Volatile Solid
I	Wipe/Swab
ZPLC	Ziploc Bag

WT	Water
SL	Solid
OL	Non-aqueous liquid
WP	Wipe

ANALYTICAL REPORT

August 26, 2022

Pace Analytical - Greensburg, PA

Sample Delivery Group:	L1527629
Samples Received:	08/20/2022
Project Number:	30512096
Description:	466759
Site:	001
Report To:	Nikayla Yasurek

Entire Report Reviewed By:

Donna Eidson
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

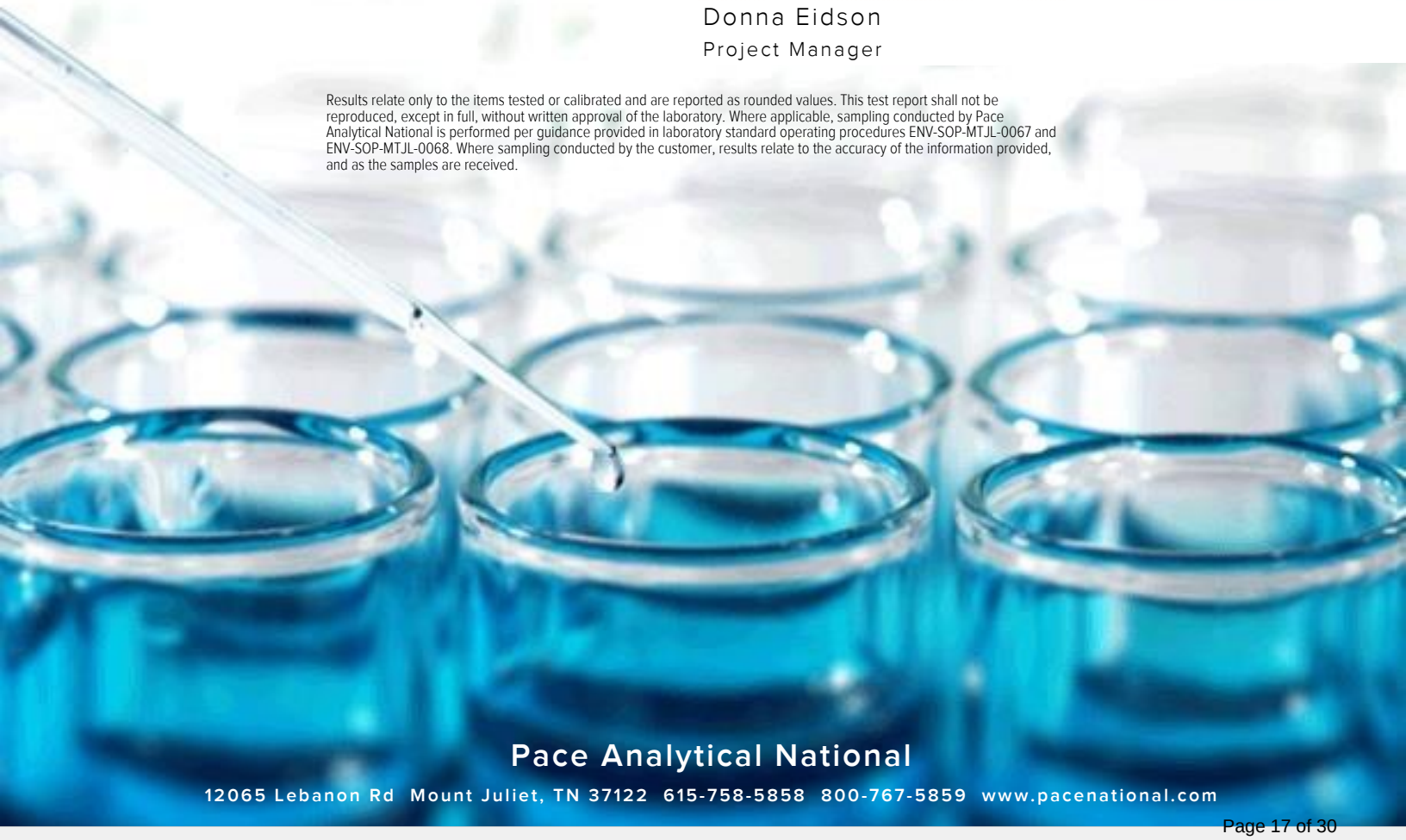


TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

SMBRP-12 L1527629-01 5

MCWP-MW04D L1527629-02 6

MCWP-MW09 L1527629-03 7

Qc: Quality Control Summary 8

Radiochemistry by Method D5174 8

Gl: Glossary of Terms 9

Al: Accreditations & Locations 10

Sc: Sample Chain of Custody 11

SMBRP-12 L1527629-01 Non-Potable Water

Collected by	Collected date/time	Received date/time
	08/03/22 12:15	08/20/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method D5174	WG1914421	1	08/22/22 11:13	08/24/22 19:15	RRE	Mt. Juliet, TN

MCWP-MW04D L1527629-02 Non-Potable Water

Collected by	Collected date/time	Received date/time
	08/03/22 10:40	08/20/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method D5174	WG1914421	1	08/22/22 11:13	08/24/22 19:17	RRE	Mt. Juliet, TN

MCWP-MW09 L1527629-03 Non-Potable Water

Collected by	Collected date/time	Received date/time
	08/03/22 12:40	08/20/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method D5174	WG1914421	1	08/22/22 11:13	08/24/22 19:20	RRE	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Donna Eidson
Project Manager

Radiochemistry by Method D5174

Analyte	Result ug/l	Qualifier	Uncertainty + / -	RDL ug/l	Analysis Date date / time	Batch
Uranium	1.26			1.00	08/24/2022 19:15	WG1914421

Radiochemistry by Method D5174

Analyte	Result	Qualifier	Uncertainty	RDL	Analysis Date	Batch
	ug/l		+ / -	ug/l	date / time	
Uranium	6.02			1.00	08/24/2022 19:17	WG1914421

Radiochemistry by Method D5174

Analyte	Result	Qualifier	Uncertainty	RDL	Analysis Date	Batch
	ug/l		+ / -	ug/l	date / time	
Uranium	2.29			1.00	08/24/2022 19:20	WG1914421

Method Blank (MB)

(MB) R3830595-1 08/24/22 18:59

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Uranium	U		1.00	1.00

L1527707-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1527707-01 08/24/22 19:42 • (DUP) R3830595-5 08/24/22 19:09

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Uranium	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3830595-2 08/24/22 19:02

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Uranium	30.0	28.4	94.7	80.0-120	

L1527621-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1527621-01 08/24/22 19:12 • (MS) R3830595-3 08/24/22 19:04 • (MSD) R3830595-4 08/24/22 19:07

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Uranium	20.0	ND	19.4	19.4	96.8	96.9	1	75.0-125			0.102	20

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
	The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

A109

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: CA
Cert. Needed: [X] Yes ☐ No
Owner Received Date: 8/5/2022
Results Requested By: 8/26/2022

Workorder: 30512096 **Workorder Name:** 466759

Report To	Subcontract To
Nikayla M. Yasurek Pace Analytical Pittsburgh 1638 Roseytown Road Suites 2,3,4 Greensburg, PA 15601 Phone (724)850-5600	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers HNO3	Requested Analysis: Total Uranium KPA	LAB USE ONLY
1	SMBRP-12	PS	8/3/2022 12:15	30512096001	Water	1	X	-01
2	MCWP-MW04D	PS	8/3/2022 10:40	30512096002	Water	1	X	-02
3	MCWP-MW09	PS	8/3/2022 12:40	30512096003	Water	1	X	-03
4								
5								

L1527629

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	8/4/22 [illegible]	[illegible]	8/5/22 0900
2				
3				

Comments

Cooler Temperature on Receipt °C	Custody Seal (Y) or N	Received on Ice (Y) or N	Samples Intact (Y) or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

22.7+0=22.7 RLAY

Sample Receipt Checklist

COC Seal Present/Intact:	Y N	If Applicable	
COC Signed/Accurate:	Y N	VOA Zero Headspace:	Y N
Bottles arrive intact:	Y N	Pres.Correct/Check:	Y N
Correct bottles used:	Y N		
Sufficient volume sent:	Y N		
RAD Screen <0.5 mR/hr:	Y N		

S344 4/02 5658

L1527629

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
Pace Analytical - Greensburg
1638 Roseytown Rd.
Suite 2, 3, 4
Greensburg, PA 15601
ATTN: Karen Smetanka
PO #: Required, to be sent via email

Enthalpy Order: EO-466759
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

Results Due: Standard TAT
Report Level: II
Report To: MDL
EDDs:

WO# : 30512096
30512096

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
SMBRP-12	03-AUG-2022 12:15	466759-001	1	Water	EPA 900.0 Gross Alpha and Beta	001
			1	Water	EPA 903.1 Radium-226	
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	
			1	Water	ASTM D5174-97 Uranium	
MCWP-MW04D	03-AUG-2022 10:40	466759-002	1	Water	EPA 900.0 Gross Alpha and Beta	002
			1	Water	EPA 903.1 Radium-226	
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	
			1	Water	ASTM D5174-97 Uranium	
MCWP-MW09	03-AUG-2022 12:40	466759-003	1	Water	EPA 900.0 Gross Alpha and Beta	003
			1	Water	EPA 903.1 Radium-226	
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	
			1	Water	ASTM D5174-97 Uranium	

Notes:	Relinquished By:	Received By:
		FED EX 7775 7716 4899
	Date: 8/4/22	Date: 8/5/22
	Date:	Date: 8-5-22 1930
	Date:	Date:

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Enthalpy

Project # L1527629

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

Label PS
LIMS Login

Tracking #: 7775 7716 4899

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# 1000421 Date and Initials of person examining contents: PS 8/7/22

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.
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: -Pace Containers Used:	✓	✓		10.
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16. Trkom / added ~~5.0mL~~ 7.5 mL HNO_3 to samples 001-003 BPIN=3/6 - 6/6 for each sample. PS 8/8/22
All containers meet method preservation requirements.		✓		Initial when completed: PS Date/time of preservation: 8/8/22 9:05 Lot # of added preservative: HNO_3 D122-0893
Headspace in VOA Vials (>6mm):			✓	17.
Trip Blank Present:		✓		18.
Trip Blank Custody Seals Present		✓		
Rad Samples Screened < 0.5 mrem/hr	✓			Initial when completed: PS Date: 8/7/22 Survey Meter SN: 1563

WO#: 30512096
PM: NMY Due Date: 08/26/22
CLIENT: ENTHALPY

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ A check in this box indicates that additional information has been stored in ereports.

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

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical®

Pace Greensburg Lab -Sample Container Count

Client

Site 466759

Profile Number 6364 | 45227629

Notes

Sample Line Item	Matrix	AG1H	AG1S	AG1T	AG2U	AG3S	AG3U	AG5U	AG5T	BG1U	BG2U	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	GCUB	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC	
1	WT									1		6																	
2	↓									1		6																	
3	↓									1		6																	
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

WO# : 30512096

PM: NMY Due Date: 08/26/22

CLIENT: ENTHALPY

Container Codes

Glass

GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unprserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosul
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	1L amber glass HCl	WGFU	4oz wide jar unpreserved
AG1T	1L amber glass Na Thiosulfate	BG2U	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserved
AG3S	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
AG3U	250mL amber glass unpreserved		

Plastic / Misc.

GCUB	1 Gallon Cubitainer
12GN	1/2 Gallon Cubitainer
SP5T	120mL Coliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unpreserved
BP3S	250mL plastic H2SO4
BP3N	250mL plastic HNO3
BP3U	250mL plastic unpreserved
BP3C	250ml plastic NAOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved

EZI	5g Encore
VOAK	Kit for Volatile Solid
I	Wipe/Swab
ZPLC	Ziploc Bag

WT	Water
SL	Solid
OL	Non-aqueous liquid
WP	Wipe

Laboratory Job Number 466759

Subcontracted Products

Weck Laboratories, Inc.

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders: 2H04102

Project: EO-466759

Attn: Ranjit Clarke

Client: Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Report Date: 10/03/2022

Received Date: 8/4/2022

Turnaround Time: Normal

Phones: (714) 771-9906

Fax: (714) 771-9933

P.O. #:

Billing Code:

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH #4047 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

Dear Ranjit Clarke,

Enclosed are the results of analyses for samples received 8/04/22 with the Chain-of-Custody document. The samples were received in good condition, at 4.3 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:

Rahul R. Nair
Project Manager

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
SMBRP-12	Client	2H04102-01	Water	08/03/22 12:15	
SMBRP-12 Travel Blank	Client	2H04102-02	Water	08/03/22 00:00	
MCWP-MW04D	Client	2H04102-03	Water	08/03/22 10:40	
MCWP-MW04D Travel Blank	Client	2H04102-04	Water	08/03/22 00:00	
MCWP-MW09	Client	2H04102-05	Water	08/03/22 12:40	
MCWP-MW09 Travel Blank	Client	2H04102-06	Water	08/03/22 00:00	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Sample Results

Sample: SMBRP-12
2H04102-01 (Water)

Sampled: 08/03/22 12:15 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS							
Method: EPA 625.1			**Instr:** GCMS06				
Batch ID: W2H0824 **Preparation:** EPA 625/L-L SF			**Prepared:** 08/10/22 08:33			**Analyst:** rmr	
1,2,4-Trichlorobenzene	ND	0.49	1.0	ug/l	1	08/16/22	
1,2-Dichlorobenzene	ND	0.46	1.0	ug/l	1	08/16/22	
1,2-Diphenylhydrazine/Azobenzene	ND	0.30	1.0	ug/l	1	08/16/22	
1,3-Dichlorobenzene	ND	0.42	1.0	ug/l	1	08/16/22	
1,4-Dichlorobenzene	ND	0.48	1.0	ug/l	1	08/16/22	
2,4,6-Trichlorophenol	ND	0.22	1.0	ug/l	1	08/16/22	
2,4-Dichlorophenol	ND	0.26	1.0	ug/l	1	08/16/22	
2,4-Dimethylphenol	ND	0.76	1.0	ug/l	1	08/16/22	
2,4-Dinitrophenol	ND	1.9	10	ug/l	1	08/16/22	
2,4-Dinitrotoluene	ND	0.46	1.0	ug/l	1	08/16/22	
2,6-Dinitrotoluene	ND	0.27	1.0	ug/l	1	08/16/22	
2-Chloronaphthalene	ND	0.45	1.0	ug/l	1	08/16/22	
2-Chlorophenol	ND	0.28	1.0	ug/l	1	08/16/22	
2-Methyl-4,6-dinitrophenol	ND	0.50	5.0	ug/l	1	08/16/22	
2-Nitrophenol	ND	0.26	1.0	ug/l	1	08/16/22	
3,3'-Dichlorobenzidine	ND	2.5	5.0	ug/l	1	08/16/22	
4-Bromophenyl phenyl ether	ND	0.36	1.0	ug/l	1	08/16/22	
4-Chloro-3-methylphenol	ND	0.23	1.0	ug/l	1	08/16/22	
4-Chlorophenyl phenyl ether	ND	0.41	1.0	ug/l	1	08/16/22	
4-Nitrophenol	ND	1.2	5.0	ug/l	1	08/16/22	
Acenaphthene	ND	0.38	1.0	ug/l	1	08/16/22	
Acenaphthylene	ND	0.35	1.0	ug/l	1	08/16/22	
Anthracene	ND	0.41	1.0	ug/l	1	08/16/22	
Benzidine	ND	3.2	10	ug/l	1	08/16/22	
Benzo (a) anthracene	ND	0.19	1.0	ug/l	1	08/16/22	
Benzo (a) pyrene	ND	0.39	1.0	ug/l	1	08/16/22	
Benzo (b) fluoranthene	ND	0.46	1.0	ug/l	1	08/16/22	
Benzo (g,h,i) perylene	ND	0.42	2.0	ug/l	1	08/16/22	
Benzo (k) fluoranthene	ND	0.22	1.0	ug/l	1	08/16/22	
Bis(2-chloroethoxy)methane	ND	0.25	1.0	ug/l	1	08/16/22	
Bis(2-chloroethyl)ether	ND	0.27	1.0	ug/l	1	08/16/22	
Bis(2-chloroisopropyl)ether	ND	0.38	1.0	ug/l	1	08/16/22	
Bis(2-ethylhexyl)phthalate	ND	2.3	5.0	ug/l	1	08/16/22	
Butyl benzyl phthalate	ND	0.49	1.0	ug/l	1	08/16/22	
Chrysene	ND	0.19	1.0	ug/l	1	08/16/22	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:42

Sample Results

(Continued)

Sample: SMBRP-12

Sampled: 08/03/22 12:15 by Client

2H04102-01 (Water)

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS (Continued)							
Method: EPA 625.1			**Instr:** GCMS06				
Batch ID: W2H0824 **Preparation:** EPA 625/L-L SF			**Prepared:** 08/10/22 08:33				**Analyst:** rmr
Dibenzo (a,h) anthracene	ND	0.15	2.0	ug/l	1	08/16/22	
Diethyl phthalate	ND	0.35	1.0	ug/l	1	08/16/22	
Dimethyl phthalate	ND	0.18	1.0	ug/l	1	08/16/22	
Di-n-butyl phthalate	ND	0.34	1.0	ug/l	1	08/16/22	
Di-n-octyl phthalate	ND	0.46	1.0	ug/l	1	08/16/22	
Fluoranthene	ND	0.35	1.0	ug/l	1	08/16/22	
Fluorene	ND	0.35	1.0	ug/l	1	08/16/22	
Hexachlorobenzene	ND	0.49	1.0	ug/l	1	08/16/22	
Hexachlorobutadiene	ND	0.47	1.0	ug/l	1	08/16/22	
Hexachlorocyclopentadiene	ND	0.31	5.0	ug/l	1	08/16/22	
Hexachloroethane	ND	0.50	1.0	ug/l	1	08/16/22	
Indeno (1,2,3-cd) pyrene	ND	0.25	2.0	ug/l	1	08/16/22	
Isophorone	ND	0.21	1.0	ug/l	1	08/16/22	
Naphthalene	ND	0.49	1.0	ug/l	1	08/16/22	
Nitrobenzene	ND	0.36	1.0	ug/l	1	08/16/22	
N-Nitrosodimethylamine	ND	0.50	1.0	ug/l	1	08/16/22	
N-Nitrosodi-n-propylamine	ND	0.26	1.0	ug/l	1	08/16/22	
N-Nitrosodiphenylamine	ND	0.19	1.0	ug/l	1	08/16/22	
Pentachlorophenol	ND	0.40	1.0	ug/l	1	08/16/22	
Phenanthrene	ND	0.32	1.0	ug/l	1	08/16/22	
Phenol	ND	0.81	1.0	ug/l	1	08/16/22	
Pyrene	ND	0.25	1.0	ug/l	1	08/16/22	
Surrogate(s)							
2,4,6-Tribromophenol	*78%*	*Conc: 29.5*	*25-120*			*08/16/22*	
2-Fluorobiphenyl	*80%*	*Conc: 15.2*	*22-120*			*08/16/22*	
2-Fluorophenol	*50%*	*Conc: 18.9*	*17-120*			*08/16/22*	
Nitrobenzene-d5	*88%*	*Conc: 16.8*	*47-120*			*08/16/22*	
Phenol-d5	*34%*	*Conc: 13.1*	*12-120*			*08/16/22*	
Terphenyl-d14	*96%*	*Conc: 18.3*	*44-129*			*08/16/22*	
Anions by IC, EPA Method 300.1							
Method: EPA 300.1			**Instr:** LC08_Channel2				
Batch ID: W2H1193 **Preparation:** _NONE (LC)			**Prepared:** 08/15/22 10:47				**Analyst:** JAN
Bromate	ND	140	500	ug/l	100	08/15/22	M-05
Chlorite	ND	220	1000	ug/l	100	08/15/22	M-05
Surrogate(s)							
Dichloroacetate	*104%*	*Conc: 519*	*90-115*			*08/15/22*	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:42

Sample Results

(Continued)

Sample: SMBRP-12
2H04102-01 (Water)

Sampled: 08/03/22 12:15 by Client

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Anions by IC, EPA Method 300.1 (Continued)							
Method: EPA 300.1			**Instr:** LC08_Channel2				
Batch ID: W2H1193 **Preparation:** _NONE (LC)			**Prepared:** 08/15/22 10:47			**Analyst:** JAN	
Carbamates and Urea Pesticides							
Method: EPA 531.2			**Instr:** LC11				
Batch ID: W2H1673 **Preparation:** _NONE (LC)			**Prepared:** 08/22/22 13:22			**Analyst:** PJS	
3-Hydroxycarbofuran	ND	0.82	2.0	ug/l	1	08/25/22	
Aldicarb	ND	0.58	2.0	ug/l	1	08/25/22	
Aldicarb sulfone	ND	0.73	2.0	ug/l	1	08/25/22	
Aldicarb sulfoxide	ND	1.0	2.0	ug/l	1	08/25/22	
Carbaryl	ND	1.0	2.0	ug/l	1	08/25/22	
Carbofuran	ND	1.0	2.0	ug/l	1	08/25/22	
Methiocarb	ND	1.0	2.0	ug/l	1	08/25/22	
Methomyl	ND	1.3	2.0	ug/l	1	08/25/22	
Oxamyl	ND	1.1	2.0	ug/l	1	08/25/22	
Propoxur (Baygon)	ND	1.4	2.0	ug/l	1	08/25/22	
Surrogate(s)							
BDMC	*89%*	*Conc: 8.91*	*70-130*			*08/25/22*	
Chlorinated Acids Herbicides by GC/ECD							
Method: EPA 515.4			**Instr:** GC08				
Batch ID: W2H1051 **Preparation:** EPA 515.4/Micro Ext. Drtz			**Prepared:** 08/12/22 08:22			**Analyst:** rjg	
2,4,5-T	ND	0.030	0.20	ug/l	1	08/17/22	
2,4,5-TP (Silvex)	ND	0.026	0.20	ug/l	1	08/17/22	
2,4-D	ND	0.14	0.40	ug/l	1	08/17/22	
2,4-DB	ND	0.19	2.0	ug/l	1	08/17/22	
3,5-Dichlorobenzoic acid	ND	0.12	1.0	ug/l	1	08/17/22	
Acifluorfen	ND	0.030	0.40	ug/l	1	08/17/22	
Bentazon	ND	0.23	2.0	ug/l	1	08/17/22	
Dalapon	ND	0.11	0.40	ug/l	1	08/17/22	
DCPA	ND	0.029	0.10	ug/l	1	08/17/22	
Dicamba	ND	0.049	0.60	ug/l	1	08/17/22	
Dichloroprop	ND	0.12	0.30	ug/l	1	08/17/22	
Dinoseb	ND	0.033	0.40	ug/l	1	08/17/22	
Pentachlorophenol	ND	0.046	0.20	ug/l	1	08/17/22	
Picloram	ND	0.050	0.60	ug/l	1	08/17/22	
Surrogate(s)							
2,4-DCAA	*91%*	*Conc: 9.15*	*70-130*			*08/17/22*	
Chlorinated Pesticides and/or PCBs by GC/ECD							

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:42

Sample Results

(Continued)

Sample: SMBRP-12
2H04102-01 (Water)

Sampled: 08/03/22 12:15 by Client

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)							
Method: EPA 508.1			**Instr:** GC08				
Batch ID: W2H1280 **Preparation:** EPA 508.1/SPE			**Prepared:** 08/16/22 08:08				**Analyst:** rjg
4,4´-DDD	ND	0.0060	0.020	ug/l	2	08/20/22	M-04
4,4´-DDE	ND	0.0037	0.020	ug/l	2	08/20/22	M-04
4,4´-DDT	ND	0.0060	0.020	ug/l	2	08/20/22	M-04
Aldrin	ND	0.0080	0.020	ug/l	2	08/20/22	M-04
alpha-BHC	ND	0.0038	0.020	ug/l	2	08/20/22	M-04
Aroclor 1016	ND	0.20	0.20	ug/l	2	08/20/22	M-04, R-01
Aroclor 1221	ND	0.20	0.20	ug/l	2	08/20/22	M-04, R-01
Aroclor 1232	ND	0.20	0.20	ug/l	2	08/20/22	M-04, R-01
Aroclor 1242	ND	0.20	0.20	ug/l	2	08/20/22	M-04, R-01
Aroclor 1248	ND	0.20	0.20	ug/l	2	08/20/22	M-04, R-01
Aroclor 1254	ND	0.20	0.20	ug/l	2	08/20/22	M-04, R-01
Aroclor 1260	ND	0.20	0.20	ug/l	2	08/20/22	M-04, R-01
beta-BHC	ND	0.0048	0.020	ug/l	2	08/20/22	M-04
Chlordane (tech)	ND	0.20	0.20	ug/l	2	08/20/22	M-04, R-01
Chlorothalonil	ND	0.0030	0.10	ug/l	2	08/20/22	M-04
delta-BHC	ND	0.0060	0.020	ug/l	2	08/20/22	M-04
Dieldrin	ND	0.0060	0.020	ug/l	2	08/20/22	M-04
Endosulfan I	ND	0.0060	0.020	ug/l	2	08/20/22	M-04
Endosulfan II	ND	0.0033	0.020	ug/l	2	08/20/22	M-04
Endosulfan sulfate	ND	0.020	0.020	ug/l	2	08/20/22	M-04, R-01
Endrin	ND	0.0027	0.020	ug/l	2	08/20/22	M-04
Endrin aldehyde	ND	0.0080	0.020	ug/l	2	08/20/22	M-04
gamma-BHC (Lindane)	ND	0.0060	0.020	ug/l	2	08/20/22	M-04
Heptachlor	ND	0.0035	0.020	ug/l	2	08/20/22	M-04
Heptachlor epoxide	ND	0.0038	0.020	ug/l	2	08/20/22	M-04
Hexachlorobenzene	ND	0.0080	0.10	ug/l	2	08/20/22	M-04
Hexachlorocyclopentadiene	ND	0.013	0.10	ug/l	2	08/20/22	M-04
Methoxychlor	ND	0.0060	0.020	ug/l	2	08/20/22	M-04
PCBs, Total	ND		1.0	ug/l	2	08/20/22	M-04
Propachlor	ND	0.040	0.10	ug/l	2	08/20/22	M-04
Toxaphene	ND	1.0	1.0	ug/l	2	08/20/22	M-04, R-01
Trifluralin	ND	0.0040	0.020	ug/l	2	08/20/22	M-04
Surrogate(s)							
4,4-Dibromobiphenyl	*107%*	*Conc: 0.103*	*70-130*			*08/20/22*	
Diquat and Paraquat by EPA 549.2							

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:42

Sample Results

(Continued)

Sample: SMBRP-12

Sampled: 08/03/22 12:15 by Client

2H04102-01 (Water)

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Diquat and Paraquat by EPA 549.2 (Continued)							
Method: EPA 549.2			**Instr:** LC10				
Batch ID: W2H0719 **Preparation:** EPA 549.2/SPE			**Prepared:** 08/09/22 06:52				**Analyst:** pjs
Diquat	ND	0.90	4.0	ug/l	1	08/25/22	
Paraquat	ND	1.2	4.0	ug/l	1	08/25/22	
Endothall By EPA 548.1							
Method: EPA 548.1			**Instr:** GCMS06				
Batch ID: W2H0594 **Preparation:** EPA 548.1/SPE			**Prepared:** 08/09/22 08:15				**Analyst:** rmr
Endothall	ND	11	40	ug/l	1	08/11/22	
Glyphosate by EPA 547							
Method: EPA 547			**Instr:** LC11				
Batch ID: W2H0546 **Preparation:** _NONE (LC)			**Prepared:** 08/05/22 10:42				**Analyst:** pjs
Glyphosate	ND	1.8	5.0	ug/l	1	08/08/22	
Haloacetic Acids (HAAs) by GC/ECD							
Method: EPA 552.3			**Instr:** [CALC]				
Batch ID: [CALC] **Preparation:** [CALC]			**Prepared:** 08/05/22 07:50				**Analyst:** ecs
HAA5, Total	ND	0.28	1.0	ug/l	1	08/10/22	
Method: EPA 552.3			**Instr:** GC05				
Batch ID: W2H0522 **Preparation:** EPA 552.3/Micro Ext. Drtz			**Prepared:** 08/05/22 07:50				**Analyst:** ecs
Dibromoacetic acid (dbaa)	ND	0.28	1.0	ug/l	1	08/10/22	
Dichloroacetic acid (dcaa)	ND	0.29	1.0	ug/l	1	08/10/22	
Monobromoacetic acid (mbaa)	ND	0.34	1.0	ug/l	1	08/10/22	
Monochloroacetic acid (mcaa)	**0.31**	0.31	2.0	ug/l	1	08/10/22	J
Trichloroacetic acid (tcaa)	ND	0.29	1.0	ug/l	1	08/10/22	
Surrogate(s)							
2-Bromobutyric acid	*104%*	*Conc: 10.4*	*70-130*			*08/10/22*	
Nitrosamines by isotopic dilution GC/MS CI Mode							
Method: EPA 1625B			**Instr:** GCMS09				
Batch ID: W2H0652 **Preparation:** EPA 3535/SPE			**Prepared:** 08/08/22 14:07				**Analyst:** mld
N-Nitrosodimethylamine	ND	0.66	2.0	ng/l	1	08/11/22	
PPCPs - Isotope Dilution LCMSMS							
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0443 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:18				**Analyst:** jna
17-b-Estradiol	ND	4.0	4.0	ng/l	1	08/06/22	
Sucralose	**1200**	20	20	ng/l	1	08/06/22	
Surrogate(s)							
17-b-Estradiol-d3	*110%*	*Conc: 219*	*20-500*			*08/06/22*	
Sucralose-d6	*24%*	*Conc: 237*	*20-500*			*08/06/22*	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Sample Results

(Continued)

Sample: SMBRP-12
2H04102-01 (Water)

Sampled: 08/03/22 12:15 by Client
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
PPCPs - Isotope Dilution LCMSMS (Continued)							
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0444 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:26			**Analyst:** jna	
Triclosan	ND	8.0	8.0	ng/l	1	08/04/22	
Surrogate(s)							
Triclosan-d3	*85%*	*Conc: 342*	*20-500*			*08/04/22*	
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0445 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:27			**Analyst:** jna	
Caffeine	ND	4.0	4.0	ng/l	1	08/04/22	
DEET	**6.0**	4.0	4.0	ng/l	1	08/04/22	
Surrogate(s)							
Caffeine-13C3	*127%*	*Conc: 254*	*20-500*			*08/04/22*	
DEET-d7	*103%*	*Conc: 20.6*	*20-500*			*08/04/22*	
Semivolatile Organic Compounds by GC/MS							
Method: EPA 525.2			**Instr:** GCMS16				
Batch ID: W2H1378 **Preparation:** EPA 525.2/SPE			**Prepared:** 08/17/22 07:53			**Analyst:** rmr	
Alachlor	ND	0.030	0.10	ug/l	1	08/18/22	
Atrazine	ND	0.011	0.10	ug/l	1	08/18/22	
Benzo (a) pyrene	ND	0.020	0.10	ug/l	1	08/18/22	
Bis(2-ethylhexyl)adipate	ND	0.42	2.0	ug/l	1	08/18/22	
Bis(2-ethylhexyl)phthalate	ND	0.41	2.0	ug/l	1	08/18/22	
Bromacil	ND	0.070	0.50	ug/l	1	08/18/22	
Butachlor	ND	0.012	0.10	ug/l	1	08/18/22	
Captan	ND	0.32	1.0	ug/l	1	08/18/22	
Chlorpropham	ND	0.040	0.10	ug/l	1	08/18/22	
Diazinon	ND	0.022	0.10	ug/l	1	08/18/22	
Dimethoate	ND	0.020	0.20	ug/l	1	08/18/22	
Diphenamid	ND	0.030	0.10	ug/l	1	08/18/22	
Disulfoton	ND	0.015	0.10	ug/l	1	08/18/22	
EPTC	ND	0.020	0.10	ug/l	1	08/18/22	
Hexachlorocyclopentadiene	ND	0.092	1.0	ug/l	1	08/18/22	
Metolachlor	ND	0.030	0.10	ug/l	1	08/18/22	
Metribuzin	**0.059**	0.030	0.10	ug/l	1	08/18/22	J
Molinate	ND	0.030	0.10	ug/l	1	08/18/22	
Prometryn	ND	0.030	0.10	ug/l	1	08/18/22	
Simazine	ND	0.020	0.10	ug/l	1	08/18/22	
Terbacil	ND	0.090	2.0	ug/l	1	08/18/22	
Thiobencarb	ND	0.030	0.10	ug/l	1	08/18/22	
Trithion	ND	0.020	0.10	ug/l	1	08/18/22	

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:42

Sample Results

(Continued)

Sample: SMBRP-12
2H04102-01 (Water)

Sampled: 08/03/22 12:15 by Client

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organic Compounds by GC/MS (Continued)							
Method: EPA 525.2				**Instr:** GCMS16			
Batch ID: W2H1378 **Preparation:** EPA 525.2/SPE				**Prepared:** 08/17/22 07:53			**Analyst:** rmr
Surrogate(s)							
1,3-Dimethyl-2-nitrobenzene	*105%*	*Conc: 5.32*	*70-130*			*08/18/22*	
Perylene-d12	*104%*	*Conc: 5.25*	*50-120*			*08/18/22*	
Triphenyl phosphate	*109%*	*Conc: 5.53*	*70-130*			*08/18/22*	
Volatile Organics by P&T and GC/MS							
Method: EPA 524.3				**Instr:** GCMS08			
Batch ID: W2H1133 **Preparation:** Method (P+T)				**Prepared:** 08/12/22 14:47			**Analyst:** ADM
1,2-Dibromo-3-chloropropane	ND	0.0042	0.010	ug/l	1	08/13/22	
1,2-Dibromoethane (EDB)	ND	0.0029	0.020	ug/l	1	08/13/22	
Surrogate(s)							
1,2-Dichlorobenzene-d4	*105%*	*Conc: 0.421*	*70-130*			*08/13/22*	
4-Bromofluorobenzene	*88%*	*Conc: 0.351*	*70-130*			*08/13/22*	

Sample Results

(Continued)

Sample: SMBRP-12
2H04102-01RE1 (Water)

Sampled: 08/03/22 12:15 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Hexavalent Chromium by IC							
Method: EPA 218.6				**Instr:** LC13			
Batch ID: W2H1192 **Preparation:** _NONE (LC)				**Prepared:** 08/15/22 10:43			**Analyst:** JAN
Chromium 6+	ND	0.040	0.10	ug/l	5	08/15/22	M-05

Sample Results

(Continued)

Sample: SMBRP-12 Travel Blank
2H04102-02 (Water)

Sampled: 08/03/22 0:00 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organics by P&T and GC/MS							
Method: EPA 524.3				**Instr:** GCMS08			
Batch ID: W2H1133 **Preparation:** Method (P+T)				**Prepared:** 08/12/22 14:47			**Analyst:** ADM
1,2-Dibromo-3-chloropropane	ND	0.0042	0.010	ug/l	1	08/13/22	
1,2-Dibromoethane (EDB)	ND	0.0029	0.020	ug/l	1	08/13/22	
Surrogate(s)							
1,2-Dichlorobenzene-d4	*100%*	*Conc: 0.399*	*70-130*			*08/13/22*	
4-Bromofluorobenzene	*85%*	*Conc: 0.339*	*70-130*			*08/13/22*	

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Sample Results

(Continued)

Sample: MCWP-MW04D
2H04102-03 (Water)

Sampled: 08/03/22 10:40 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS							
Method: EPA 625.1			**Instr:** GCMS06				
Batch ID: W2H0824 **Preparation:** EPA 625/L-L SF			**Prepared:** 08/10/22 08:33			**Analyst:** rmr	
1,2,4-Trichlorobenzene	ND	0.49	1.0	ug/l	1	08/16/22	
1,2-Dichlorobenzene	ND	0.46	1.0	ug/l	1	08/16/22	
1,2-Diphenylhydrazine/Azobenzene	ND	0.30	1.0	ug/l	1	08/16/22	
1,3-Dichlorobenzene	ND	0.42	1.0	ug/l	1	08/16/22	
1,4-Dichlorobenzene	ND	0.48	1.0	ug/l	1	08/16/22	
2,4,6-Trichlorophenol	ND	0.22	1.0	ug/l	1	08/16/22	
2,4-Dichlorophenol	ND	0.26	1.0	ug/l	1	08/16/22	
2,4-Dimethylphenol	ND	0.76	1.0	ug/l	1	08/16/22	
2,4-Dinitrophenol	ND	1.9	10	ug/l	1	08/16/22	
2,4-Dinitrotoluene	ND	0.46	1.0	ug/l	1	08/16/22	
2,6-Dinitrotoluene	ND	0.27	1.0	ug/l	1	08/16/22	
2-Chloronaphthalene	ND	0.45	1.0	ug/l	1	08/16/22	
2-Chlorophenol	ND	0.28	1.0	ug/l	1	08/16/22	
2-Methyl-4,6-dinitrophenol	ND	0.50	5.0	ug/l	1	08/16/22	
2-Nitrophenol	ND	0.26	1.0	ug/l	1	08/16/22	
3,3'-Dichlorobenzidine	ND	2.5	5.0	ug/l	1	08/16/22	
4-Bromophenyl phenyl ether	ND	0.36	1.0	ug/l	1	08/16/22	
4-Chloro-3-methylphenol	ND	0.23	1.0	ug/l	1	08/16/22	
4-Chlorophenyl phenyl ether	ND	0.41	1.0	ug/l	1	08/16/22	
4-Nitrophenol	ND	1.2	5.0	ug/l	1	08/16/22	
Acenaphthene	ND	0.38	1.0	ug/l	1	08/16/22	
Acenaphthylene	ND	0.35	1.0	ug/l	1	08/16/22	
Anthracene	ND	0.41	1.0	ug/l	1	08/16/22	
Benzidine	ND	3.2	10	ug/l	1	08/16/22	
Benzo (a) anthracene	ND	0.19	1.0	ug/l	1	08/16/22	
Benzo (a) pyrene	ND	0.39	1.0	ug/l	1	08/16/22	
Benzo (b) fluoranthene	ND	0.46	1.0	ug/l	1	08/16/22	
Benzo (g,h,i) perylene	ND	0.42	2.0	ug/l	1	08/16/22	
Benzo (k) fluoranthene	ND	0.22	1.0	ug/l	1	08/16/22	
Bis(2-chloroethoxy)methane	ND	0.25	1.0	ug/l	1	08/16/22	
Bis(2-chloroethyl)ether	ND	0.27	1.0	ug/l	1	08/16/22	
Bis(2-chloroisopropyl)ether	ND	0.38	1.0	ug/l	1	08/16/22	
Bis(2-ethylhexyl)phthalate	ND	2.3	5.0	ug/l	1	08/16/22	
Butyl benzyl phthalate	ND	0.49	1.0	ug/l	1	08/16/22	
Chrysene	ND	0.19	1.0	ug/l	1	08/16/22	

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:42

Sample Results

(Continued)

Sample: MCWP-MW04D
2H04102-03 (Water)

Sampled: 08/03/22 10:40 by Client

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS (Continued)							
Method: EPA 625.1				**Instr:** GCMS06			
Batch ID: W2H0824 **Preparation:** EPA 625/L-L SF				**Prepared:** 08/10/22 08:33			**Analyst:** rmr
Dibenzo (a,h) anthracene	ND	0.15	2.0	ug/l	1	08/16/22	
Diethyl phthalate	ND	0.35	1.0	ug/l	1	08/16/22	
Dimethyl phthalate	ND	0.18	1.0	ug/l	1	08/16/22	
Di-n-butyl phthalate	ND	0.34	1.0	ug/l	1	08/16/22	
Di-n-octyl phthalate	ND	0.46	1.0	ug/l	1	08/16/22	
Fluoranthene	ND	0.35	1.0	ug/l	1	08/16/22	
Fluorene	ND	0.35	1.0	ug/l	1	08/16/22	
Hexachlorobenzene	ND	0.49	1.0	ug/l	1	08/16/22	
Hexachlorobutadiene	ND	0.47	1.0	ug/l	1	08/16/22	
Hexachlorocyclopentadiene	ND	0.31	5.0	ug/l	1	08/16/22	
Hexachloroethane	ND	0.50	1.0	ug/l	1	08/16/22	
Indeno (1,2,3-cd) pyrene	ND	0.25	2.0	ug/l	1	08/16/22	
Isophorone	ND	0.21	1.0	ug/l	1	08/16/22	
Naphthalene	ND	0.49	1.0	ug/l	1	08/16/22	
Nitrobenzene	ND	0.36	1.0	ug/l	1	08/16/22	
N-Nitrosodimethylamine	ND	0.50	1.0	ug/l	1	08/16/22	
N-Nitrosodi-n-propylamine	ND	0.26	1.0	ug/l	1	08/16/22	
N-Nitrosodiphenylamine	ND	0.19	1.0	ug/l	1	08/16/22	
Pentachlorophenol	ND	0.40	1.0	ug/l	1	08/16/22	
Phenanthrene	ND	0.32	1.0	ug/l	1	08/16/22	
Phenol	ND	0.81	1.0	ug/l	1	08/16/22	
Pyrene	ND	0.25	1.0	ug/l	1	08/16/22	
Surrogate(s)							
2,4,6-Tribromophenol	*73%*	*Conc: 27.9*	*25-120*			*08/16/22*	
2-Fluorobiphenyl	*81%*	*Conc: 15.6*	*22-120*			*08/16/22*	
2-Fluorophenol	*60%*	*Conc: 23.1*	*17-120*			*08/16/22*	
Nitrobenzene-d5	*94%*	*Conc: 17.9*	*47-120*			*08/16/22*	
Phenol-d5	*43%*	*Conc: 16.5*	*12-120*			*08/16/22*	
Terphenyl-d14	*93%*	*Conc: 17.8*	*44-129*			*08/16/22*	
Anions by IC, EPA Method 300.1							
Method: EPA 300.1				**Instr:** LC08_Channel2			
Batch ID: W2H1193 **Preparation:** _NONE (LC)				**Prepared:** 08/15/22 10:47			**Analyst:** JAN
Bromate	ND	140	500	ug/l	100	08/15/22	M-05
Chlorite	ND	220	1000	ug/l	100	08/15/22	M-05
Surrogate(s)							
Dichloroacetate	*104%*	*Conc: 519*	*90-115*			*08/15/22*	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:42

Sample Results

(Continued)

Sample: MCWP-MW04D
2H04102-03 (Water)

Sampled: 08/03/22 10:40 by Client

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Anions by IC, EPA Method 300.1 (Continued)							
Method: EPA 300.1			**Instr:** LC08_Channel2				
Batch ID: W2H1193 **Preparation:** _NONE (LC)			**Prepared:** 08/15/22 10:47			**Analyst:** JAN	
Carbamates and Urea Pesticides							
Method: EPA 531.2			**Instr:** LC11				
Batch ID: W2H1673 **Preparation:** _NONE (LC)			**Prepared:** 08/22/22 13:22			**Analyst:** PJS	
3-Hydroxycarbofuran	ND	0.82	2.0	ug/l	1	08/25/22	
Aldicarb	ND	0.58	2.0	ug/l	1	08/25/22	
Aldicarb sulfone	ND	0.73	2.0	ug/l	1	08/25/22	
Aldicarb sulfoxide	ND	1.0	2.0	ug/l	1	08/25/22	
Carbaryl	ND	1.0	2.0	ug/l	1	08/25/22	
Carbofuran	ND	1.0	2.0	ug/l	1	08/25/22	
Methiocarb	ND	1.0	2.0	ug/l	1	08/25/22	
Methomyl	ND	1.3	2.0	ug/l	1	08/25/22	
Oxamyl	ND	1.1	2.0	ug/l	1	08/25/22	
Propoxur (Baygon)	ND	1.4	2.0	ug/l	1	08/25/22	
Surrogate(s)							
BDMC	*94%*	*Conc: 9.44*	*70-130*			*08/25/22*	
Chlorinated Acids Herbicides by GC/ECD							
Method: EPA 515.4			**Instr:** GC08				
Batch ID: W2H1051 **Preparation:** EPA 515.4/Micro Ext. Drtz			**Prepared:** 08/12/22 08:22			**Analyst:** rjg	
2,4,5-T	ND	0.030	0.20	ug/l	1	08/17/22	
2,4,5-TP (Silvex)	ND	0.026	0.20	ug/l	1	08/17/22	
2,4-D	ND	0.14	0.40	ug/l	1	08/17/22	
2,4-DB	ND	0.19	2.0	ug/l	1	08/17/22	
3,5-Dichlorobenzoic acid	ND	0.12	1.0	ug/l	1	08/17/22	
Acifluorfen	ND	0.030	0.40	ug/l	1	08/17/22	
Bentazon	ND	0.23	2.0	ug/l	1	08/17/22	
Dalapon	ND	0.11	0.40	ug/l	1	08/17/22	
DCPA	ND	0.029	0.10	ug/l	1	08/17/22	
Dicamba	ND	0.049	0.60	ug/l	1	08/17/22	
Dichloroprop	ND	0.12	0.30	ug/l	1	08/17/22	
Dinoseb	ND	0.033	0.40	ug/l	1	08/17/22	
Pentachlorophenol	ND	0.046	0.20	ug/l	1	08/17/22	
Picloram	ND	0.050	0.60	ug/l	1	08/17/22	
Surrogate(s)							
2,4-DCAA	*93%*	*Conc: 9.30*	*70-130*			*08/17/22*	
Chlorinated Pesticides and/or PCBs by GC/ECD							

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:42

Sample Results

(Continued)

Sample: MCWP-MW04D
2H04102-03 (Water)

Sampled: 08/03/22 10:40 by Client

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

Method: EPA 508.1 **Instr:** GC08

Batch ID: W2H1280 **Preparation:** EPA 508.1/SPE **Prepared:** 08/16/22 08:08 **Analyst:** rjg

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
4,4´-DDD	ND	0.0030	0.010	ug/l	1	08/20/22	
4,4´-DDE	ND	0.0018	0.010	ug/l	1	08/20/22	
4,4´-DDT	ND	0.0030	0.010	ug/l	1	08/20/22	
Aldrin	ND	0.0040	0.010	ug/l	1	08/20/22	
alpha-BHC	ND	0.0019	0.010	ug/l	1	08/20/22	
Aroclor 1016	ND	0.10	0.10	ug/l	1	08/20/22	R-01
Aroclor 1221	ND	0.10	0.10	ug/l	1	08/20/22	R-01
Aroclor 1232	ND	0.10	0.10	ug/l	1	08/20/22	R-01
Aroclor 1242	ND	0.10	0.10	ug/l	1	08/20/22	R-01
Aroclor 1248	ND	0.10	0.10	ug/l	1	08/20/22	R-01
Aroclor 1254	ND	0.10	0.10	ug/l	1	08/20/22	R-01
Aroclor 1260	ND	0.10	0.10	ug/l	1	08/20/22	R-01
beta-BHC	ND	0.0024	0.010	ug/l	1	08/20/22	
Chlordane (tech)	ND	0.10	0.10	ug/l	1	08/20/22	R-01
Chlorothalonil	ND	0.0015	0.050	ug/l	1	08/20/22	
delta-BHC	ND	0.0030	0.010	ug/l	1	08/20/22	
Dieldrin	ND	0.0030	0.010	ug/l	1	08/20/22	
Endosulfan I	ND	0.0030	0.010	ug/l	1	08/20/22	
Endosulfan II	ND	0.0016	0.010	ug/l	1	08/20/22	
Endosulfan sulfate	ND	0.0030	0.010	ug/l	1	08/20/22	
Endrin	ND	0.0013	0.010	ug/l	1	08/20/22	
Endrin aldehyde	ND	0.0040	0.010	ug/l	1	08/20/22	
gamma-BHC (Lindane)	ND	0.0030	0.010	ug/l	1	08/20/22	
Heptachlor	ND	0.0017	0.010	ug/l	1	08/20/22	
Heptachlor epoxide	ND	0.0019	0.010	ug/l	1	08/20/22	
Hexachlorobenzene	ND	0.0040	0.050	ug/l	1	08/20/22	
Hexachlorocyclopentadiene	ND	0.0065	0.050	ug/l	1	08/20/22	
Methoxychlor	ND	0.0030	0.010	ug/l	1	08/20/22	
PCBs, Total	ND		0.50	ug/l	1	08/20/22	
Propachlor	ND	0.020	0.050	ug/l	1	08/20/22	
Toxaphene	ND	0.50	0.50	ug/l	1	08/20/22	R-01
Trifluralin	ND	0.0020	0.010	ug/l	1	08/20/22	

Surrogate(s)

4,4-Dibromobiphenyl	*97%*	*Conc: 0.0919*	*70-130*		*08/20/22*

Diquat and Paraquat by EPA 549.2

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Sample Results

(Continued)

Sample: MCWP-MW04D
2H04102-03 (Water)

Sampled: 08/03/22 10:40 by Client
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Diquat and Paraquat by EPA 549.2 (Continued)							
Method: EPA 549.2			**Instr:** LC10				
Batch ID: W2H0719 **Preparation:** EPA 549.2/SPE			**Prepared:** 08/09/22 06:52				**Analyst:** pjs
Diquat	ND	0.90	4.0	ug/l	1	08/25/22	
Paraquat	ND	1.2	4.0	ug/l	1	08/25/22	
Endothall By EPA 548.1							
Method: EPA 548.1			**Instr:** GCMS06				
Batch ID: W2H0594 **Preparation:** EPA 548.1/SPE			**Prepared:** 08/09/22 08:15				**Analyst:** rmr
Endothall	ND	11	40	ug/l	1	08/11/22	
Glyphosate by EPA 547							
Method: EPA 547			**Instr:** LC11				
Batch ID: W2H0546 **Preparation:** _NONE (LC)			**Prepared:** 08/05/22 10:42				**Analyst:** pjs
Glyphosate	ND	1.8	5.0	ug/l	1	08/08/22	
Haloacetic Acids (HAAs) by GC/ECD							
Method: EPA 552.3			**Instr:** [CALC]				
Batch ID: [CALC] **Preparation:** [CALC]			**Prepared:** 08/05/22 07:50				**Analyst:** ecs
HAA5, Total	ND	0.28	1.0	ug/l	1	08/10/22	
Method: EPA 552.3			**Instr:** GC05				
Batch ID: W2H0522 **Preparation:** EPA 552.3/Micro Ext. Drtz			**Prepared:** 08/05/22 07:50				**Analyst:** ecs
Dibromoacetic acid (dbaa)	ND	0.28	1.0	ug/l	1	08/10/22	
Dichloroacetic acid (dcaa)	ND	0.29	1.0	ug/l	1	08/10/22	
Monobromoacetic acid (mbaa)	ND	0.34	1.0	ug/l	1	08/10/22	
Monochloroacetic acid (mcaa)	ND	0.31	2.0	ug/l	1	08/10/22	
Trichloroacetic acid (tcaa)	ND	0.29	1.0	ug/l	1	08/10/22	
Surrogate(s)							
2-Bromobutyric acid	*103%*	*Conc: 10.3*	*70-130*			*08/10/22*	
Nitrosamines by isotopic dilution GC/MS CI Mode							
Method: EPA 1625B			**Instr:** GCMS09				
Batch ID: W2H0652 **Preparation:** EPA 3535/SPE			**Prepared:** 08/08/22 14:07				**Analyst:** mld
N-Nitrosodimethylamine	ND	0.66	2.0	ng/l	1	08/11/22	
PPCPs - Isotope Dilution LCMSMS							
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0443 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:18				**Analyst:** jna
17-b-Estradiol	ND	4.0	4.0	ng/l	1	08/06/22	
Surrogate(s)							
17-b-Estradiol-d3	*106%*	*Conc: 211*	*20-500*			*08/06/22*	
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0444 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:26				**Analyst:** jna
Triclosan	ND	8.0	8.0	ng/l	1	08/05/22	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:42

Sample Results

(Continued)

Sample: MCWP-MW04D
2H04102-03 (Water)

Sampled: 08/03/22 10:40 by Client

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
PPCPs - Isotope Dilution LCMSMS (Continued)							
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0444 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:26			**Analyst:** jna	
Surrogate(s)							
Triclosan-d3	*81%*	*Conc: 323*	*20-500*			*08/05/22*	
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0445 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:27			**Analyst:** jna	
Caffeine	ND	4.0	4.0	ng/l	1	08/04/22	
DEET	ND	4.0	4.0	ng/l	1	08/04/22	
Surrogate(s)							
Caffeine-13C3	*102%*	*Conc: 204*	*20-500*			*08/04/22*	
DEET-d7	*101%*	*Conc: 20.1*	*20-500*			*08/04/22*	
Semivolatile Organic Compounds by GC/MS							
Method: EPA 525.2			**Instr:** GCMS16				
Batch ID: W2H0814 **Preparation:** EPA 525.2/SPE			**Prepared:** 08/10/22 06:37			**Analyst:** rmr	
Alachlor	ND	0.030	0.10	ug/l	1	08/12/22	
Atrazine	ND	0.011	0.10	ug/l	1	08/12/22	
Benzo (a) pyrene	ND	0.020	0.10	ug/l	1	08/12/22	
Bis(2-ethylhexyl)adipate	ND	0.42	2.0	ug/l	1	08/12/22	
Bis(2-ethylhexyl)phthalate	ND	0.41	2.0	ug/l	1	08/12/22	
Bromacil	ND	0.070	0.50	ug/l	1	08/12/22	
Butachlor	ND	0.012	0.10	ug/l	1	08/12/22	
Captan	ND	0.32	1.0	ug/l	1	08/12/22	BS-04
Chlorpropham	ND	0.040	0.10	ug/l	1	08/12/22	
Diazinon	ND	0.022	0.10	ug/l	1	08/12/22	
Dimethoate	ND	0.020	0.20	ug/l	1	08/12/22	
Diphenamid	ND	0.030	0.10	ug/l	1	08/12/22	
Disulfoton	ND	0.015	0.10	ug/l	1	08/12/22	
EPTC	ND	0.020	0.10	ug/l	1	08/12/22	
Hexachlorocyclopentadiene	ND	0.092	1.0	ug/l	1	08/12/22	
Metolachlor	ND	0.030	0.10	ug/l	1	08/12/22	
Metribuzin	ND	0.030	0.10	ug/l	1	08/12/22	
Molinate	ND	0.030	0.10	ug/l	1	08/12/22	
Prometryn	ND	0.030	0.10	ug/l	1	08/12/22	
Simazine	ND	0.020	0.10	ug/l	1	08/12/22	
Terbacil	ND	0.090	2.0	ug/l	1	08/12/22	
Thiobencarb	ND	0.030	0.10	ug/l	1	08/12/22	
Trithion	ND	0.020	0.10	ug/l	1	08/12/22	
Surrogate(s)							

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:42

Sample Results (Continued)

Sample: MCWP-MW04D
2H04102-03 (Water)

Sampled: 08/03/22 10:40 by Client

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organic Compounds by GC/MS (Continued)							
Method: EPA 525.2			**Instr:** GCMS16				
Batch ID: W2H0814 **Preparation:** EPA 525.2/SPE			**Prepared:** 08/10/22 06:37				**Analyst:** rmr
1,3-Dimethyl-2-nitrobenzene	*100%*	*Conc: 5.01*	*70-130*			*08/12/22*	
Perylene-d12	*98%*	*Conc: 4.92*	*50-120*			*08/12/22*	
Triphenyl phosphate	*111%*	*Conc: 5.57*	*70-130*			*08/12/22*	
Volatile Organics by P&T and GC/MS							
Method: EPA 524.3			**Instr:** GCMS08				
Batch ID: W2H1133 **Preparation:** Method (P+T)			**Prepared:** 08/12/22 14:47				**Analyst:** ADM
1,2-Dibromo-3-chloropropane	ND	0.0042	0.010	ug/l	1	08/13/22	
1,2-Dibromoethane (EDB)	ND	0.0029	0.020	ug/l	1	08/13/22	
Surrogate(s)							
1,2-Dichlorobenzene-d4	*100%*	*Conc: 0.399*	*70-130*			*08/13/22*	
4-Bromofluorobenzene	*85%*	*Conc: 0.339*	*70-130*			*08/13/22*	

Sample Results (Continued)

Sample: MCWP-MW04D
2H04102-03RE1 (Water)

Sampled: 08/03/22 10:40 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Hexavalent Chromium by IC							
Method: EPA 218.6			**Instr:** LC13				
Batch ID: W2H1192 **Preparation:** _NONE (LC)			**Prepared:** 08/15/22 10:43				**Analyst:** JAN
Chromium 6+	ND	0.040	0.10	ug/l	5	08/15/22	M-05
PPCPs - Isotope Dilution LCMSMS							
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0443 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:18				**Analyst:** jna
Sucralose	**240**	100	100	ng/l	5	08/08/22	M-06
Surrogate(s)							
Sucralose-d6	*45%*	*Conc: 447*	*20-500*			*08/08/22*	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Sample Results

(Continued)

Sample: MCWP-MW04D Travel Blank
2H04102-04 (Water)

Sampled: 08/03/22 0:00 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organics by P&T and GC/MS							
Method: EPA 524.3				**Instr:** GCMS08			
Batch ID: W2H1133 **Preparation:** Method (P+T)				**Prepared:** 08/12/22 14:47			**Analyst:** ADM
1,2-Dibromo-3-chloropropane	ND	0.0042	0.010	ug/l	1	08/13/22	
1,2-Dibromoethane (EDB)	ND	0.0029	0.020	ug/l	1	08/13/22	
Surrogate(s)							
1,2-Dichlorobenzene-d4	*100%*	*Conc: 0.399*	*70-130*			*08/13/22*	
4-Bromofluorobenzene	*84%*	*Conc: 0.336*	*70-130*			*08/13/22*	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Sample Results

(Continued)

Sample: MCWP-MW09
2H04102-05 (Water)

Sampled: 08/03/22 12:40 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS							
Method: EPA 625.1			**Instr:** GCMS06				
Batch ID: W2H0824 **Preparation:** EPA 625/L-L SF			**Prepared:** 08/10/22 08:33			**Analyst:** rmr	
1,2,4-Trichlorobenzene	ND	0.49	1.0	ug/l	1	08/16/22	
1,2-Dichlorobenzene	ND	0.46	1.0	ug/l	1	08/16/22	
1,2-Diphenylhydrazine/Azobenzene	ND	0.30	1.0	ug/l	1	08/16/22	
1,3-Dichlorobenzene	ND	0.42	1.0	ug/l	1	08/16/22	
1,4-Dichlorobenzene	ND	0.48	1.0	ug/l	1	08/16/22	
2,4,6-Trichlorophenol	ND	0.22	1.0	ug/l	1	08/16/22	
2,4-Dichlorophenol	ND	0.26	1.0	ug/l	1	08/16/22	
2,4-Dimethylphenol	ND	0.76	1.0	ug/l	1	08/16/22	
2,4-Dinitrophenol	ND	1.9	10	ug/l	1	08/16/22	
2,4-Dinitrotoluene	ND	0.46	1.0	ug/l	1	08/16/22	
2,6-Dinitrotoluene	ND	0.27	1.0	ug/l	1	08/16/22	
2-Chloronaphthalene	ND	0.45	1.0	ug/l	1	08/16/22	
2-Chlorophenol	ND	0.28	1.0	ug/l	1	08/16/22	
2-Methyl-4,6-dinitrophenol	ND	0.50	5.0	ug/l	1	08/16/22	
2-Nitrophenol	ND	0.26	1.0	ug/l	1	08/16/22	
3,3'-Dichlorobenzidine	ND	2.5	5.0	ug/l	1	08/16/22	
4-Bromophenyl phenyl ether	ND	0.36	1.0	ug/l	1	08/16/22	
4-Chloro-3-methylphenol	ND	0.23	1.0	ug/l	1	08/16/22	
4-Chlorophenyl phenyl ether	ND	0.41	1.0	ug/l	1	08/16/22	
4-Nitrophenol	ND	1.2	5.0	ug/l	1	08/16/22	
Acenaphthene	ND	0.38	1.0	ug/l	1	08/16/22	
Acenaphthylene	ND	0.35	1.0	ug/l	1	08/16/22	
Anthracene	ND	0.41	1.0	ug/l	1	08/16/22	
Benzidine	ND	3.2	10	ug/l	1	08/16/22	
Benzo (a) anthracene	ND	0.19	1.0	ug/l	1	08/16/22	
Benzo (a) pyrene	ND	0.39	1.0	ug/l	1	08/16/22	
Benzo (b) fluoranthene	ND	0.46	1.0	ug/l	1	08/16/22	
Benzo (g,h,i) perylene	ND	0.42	2.0	ug/l	1	08/16/22	
Benzo (k) fluoranthene	ND	0.22	1.0	ug/l	1	08/16/22	
Bis(2-chloroethoxy)methane	ND	0.25	1.0	ug/l	1	08/16/22	
Bis(2-chloroethyl)ether	ND	0.27	1.0	ug/l	1	08/16/22	
Bis(2-chloroisopropyl)ether	ND	0.38	1.0	ug/l	1	08/16/22	
Bis(2-ethylhexyl)phthalate	**5.8**	2.3	5.0	ug/l	1	08/16/22	
Butyl benzyl phthalate	ND	0.49	1.0	ug/l	1	08/16/22	
Chrysene	ND	0.19	1.0	ug/l	1	08/16/22	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:42

Sample Results

(Continued)

Sample: MCWP-MW09
2H04102-05 (Water)

Sampled: 08/03/22 12:40 by Client

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS (Continued)							
Method: EPA 625.1				**Instr:** GCMS06			
Batch ID: W2H0824 **Preparation:** EPA 625/L-L SF				**Prepared:** 08/10/22 08:33			**Analyst:** rmr
Dibenzo (a,h) anthracene	ND	0.15	2.0	ug/l	1	08/16/22	
Diethyl phthalate	ND	0.35	1.0	ug/l	1	08/16/22	
Dimethyl phthalate	ND	0.18	1.0	ug/l	1	08/16/22	
Di-n-butyl phthalate	ND	0.34	1.0	ug/l	1	08/16/22	
Di-n-octyl phthalate	ND	0.46	1.0	ug/l	1	08/16/22	
Fluoranthene	ND	0.35	1.0	ug/l	1	08/16/22	
Fluorene	ND	0.35	1.0	ug/l	1	08/16/22	
Hexachlorobenzene	ND	0.49	1.0	ug/l	1	08/16/22	
Hexachlorobutadiene	ND	0.47	1.0	ug/l	1	08/16/22	
Hexachlorocyclopentadiene	ND	0.31	5.0	ug/l	1	08/16/22	
Hexachloroethane	ND	0.50	1.0	ug/l	1	08/16/22	
Indeno (1,2,3-cd) pyrene	ND	0.25	2.0	ug/l	1	08/16/22	
Isophorone	ND	0.21	1.0	ug/l	1	08/16/22	
Naphthalene	ND	0.49	1.0	ug/l	1	08/16/22	
Nitrobenzene	ND	0.36	1.0	ug/l	1	08/16/22	
N-Nitrosodimethylamine	ND	0.50	1.0	ug/l	1	08/16/22	
N-Nitrosodi-n-propylamine	ND	0.26	1.0	ug/l	1	08/16/22	
N-Nitrosodiphenylamine	ND	0.19	1.0	ug/l	1	08/16/22	
Pentachlorophenol	ND	0.40	1.0	ug/l	1	08/16/22	
Phenanthrene	ND	0.32	1.0	ug/l	1	08/16/22	
Phenol	ND	0.81	1.0	ug/l	1	08/16/22	
Pyrene	ND	0.25	1.0	ug/l	1	08/16/22	
Surrogate(s)							
2,4,6-Tribromophenol	*71%*	*Conc: 27.7*	*25-120*			*08/16/22*	
2-Fluorobiphenyl	*79%*	*Conc: 15.4*	*22-120*			*08/16/22*	
2-Fluorophenol	*59%*	*Conc: 23.0*	*17-120*			*08/16/22*	
Nitrobenzene-d5	*94%*	*Conc: 18.2*	*47-120*			*08/16/22*	
Phenol-d5	*44%*	*Conc: 17.1*	*12-120*			*08/16/22*	
Terphenyl-d14	*93%*	*Conc: 18.0*	*44-129*			*08/16/22*	
Anions by IC, EPA Method 300.1							
Method: EPA 300.1				**Instr:** LC08_Channel2			
Batch ID: W2H1193 **Preparation:** _NONE (LC)				**Prepared:** 08/15/22 10:47			**Analyst:** JAN
Bromate	ND	140	500	ug/l	100	08/15/22	M-05
Chlorite	ND	220	1000	ug/l	100	08/15/22	M-05
Surrogate(s)							
Dichloroacetate	*104%*	*Conc: 521*	*90-115*			*08/15/22*	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:42

Sample Results

(Continued)

Sample: MCWP-MW09
2H04102-05 (Water)

Sampled: 08/03/22 12:40 by Client

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Anions by IC, EPA Method 300.1 (Continued)							
Method: EPA 300.1			**Instr:** LC08_Channel2				
Batch ID: W2H1193 **Preparation:** _NONE (LC)			**Prepared:** 08/15/22 10:47			**Analyst:** JAN	
Carbamates and Urea Pesticides							
Method: EPA 531.2			**Instr:** LC11				
Batch ID: W2H1673 **Preparation:** _NONE (LC)			**Prepared:** 08/22/22 13:22			**Analyst:** PJS	
3-Hydroxycarbofuran	ND	0.82	2.0	ug/l	1	08/25/22	
Aldicarb	ND	0.58	2.0	ug/l	1	08/25/22	
Aldicarb sulfone	ND	0.73	2.0	ug/l	1	08/25/22	
Aldicarb sulfoxide	ND	1.0	2.0	ug/l	1	08/25/22	
Carbaryl	ND	1.0	2.0	ug/l	1	08/25/22	
Carbofuran	ND	1.0	2.0	ug/l	1	08/25/22	
Methiocarb	ND	1.0	2.0	ug/l	1	08/25/22	
Methomyl	ND	1.3	2.0	ug/l	1	08/25/22	
Oxamyl	ND	1.1	2.0	ug/l	1	08/25/22	
Propoxur (Baygon)	ND	1.4	2.0	ug/l	1	08/25/22	
Surrogate(s)							
BDMC	*92%*	*Conc: 9.21*	*70-130*			*08/25/22*	
Chlorinated Acids Herbicides by GC/ECD							
Method: EPA 515.4			**Instr:** GC08				
Batch ID: W2H1051 **Preparation:** EPA 515.4/Micro Ext. Drtz			**Prepared:** 08/12/22 08:22			**Analyst:** rjg	
2,4,5-T	ND	0.030	0.20	ug/l	1	08/17/22	
2,4,5-TP (Silvex)	ND	0.026	0.20	ug/l	1	08/17/22	
2,4-D	ND	0.14	0.40	ug/l	1	08/17/22	
2,4-DB	ND	0.19	2.0	ug/l	1	08/17/22	
3,5-Dichlorobenzoic acid	ND	0.12	1.0	ug/l	1	08/17/22	
Acifluorfen	ND	0.030	0.40	ug/l	1	08/17/22	
Bentazon	ND	0.23	2.0	ug/l	1	08/17/22	
Dalapon	ND	0.11	0.40	ug/l	1	08/17/22	
DCPA	ND	0.029	0.10	ug/l	1	08/17/22	
Dicamba	ND	0.049	0.60	ug/l	1	08/17/22	
Dichloroprop	ND	0.12	0.30	ug/l	1	08/17/22	
Dinoseb	ND	0.033	0.40	ug/l	1	08/17/22	
Pentachlorophenol	ND	0.046	0.20	ug/l	1	08/17/22	
Picloram	ND	0.050	0.60	ug/l	1	08/17/22	
Surrogate(s)							
2,4-DCAA	*91%*	*Conc: 9.10*	*70-130*			*08/17/22*	
Chlorinated Pesticides and/or PCBs by GC/ECD							

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:42

Sample Results

(Continued)

Sample: MCWP-MW09
2H04102-05 (Water)

Sampled: 08/03/22 12:40 by Client

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

Method: EPA 508.1 **Instr:** GC08

Batch ID: W2H1280 **Preparation:** EPA 508.1/SPE **Prepared:** 08/16/22 08:08 **Analyst:** rjg

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
4,4´-DDD	ND	0.0030	0.010	ug/l	1	08/20/22	
4,4´-DDE	ND	0.0018	0.010	ug/l	1	08/20/22	
4,4´-DDT	ND	0.0030	0.010	ug/l	1	08/20/22	
Aldrin	ND	0.0040	0.010	ug/l	1	08/20/22	
alpha-BHC	ND	0.0019	0.010	ug/l	1	08/20/22	
Aroclor 1016	ND	0.10	0.10	ug/l	1	08/20/22	R-01
Aroclor 1221	ND	0.10	0.10	ug/l	1	08/20/22	R-01
Aroclor 1232	ND	0.10	0.10	ug/l	1	08/20/22	R-01
Aroclor 1242	ND	0.10	0.10	ug/l	1	08/20/22	R-01
Aroclor 1248	ND	0.10	0.10	ug/l	1	08/20/22	R-01
Aroclor 1254	ND	0.10	0.10	ug/l	1	08/20/22	R-01
Aroclor 1260	ND	0.10	0.10	ug/l	1	08/20/22	R-01
beta-BHC	ND	0.0024	0.010	ug/l	1	08/20/22	
Chlordane (tech)	ND	0.10	0.10	ug/l	1	08/20/22	R-01
Chlorothalonil	ND	0.0015	0.050	ug/l	1	08/20/22	
delta-BHC	ND	0.0030	0.010	ug/l	1	08/20/22	
Dieldrin	ND	0.0030	0.010	ug/l	1	08/20/22	
Endosulfan I	ND	0.0030	0.010	ug/l	1	08/20/22	
Endosulfan II	ND	0.0016	0.010	ug/l	1	08/20/22	
Endosulfan sulfate	ND	0.010	0.010	ug/l	1	08/20/22	R-01
Endrin	ND	0.0013	0.010	ug/l	1	08/20/22	
Endrin aldehyde	ND	0.0040	0.010	ug/l	1	08/20/22	
gamma-BHC (Lindane)	ND	0.0030	0.010	ug/l	1	08/20/22	
Heptachlor	ND	0.0017	0.010	ug/l	1	08/20/22	
Heptachlor epoxide	ND	0.0019	0.010	ug/l	1	08/20/22	
Hexachlorobenzene	ND	0.0040	0.050	ug/l	1	08/20/22	
Hexachlorocyclopentadiene	ND	0.0065	0.050	ug/l	1	08/20/22	
Methoxychlor	ND	0.0030	0.010	ug/l	1	08/20/22	
PCBs, Total	ND		0.50	ug/l	1	08/20/22	
Propachlor	ND	0.020	0.050	ug/l	1	08/20/22	
Toxaphene	ND	0.50	0.50	ug/l	1	08/20/22	R-01
Trifluralin	ND	0.0020	0.010	ug/l	1	08/20/22	
Surrogate(s)							
4,4-Dibromobiphenyl	*99%*	*Conc: 0.100*	*70-130*			*08/20/22*	

Diquat and Paraquat by EPA 549.2

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:42

Sample Results

(Continued)

Sample: MCWP-MW09
2H04102-05 (Water)

Sampled: 08/03/22 12:40 by Client

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Diquat and Paraquat by EPA 549.2 (Continued)							
Method: EPA 549.2			**Instr:** LC10				
Batch ID: W2H0719 **Preparation:** EPA 549.2/SPE			**Prepared:** 08/09/22 06:52				**Analyst:** pjs
Diquat	ND	0.90	4.0	ug/l	1	08/25/22	
Paraquat	ND	1.2	4.0	ug/l	1	08/25/22	
Endothall By EPA 548.1							
Method: EPA 548.1			**Instr:** GCMS06				
Batch ID: W2H0594 **Preparation:** EPA 548.1/SPE			**Prepared:** 08/09/22 08:15				**Analyst:** rmr
Endothall	ND	11	40	ug/l	1	08/11/22	
Glyphosate by EPA 547							
Method: EPA 547			**Instr:** LC11				
Batch ID: W2H0546 **Preparation:** _NONE (LC)			**Prepared:** 08/05/22 10:42				**Analyst:** pjs
Glyphosate	ND	1.8	5.0	ug/l	1	08/08/22	
Haloacetic Acids (HAAs) by GC/ECD							
Method: EPA 552.3			**Instr:** [CALC]				
Batch ID: [CALC] **Preparation:** [CALC]			**Prepared:** 08/05/22 07:50				**Analyst:** ecs
HAA5, Total	ND	0.28	1.0	ug/l	1	08/10/22	
Method: EPA 552.3			**Instr:** GC05				
Batch ID: W2H0522 **Preparation:** EPA 552.3/Micro Ext. Drtz			**Prepared:** 08/05/22 07:50				**Analyst:** ecs
Dibromoacetic acid (dbaa)	ND	0.28	1.0	ug/l	1	08/10/22	
Dichloroacetic acid (dcaa)	ND	0.29	1.0	ug/l	1	08/10/22	
Monobromoacetic acid (mbaa)	ND	0.34	1.0	ug/l	1	08/10/22	
Monochloroacetic acid (mcaa)	ND	0.31	2.0	ug/l	1	08/10/22	
Trichloroacetic acid (tcaa)	ND	0.29	1.0	ug/l	1	08/10/22	
Surrogate(s)							
2-Bromobutyric acid	*95%*	*Conc: 9.46*	*70-130*			*08/10/22*	
Nitrosamines by isotopic dilution GC/MS CI Mode							
Method: EPA 1625B			**Instr:** GCMS09				
Batch ID: W2H0652 **Preparation:** EPA 3535/SPE			**Prepared:** 08/08/22 14:07				**Analyst:** mld
N-Nitrosodimethylamine	ND	0.66	2.0	ng/l	1	08/11/22	
PPCPs - Isotope Dilution LCMSMS							
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0443 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:18				**Analyst:** jna
17-b-Estradiol	ND	4.0	4.0	ng/l	1	08/06/22	
Sucralose	**45**	20	20	ng/l	1	08/06/22	
Surrogate(s)							
17-b-Estradiol-d3	*103%*	*Conc: 207*	*20-500*			*08/06/22*	
Sucralose-d6	*25%*	*Conc: 245*	*20-500*			*08/06/22*	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Sample Results

(Continued)

Sample: MCWP-MW09
2H04102-05 (Water)

Sampled: 08/03/22 12:40 by Client
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
PPCPs - Isotope Dilution LCMSMS (Continued)							
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0444 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:26				**Analyst:** jna
Triclosan	ND	8.0	8.0	ng/l	1	08/05/22	
Surrogate(s)							
Triclosan-d3	*72%*	*Conc: 288*	*20-500*			*08/05/22*	
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0445 **Preparation:** _NONE (LC)			**Prepared:** 08/04/22 11:27				**Analyst:** jna
Caffeine	ND	4.0	4.0	ng/l	1	08/04/22	
DEET	ND	4.0	4.0	ng/l	1	08/04/22	
Surrogate(s)							
Caffeine-13C3	*99%*	*Conc: 197*	*20-500*			*08/04/22*	
DEET-d7	*105%*	*Conc: 21.1*	*20-500*			*08/04/22*	
Semivolatile Organic Compounds by GC/MS							
Method: EPA 525.2			**Instr:** GCMS16				
Batch ID: W2H1378 **Preparation:** EPA 525.2/SPE			**Prepared:** 08/17/22 07:53				**Analyst:** rmr
Alachlor	ND	0.030	0.10	ug/l	1	08/18/22	
Atrazine	ND	0.011	0.10	ug/l	1	08/18/22	
Benzo (a) pyrene	ND	0.020	0.10	ug/l	1	08/18/22	
Bis(2-ethylhexyl)adipate	ND	0.42	2.0	ug/l	1	08/18/22	
Bis(2-ethylhexyl)phthalate	ND	0.41	2.0	ug/l	1	08/18/22	
Bromacil	ND	0.070	0.50	ug/l	1	08/18/22	
Butachlor	ND	0.012	0.10	ug/l	1	08/18/22	
Captan	ND	0.32	1.0	ug/l	1	08/18/22	
Chlorpropham	ND	0.040	0.10	ug/l	1	08/18/22	
Diazinon	ND	0.022	0.10	ug/l	1	08/18/22	
Dimethoate	ND	0.020	0.20	ug/l	1	08/18/22	
Diphenamid	ND	0.030	0.10	ug/l	1	08/18/22	
Disulfoton	ND	0.015	0.10	ug/l	1	08/18/22	
EPTC	ND	0.020	0.10	ug/l	1	08/18/22	
Hexachlorocyclopentadiene	ND	0.092	1.0	ug/l	1	08/18/22	
Metolachlor	ND	0.030	0.10	ug/l	1	08/18/22	
Metribuzin	ND	0.030	0.10	ug/l	1	08/18/22	
Molinate	ND	0.030	0.10	ug/l	1	08/18/22	
Prometryn	ND	0.030	0.10	ug/l	1	08/18/22	
Simazine	ND	0.020	0.10	ug/l	1	08/18/22	
Terbacil	ND	0.090	2.0	ug/l	1	08/18/22	
Thiobencarb	ND	0.030	0.10	ug/l	1	08/18/22	
Trithion	ND	0.020	0.10	ug/l	1	08/18/22	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:42

Sample Results

(Continued)

Sample: MCWP-MW09 — Sampled: 08/03/22 12:40 by Client

2H04102-05 (Water) (Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organic Compounds by GC/MS (Continued)							
Method: EPA 525.2			**Instr:** GCMS16				
Batch ID: W2H1378 **Preparation:** EPA 525.2/SPE			**Prepared:** 08/17/22 07:53			**Analyst:** rmr	
Surrogate(s)							
1,3-Dimethyl-2-nitrobenzene	*106%*	*Conc: 5.46*	*70-130*			*08/18/22*	
Perylene-d12	*103%*	*Conc: 5.31*	*50-120*			*08/18/22*	
Triphenyl phosphate	*108%*	*Conc: 5.58*	*70-130*			*08/18/22*	
Volatile Organics by P&T and GC/MS							
Method: EPA 524.3			**Instr:** GCMS08				
Batch ID: W2H1133 **Preparation:** Method (P+T)			**Prepared:** 08/12/22 14:47			**Analyst:** ADM	
1,2-Dibromo-3-chloropropane	ND	0.0042	0.010	ug/l	1	08/13/22	
1,2-Dibromoethane (EDB)	ND	0.0029	0.020	ug/l	1	08/13/22	
Surrogate(s)							
1,2-Dichlorobenzene-d4	*100%*	*Conc: 0.400*	*70-130*			*08/13/22*	
4-Bromofluorobenzene	*83%*	*Conc: 0.330*	*70-130*			*08/13/22*	

Sample Results

(Continued)

Sample: MCWP-MW09 — Sampled: 08/03/22 12:40 by Client

2H04102-05RE1 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Hexavalent Chromium by IC							
Method: EPA 218.6			**Instr:** LC13				
Batch ID: W2H1192 **Preparation:** _NONE (LC)			**Prepared:** 08/15/22 10:43			**Analyst:** JAN	
Chromium 6+	ND	0.040	0.10	ug/l	5	08/15/22	M-05

Sample Results

(Continued)

Sample: MCWP-MW09 Travel Blank — Sampled: 08/03/22 0:00 by Client

2H04102-06 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organics by P&T and GC/MS							
Method: EPA 524.3			**Instr:** GCMS08				
Batch ID: W2H1133 **Preparation:** Method (P+T)			**Prepared:** 08/12/22 14:47			**Analyst:** ADM	
1,2-Dibromo-3-chloropropane	ND	0.0042	0.010	ug/l	1	08/13/22	
1,2-Dibromoethane (EDB)	ND	0.0029	0.020	ug/l	1	08/13/22	
Surrogate(s)							
1,2-Dichlorobenzene-d4	*100%*	*Conc: 0.400*	*70-130*			*08/13/22*	
4-Bromofluorobenzene	*82%*	*Conc: 0.329*	*70-130*			*08/13/22*	

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

Acid and Base/Neutral Extractables by GC/MS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0824 - EPA 625.1											
Blank (W2H0824-BLK1)					**Prepared: 08/10/22 Analyzed: 08/15/22**						
1,2,4-Trichlorobenzene	ND	0.49	1.0	ug/l							
1,2-Dichlorobenzene	ND	0.46	1.0	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	0.30	1.0	ug/l							
1,3-Dichlorobenzene	ND	0.42	1.0	ug/l							
1,4-Dichlorobenzene	ND	0.48	1.0	ug/l							
2,4,6-Trichlorophenol	ND	0.22	1.0	ug/l							
2,4-Dichlorophenol	ND	0.26	1.0	ug/l							
2,4-Dimethylphenol	ND	0.76	1.0	ug/l							
2,4-Dinitrophenol	ND	1.9	10	ug/l							
2,4-Dinitrotoluene	ND	0.46	1.0	ug/l							
2,6-Dinitrotoluene	ND	0.27	1.0	ug/l							
2-Chloronaphthalene	ND	0.45	1.0	ug/l							
2-Chlorophenol	ND	0.28	1.0	ug/l							
2-Methyl-4,6-dinitrophenol	ND	0.50	5.0	ug/l							
2-Nitrophenol	ND	0.26	1.0	ug/l							
3,3'-Dichlorobenzidine	ND	2.5	5.0	ug/l							
4-Bromophenyl phenyl ether	ND	0.36	1.0	ug/l							
4-Chloro-3-methylphenol	ND	0.23	1.0	ug/l							
4-Chlorophenyl phenyl ether	ND	0.41	1.0	ug/l							
4-Nitrophenol	ND	1.2	5.0	ug/l							
Acenaphthene	ND	0.38	1.0	ug/l							
Acenaphthylene	ND	0.35	1.0	ug/l							
Anthracene	ND	0.41	1.0	ug/l							
Benzidine	ND	3.2	10	ug/l							
Benzo (a) anthracene	ND	0.19	1.0	ug/l							
Benzo (a) pyrene	ND	0.39	1.0	ug/l							
Benzo (b) fluoranthene	ND	0.46	1.0	ug/l							
Benzo (g,h,i) perylene	ND	0.42	2.0	ug/l							
Benzo (k) fluoranthene	ND	0.22	1.0	ug/l							
Bis(2-chloroethoxy)methane	ND	0.25	1.0	ug/l							
Bis(2-chloroethyl)ether	ND	0.27	1.0	ug/l							
Bis(2-chloroisopropyl)ether	ND	0.38	1.0	ug/l							
Bis(2-ethylhexyl)phthalate	ND	2.3	5.0	ug/l							
Butyl benzyl phthalate	ND	0.49	1.0	ug/l							
Chrysene	ND	0.19	1.0	ug/l							
Dibenzo (a,h) anthracene	ND	0.15	2.0	ug/l							
Diethyl phthalate	ND	0.35	1.0	ug/l							
Dimethyl phthalate	ND	0.18	1.0	ug/l							
Di-n-butyl phthalate	ND	0.34	1.0	ug/l							

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0824 - EPA 625.1 (Continued)											
Blank (W2H0824-BLK1)					**Prepared: 08/10/22 Analyzed: 08/15/22**						
Di-n-octyl phthalate	ND	0.46	1.0	ug/l							
Fluoranthene	ND	0.35	1.0	ug/l							
Fluorene	ND	0.35	1.0	ug/l							
Hexachlorobenzene	ND	0.49	1.0	ug/l							
Hexachlorobutadiene	ND	0.47	1.0	ug/l							
Hexachlorocyclopentadiene	ND	0.31	5.0	ug/l							
Hexachloroethane	ND	0.50	1.0	ug/l							
Indeno (1,2,3-cd) pyrene	ND	0.25	2.0	ug/l							
Isophorone	ND	0.21	1.0	ug/l							
Naphthalene	ND	0.49	1.0	ug/l							
Nitrobenzene	ND	0.36	1.0	ug/l							
N-Nitrosodimethylamine	ND	0.50	1.0	ug/l							
N-Nitrosodi-n-propylamine	ND	0.26	1.0	ug/l							
N-Nitrosodiphenylamine	ND	0.19	1.0	ug/l							
Pentachlorophenol	ND	0.40	1.0	ug/l							
Phenanthrene	ND	0.32	1.0	ug/l							
Phenol	ND	0.81	1.0	ug/l							
Pyrene	ND	0.25	1.0	ug/l							
Surrogate(s)											
2,4,6-Tribromophenol	*28.8*			*ug/l*	*40.0*		*72*	*25-120*			
2-Fluorobiphenyl	*14.1*			*ug/l*	*20.0*		*71*	*22-120*			
2-Fluorophenol	*21.0*			*ug/l*	*40.0*		*53*	*17-120*			
Nitrobenzene-d5	*16.1*			*ug/l*	*20.0*		*81*	*47-120*			
Phenol-d5	*14.1*			*ug/l*	*40.0*		*35*	*12-120*			
Terphenyl-d14	*19.4*			*ug/l*	*20.0*		*97*	*44-129*			
LCS (W2H0824-BS1)					**Prepared: 08/10/22 Analyzed: 08/15/22**						
1,2,4-Trichlorobenzene	15.7	0.49	1.0	ug/l	20.0		78	57-130			
1,2-Dichlorobenzene	16.4	0.46	1.0	ug/l	20.0		82	57-120			
1,3-Dichlorobenzene	14.9	0.42	1.0	ug/l	20.0		75	55-120			
1,4-Dichlorobenzene	14.8	0.48	1.0	ug/l	20.0		74	55-120			
2,4,6-Trichlorophenol	18.1	0.22	1.0	ug/l	20.0		91	52-129			
2,4-Dichlorophenol	17.7	0.26	1.0	ug/l	20.0		89	53-122			
2,4-Dimethylphenol	16.0	0.76	1.0	ug/l	20.0		80	42-120			
2,4-Dinitrophenol	24.5	1.9	10	ug/l	20.0		123	0.1-173			
2,4-Dinitrotoluene	19.9	0.46	1.0	ug/l	20.0		100	48-127			
2,6-Dinitrotoluene	16.4	0.27	1.0	ug/l	20.0		82	68-137			
2-Chloronaphthalene	16.4	0.45	1.0	ug/l	20.0		82	65-120			
2-Chlorophenol	15.4	0.28	1.0	ug/l	20.0		77	36-120			
2-Methyl-4,6-dinitrophenol	22.1	0.50	5.0	ug/l	20.0		111	53-130			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0824 - EPA 625.1 (Continued)											
LCS (W2H0824-BS1)					**Prepared: 08/10/22 Analyzed: 08/15/22**						
2-Nitrophenol	19.2	0.26	1.0	ug/l	20.0		96	45-167			
3,3'-Dichlorobenzidine	14.6	2.5	5.0	ug/l	20.0		73	8-213			
4-Bromophenyl phenyl ether	18.1	0.36	1.0	ug/l	20.0		91	65-120			
4-Chloro-3-methylphenol	18.1	0.23	1.0	ug/l	20.0		90	41-128			
4-Chlorophenyl phenyl ether	16.2	0.41	1.0	ug/l	20.0		81	38-145			
4-Nitrophenol	8.84	1.2	5.0	ug/l	20.0		44	13-129			
Acenaphthene	17.9	0.38	1.0	ug/l	20.0		90	60-132			
Acenaphthylene	17.4	0.35	1.0	ug/l	20.0		87	54-126			
Anthracene	19.6	0.41	1.0	ug/l	20.0		98	43-120			
Benzidine	3.30	3.2	10	ug/l	20.0		16	0.1-200			J
Benzo (a) anthracene	22.0	0.19	1.0	ug/l	20.0		110	42-133			
Benzo (a) pyrene	24.8	0.39	1.0	ug/l	20.0		124	32-148			
Benzo (b) fluoranthene	24.5	0.46	1.0	ug/l	20.0		123	42-140			AN-IP
Benzo (g,h,i) perylene	24.4	0.42	2.0	ug/l	20.0		122	0.1-195			
Benzo (k) fluoranthene	21.7	0.22	1.0	ug/l	20.0		108	25-146			AN-IP
Bis(2-chloroethoxy)methane	16.0	0.25	1.0	ug/l	20.0		80	49-165			
Bis(2-chloroethyl)ether	15.0	0.27	1.0	ug/l	20.0		75	43-126			
Bis(2-chloroisopropyl)ether	16.8	0.38	1.0	ug/l	20.0		84	63-139			
Bis(2-ethylhexyl)phthalate	25.6	2.3	5.0	ug/l	20.0		128	29-137			
Butyl benzyl phthalate	24.3	0.49	1.0	ug/l	20.0		121	0.1-140			
Chrysene	19.2	0.19	1.0	ug/l	20.0		96	44-140			
Dibenzo (a,h) anthracene	22.8	0.15	2.0	ug/l	20.0		114	0.1-200			
Diethyl phthalate	17.6	0.35	1.0	ug/l	20.0		88	0.1-120			
Dimethyl phthalate	17.0	0.18	1.0	ug/l	20.0		85	0.1-120			
Di-n-butyl phthalate	21.0	0.34	1.0	ug/l	20.0		105	8-120			
Di-n-octyl phthalate	23.0	0.46	1.0	ug/l	20.0		115	19-132			
Fluoranthene	29.9	0.35	1.0	ug/l	20.0		149	43-121			Q-08
Fluorene	18.2	0.35	1.0	ug/l	20.0		91	70-120			
Hexachlorobenzene	17.9	0.49	1.0	ug/l	20.0		90	8-142			
Hexachlorobutadiene	17.2	0.47	1.0	ug/l	20.0		86	38-120			
Hexachlorocyclopentadiene	11.8	0.31	5.0	ug/l	20.0		59	10-120			
Hexachloroethane	15.7	0.50	1.0	ug/l	20.0		79	55-120			
Indeno (1,2,3-cd) pyrene	22.5	0.25	2.0	ug/l	20.0		112	0.1-151			
Isophorone	14.2	0.21	1.0	ug/l	20.0		71	47-180			
Naphthalene	16.7	0.49	1.0	ug/l	20.0		84	36-120			
Nitrobenzene	16.6	0.36	1.0	ug/l	20.0		83	54-158			
N-Nitrosodimethylamine	10.6	0.50	1.0	ug/l	20.0		53	22-120			
N-Nitrosodi-n-propylamine	17.9	0.26	1.0	ug/l	20.0		90	14-198			
N-Nitrosodiphenylamine	14.8	0.19	1.0	ug/l	20.0		74	47-120			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0824 - EPA 625.1 (Continued)											
LCS (W2H0824-BS1)					**Prepared: 08/10/22 Analyzed: 08/15/22**						
Pentachlorophenol	19.0	0.40	1.0	ug/l	20.0		95	41-120			
Phenanthrene	19.1	0.32	1.0	ug/l	20.0		96	65-120			
Phenol	6.59	0.81	1.0	ug/l	20.0		33	17-120			
Pyrene	22.1	0.25	1.0	ug/l	20.0		111	70-120			
Surrogate(s)											
2,4,6-Tribromophenol	*35.5*			*ug/l*	*40.0*		*89*	*25-120*			
2-Fluorobiphenyl	*16.5*			*ug/l*	*20.0*		*82*	*22-120*			
2-Fluorophenol	*21.5*			*ug/l*	*40.0*		*54*	*17-120*			
Nitrobenzene-d5	*17.7*			*ug/l*	*20.0*		*88*	*47-120*			
Phenol-d5	*14.5*			*ug/l*	*40.0*		*36*	*12-120*			
Terphenyl-d14	*20.8*			*ug/l*	*20.0*		*104*	*44-129*			
Matrix Spike (W2H0824-MS1)	**Source: 1G28007-01**				**Prepared: 08/10/22 Analyzed: 08/15/22**						
1,2,4-Trichlorobenzene	15.1	0.49	1.0	ug/l	20.2	ND	75	44-142			
1,2-Dichlorobenzene	15.4	0.46	1.0	ug/l	20.2	ND	76	51-120			
1,3-Dichlorobenzene	14.4	0.42	1.0	ug/l	20.2	ND	71	37-120			
1,4-Dichlorobenzene	14.1	0.48	1.0	ug/l	20.2	ND	70	39-120			
2,4,6-Trichlorophenol	17.7	0.22	1.0	ug/l	20.2	ND	88	37-144			
2,4-Dichlorophenol	17.0	0.26	1.0	ug/l	20.2	ND	84	39-135			
2,4-Dimethylphenol	15.3	0.76	1.0	ug/l	20.2	ND	76	32-120			
2,4-Dinitrophenol	25.8	1.9	10	ug/l	20.2	ND	128	0.1-191			
2,4-Dinitrotoluene	20.6	0.46	1.0	ug/l	20.2	ND	102	39-139			
2,6-Dinitrotoluene	17.0	0.27	1.0	ug/l	20.2	ND	84	50-158			
2-Chloronaphthalene	16.0	0.45	1.0	ug/l	20.2	ND	80	60-120			
2-Chlorophenol	15.0	0.28	1.0	ug/l	20.2	ND	75	23-134			
2-Methyl-4,6-dinitrophenol	23.2	0.50	5.0	ug/l	20.2	ND	115	0.1-181			
2-Nitrophenol	18.7	0.26	1.0	ug/l	20.2	ND	93	29-182			
3,3'-Dichlorobenzidine	11.6	2.5	5.0	ug/l	20.2	ND	57	0.1-262			
4-Bromophenyl phenyl ether	18.1	0.36	1.0	ug/l	20.2	ND	90	53-127			
4-Chloro-3-methylphenol	18.2	0.23	1.0	ug/l	20.2	ND	90	22-147			
4-Chlorophenyl phenyl ether	16.7	0.41	1.0	ug/l	20.2	ND	83	25-158			
4-Nitrophenol	9.23	1.2	5.0	ug/l	20.2	ND	46	0.1-132			
Acenaphthene	18.2	0.38	1.0	ug/l	20.2	ND	90	47-145			
Acenaphthylene	15.8	0.35	1.0	ug/l	20.2	ND	78	33-145			
Anthracene	19.3	0.41	1.0	ug/l	20.2	ND	96	27-133			
Benzidine	0.477	0.0	10	ug/l	20.2	ND	2	0.1-200			J
Benzo (a) anthracene	21.8	0.19	1.0	ug/l	20.2	ND	108	33-143			
Benzo (a) pyrene	23.3	0.39	1.0	ug/l	20.2	ND	115	17-163			
Benzo (b) fluoranthene	24.3	0.46	1.0	ug/l	20.2	ND	121	24-159			AN-IP
Benzo (g,h,i) perylene	25.1	0.42	2.0	ug/l	20.2	ND	125	0.1-219			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0824 - EPA 625.1 (Continued)											
Matrix Spike (W2H0824-MS1)	**Source: 1G28007-01**				**Prepared: 08/10/22**	**Analyzed: 08/15/22**					
Benzo (k) fluoranthene	20.9	0.22	1.0	ug/l	20.2	ND	104	11-162			AN-IP
Bis(2-chloroethoxy)methane	15.7	0.25	1.0	ug/l	20.2	ND	78	33-184			
Bis(2-chloroethyl)ether	14.7	0.27	1.0	ug/l	20.2	ND	73	12-158			
Bis(2-chloroisopropyl)ether	16.2	0.38	1.0	ug/l	20.2	ND	80	36-166			
Bis(2-ethylhexyl)phthalate	55.6	2.3	5.0	ug/l	20.2	ND	276	8-158			MS-01
Butyl benzyl phthalate	24.7	0.49	1.0	ug/l	20.2	ND	123	0.1-152			
Chrysene	18.9	0.19	1.0	ug/l	20.2	ND	94	17-168			
Dibenzo (a,h) anthracene	23.4	0.15	2.0	ug/l	20.2	ND	116	0.1-227			
Diethyl phthalate	18.1	0.35	1.0	ug/l	20.2	ND	90	0.1-120			
Dimethyl phthalate	17.1	0.18	1.0	ug/l	20.2	ND	85	0.1-120			
Di-n-butyl phthalate	21.9	0.34	1.0	ug/l	20.2	ND	109	1-120			
Di-n-octyl phthalate	23.2	0.46	1.0	ug/l	20.2	ND	115	4-146			
Fluoranthene	30.1	0.35	1.0	ug/l	20.2	ND	149	26-137			Q-08
Fluorene	18.4	0.35	1.0	ug/l	20.2	ND	91	59-121			
Hexachlorobenzene	18.1	0.49	1.0	ug/l	20.2	ND	90	0.1-152			
Hexachlorobutadiene	16.4	0.47	1.0	ug/l	20.2	ND	81	24-120			
Hexachlorocyclopentadiene	12.3	0.31	5.0	ug/l	20.2	ND	61	10-120			
Hexachloroethane	14.8	0.50	1.0	ug/l	20.2	ND	73	40-120			
Indeno (1,2,3-cd) pyrene	23.1	0.25	2.0	ug/l	20.2	ND	115	0.1-171			
Isophorone	14.2	0.21	1.0	ug/l	20.2	ND	70	21-196			
Naphthalene	16.0	0.49	1.0	ug/l	20.2	ND	79	21-133			
Nitrobenzene	16.3	0.36	1.0	ug/l	20.2	ND	81	35-180			
N-Nitrosodimethylamine	10.4	0.50	1.0	ug/l	20.2	ND	51	18-120			
N-Nitrosodi-n-propylamine	17.2	0.26	1.0	ug/l	20.2	ND	85	0.1-230			
N-Nitrosodiphenylamine	10.7	0.19	1.0	ug/l	20.2	ND	53	49-120			
Pentachlorophenol	20.7	0.40	1.0	ug/l	20.2	ND	103	0.1-133			
Phenanthrene	19.7	0.32	1.0	ug/l	20.2	ND	98	54-120			
Phenol	6.42	0.81	1.0	ug/l	20.2	ND	32	5-120			
Pyrene	21.7	0.25	1.0	ug/l	20.2	ND	108	52-120			
Surrogate(s)											
2,4,6-Tribromophenol	*35.8*			*ug/l*	*40.3*		*89*	*25-120*			
2-Fluorobiphenyl	*16.3*			*ug/l*	*20.2*		*81*	*22-120*			
2-Fluorophenol	*20.5*			*ug/l*	*40.3*		*51*	*17-120*			
Nitrobenzene-d5	*17.5*			*ug/l*	*20.2*		*87*	*47-120*			
Phenol-d5	*13.5*			*ug/l*	*40.3*		*33*	*12-120*			
Terphenyl-d14	*21.2*			*ug/l*	*20.2*		*105*	*44-129*			
Matrix Spike Dup (W2H0824-MSD1)	**Source: 1G28007-01**				**Prepared: 08/10/22**	**Analyzed: 08/15/22**					
1,2,4-Trichlorobenzene	7.43	0.49	1.0	ug/l	20.0	ND	37	44-142	68	30	MS-01, R-02

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0824 - EPA 625.1 (Continued)											
Matrix Spike Dup (W2H0824-MSD1)	**Source: 1G28007-01**				**Prepared: 08/10/22**	**Analyzed: 08/15/22**					
1,2-Dichlorobenzene	5.61	0.46	1.0	ug/l	20.0	ND	28	51-120	93	30	MS-01, R-02
1,3-Dichlorobenzene	5.19	0.42	1.0	ug/l	20.0	ND	26	37-120	94	30	MS-01, R-02
1,4-Dichlorobenzene	4.95	0.48	1.0	ug/l	20.0	ND	25	39-120	96	30	MS-01, R-02
2,4,6-Trichlorophenol	10.8	0.22	1.0	ug/l	20.0	ND	54	37-144	49	30	R-02
2,4-Dichlorophenol	8.75	0.26	1.0	ug/l	20.0	ND	44	39-135	64	30	R-02
2,4-Dimethylphenol	8.01	0.76	1.0	ug/l	20.0	ND	40	32-120	62	30	R-02
2,4-Dinitrophenol	20.5	1.9	10	ug/l	20.0	ND	102	0.1-191	23	30	
2,4-Dinitrotoluene	15.5	0.46	1.0	ug/l	20.0	ND	77	39-139	28	30	
2,6-Dinitrotoluene	12.5	0.27	1.0	ug/l	20.0	ND	63	50-158	30	30	
2-Chloronaphthalene	8.68	0.45	1.0	ug/l	20.0	ND	43	60-120	60	30	MS-01, R-02
2-Chlorophenol	6.43	0.28	1.0	ug/l	20.0	ND	32	23-134	80	30	R-02
2-Methyl-4,6-dinitrophenol	18.6	0.50	5.0	ug/l	20.0	ND	93	0.1-181	22	30	
2-Nitrophenol	8.81	0.26	1.0	ug/l	20.0	ND	44	29-182	72	30	R-02
3,3'-Dichlorobenzidine	10.7	2.5	5.0	ug/l	20.0	ND	54	0.1-262	8	30	
4-Bromophenyl phenyl ether	13.6	0.36	1.0	ug/l	20.0	ND	68	53-127	28	30	
4-Chloro-3-methylphenol	11.2	0.23	1.0	ug/l	20.0	ND	56	22-147	48	30	R-02
4-Chlorophenyl phenyl ether	11.6	0.41	1.0	ug/l	20.0	ND	58	25-158	36	30	R-02
4-Nitrophenol	7.49	1.2	5.0	ug/l	20.0	ND	37	0.1-132	21	30	
Acenaphthene	11.4	0.38	1.0	ug/l	20.0	ND	57	47-145	46	30	R-02
Acenaphthylene	9.09	0.35	1.0	ug/l	20.0	ND	45	33-145	54	30	R-02
Anthracene	13.2	0.41	1.0	ug/l	20.0	ND	66	27-133	38	30	R-02
Benzidine	0.474	0.0	10	ug/l	20.0	ND	2	0.1-200	200	30	J
Benzo (a) anthracene	18.9	0.19	1.0	ug/l	20.0	ND	94	33-143	14	30	
Benzo (a) pyrene	21.7	0.39	1.0	ug/l	20.0	ND	109	17-163	7	30	
Benzo (b) fluoranthene	22.3	0.46	1.0	ug/l	20.0	ND	111	24-159	9	30	AN-IP
Benzo (g,h,i) perylene	21.4	0.42	2.0	ug/l	20.0	ND	107	0.1-219	16	30	
Benzo (k) fluoranthene	19.4	0.22	1.0	ug/l	20.0	ND	97	11-162	7	30	AN-IP
Bis(2-chloroethoxy)methane	8.29	0.25	1.0	ug/l	20.0	ND	41	33-184	62	30	R-02
Bis(2-chloroethyl)ether	6.21	0.27	1.0	ug/l	20.0	ND	31	12-158	81	30	R-02
Bis(2-chloroisopropyl)ether	7.65	0.38	1.0	ug/l	20.0	ND	38	36-166	72	30	R-02
Bis(2-ethylhexyl)phthalate	24.6	2.3	5.0	ug/l	20.0	ND	123	8-158	77	30	R-02
Butyl benzyl phthalate	21.3	0.49	1.0	ug/l	20.0	ND	106	0.1-152	15	30	
Chrysene	17.3	0.19	1.0	ug/l	20.0	ND	86	17-168	9	30	
Dibenzo (a,h) anthracene	20.1	0.15	2.0	ug/l	20.0	ND	100	0.1-227	15	30	
Diethyl phthalate	13.9	0.35	1.0	ug/l	20.0	ND	69	0.1-120	26	30	
Dimethyl phthalate	11.8	0.18	1.0	ug/l	20.0	ND	59	0.1-120	37	30	R-02
Di-n-butyl phthalate	17.4	0.34	1.0	ug/l	20.0	ND	87	1-120	23	30	

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0824 - EPA 625.1 (Continued)											
Matrix Spike Dup (W2H0824-MSD1)	**Source: 1G28007-01**				**Prepared: 08/10/22**	**Analyzed: 08/15/22**					
Di-n-octyl phthalate	21.2	0.46	1.0	ug/l	20.0	ND	106	4-146	9	30	
Fluoranthene	23.5	0.35	1.0	ug/l	20.0	ND	117	26-137	25	30	
Fluorene	12.9	0.35	1.0	ug/l	20.0	ND	64	59-121	36	30	R-02
Hexachlorobenzene	14.1	0.49	1.0	ug/l	20.0	ND	71	0.1-152	25	30	
Hexachlorobutadiene	7.62	0.47	1.0	ug/l	20.0	ND	38	24-120	73	30	R-02
Hexachlorocyclopentadiene	5.37	0.31	5.0	ug/l	20.0	ND	27	10-120	78	30	R-02
Hexachloroethane	5.53	0.50	1.0	ug/l	20.0	ND	28	40-120	91	30	MS-01, R-02
Indeno (1,2,3-cd) pyrene	19.7	0.25	2.0	ug/l	20.0	ND	98	0.1-171	16	30	
Isophorone	7.69	0.21	1.0	ug/l	20.0	ND	38	21-196	59	30	R-02
Naphthalene	7.49	0.49	1.0	ug/l	20.0	ND	37	21-133	73	30	R-02
Nitrobenzene	7.89	0.36	1.0	ug/l	20.0	ND	39	35-180	69	30	R-02
N-Nitrosodimethylamine	3.20	0.50	1.0	ug/l	20.0	ND	16	18-120	106	30	MS-01, R-02
N-Nitrosodi-n-propylamine	9.09	0.26	1.0	ug/l	20.0	ND	45	0.1-230	62	30	R-02
N-Nitrosodiphenylamine	6.83	0.19	1.0	ug/l	20.0	ND	34	49-120	44	30	MS-01, R-02
Pentachlorophenol	15.2	0.40	1.0	ug/l	20.0	ND	76	0.1-133	30	30	
Phenanthrene	14.7	0.32	1.0	ug/l	20.0	ND	73	54-120	29	30	
Phenol	2.89	0.81	1.0	ug/l	20.0	ND	14	5-120	76	30	R-02
Pyrene	18.1	0.25	1.0	ug/l	20.0	ND	90	52-120	18	30	
Surrogate(s)											
2,4,6-Tribromophenol	*27.4*			*ug/l*	*40.0*		*68*	*25-120*			
2-Fluorobiphenyl	*8.70*			*ug/l*	*20.0*		*43*	*22-120*			
2-Fluorophenol	*6.67*			*ug/l*	*40.0*		*17*	*17-120*			
Nitrobenzene-d5	*8.27*			*ug/l*	*20.0*		*41*	*47-120*			*S-GC*
Phenol-d5	*6.15*			*ug/l*	*40.0*		*15*	*12-120*			
Terphenyl-d14	*18.6*			*ug/l*	*20.0*		*93*	*44-129*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Anions by IC, EPA Method 300.1

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1193 - EPA 300.1											
Blank (W2H1193-BLK1)					**Prepared & Analyzed: 08/15/22**						
Bromate	ND	1.4	5.0	ug/l							
Chlorite	ND	2.2	10	ug/l							
Surrogate(s)											
Dichloroacetate	*529*			*ug/l*	*500*		*106*	*90-115*			
LCS (W2H1193-BS1)					**Prepared & Analyzed: 08/15/22**						
Bromate	98.6	1.4	5.0	ug/l	100		99	85-115			
Chlorite	99.6	2.2	10	ug/l	100		100	85-115			
Surrogate(s)											
Dichloroacetate	*521*			*ug/l*	*500*		*104*	*90-115*			
Matrix Spike (W2H1193-MS1)	**Source: 2H03055-01**				**Prepared & Analyzed: 08/15/22**						
Bromate	103	1.4	5.0	ug/l	100	ND	103	64-133			
Chlorite	96.7	2.2	10	ug/l	100	ND	97	78-129			
Surrogate(s)											
Dichloroacetate	*545*			*ug/l*	*500*		*109*	*90-115*			
Matrix Spike (W2H1193-MS2)	**Source: 2H05020-01**				**Prepared & Analyzed: 08/15/22**						
Bromate	97.8	1.4	5.0	ug/l	100	ND	98	64-133			
Chlorite	98.0	2.2	10	ug/l	100	ND	98	78-129			
Surrogate(s)											
Dichloroacetate	*521*			*ug/l*	*500*		*104*	*90-115*			
Matrix Spike Dup (W2H1193-MSD1)	**Source: 2H03055-01**				**Prepared & Analyzed: 08/15/22**						
Bromate	106	1.4	5.0	ug/l	100	ND	106	64-133	3	20	
Chlorite	97.8	2.2	10	ug/l	100	ND	98	78-129	1	20	
Surrogate(s)											
Dichloroacetate	*541*			*ug/l*	*500*		*108*	*90-115*			
Matrix Spike Dup (W2H1193-MSD2)	**Source: 2H05020-01**				**Prepared & Analyzed: 08/15/22**						
Bromate	101	1.4	5.0	ug/l	100	ND	101	64-133	3	20	
Chlorite	99.4	2.2	10	ug/l	100	ND	99	78-129	1	20	
Surrogate(s)											
Dichloroacetate	*534*			*ug/l*	*500*		*107*	*90-115*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Carbamates and Urea Pesticides

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1673 - EPA 531.2											
Blank (W2H1673-BLK1)					**Prepared: 08/22/22 Analyzed: 08/24/22**						
3-Hydroxycarbofuran	ND	0.82	2.0	ug/l							
Aldicarb	ND	0.58	2.0	ug/l							
Aldicarb sulfone	ND	0.73	2.0	ug/l							
Aldicarb sulfoxide	ND	1.0	2.0	ug/l							
Carbaryl	ND	1.0	2.0	ug/l							
Carbofuran	ND	1.0	2.0	ug/l							
Methiocarb	ND	1.0	2.0	ug/l							
Methomyl	ND	1.3	2.0	ug/l							
Oxamyl	ND	1.1	2.0	ug/l							
Propoxur (Baygon)	ND	1.4	2.0	ug/l							
Surrogate(s)											
BDMC	*10.1*			*ug/l*	*10.0*		*101*	*70-130*			
LCS (W2H1673-BS1)					**Prepared: 08/22/22 Analyzed: 08/24/22**						
3-Hydroxycarbofuran	14.8	0.82	2.0	ug/l	10.0		148	70-130			Q-08
Aldicarb	15.1	0.58	2.0	ug/l	10.0		151	70-130			Q-08
Aldicarb sulfone	15.9	0.73	2.0	ug/l	10.0		159	70-130			Q-08
Aldicarb sulfoxide	17.6	1.0	2.0	ug/l	10.0		176	70-130			Q-08
Carbaryl	13.3	1.0	2.0	ug/l	10.0		133	70-130			Q-08
Carbofuran	15.2	1.0	2.0	ug/l	10.0		152	70-130			Q-08
Methiocarb	14.0	1.0	2.0	ug/l	10.0		140	70-130			Q-08
Methomyl	17.4	1.3	2.0	ug/l	10.0		174	70-130			Q-08
Oxamyl	17.0	1.1	2.0	ug/l	10.0		170	70-130			Q-08
Propoxur (Baygon)	16.8	1.4	2.0	ug/l	10.0		168	70-130			Q-08
Surrogate(s)											
BDMC	*10.9*			*ug/l*	*10.0*		*109*	*70-130*			
Matrix Spike (W2H1673-MS1)	**Source: 1G28007-01**				**Prepared: 08/22/22 Analyzed: 08/24/22**						
3-Hydroxycarbofuran	11.1	0.82	2.0	ug/l	10.0	ND	111	70-130			
Aldicarb	12.1	0.58	2.0	ug/l	10.0	ND	121	70-130			
Aldicarb sulfone	14.2	0.73	2.0	ug/l	10.0	ND	142	70-130			Q-08
Aldicarb sulfoxide	14.0	1.0	2.0	ug/l	10.0	ND	140	70-130			Q-08
Carbaryl	10.8	1.0	2.0	ug/l	10.0	ND	108	70-130			
Carbofuran	19.6	1.0	2.0	ug/l	10.0	ND	196	70-130			Q-08
Methiocarb	11.4	1.0	2.0	ug/l	10.0	ND	114	70-130			
Methomyl	13.7	1.3	2.0	ug/l	10.0	ND	137	70-130			Q-08
Oxamyl	13.5	1.1	2.0	ug/l	10.0	ND	135	70-130			Q-08
Propoxur (Baygon)	12.3	1.4	2.0	ug/l	10.0	ND	123	70-130			
Surrogate(s)											
BDMC	*10.2*			*ug/l*	*10.0*		*102*	*70-130*			
Matrix Spike Dup (W2H1673-MSD1)	**Source: 1G28007-01**				**Prepared: 08/22/22 Analyzed: 08/24/22**						
3-Hydroxycarbofuran	11.0	0.82	2.0	ug/l	10.0	ND	110	70-130	2	30	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Carbamates and Urea Pesticides (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1673 - EPA 531.2 (Continued)											
Matrix Spike Dup (W2H1673-MSD1)	**Source: 1G28007-01**				**Prepared: 08/22/22**	**Analyzed: 08/24/22**					
Aldicarb	12.7	0.58	2.0	ug/l	10.0	ND	127	70-130	5	30	
Aldicarb sulfone	13.3	0.73	2.0	ug/l	10.0	ND	133	70-130	6	30	Q-08
Aldicarb sulfoxide	14.5	1.0	2.0	ug/l	10.0	ND	145	70-130	3	30	Q-08
Carbaryl	10.5	1.0	2.0	ug/l	10.0	ND	105	70-130	3	30	
Carbofuran	19.0	1.0	2.0	ug/l	10.0	ND	190	70-130	3	30	Q-08
Methiocarb	11.3	1.0	2.0	ug/l	10.0	ND	113	70-130	0.8	30	
Methomyl	14.3	1.3	2.0	ug/l	10.0	ND	143	70-130	4	30	Q-08
Oxamyl	13.7	1.1	2.0	ug/l	10.0	ND	137	70-130	1	30	Q-08
Propoxur (Baygon)	12.5	1.4	2.0	ug/l	10.0	ND	125	70-130	1	30	
Surrogate(s)											
BDMC	*10.2*			*ug/l*	*10.0*		*102*	*70-130*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Chlorinated Acids Herbicides by GC/ECD

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1051 - EPA 515.4											
Blank (W2H1051-BLK1)					**Prepared: 08/12/22 Analyzed: 08/16/22**						
2,4,5-T	ND	0.030	0.20	ug/l							
2,4,5-TP (Silvex)	ND	0.026	0.20	ug/l							
2,4-D	ND	0.14	0.40	ug/l							
2,4-DB	ND	0.19	2.0	ug/l							
3,5-Dichlorobenzoic acid	ND	0.12	1.0	ug/l							
Acifluorfen	ND	0.030	0.40	ug/l							
Bentazon	ND	0.23	2.0	ug/l							
Dalapon	ND	0.11	0.40	ug/l							
DCPA	ND	0.029	0.10	ug/l							
Dicamba	ND	0.049	0.60	ug/l							
Dichloroprop	ND	0.12	0.30	ug/l							
Dinoseb	ND	0.033	0.40	ug/l							
Pentachlorophenol	ND	0.046	0.20	ug/l							
Picloram	ND	0.050	0.60	ug/l							
Surrogate(s)											
2,4-DCAA	*9.22*			*ug/l*	*10.0*		*92*	*70-130*			
LCS (W2H1051-BS1)					**Prepared: 08/12/22 Analyzed: 08/16/22**						
2,4,5-T	4.18	0.030	0.20	ug/l	4.00		105	70-130			
2,4,5-TP (Silvex)	4.16	0.026	0.20	ug/l	4.00		104	70-130			
2,4-D	8.32	0.14	0.40	ug/l	8.00		104	70-130			
2,4-DB	17.0	0.19	2.0	ug/l	16.0		106	70-130			
3,5-Dichlorobenzoic acid	8.26	0.12	1.0	ug/l	8.00		103	70-130			
Acifluorfen	4.19	0.030	0.40	ug/l	4.00		105	70-130			
Bentazon	15.9	0.23	2.0	ug/l	16.0		99	70-130			
Dalapon	7.98	0.11	0.40	ug/l	8.00		100	70-130			
DCPA	4.07	0.029	0.10	ug/l	4.00		102	70-130			
Dicamba	8.32	0.049	0.60	ug/l	8.00		104	70-130			
Dichloroprop	8.41	0.12	0.30	ug/l	8.00		105	70-130			
Dinoseb	4.18	0.033	0.40	ug/l	4.00		105	70-130			
Pentachlorophenol	4.07	0.046	0.20	ug/l	4.00		102	70-130			
Picloram	4.02	0.050	0.60	ug/l	4.00		101	70-130			
Surrogate(s)											
2,4-DCAA	*9.98*			*ug/l*	*10.0*		*100*	*70-130*			
Matrix Spike (W2H1051-MS1)	**Source: 2H04048-01**				**Prepared: 08/12/22 Analyzed: 08/16/22**						
2,4,5-T	4.21	0.030	0.20	ug/l	4.00	ND	105	70-130			
2,4,5-TP (Silvex)	4.13	0.026	0.20	ug/l	4.00	ND	103	70-130			
2,4-D	8.32	0.14	0.40	ug/l	8.00	ND	104	70-130			
2,4-DB	16.9	0.19	2.0	ug/l	16.0	ND	106	70-130			
3,5-Dichlorobenzoic acid	8.33	0.12	1.0	ug/l	8.00	ND	104	70-130			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Chlorinated Acids Herbicides by GC/ECD (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1051 - EPA 515.4 (Continued)											
Matrix Spike (W2H1051-MS1)	**Source: 2H04048-01**				**Prepared: 08/12/22**	**Analyzed: 08/16/22**					
Acifluorfen	4.28	0.030	0.40	ug/l	4.00	ND	107	70-130			
Bentazon	16.1	0.23	2.0	ug/l	16.0	ND	100	70-130			
Dalapon	7.95	0.11	0.40	ug/l	8.00	ND	99	70-130			
DCPA	4.24	0.029	0.10	ug/l	4.00	ND	106	70-130			
Dicamba	8.34	0.049	0.60	ug/l	8.00	ND	104	70-130			
Dichloroprop	8.49	0.12	0.30	ug/l	8.00	ND	106	70-130			
Dinoseb	4.16	0.033	0.40	ug/l	4.00	ND	104	70-130			
Pentachlorophenol	4.10	0.046	0.20	ug/l	4.00	ND	102	70-130			
Picloram	4.07	0.050	0.60	ug/l	4.00	ND	102	70-130			
Surrogate(s)											
2,4-DCAA	*10.1*			*ug/l*	*10.0*		*101*	*70-130*			
Matrix Spike Dup (W2H1051-MSD1)	**Source: 2H04048-01**				**Prepared: 08/12/22**	**Analyzed: 08/16/22**					
2,4,5-T	4.18	0.030	0.20	ug/l	4.00	ND	105	70-130	0.7	30	
2,4,5-TP (Silvex)	4.05	0.026	0.20	ug/l	4.00	ND	101	70-130	2	30	
2,4-D	8.32	0.14	0.40	ug/l	8.00	ND	104	70-130	0.03	30	
2,4-DB	16.6	0.19	2.0	ug/l	16.0	ND	104	70-130	2	30	
3,5-Dichlorobenzoic acid	8.41	0.12	1.0	ug/l	8.00	ND	105	70-130	0.9	30	
Acifluorfen	4.28	0.030	0.40	ug/l	4.00	ND	107	70-130	0.06	30	
Bentazon	15.9	0.23	2.0	ug/l	16.0	ND	99	70-130	1	30	
Dalapon	8.24	0.11	0.40	ug/l	8.00	ND	103	70-130	4	30	
DCPA	4.17	0.029	0.10	ug/l	4.00	ND	104	70-130	2	30	
Dicamba	8.26	0.049	0.60	ug/l	8.00	ND	103	70-130	0.9	30	
Dichloroprop	8.43	0.12	0.30	ug/l	8.00	ND	105	70-130	0.7	30	
Dinoseb	4.07	0.033	0.40	ug/l	4.00	ND	102	70-130	2	30	
Pentachlorophenol	4.04	0.046	0.20	ug/l	4.00	ND	101	70-130	1	30	
Picloram	4.11	0.050	0.60	ug/l	4.00	ND	103	70-130	1	30	
Surrogate(s)											
2,4-DCAA	*9.87*			*ug/l*	*10.0*		*99*	*70-130*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1280 - EPA 508.1											
Blank (W2H1280-BLK1)					**Prepared: 08/16/22 Analyzed: 08/19/22**						
4,4´-DDD	ND	0.0030	0.010	ug/l							
4,4´-DDE	ND	0.0018	0.010	ug/l							
4,4´-DDT	ND	0.0030	0.010	ug/l							
Aldrin	ND	0.0040	0.010	ug/l							
alpha-BHC	ND	0.0019	0.010	ug/l							
Aroclor 1016	ND	0.016	0.10	ug/l							
Aroclor 1221	ND	0.044	0.10	ug/l							
Aroclor 1232	ND	0.010	0.10	ug/l							
Aroclor 1242	ND	0.074	0.10	ug/l							
Aroclor 1248	ND	0.094	0.10	ug/l							
Aroclor 1254	ND	0.087	0.10	ug/l							
Aroclor 1260	ND	0.038	0.10	ug/l							
beta-BHC	ND	0.0024	0.010	ug/l							
Chlordane (tech)	ND	0.067	0.10	ug/l							
Chlorothalonil	ND	0.0015	0.050	ug/l							
delta-BHC	ND	0.0030	0.010	ug/l							
Dieldrin	ND	0.0030	0.010	ug/l							
Endosulfan I	ND	0.0030	0.010	ug/l							
Endosulfan II	ND	0.0016	0.010	ug/l							
Endosulfan sulfate	ND	0.0030	0.010	ug/l							
Endrin	ND	0.0013	0.010	ug/l							
Endrin aldehyde	ND	0.0040	0.010	ug/l							
gamma-BHC (Lindane)	ND	0.0030	0.010	ug/l							
Heptachlor	ND	0.0017	0.010	ug/l							
Heptachlor epoxide	ND	0.0019	0.010	ug/l							
Hexachlorobenzene	ND	0.0040	0.050	ug/l							
Hexachlorocyclopentadiene	ND	0.0065	0.050	ug/l							
Methoxychlor	ND	0.0030	0.010	ug/l							
PCBs, Total	ND		0.50	ug/l							
Propachlor	ND	0.020	0.050	ug/l							
Toxaphene	ND	0.37	0.50	ug/l							
Trifluralin	ND	0.0020	0.010	ug/l							
Surrogate(s)											
4,4-Dibromobiphenyl	*0.0871*			*ug/l*	*0.100*		*87*	*70-130*			
Blank (W2H1280-BLK2)					**Prepared: 08/16/22 Analyzed: 08/23/22**						
4,4´-DDD	ND	0.0030	0.010	ug/l							QC-2
4,4´-DDE	ND	0.0018	0.010	ug/l							QC-2
4,4´-DDT	ND	0.0030	0.010	ug/l							QC-2
Aldrin	ND	0.0040	0.010	ug/l							QC-2

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1280 - EPA 508.1 (Continued)											
Blank (W2H1280-BLK2)					**Prepared: 08/16/22 Analyzed: 08/23/22**						
alpha-BHC	ND	0.0019	0.010	ug/l							QC-2
Aroclor 1016	ND	0.016	0.10	ug/l							QC-2
Aroclor 1221	ND	0.044	0.10	ug/l							QC-2
Aroclor 1232	ND	0.010	0.10	ug/l							QC-2
Aroclor 1242	ND	0.074	0.10	ug/l							QC-2
Aroclor 1248	ND	0.094	0.10	ug/l							QC-2
Aroclor 1254	ND	0.087	0.10	ug/l							QC-2
Aroclor 1260	ND	0.038	0.10	ug/l							QC-2
beta-BHC	ND	0.0024	0.010	ug/l							QC-2
Chlordane (tech)	ND	0.067	0.10	ug/l							QC-2
Chlorothalonil	ND	0.0015	0.050	ug/l							QC-2
delta-BHC	ND	0.0030	0.010	ug/l							QC-2
Dieldrin	ND	0.0030	0.010	ug/l							QC-2
Endosulfan I	ND	0.0030	0.010	ug/l							QC-2
Endosulfan II	ND	0.0016	0.010	ug/l							QC-2
Endosulfan sulfate	ND	0.0030	0.010	ug/l							QC-2
Endrin	ND	0.0013	0.010	ug/l							QC-2
Endrin aldehyde	ND	0.0040	0.010	ug/l							QC-2
gamma-BHC (Lindane)	ND	0.0030	0.010	ug/l							QC-2
Heptachlor	ND	0.0017	0.010	ug/l							QC-2
Heptachlor epoxide	ND	0.0019	0.010	ug/l							QC-2
Hexachlorobenzene	ND	0.0040	0.050	ug/l							QC-2
Hexachlorocyclopentadiene	ND	0.0065	0.050	ug/l							QC-2
Methoxychlor	ND	0.0030	0.010	ug/l							QC-2
PCBs, Total	ND		0.50	ug/l							QC-2
Propachlor	ND	0.020	0.050	ug/l							QC-2
Toxaphene	ND	0.37	0.50	ug/l							QC-2
Trifluralin	ND	0.0020	0.010	ug/l							QC-2
Surrogate(s)											
4,4-Dibromobiphenyl	*0.0875*			*ug/l*	*0.100*		*87*	*70-130*			QC-2
LCS (W2H1280-BS1)					**Prepared: 08/16/22 Analyzed: 08/19/22**						
4,4´-DDD	0.0961	0.0030	0.010	ug/l	0.100		96	70-130			
4,4´-DDE	0.0799	0.0018	0.010	ug/l	0.100		80	70-130			
4,4´-DDT	0.0902	0.0030	0.010	ug/l	0.100		90	70-130			
Aldrin	0.0717	0.0040	0.010	ug/l	0.100		72	50-130			
alpha-BHC	0.100	0.0019	0.010	ug/l	0.100		100	70-130			
beta-BHC	0.0931	0.0024	0.010	ug/l	0.100		93	70-130			
delta-BHC	0.0979	0.0030	0.010	ug/l	0.100		98	70-130			
Dieldrin	0.0859	0.0030	0.010	ug/l	0.100		86	70-130			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1280 - EPA 508.1 (Continued)											
LCS (W2H1280-BS1)					**Prepared: 08/16/22 Analyzed: 08/19/22**						
Endosulfan I	0.0871	0.0030	0.010	ug/l	0.100		87	70-130			
Endosulfan II	0.0886	0.0016	0.010	ug/l	0.100		89	70-130			
Endosulfan sulfate	0.103	0.0030	0.010	ug/l	0.100		103	70-130			
Endrin	0.0924	0.0013	0.010	ug/l	0.100		92	70-130			
Endrin aldehyde	0.0853	0.0040	0.010	ug/l	0.100		85	70-130			
gamma-BHC (Lindane)	0.0979	0.0030	0.010	ug/l	0.100		98	70-130			
Heptachlor	0.0885	0.0017	0.010	ug/l	0.100		89	70-130			
Heptachlor epoxide	0.0952	0.0019	0.010	ug/l	0.100		95	70-130			
Methoxychlor	0.103	0.0030	0.010	ug/l	0.100		103	70-130			
Surrogate(s)											
4,4-Dibromobiphenyl	*0.0935*			*ug/l*	*0.100*		*93*	*70-130*			
LCS (W2H1280-BS2)					**Prepared: 08/16/22 Analyzed: 08/19/22**						
Toxaphene	1.18	0.37	0.50	ug/l	1.00		118	70-130			
Surrogate(s)											
4,4-Dibromobiphenyl	*0.0829*			*ug/l*	*0.100*		*83*	*70-130*			
LCS (W2H1280-BS3)					**Prepared: 08/16/22 Analyzed: 08/23/22**						
4,4´-DDD	0.0986	0.0030	0.010	ug/l	0.100		99	70-130			QC-2
4,4´-DDE	0.0819	0.0018	0.010	ug/l	0.100		82	70-130			QC-2
4,4´-DDT	0.0955	0.0030	0.010	ug/l	0.100		95	70-130			QC-2
Aldrin	0.0721	0.0040	0.010	ug/l	0.100		72	50-130			QC-2
alpha-BHC	0.0999	0.0019	0.010	ug/l	0.100		100	70-130			QC-2
beta-BHC	0.0930	0.0024	0.010	ug/l	0.100		93	70-130			QC-2
delta-BHC	0.0994	0.0030	0.010	ug/l	0.100		99	70-130			QC-2
Dieldrin	0.0860	0.0030	0.010	ug/l	0.100		86	70-130			QC-2
Endosulfan I	0.0869	0.0030	0.010	ug/l	0.100		87	70-130			QC-2
Endosulfan II	0.0896	0.0016	0.010	ug/l	0.100		90	70-130			QC-2
Endosulfan sulfate	0.108	0.0030	0.010	ug/l	0.100		108	70-130			QC-2
Endrin	0.0968	0.0013	0.010	ug/l	0.100		97	70-130			QC-2
Endrin aldehyde	0.0862	0.0040	0.010	ug/l	0.100		86	70-130			QC-2
gamma-BHC (Lindane)	0.0979	0.0030	0.010	ug/l	0.100		98	70-130			QC-2
Heptachlor	0.0891	0.0017	0.010	ug/l	0.100		89	70-130			QC-2
Heptachlor epoxide	0.0940	0.0019	0.010	ug/l	0.100		94	70-130			QC-2
Methoxychlor	0.111	0.0030	0.010	ug/l	0.100		111	70-130			QC-2
Surrogate(s)											
4,4-Dibromobiphenyl	*0.0927*			*ug/l*	*0.100*		*93*	*70-130*			*QC-2*
LCS (W2H1280-BS4)					**Prepared: 08/16/22 Analyzed: 08/23/22**						
Toxaphene	1.22	0.37	0.50	ug/l	1.00		122	70-130			QC-2
Surrogate(s)											
4,4-Dibromobiphenyl	*0.0830*			*ug/l*	*0.100*		*83*	*70-130*			*QC-2*
Matrix Spike (W2H1280-MS1)	**Source: 1G28007-01**				**Prepared: 08/16/22 Analyzed: 08/20/22**						

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1280 - EPA 508.1 (Continued)											
Matrix Spike (W2H1280-MS1)	**Source: 1G28007-01**				**Prepared: 08/16/22**	**Analyzed: 08/20/22**					
4,4´-DDD	0.108	0.0030	0.010	ug/l	0.101	ND	106	65-135			
4,4´-DDE	0.0918	0.0018	0.010	ug/l	0.101	ND	91	65-135			
4,4´-DDT	0.100	0.0030	0.010	ug/l	0.101	ND	99	65-135			
Aldrin	0.0835	0.0040	0.010	ug/l	0.101	ND	82	65-135			
alpha-BHC	0.103	0.0019	0.010	ug/l	0.101	ND	101	65-135			
beta-BHC	0.0990	0.0024	0.010	ug/l	0.101	ND	98	65-135			
delta-BHC	0.105	0.0030	0.010	ug/l	0.101	ND	103	65-135			
Dieldrin	0.0912	0.0030	0.010	ug/l	0.101	ND	90	65-135			
Endosulfan I	0.0920	0.0030	0.010	ug/l	0.101	ND	91	65-135			
Endosulfan II	0.0942	0.0016	0.010	ug/l	0.101	ND	93	65-135			
Endosulfan sulfate	0.118	0.0030	0.010	ug/l	0.101	ND	117	65-135			
Endrin	0.101	0.0013	0.010	ug/l	0.101	ND	100	65-135			
Endrin aldehyde	0.0917	0.0040	0.010	ug/l	0.101	ND	90	65-135			
gamma-BHC (Lindane)	0.102	0.0030	0.010	ug/l	0.101	ND	101	65-135			
Heptachlor	0.0957	0.0017	0.010	ug/l	0.101	ND	94	65-135			
Heptachlor epoxide	0.0997	0.0019	0.010	ug/l	0.101	ND	98	65-135			
Methoxychlor	0.121	0.0030	0.010	ug/l	0.101	ND	120	65-135			
Surrogate(s)											
4,4-Dibromobiphenyl	*0.100*			*ug/l*	*0.101*		*99*	*70-130*			
Matrix Spike Dup (W2H1280-MSD1)	**Source: 1G28007-01**				**Prepared: 08/16/22**	**Analyzed: 08/20/22**					
4,4´-DDD	0.0824	0.0030	0.010	ug/l	0.101	ND	82	65-135	27	30	
4,4´-DDE	0.0646	0.0018	0.010	ug/l	0.101	ND	64	65-135	35	30	MS-01, R-02
4,4´-DDT	0.0715	0.0030	0.010	ug/l	0.101	ND	71	65-135	33	30	R-02
Aldrin	0.0480	0.0040	0.010	ug/l	0.101	ND	48	65-135	54	30	MS-01, R-02
alpha-BHC	0.0938	0.0019	0.010	ug/l	0.101	ND	93	65-135	9	30	
beta-BHC	0.0895	0.0024	0.010	ug/l	0.101	ND	89	65-135	10	30	
delta-BHC	0.0955	0.0030	0.010	ug/l	0.101	ND	95	65-135	9	30	
Dieldrin	0.0755	0.0030	0.010	ug/l	0.101	ND	75	65-135	19	30	
Endosulfan I	0.0788	0.0030	0.010	ug/l	0.101	ND	78	65-135	15	30	
Endosulfan II	0.0785	0.0016	0.010	ug/l	0.101	ND	78	65-135	18	30	
Endosulfan sulfate	0.102	0.0030	0.010	ug/l	0.101	ND	101	65-135	14	30	
Endrin	0.0837	0.0013	0.010	ug/l	0.101	ND	83	65-135	19	30	
Endrin aldehyde	0.0728	0.0040	0.010	ug/l	0.101	ND	72	65-135	23	30	
gamma-BHC (Lindane)	0.0933	0.0030	0.010	ug/l	0.101	ND	93	65-135	9	30	
Heptachlor	0.0757	0.0017	0.010	ug/l	0.101	ND	75	65-135	23	30	
Heptachlor epoxide	0.0874	0.0019	0.010	ug/l	0.101	ND	87	65-135	13	30	
Methoxychlor	0.0974	0.0030	0.010	ug/l	0.101	ND	97	65-135	22	30	
Surrogate(s)											
4,4-Dibromobiphenyl	*0.0930*			*ug/l*	*0.101*		*92*	*70-130*			

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Diquat and Paraquat by EPA 549.2

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0719 - EPA 549.2											
Blank (W2H0719-BLK1)					**Prepared: 08/09/22**	**Analyzed: 08/25/22**					
Diquat	ND	0.90	4.0	ug/l							
Paraquat	ND	1.2	4.0	ug/l							
LCS (W2H0719-BS1)					**Prepared: 08/09/22**	**Analyzed: 08/25/22**					
Diquat	26.6	0.90	4.0	ug/l	20.0		133	70-130			Q-08
Paraquat	27.6	1.2	4.0	ug/l	20.0		138	70-130			Q-08
Matrix Spike (W2H0719-MS1)	**Source: 1G28007-01**				**Prepared: 08/09/22**	**Analyzed: 08/25/22**					
Diquat	24.7	0.90	4.0	ug/l	20.0	ND	123	46-122			Q-08
Paraquat	23.4	1.2	4.0	ug/l	20.0	ND	117	38-129			
Matrix Spike (W2H0719-MS2)	**Source: 2H04102-01**				**Prepared: 08/09/22**	**Analyzed: 08/25/22**					
Diquat	29.7	0.90	4.0	ug/l	20.0	ND	148	46-122			Q-08
Paraquat	29.0	1.2	4.0	ug/l	20.0	ND	145	38-129			Q-08
Matrix Spike Dup (W2H0719-MSD1)	**Source: 1G28007-01**				**Prepared: 08/09/22**	**Analyzed: 08/25/22**					
Diquat	21.4	0.90	4.0	ug/l	20.0	ND	107	46-122	14	30	
Paraquat	22.0	1.2	4.0	ug/l	20.0	ND	110	38-129	6	30	
Matrix Spike Dup (W2H0719-MSD2)	**Source: 2H04102-01**				**Prepared: 08/09/22**	**Analyzed: 08/25/22**					
Diquat	30.9	0.90	4.0	ug/l	20.0	ND	154	46-122	4	30	Q-08
Paraquat	27.5	1.2	4.0	ug/l	20.0	ND	138	38-129	5	30	Q-08

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Endothall By EPA 548.1

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0594 - EPA 548.1											
Blank (W2H0594-BLK1)					**Prepared: 08/09/22 Analyzed: 08/11/22**						
Endothall	ND	11	40	ug/l							
Blank (W2H0594-BLK2)					**Prepared: 08/09/22 Analyzed: 08/13/22**						
Endothall	ND	11	40	ug/l							QC-2
LCS (W2H0594-BS1)					**Prepared: 08/09/22 Analyzed: 08/11/22**						
Endothall	99.1	11	40	ug/l	100		99	31-117			
LCS (W2H0594-BS2)					**Prepared: 08/09/22 Analyzed: 08/13/22**						
Endothall	97.1	11	40	ug/l	100		97	31-117			QC-2
Matrix Spike (W2H0594-MS1)	**Source: 2H05046-01**				**Prepared: 08/09/22 Analyzed: 08/11/22**						
Endothall	7.75	0.0	80	ug/l	200	ND	4	0.1-109			J
Matrix Spike (W2H0594-MS2)	**Source: 1G28007-01**				**Prepared: 08/09/22 Analyzed: 08/11/22**						
Endothall	22.6	22	80	ug/l	200	ND	11	0.1-109			J
Matrix Spike Dup (W2H0594-MSD1)	**Source: 2H05046-01**				**Prepared: 08/09/22 Analyzed: 08/11/22**						
Endothall	9.41	0.0	80	ug/l	200	ND	5	0.1-109	200	30	R-03, J
Matrix Spike Dup (W2H0594-MSD2)	**Source: 1G28007-01**				**Prepared: 08/09/22 Analyzed: 08/11/22**						
Endothall	22.7	22	80	ug/l	200	ND	11	0.1-109	0.7	30	J

Quality Control Results

(Continued)

Glyphosate by EPA 547

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0546 - EPA 547											
Blank (W2H0546-BLK1)					**Prepared & Analyzed: 08/05/22**						
Glyphosate	ND	1.8	5.0	ug/l							
Blank (W2H0546-BLK2)					**Prepared: 08/05/22 Analyzed: 08/08/22**						
Glyphosate	ND	1.8	5.0	ug/l							QC-2
LCS (W2H0546-BS1)					**Prepared & Analyzed: 08/05/22**						
Glyphosate	28.4	1.8	5.0	ug/l	25.0		114	70-130			
LCS (W2H0546-BS2)					**Prepared: 08/05/22 Analyzed: 08/08/22**						
Glyphosate	28.1	1.8	5.0	ug/l	25.0		112	70-130			QC-2
Matrix Spike (W2H0546-MS1)	**Source: 1G28007-01**				**Prepared & Analyzed: 08/05/22**						
Glyphosate	22.4	1.8	5.0	ug/l	25.0	ND	90	41-149			
Matrix Spike (W2H0546-MS2)	**Source: 2G22002-02**				**Prepared & Analyzed: 08/05/22**						
Glyphosate	29.6	1.8	5.0	ug/l	25.0	ND	118	41-149			
Matrix Spike Dup (W2H0546-MSD1)	**Source: 1G28007-01**				**Prepared & Analyzed: 08/05/22**						
Glyphosate	30.0	1.8	5.0	ug/l	25.0	ND	120	41-149	29	30	
Matrix Spike Dup (W2H0546-MSD2)	**Source: 2G22002-02**				**Prepared & Analyzed: 08/05/22**						
Glyphosate	31.4	1.8	5.0	ug/l	25.0	ND	125	41-149	6	30	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Haloacetic Acids (HAAs) by GC/ECD

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0522 - EPA 552.3											
Blank (W2H0522-BLK1)					**Prepared: 08/05/22**	**Analyzed: 08/10/22**					
Dibromoacetic acid (dbaa)	ND	0.28	1.0	ug/l							
Dichloroacetic acid (dcaa)	ND	0.29	1.0	ug/l							
Monobromoacetic acid (mbaa)	ND	0.34	1.0	ug/l							
Monochloroacetic acid (mcaa)	ND	0.31	2.0	ug/l							
Trichloroacetic acid (tcaa)	ND	0.29	1.0	ug/l							
Surrogate(s)											
2-Bromobutyric acid	*10.2*			*ug/l*	*10.0*		*102*	*70-130*			
LCS (W2H0522-BS1)					**Prepared: 08/05/22**	**Analyzed: 08/10/22**					
Dibromoacetic acid (dbaa)	10.3	0.28	1.0	ug/l	10.0		103	70-130			
Dichloroacetic acid (dcaa)	10.1	0.29	1.0	ug/l	10.0		101	70-130			
Monobromoacetic acid (mbaa)	10.2	0.34	1.0	ug/l	10.0		102	70-130			
Monochloroacetic acid (mcaa)	10.2	0.31	2.0	ug/l	10.0		102	70-130			
Trichloroacetic acid (tcaa)	10.1	0.29	1.0	ug/l	10.0		101	70-130			
Surrogate(s)											
2-Bromobutyric acid	*10.3*			*ug/l*	*10.0*		*103*	*70-130*			
Matrix Spike (W2H0522-MS1)	**Source: 1G28007-01**				**Prepared: 08/05/22**	**Analyzed: 08/10/22**					
Dibromoacetic acid (dbaa)	9.86	0.28	1.0	ug/l	10.0	ND	99	70-130			
Dichloroacetic acid (dcaa)	10.8	0.29	1.0	ug/l	10.0	0.915	99	70-130			
Monobromoacetic acid (mbaa)	11.7	0.34	1.0	ug/l	10.0	ND	117	70-130			
Monochloroacetic acid (mcaa)	8.70	0.31	2.0	ug/l	10.0	0.593	81	70-130			
Trichloroacetic acid (tcaa)	10.1	0.29	1.0	ug/l	10.0	0.323	98	70-130			
Surrogate(s)											
2-Bromobutyric acid	*10.3*			*ug/l*	*10.0*		*103*	*70-130*			
Matrix Spike Dup (W2H0522-MSD1)	**Source: 1G28007-01**				**Prepared: 08/05/22**	**Analyzed: 08/10/22**					
Dibromoacetic acid (dbaa)	9.67	0.28	1.0	ug/l	10.0	ND	97	70-130	2	30	
Dichloroacetic acid (dcaa)	11.0	0.29	1.0	ug/l	10.0	0.915	100	70-130	2	30	
Monobromoacetic acid (mbaa)	11.7	0.34	1.0	ug/l	10.0	ND	117	70-130	0.08	30	
Monochloroacetic acid (mcaa)	9.29	0.31	2.0	ug/l	10.0	0.593	87	70-130	7	30	
Trichloroacetic acid (tcaa)	9.76	0.29	1.0	ug/l	10.0	0.323	94	70-130	3	30	
Surrogate(s)											
2-Bromobutyric acid	*10.2*			*ug/l*	*10.0*		*102*	*70-130*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Hexavalent Chromium by IC

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1192 - EPA 218.6											
Blank (W2H1192-BLK1)					**Prepared & Analyzed: 08/15/22**						
Chromium 6+	ND	0.0079	0.020	ug/l							
LCS (W2H1192-BS1)					**Prepared & Analyzed: 08/15/22**						
Chromium 6+	5.24	0.0079	0.020	ug/l	5.00		105	90-110			
Matrix Spike (W2H1192-MS1)	**Source: 2H11074-05**				**Prepared & Analyzed: 08/15/22**						
Chromium 6+	5.22	0.0079	0.020	ug/l	5.00	0.140	102	88-112			
Matrix Spike (W2H1192-MS2)	**Source: 2H11074-07**				**Prepared & Analyzed: 08/15/22**						
Chromium 6+	5.19	0.0079	0.020	ug/l	5.00	0.162	101	88-112			
Matrix Spike Dup (W2H1192-MSD1)	**Source: 2H11074-05**				**Prepared & Analyzed: 08/15/22**						
Chromium 6+	5.34	0.0079	0.020	ug/l	5.00	0.140	104	88-112	2	10	
Matrix Spike Dup (W2H1192-MSD2)	**Source: 2H11074-07**				**Prepared & Analyzed: 08/15/22**						
Chromium 6+	5.24	0.0079	0.020	ug/l	5.00	0.162	102	88-112	0.9	10	

Quality Control Results

(Continued)

Nitrosamines by isotopic dilution GC/MS CI Mode

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0652 - EPA 1625B											
Blank (W2H0652-BLK1)					**Prepared: 08/08/22 Analyzed: 08/11/22**						
N-Nitrosodimethylamine	ND	0.66	2.0	ng/l							
LCS (W2H0652-BS1)					**Prepared: 08/08/22 Analyzed: 08/11/22**						
N-Nitrosodimethylamine	1.95	0.66	2.0	ng/l	2.00		97	50-150			J
LCS Dup (W2H0652-BSD1)					**Prepared: 08/08/22 Analyzed: 08/11/22**						
N-Nitrosodimethylamine	1.86	0.66	2.0	ng/l	2.00		93	50-150	4	50	J

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0443 - EPA 1694M											
Blank (W2H0443-BLK1)					**Prepared: 08/04/22 Analyzed: 08/05/22**						
17-b-Estradiol	ND	4.0	4.0	ng/l							
Ibuprofen	ND	4.0	4.0	ng/l							
Iohexol	ND	5.0	5.0	ng/l							
Sucralose	ND	20	20	ng/l							
Surrogate(s)											
17-b-Estradiol-d3	*189*			*ng/l*	*200*		*95*	*20-500*			
Ibuprofen-d3	*211*			*ng/l*	*200*		*105*	*20-500*			
Iohexol-d5	*514*			*ng/l*	*500*		*103*	*20-500*			
Sucralose-d6	*1130*			*ng/l*	*1000*		*113*	*20-500*			
Blank (W2H0443-BLK2)					**Prepared: 08/04/22 Analyzed: 08/08/22**						
17-b-Estradiol	ND	4.0	4.0	ng/l							QC-2
Ibuprofen	ND	4.0	4.0	ng/l							QC-2
Iohexol	ND	5.0	5.0	ng/l							QC-2
Sucralose	ND	20	20	ng/l							QC-2
Surrogate(s)											
17-b-Estradiol-d3	*174*			*ng/l*	*200*		*87*	*20-500*			*QC-2*
Ibuprofen-d3	*229*			*ng/l*	*200*		*115*	*20-500*			*QC-2*
Iohexol-d5	*627*			*ng/l*	*500*		*125*	*20-500*			*QC-2*
Sucralose-d6	*1050*			*ng/l*	*1000*		*105*	*20-500*			*QC-2*
LCS (W2H0443-BS1)					**Prepared: 08/04/22 Analyzed: 08/05/22**						
17-b-Estradiol	38.0	4.0	4.0	ng/l	40.0		95	50-150			
Ibuprofen	33.7	4.0	4.0	ng/l	40.0		84	50-150			
Iohexol	49.5	5.0	5.0	ng/l	50.0		99	50-150			
Sucralose	213	20	20	ng/l	200		106	50-150			
Surrogate(s)											
17-b-Estradiol-d3	*202*			*ng/l*	*200*		*101*	*20-500*			
Ibuprofen-d3	*197*			*ng/l*	*200*		*99*	*20-500*			
Iohexol-d5	*469*			*ng/l*	*500*		*94*	*20-500*			
Sucralose-d6	*1070*			*ng/l*	*1000*		*107*	*20-500*			
LCS (W2H0443-BS2)					**Prepared: 08/04/22 Analyzed: 08/08/22**						
17-b-Estradiol	38.7	4.0	4.0	ng/l	40.0		97	50-150			QC-2
Ibuprofen	49.9	4.0	4.0	ng/l	40.0		125	50-150			QC-2
Iohexol	45.3	5.0	5.0	ng/l	50.0		91	50-150			QC-2
Sucralose	226	20	20	ng/l	200		113	50-150			QC-2
Surrogate(s)											
17-b-Estradiol-d3	*187*			*ng/l*	*200*		*94*	*20-500*			*QC-2*
Ibuprofen-d3	*213*			*ng/l*	*200*		*106*	*20-500*			*QC-2*
Iohexol-d5	*611*			*ng/l*	*500*		*122*	*20-500*			*QC-2*
Sucralose-d6	*1030*			*ng/l*	*1000*		*103*	*20-500*			*QC-2*
Matrix Spike (W2H0443-MS1)	**Source: 2H03125-01RE1**				**Prepared: 08/04/22 Analyzed: 08/08/22**						

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0443 - EPA 1694M (Continued)											
Matrix Spike (W2H0443-MS1)	**Source: 2H03125-01RE1**				**Prepared: 08/04/22**	**Analyzed: 08/08/22**					
17-b-Estradiol	765	80	80	ng/l	800	ND	96	50-150			M-05
Ibuprofen	757	80	80	ng/l	800	ND	95	50-150			M-05
Iohexol	833	100	100	ng/l	1000	ND	83	50-150			M-05
Sucralose	13600	400	400	ng/l	4000	5030	214	50-150			M-05, MS-01
Surrogate(s)											
17-b-Estradiol-d3	*186*			*ng/l*	*200*		*93*	*20-500*			
Ibuprofen-d3	*214*			*ng/l*	*200*		*107*	*20-500*			
Iohexol-d5	*258*			*ng/l*	*500*		*52*	*20-500*			
Sucralose-d6	*501*			*ng/l*	*1000*		*50*	*20-500*			
Matrix Spike Dup (W2H0443-MSD1)	**Source: 2H03125-01RE1**				**Prepared: 08/04/22**	**Analyzed: 08/08/22**					
17-b-Estradiol	707	80	80	ng/l	800	ND	88	50-150	8	30	M-05
Ibuprofen	850	80	80	ng/l	800	ND	106	50-150	12	30	M-05
Iohexol	982	100	100	ng/l	1000	ND	98	50-150	16	30	M-05
Sucralose	9640	400	400	ng/l	4000	5030	115	50-150	34	30	M-05, R-02
Surrogate(s)											
17-b-Estradiol-d3	*204*			*ng/l*	*200*		*102*	*20-500*			
Ibuprofen-d3	*196*			*ng/l*	*200*		*98*	*20-500*			
Iohexol-d5	*320*			*ng/l*	*500*		*64*	*20-500*			
Sucralose-d6	*623*			*ng/l*	*1000*		*62*	*20-500*			
Batch: W2H0444 - EPA 1694M											
Blank (W2H0444-BLK1)					**Prepared & Analyzed: 08/04/22**						
17-a-Ethynylestradiol	ND	4.0	4.0	ng/l							
Diclofenac	ND	4.0	4.0	ng/l							
Diethylstilbestrol	ND	4.0	4.0	ng/l							
Epitestosterone	ND	4.0	4.0	ng/l							
Estriol	ND	4.0	4.0	ng/l							
Estrone	ND	4.0	4.0	ng/l							
Galaxolide (HHCB)	ND	40	40	ng/l							
Gemfibrozil	ND	4.0	4.0	ng/l							
Hydrochlorothiazide	ND	20	20	ng/l							
Iopromide	ND	4.0	4.0	ng/l							
Naproxen	ND	4.0	4.0	ng/l							
Phenytoin (Dilantin)	ND	4.0	4.0	ng/l							
Primidone	ND	4.0	4.0	ng/l							
Salicylic Acid	ND	100	100	ng/l							
TDCPP	ND	50	50	ng/l							
Testosterone	ND	4.0	4.0	ng/l							
Triclosan	ND	8.0	8.0	ng/l							
Surrogate(s)											

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0444 - EPA 1694M (Continued)											
Blank (W2H0444-BLK1)					**Prepared & Analyzed: 08/04/22**						
Surrogate(s)											
17-a-Ethynylestradiol-d4	*187*			*ng/l*	*200*		*93*	*20-500*			
Bisphenol A-d16	*176*			*ng/l*	*200*		*88*	*20-500*			
Estriol-d2	*202*			*ng/l*	*200*		*101*	*20-500*			
Gemfibrozil-d6	*86.2*			*ng/l*	*100*		*86*	*20-500*			
Naproxen-d3	*215*			*ng/l*	*200*		*108*	*20-500*			
Phenytoin-d10	*198*			*ng/l*	*200*		*99*	*20-500*			
Primidone-d5	*203*			*ng/l*	*200*		*102*	*20-500*			
Progesterone-d9	*180*			*ng/l*	*200*		*90*	*20-500*			
Salicylic Acid-d4	*505*			*ng/l*	*500*		*101*	*20-500*			
Testosterone-d3	*217*			*ng/l*	*200*		*108*	*20-500*			
Triclosan-d3	*306*			*ng/l*	*400*		*76*	*20-500*			
Blank (W2H0444-BLK2)					**Prepared: 08/04/22 Analyzed: 08/05/22**						
Bisphenol A	ND	4.0	4.0	ng/l							QC-2
Progesterone	ND	4.0	4.0	ng/l							QC-2
Surrogate(s)											
Bisphenol A-d16	*177*			*ng/l*	*200*		*89*	*20-500*			*QC-2*
Progesterone-d9	*189*			*ng/l*	*200*		*94*	*20-500*			*QC-2*
LCS (W2H0444-BS1)					**Prepared & Analyzed: 08/04/22**						
17-a-Ethynylestradiol	35.7	4.0	4.0	ng/l	40.0		89	50-150			
Diclofenac	34.5	4.0	4.0	ng/l	40.0		86	50-150			
Diethylstilbestrol	36.1	4.0	4.0	ng/l	40.0		90	50-150			
Epitestosterone	41.9	4.0	4.0	ng/l	40.0		105	50-150			
Estriol	39.5	4.0	4.0	ng/l	40.0		99	50-150			
Estrone	34.5	4.0	4.0	ng/l	40.0		86	50-150			
Galaxolide (HHCB)	388	40	40	ng/l	400		97	50-150			
Gemfibrozil	38.5	4.0	4.0	ng/l	40.0		96	50-150			
Hydrochlorothiazide	190	20	20	ng/l	200		95	50-150			
Iopromide	41.7	4.0	4.0	ng/l	40.0		104	50-150			
Naproxen	43.0	4.0	4.0	ng/l	40.0		108	50-150			
Phenytoin (Dilantin)	37.1	4.0	4.0	ng/l	40.0		93	50-150			
Primidone	38.1	4.0	4.0	ng/l	40.0		95	50-150			
Salicylic Acid	922	100	100	ng/l	1000		92	50-150			
TDCPP	488	50	50	ng/l	500		98	50-150			
Testosterone	37.1	4.0	4.0	ng/l	40.0		93	50-150			
Triclosan	81.8	8.0	8.0	ng/l	80.0		102	50-150			
Surrogate(s)											
17-a-Ethynylestradiol-d4	*186*			*ng/l*	*200*		*93*	*20-500*			
Bisphenol A-d16	*170*			*ng/l*	*200*		*85*	*20-500*			
Estriol-d2	*192*			*ng/l*	*200*		*96*	*20-500*			

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0444 - EPA 1694M (Continued)											
LCS (W2H0444-BS1)					**Prepared & Analyzed: 08/04/22**						
Surrogate(s)											
Gemfibrozil-d6	*90.3*			*ng/l*	*100*		*90*	*20-500*			
Naproxen-d3	*199*			*ng/l*	*200*		*99*	*20-500*			
Phenytoin-d10	*209*			*ng/l*	*200*		*104*	*20-500*			
Primidone-d5	*212*			*ng/l*	*200*		*106*	*20-500*			
Progesterone-d9	*185*			*ng/l*	*200*		*93*	*20-500*			
Salicylic Acid-d4	*519*			*ng/l*	*500*		*104*	*20-500*			
Testosterone-d3	*210*			*ng/l*	*200*		*105*	*20-500*			
Triclosan-d3	*351*			*ng/l*	*400*		*88*	*20-500*			
LCS (W2H0444-BS2)					**Prepared: 08/04/22 Analyzed: 08/05/22**						
Bisphenol A	31.5	4.0	4.0	ng/l	40.0		79	50-150			QC-2
Progesterone	44.0	4.0	4.0	ng/l	40.0		110	50-150			QC-2
Surrogate(s)											
Bisphenol A-d16	*193*			*ng/l*	*200*		*96*	*20-500*			QC-2
Progesterone-d9	*196*			*ng/l*	*200*		*98*	*20-500*			QC-2
Matrix Spike (W2H0444-MS1)	**Source: 2G27058-01RE1**				**Prepared & Analyzed: 08/04/22**						
17-a-Ethynylestradiol	33.0	4.0	4.0	ng/l	40.0	ND	82	50-150			
Diclofenac	33.2	4.0	4.0	ng/l	40.0	ND	83	50-150			
Diethylstilbestrol	32.9	4.0	4.0	ng/l	40.0	ND	82	50-150			
Epitestosterone	43.6	4.0	4.0	ng/l	40.0	ND	109	50-150			
Estriol	46.1	4.0	4.0	ng/l	40.0	ND	115	50-150			
Estrone	37.1	4.0	4.0	ng/l	40.0	ND	93	50-150			
Galaxolide (HHCB)	187	40	40	ng/l	400	ND	47	50-150			MS-01
Gemfibrozil	32.8	4.0	4.0	ng/l	40.0	ND	82	50-150			
Hydrochlorothiazide	160	20	20	ng/l	200	ND	80	50-150			
Iopromide	39.7	4.0	4.0	ng/l	40.0	ND	99	50-150			
Naproxen	39.6	4.0	4.0	ng/l	40.0	ND	99	50-150			
Phenytoin (Dilantin)	36.5	4.0	4.0	ng/l	40.0	ND	91	50-150			
Primidone	50.5	4.0	4.0	ng/l	40.0	ND	126	50-150			
Salicylic Acid	959	100	100	ng/l	1000	ND	96	50-150			
TDCPP	495	50	50	ng/l	500	ND	99	50-150			
Testosterone	38.1	4.0	4.0	ng/l	40.0	ND	95	50-150			
Triclosan	73.0	8.0	8.0	ng/l	80.0	ND	91	50-150			
Surrogate(s)											
17-a-Ethynylestradiol-d4	*287*			*ng/l*	*200*		*143*	*20-500*			
Bisphenol A-d16	*259*			*ng/l*	*200*		*129*	*20-500*			
Estriol-d2	*204*			*ng/l*	*200*		*102*	*20-500*			
Gemfibrozil-d6	*130*			*ng/l*	*100*		*130*	*20-500*			
Naproxen-d3	*226*			*ng/l*	*200*		*113*	*20-500*			
Phenytoin-d10	*204*			*ng/l*	*200*		*102*	*20-500*			

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0444 - EPA 1694M (Continued)											
Matrix Spike (W2H0444-MS1)	**Source: 2G27058-01RE1**				**Prepared & Analyzed: 08/04/22**						
Surrogate(s)											
Primidone-d5	*60.6*			*ng/l*	*200*		*30*	*20-500*			
Progesterone-d9	*192*			*ng/l*	*200*		*96*	*20-500*			
Salicylic Acid-d4	*418*			*ng/l*	*500*		*84*	*20-500*			
Testosterone-d3	*203*			*ng/l*	*200*		*101*	*20-500*			
Triclosan-d3	*784*			*ng/l*	*400*		*196*	*20-500*			
Matrix Spike (W2H0444-MS2)	**Source: 2H03125-01**				**Prepared: 08/04/22 Analyzed: 08/05/22**						
Bisphenol A	37.8	4.0	4.0	ng/l	40.0	9.78	70	50-150			QC-2
Progesterone	37.2	4.0	4.0	ng/l	40.0	11.3	65	50-150			QC-2
Surrogate(s)											
Bisphenol A-d16	*271*			*ng/l*	*200*		*136*	*20-500*			*QC-2*
Progesterone-d9	*185*			*ng/l*	*200*		*93*	*20-500*			*QC-2*
Matrix Spike Dup (W2H0444-MSD1)	**Source: 2G27058-01RE1**				**Prepared & Analyzed: 08/04/22**						
17-a-Ethynylestradiol	33.9	4.0	4.0	ng/l	40.0	ND	85	50-150	3	30	
Diclofenac	29.1	4.0	4.0	ng/l	40.0	ND	73	50-150	13	30	
Diethylstilbestrol	32.5	4.0	4.0	ng/l	40.0	ND	81	50-150	1	30	
Epitestosterone	52.0	4.0	4.0	ng/l	40.0	ND	130	50-150	18	30	
Estriol	35.8	4.0	4.0	ng/l	40.0	ND	89	50-150	25	30	
Estrone	33.5	4.0	4.0	ng/l	40.0	ND	84	50-150	10	30	
Galaxolide (HHCB)	271	40	40	ng/l	400	ND	68	50-150	37	30	R-02
Gemfibrozil	36.8	4.0	4.0	ng/l	40.0	ND	92	50-150	11	30	
Hydrochlorothiazide	159	20	20	ng/l	200	ND	79	50-150	0.9	30	
Iopromide	35.6	4.0	4.0	ng/l	40.0	ND	89	50-150	11	30	
Naproxen	50.0	4.0	4.0	ng/l	40.0	ND	125	50-150	23	30	
Phenytoin (Dilantin)	37.4	4.0	4.0	ng/l	40.0	ND	93	50-150	2	30	
Primidone	51.4	4.0	4.0	ng/l	40.0	ND	128	50-150	2	30	
Salicylic Acid	933	100	100	ng/l	1000	ND	93	50-150	3	30	
TDCPP	467	50	50	ng/l	500	ND	93	50-150	6	30	
Testosterone	37.7	4.0	4.0	ng/l	40.0	ND	94	50-150	1	30	
Triclosan	68.6	8.0	8.0	ng/l	80.0	ND	86	50-150	6	30	
Surrogate(s)											
17-a-Ethynylestradiol-d4	*237*			*ng/l*	*200*		*119*	*20-500*			
Bisphenol A-d16	*187*			*ng/l*	*200*		*94*	*20-500*			
Estriol-d2	*202*			*ng/l*	*200*		*101*	*20-500*			
Gemfibrozil-d6	*91.0*			*ng/l*	*100*		*91*	*20-500*			
Naproxen-d3	*135*			*ng/l*	*200*		*67*	*20-500*			
Phenytoin-d10	*195*			*ng/l*	*200*		*98*	*20-500*			
Primidone-d5	*61.8*			*ng/l*	*200*		*31*	*20-500*			
Progesterone-d9	*211*			*ng/l*	*200*		*105*	*20-500*			
Salicylic Acid-d4	*442*			*ng/l*	*500*		*88*	*20-500*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0444 - EPA 1694M (Continued)											
Matrix Spike Dup (W2H0444-MSD1)	**Source: 2G27058-01RE1**				**Prepared & Analyzed: 08/04/22**						
Surrogate(s)											
Testosterone-d3	*185*			*ng/l*	*200*		*92*	*20-500*			
Triclosan-d3	*719*			*ng/l*	*400*		*180*	*20-500*			
Matrix Spike Dup (W2H0444-MSD2)	**Source: 2H03125-01**				**Prepared: 08/04/22 Analyzed: 08/05/22**						
Bisphenol A	30.6	4.0	4.0	ng/l	40.0	9.78	52	50-150	21	30	QC-2
Progesterone	32.1	4.0	4.0	ng/l	40.0	11.3	52	50-150	15	30	QC-2
Surrogate(s)											
Bisphenol A-d16	*259*			*ng/l*	*200*		*129*	*20-500*			QC-2
Progesterone-d9	*195*			*ng/l*	*200*		*98*	*20-500*			QC-2
Batch: W2H0445 - EPA 1694M											
Blank (W2H0445-BLK1)					**Prepared & Analyzed: 08/04/22**						
Acetaminophen	ND	5.0	5.0	ng/l							
Amoxicillin	ND	20	20	ng/l							
Atenolol	ND	4.0	4.0	ng/l							
Atorvastatin	ND	4.0	4.0	ng/l							
Azithromycin	ND	20	20	ng/l							
Caffeine	ND	4.0	4.0	ng/l							
Carbamazepine	ND	4.0	4.0	ng/l							
Ciprofloxacin	ND	20	20	ng/l							
Cotinine	ND	8.0	8.0	ng/l							
DEET	ND	4.0	4.0	ng/l							
Diazepam	ND	4.0	4.0	ng/l							
Fluoxetine	ND	4.0	4.0	ng/l							
Meprobamate	ND	4.0	4.0	ng/l							
Methadone	ND	4.0	4.0	ng/l							
Sulfamethoxazole	ND	4.0	4.0	ng/l							
TCEP	ND	10	10	ng/l							
TCPP	ND	50	50	ng/l							
Trimethoprim	ND	4.0	4.0	ng/l							
Surrogate(s)											
Acetaminophen-d4	*3090*			*ng/l*	*3000*		*103*	*20-500*			
Amoxicillin-d4	*59100*			*ng/l*	*62500*		*95*	*20-500*			
Atenolol-d7	*388*			*ng/l*	*400*		*97*	*20-500*			
Azithromycin-d3	*2250*			*ng/l*	*2000*		*112*	*20-500*			
Caffeine-13C3	*196*			*ng/l*	*200*		*98*	*20-500*			
Carbamazepine- 13C2, d2	*40.6*			*ng/l*	*40.0*		*101*	*20-500*			
Ciprofloxacin-d8	*1050*			*ng/l*	*1000*		*105*	*20-500*			
Cotinine-d3	*210*			*ng/l*	*200*		*105*	*20-500*			
DEET-d7	*18.6*			*ng/l*	*20.0*		*93*	*20-500*			
Diazepam-d5	*1780*			*ng/l*	*2000*		*89*	*20-500*			

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0445 - EPA 1694M (Continued)											
Blank (W2H0445-BLK1)					**Prepared & Analyzed: 08/04/22**						
Surrogate(s)											
Fluoxetine-d5	*214*			*ng/l*	*200*		*107*	*20-500*			
Methadone-d3	*45.0*			*ng/l*	*40.0*		*112*	*20-500*			
Sulfamethoxazole-d4	*194*			*ng/l*	*200*		*97*	*20-500*			
Trimethoprim-d9	*189*			*ng/l*	*200*		*94*	*20-500*			
LCS (W2H0445-BS1)					**Prepared & Analyzed: 08/04/22**						
Acetaminophen	50.1	5.0	5.0	ng/l	50.0		100	50-150			
Amoxicillin	171	20	20	ng/l	200		85	50-150			
Atenolol	38.0	4.0	4.0	ng/l	40.0		95	50-150			
Atorvastatin	42.3	4.0	4.0	ng/l	40.0		106	50-150			
Azithromycin	175	20	20	ng/l	200		88	50-150			
Caffeine	38.2	4.0	4.0	ng/l	40.0		96	50-150			
Carbamazepine	41.6	4.0	4.0	ng/l	40.0		104	50-150			
Ciprofloxacin	186	20	20	ng/l	200		93	50-150			
Cotinine	75.2	8.0	8.0	ng/l	80.0		94	50-150			
DEET	38.8	4.0	4.0	ng/l	40.0		97	50-150			
Diazepam	40.3	4.0	4.0	ng/l	40.0		101	50-150			
Fluoxetine	40.1	4.0	4.0	ng/l	40.0		100	50-150			
Meprobamate	36.5	4.0	4.0	ng/l	40.0		91	50-150			
Methadone	39.3	4.0	4.0	ng/l	40.0		98	50-150			
Propranolol	38.1	4.0	4.0	ng/l	40.0		95	50-150			
Sulfamethoxazole	35.7	4.0	4.0	ng/l	40.0		89	50-150			
TCEP	118	10	10	ng/l	100		118	50-150			
TCPP	539	50	50	ng/l	500		108	50-150			
Trimethoprim	38.9	4.0	4.0	ng/l	40.0		97	50-150			
Surrogate(s)											
Acetaminophen-d4	*3110*			*ng/l*	*3000*		*104*	*20-500*			
Amoxicillin-d4	*52300*			*ng/l*	*62500*		*84*	*20-500*			
Atenolol-d7	*385*			*ng/l*	*400*		*96*	*20-500*			
Azithromycin-d3	*2630*			*ng/l*	*2000*		*131*	*20-500*			
Caffeine-13C3	*197*			*ng/l*	*200*		*98*	*20-500*			
Carbamazepine- 13C2, d2	*36.8*			*ng/l*	*40.0*		*92*	*20-500*			
Ciprofloxacin-d8	*832*			*ng/l*	*1000*		*83*	*20-500*			
Cotinine-d3	*205*			*ng/l*	*200*		*102*	*20-500*			
DEET-d7	*20.8*			*ng/l*	*20.0*		*104*	*20-500*			
Diazepam-d5	*1780*			*ng/l*	*2000*		*89*	*20-500*			
Fluoxetine-d5	*221*			*ng/l*	*200*		*110*	*20-500*			
Methadone-d3	*44.9*			*ng/l*	*40.0*		*112*	*20-500*			
Sulfamethoxazole-d4	*188*			*ng/l*	*200*		*94*	*20-500*			

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0445 - EPA 1694M (Continued)											
LCS (W2H0445-BS1)					**Prepared & Analyzed: 08/04/22**						
Surrogate(s)											
Trimethoprim-d9	*202*			*ng/l*	*200*		*101*	*20-500*			
Matrix Spike (W2H0445-MS1)	**Source: 2H03125-01**				**Prepared & Analyzed: 08/04/22**						
Acetaminophen	52.6	5.0	5.0	ng/l	50.0	ND	105	50-150			
Amoxicillin	195	20	20	ng/l	200	ND	97	50-150			
Atenolol	37.3	4.0	4.0	ng/l	40.0	ND	93	50-150			
Atorvastatin	53.1	4.0	4.0	ng/l	40.0	ND	133	50-150			
Azithromycin	157	20	20	ng/l	200	56.8	50	50-150			
Caffeine	41.1	4.0	4.0	ng/l	40.0	7.24	85	50-150			
Carbamazepine	46.9	4.0	4.0	ng/l	40.0	ND	117	50-150			
Ciprofloxacin	217	20	20	ng/l	200	ND	109	50-150			
Cotinine	76.2	8.0	8.0	ng/l	80.0	ND	95	50-150			
DEET	35.1	4.0	4.0	ng/l	40.0	ND	88	50-150			
Diazepam	35.1	4.0	4.0	ng/l	40.0	ND	88	50-150			
Fluoxetine	35.9	4.0	4.0	ng/l	40.0	ND	90	50-150			
Meprobamate	25.1	4.0	4.0	ng/l	40.0	ND	63	50-150			
Methadone	39.0	4.0	4.0	ng/l	40.0	ND	98	50-150			
Sulfamethoxazole	38.4	4.0	4.0	ng/l	40.0	ND	96	50-150			
TCEP	132	10	10	ng/l	100	ND	132	50-150			
TCPP	649	50	50	ng/l	500	86.4	112	50-150			
Trimethoprim	39.8	4.0	4.0	ng/l	40.0	ND	100	50-150			
Surrogate(s)											
Acetaminophen-d4	*3470*			*ng/l*	*3000*		*116*	*20-500*			
Amoxicillin-d4	*192000*			*ng/l*	*62500*		*307*	*20-500*			
Atenolol-d7	*346*			*ng/l*	*400*		*86*	*20-500*			
Azithromycin-d3	*1690*			*ng/l*	*2000*		*85*	*20-500*			
Caffeine-13C3	*355*			*ng/l*	*200*		*177*	*20-500*			
Carbamazepine- 13C2, d2	*32.5*			*ng/l*	*40.0*		*81*	*20-500*			
Ciprofloxacin-d8	*1780*			*ng/l*	*1000*		*178*	*20-500*			
Cotinine-d3	*170*			*ng/l*	*200*		*85*	*20-500*			
DEET-d7	*23.3*			*ng/l*	*20.0*		*117*	*20-500*			
Diazepam-d5	*1920*			*ng/l*	*2000*		*96*	*20-500*			
Fluoxetine-d5	*127*			*ng/l*	*200*		*63*	*20-500*			
Methadone-d3	*41.7*			*ng/l*	*40.0*		*104*	*20-500*			
Sulfamethoxazole-d4	*439*			*ng/l*	*200*		*220*	*20-500*			
Trimethoprim-d9	*158*			*ng/l*	*200*		*79*	*20-500*			
Matrix Spike Dup (W2H0445-MSD1)	**Source: 2H03125-01**				**Prepared & Analyzed: 08/04/22**						
Acetaminophen	49.3	5.0	5.0	ng/l	50.0	ND	99	50-150	6	30	
Amoxicillin	163	20	20	ng/l	200	ND	82	50-150	18	30	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0445 - EPA 1694M (Continued)											
Matrix Spike Dup (W2H0445-MSD1)	**Source: 2H03125-01**				**Prepared & Analyzed: 08/04/22**						
Atenolol	41.3	4.0	4.0	ng/l	40.0	ND	103	50-150	10	30	
Atorvastatin	52.2	4.0	4.0	ng/l	40.0	ND	130	50-150	2	30	
Azithromycin	165	20	20	ng/l	200	56.8	54	50-150	5	30	
Caffeine	45.1	4.0	4.0	ng/l	40.0	7.24	95	50-150	9	30	
Carbamazepine	40.7	4.0	4.0	ng/l	40.0	ND	102	50-150	14	30	
Ciprofloxacin	205	20	20	ng/l	200	ND	102	50-150	6	30	
Cotinine	75.0	8.0	8.0	ng/l	80.0	ND	94	50-150	2	30	
DEET	38.4	4.0	4.0	ng/l	40.0	ND	96	50-150	9	30	
Diazepam	33.7	4.0	4.0	ng/l	40.0	ND	84	50-150	4	30	
Fluoxetine	37.1	4.0	4.0	ng/l	40.0	ND	93	50-150	3	30	
Meprobamate	24.9	4.0	4.0	ng/l	40.0	ND	62	50-150	0.7	30	
Methadone	39.8	4.0	4.0	ng/l	40.0	ND	99	50-150	2	30	
Sulfamethoxazole	38.0	4.0	4.0	ng/l	40.0	ND	95	50-150	1	30	
TCEP	122	10	10	ng/l	100	ND	122	50-150	8	30	
TCPP	651	50	50	ng/l	500	86.4	113	50-150	0.4	30	
Trimethoprim	37.5	4.0	4.0	ng/l	40.0	ND	94	50-150	6	30	
Surrogate(s)											
Acetaminophen-d4	*3540*			*ng/l*	*3000*		*118*	*20-500*			
Amoxicillin-d4	*185000*			*ng/l*	*62500*		*297*	*20-500*			
Atenolol-d7	*339*			*ng/l*	*400*		*85*	*20-500*			
Azithromycin-d3	*1640*			*ng/l*	*2000*		*82*	*20-500*			
Caffeine-13C3	*376*			*ng/l*	*200*		*188*	*20-500*			
Carbamazepine- 13C2, d2	*38.1*			*ng/l*	*40.0*		*95*	*20-500*			
Ciprofloxacin-d8	*1900*			*ng/l*	*1000*		*190*	*20-500*			
Cotinine-d3	*166*			*ng/l*	*200*		*83*	*20-500*			
DEET-d7	*20.0*			*ng/l*	*20.0*		*100*	*20-500*			
Diazepam-d5	*1950*			*ng/l*	*2000*		*98*	*20-500*			
Fluoxetine-d5	*124*			*ng/l*	*200*		*62*	*20-500*			
Methadone-d3	*41.0*			*ng/l*	*40.0*		*102*	*20-500*			
Sulfamethoxazole-d4	*504*			*ng/l*	*200*		*252*	*20-500*			
Trimethoprim-d9	*173*			*ng/l*	*200*		*87*	*20-500*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0814 - EPA 525.2											
Blank (W2H0814-BLK1)					**Prepared: 08/10/22 Analyzed: 08/12/22**						
Alachlor	ND	0.030	0.10	ug/l							
Atrazine	ND	0.011	0.10	ug/l							
Benzo (a) pyrene	ND	0.020	0.10	ug/l							
Bis(2-ethylhexyl)adipate	ND	0.42	2.0	ug/l							
Bis(2-ethylhexyl)phthalate	ND	0.41	2.0	ug/l							
Bromacil	ND	0.070	0.50	ug/l							
Butachlor	ND	0.012	0.10	ug/l							
Captan	ND	0.32	1.0	ug/l							
Chlorpropham	ND	0.040	0.10	ug/l							
Diazinon	ND	0.022	0.10	ug/l							
Dimethoate	ND	0.020	0.20	ug/l							
Diphenamid	ND	0.030	0.10	ug/l							
Disulfoton	ND	0.015	0.10	ug/l							
EPTC	ND	0.020	0.10	ug/l							
Hexachlorocyclopentadiene	ND	0.092	1.0	ug/l							
Metolachlor	ND	0.030	0.10	ug/l							
Metribuzin	ND	0.030	0.10	ug/l							
Molinate	ND	0.030	0.10	ug/l							
Prometryn	ND	0.030	0.10	ug/l							
Simazine	ND	0.020	0.10	ug/l							
Terbacil	ND	0.090	2.0	ug/l							
Thiobencarb	ND	0.030	0.10	ug/l							
Trithion	ND	0.020	0.10	ug/l							
Surrogate(s)											
1,3-Dimethyl-2-nitrobenzene	*4.99*			*ug/l*	*5.00*		*100*	*70-130*			
Perylene-d12	*4.44*			*ug/l*	*5.00*		*89*	*50-120*			
Triphenyl phosphate	*4.88*			*ug/l*	*5.00*		*98*	*70-130*			
LCS (W2H0814-BS1)					**Prepared: 08/10/22 Analyzed: 08/12/22**						
Alachlor	8.49	0.030	0.10	ug/l	7.50		113	70-130			
Atrazine	4.52	0.011	0.10	ug/l	5.00		90	70-130			
Benzo (a) pyrene	4.86	0.020	0.10	ug/l	5.00		97	60-130			
Bis(2-ethylhexyl)adipate	5.67	0.42	2.0	ug/l	5.00		113	70-130			
Bis(2-ethylhexyl)phthalate	5.10	0.41	2.0	ug/l	5.00		102	70-130			
Bromacil	5.53	0.070	0.50	ug/l	5.00		111	70-130			
Butachlor	5.45	0.012	0.10	ug/l	5.00		109	70-130			
Captan	3.63	0.32	1.0	ug/l	5.00		73	70-130			
Chlorpropham	5.94	0.040	0.10	ug/l	5.00		119	70-130			
Diazinon	4.47	0.022	0.10	ug/l	5.00		89	50-120			
Dimethoate	4.09	0.020	0.20	ug/l	5.00		82	50-120			

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0814 - EPA 525.2 (Continued)											
LCS (W2H0814-BS1)					**Prepared: 08/10/22 Analyzed: 08/12/22**						
Diphenamid	5.32	0.030	0.10	ug/l	5.00		106	70-130			
Disulfoton	4.56	0.015	0.10	ug/l	5.00		91	50-120			
EPTC	5.99	0.020	0.10	ug/l	5.00		120	70-130			
Hexachlorocyclopentadiene	2.12	0.092	1.0	ug/l	2.50		85	33-106			
Metolachlor	5.24	0.030	0.10	ug/l	5.00		105	60-130			
Metribuzin	4.64	0.030	0.10	ug/l	5.00		93	50-120			
Molinate	4.76	0.030	0.10	ug/l	5.00		95	70-130			
Prometryn	2.01	0.030	0.10	ug/l	5.00		40	30-120			
Simazine	3.33	0.020	0.10	ug/l	5.00		67	60-130			
Terbacil	4.27	0.090	2.0	ug/l	5.00		85	70-130			
Thiobencarb	4.33	0.030	0.10	ug/l	5.00		87	70-130			
Trithion	4.46	0.020	0.10	ug/l	5.00		89	70-130			
Surrogate(s)											
1,3-Dimethyl-2-nitrobenzene	*4.79*			*ug/l*	*5.00*		*96*	*70-130*			
Perylene-d12	*5.01*			*ug/l*	*5.00*		*100*	*50-120*			
Triphenyl phosphate	*5.62*			*ug/l*	*5.00*		*112*	*70-130*			
LCS Dup (W2H0814-BSD1)					**Prepared: 08/10/22 Analyzed: 08/12/22**						
Alachlor	7.82	0.030	0.10	ug/l	7.50		104	70-130	8	30	
Atrazine	4.46	0.011	0.10	ug/l	5.00		89	70-130	1	30	
Benzo (a) pyrene	4.49	0.020	0.10	ug/l	5.00		90	60-130	8	30	
Bis(2-ethylhexyl)adipate	5.21	0.42	2.0	ug/l	5.00		104	70-130	8	30	
Bis(2-ethylhexyl)phthalate	4.76	0.41	2.0	ug/l	5.00		95	70-130	7	30	
Bromacil	5.15	0.070	0.50	ug/l	5.00		103	70-130	7	30	
Butachlor	4.98	0.012	0.10	ug/l	5.00		100	70-130	9	30	
Captan	2.82	0.32	1.0	ug/l	5.00		56	70-130	25	30	BS-04
Chlorpropham	5.36	0.040	0.10	ug/l	5.00		107	70-130	10	30	
Diazinon	4.35	0.022	0.10	ug/l	5.00		87	50-120	3	30	
Dimethoate	3.82	0.020	0.20	ug/l	5.00		76	50-120	7	30	
Diphenamid	4.77	0.030	0.10	ug/l	5.00		95	70-130	11	30	
Disulfoton	4.27	0.015	0.10	ug/l	5.00		85	50-120	7	30	
EPTC	5.43	0.020	0.10	ug/l	5.00		109	70-130	10	30	
Hexachlorocyclopentadiene	1.99	0.092	1.0	ug/l	2.50		80	33-106	6	30	
Metolachlor	4.72	0.030	0.10	ug/l	5.00		94	60-130	11	30	
Metribuzin	4.27	0.030	0.10	ug/l	5.00		85	50-120	8	30	
Molinate	4.37	0.030	0.10	ug/l	5.00		87	70-130	9	30	
Prometryn	2.24	0.030	0.10	ug/l	5.00		45	30-120	10	30	
Simazine	3.39	0.020	0.10	ug/l	5.00		68	60-130	2	30	
Terbacil	4.01	0.090	2.0	ug/l	5.00		80	70-130	6	30	
Thiobencarb	3.89	0.030	0.10	ug/l	5.00		78	70-130	11	30	

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0814 - EPA 525.2 (Continued)											
LCS Dup (W2H0814-BSD1)					**Prepared: 08/10/22 Analyzed: 08/12/22**						
Trithion	4.08	0.020	0.10	ug/l	5.00		82	70-130	9	30	
Surrogate(s)											
1,3-Dimethyl-2-nitrobenzene	*4.98*			*ug/l*	*5.00*		*100*	*70-130*			
Perylene-d12	*5.05*			*ug/l*	*5.00*		*101*	*50-120*			
Triphenyl phosphate	*5.61*			*ug/l*	*5.00*		*112*	*70-130*			
Batch: W2H1378 - EPA 525.2											
Blank (W2H1378-BLK1)					**Prepared: 08/17/22 Analyzed: 08/18/22**						
Alachlor	ND	0.030	0.10	ug/l							
Atrazine	ND	0.011	0.10	ug/l							
Benzo (a) pyrene	ND	0.020	0.10	ug/l							
Bis(2-ethylhexyl)adipate	ND	0.42	2.0	ug/l							
Bis(2-ethylhexyl)phthalate	ND	0.41	2.0	ug/l							
Bromacil	ND	0.070	0.50	ug/l							
Butachlor	ND	0.012	0.10	ug/l							
Captan	ND	0.32	1.0	ug/l							
Chlorpropham	ND	0.040	0.10	ug/l							
Diazinon	ND	0.022	0.10	ug/l							
Dimethoate	ND	0.020	0.20	ug/l							
Diphenamid	ND	0.030	0.10	ug/l							
Disulfoton	ND	0.015	0.10	ug/l							
EPTC	ND	0.020	0.10	ug/l							
Hexachlorocyclopentadiene	ND	0.092	1.0	ug/l							
Metolachlor	ND	0.030	0.10	ug/l							
Metribuzin	ND	0.030	0.10	ug/l							
Molinate	ND	0.030	0.10	ug/l							
Prometryn	ND	0.030	0.10	ug/l							
Simazine	ND	0.020	0.10	ug/l							
Terbacil	ND	0.090	2.0	ug/l							
Thiobencarb	ND	0.030	0.10	ug/l							
Trithion	ND	0.020	0.10	ug/l							
Surrogate(s)											
1,3-Dimethyl-2-nitrobenzene	*5.06*			*ug/l*	*5.00*		*101*	*70-130*			
Perylene-d12	*4.64*			*ug/l*	*5.00*		*93*	*50-120*			
Triphenyl phosphate	*5.32*			*ug/l*	*5.00*		*106*	*70-130*			
LCS (W2H1378-BS1)					**Prepared: 08/17/22 Analyzed: 08/18/22**						
Alachlor	8.63	0.030	0.10	ug/l	7.50		115	70-130			
Atrazine	5.59	0.011	0.10	ug/l	5.00		112	70-130			
Benzo (a) pyrene	5.02	0.020	0.10	ug/l	5.00		100	60-130			
Bis(2-ethylhexyl)adipate	5.99	0.42	2.0	ug/l	5.00		120	70-130			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1378 - EPA 525.2 (Continued)											
LCS (W2H1378-BS1)					**Prepared: 08/17/22 Analyzed: 08/18/22**						
Bis(2-ethylhexyl)phthalate	5.31	0.41	2.0	ug/l	5.00		106	70-130			
Bromacil	5.93	0.070	0.50	ug/l	5.00		119	70-130			
Butachlor	5.67	0.012	0.10	ug/l	5.00		113	70-130			
Captan	5.40	0.32	1.0	ug/l	5.00		108	70-130			
Chlorpropham	5.99	0.040	0.10	ug/l	5.00		120	70-130			
Diazinon	4.50	0.022	0.10	ug/l	5.00		90	50-120			
Dimethoate	4.61	0.020	0.20	ug/l	5.00		92	50-120			
Diphenamid	5.53	0.030	0.10	ug/l	5.00		111	70-130			
Disulfoton	4.98	0.015	0.10	ug/l	5.00		100	50-120			
EPTC	6.28	0.020	0.10	ug/l	5.00		126	70-130			
Hexachlorocyclopentadiene	1.96	0.092	1.0	ug/l	2.50		78	33-106			
Metolachlor	5.28	0.030	0.10	ug/l	5.00		106	60-130			
Metribuzin	5.03	0.030	0.10	ug/l	5.00		101	50-120			
Molinate	5.03	0.030	0.10	ug/l	5.00		101	70-130			
Prometryn	2.51	0.030	0.10	ug/l	5.00		50	30-120			
Simazine	4.11	0.020	0.10	ug/l	5.00		82	60-130			
Terbacil	4.78	0.090	2.0	ug/l	5.00		96	70-130			
Thiobencarb	4.49	0.030	0.10	ug/l	5.00		90	70-130			
Trithion	4.58	0.020	0.10	ug/l	5.00		92	70-130			
Surrogate(s)											
1,3-Dimethyl-2-nitrobenzene	*4.86*			*ug/l*	*5.00*		*97*	*70-130*			
Perylene-d12	*5.04*			*ug/l*	*5.00*		*101*	*50-120*			
Triphenyl phosphate	*5.65*			*ug/l*	*5.00*		*113*	*70-130*			
Matrix Spike (W2H1378-MS1)	**Source: 1G28007-01**				**Prepared: 08/17/22 Analyzed: 08/18/22**						
Alachlor	8.95	0.030	0.10	ug/l	7.54	ND	119	70-130			
Atrazine	5.40	0.011	0.10	ug/l	5.03	ND	107	70-130			
Benzo (a) pyrene	4.97	0.020	0.10	ug/l	5.03	ND	99	60-130			
Bis(2-ethylhexyl)adipate	5.86	0.42	2.0	ug/l	5.03	ND	117	70-130			
Bis(2-ethylhexyl)phthalate	5.21	0.41	2.0	ug/l	5.03	ND	104	70-130			
Bromacil	5.93	0.070	0.50	ug/l	5.03	ND	118	70-130			
Butachlor	5.68	0.012	0.10	ug/l	5.03	ND	113	70-130			
Captan	5.46	0.32	1.0	ug/l	5.03	ND	109	70-130			
Chlorpropham	6.12	0.040	0.10	ug/l	5.03	ND	122	70-130			
Diazinon	5.02	0.022	0.10	ug/l	5.03	ND	100	50-120			
Dimethoate	4.84	0.020	0.20	ug/l	5.03	ND	96	50-120			
Diphenamid	5.45	0.030	0.10	ug/l	5.03	ND	109	70-130			
Disulfoton	5.00	0.015	0.10	ug/l	5.03	ND	99	50-120			
EPTC	6.15	0.020	0.10	ug/l	5.03	ND	122	70-130			
Hexachlorocyclopentadiene	2.15	0.092	1.0	ug/l	2.51	ND	86	33-106			

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1378 - EPA 525.2 (Continued)											
Matrix Spike (W2H1378-MS1)	**Source: 1G28007-01**				**Prepared: 08/17/22**	**Analyzed: 08/18/22**					
Metolachlor	5.43	0.030	0.10	ug/l	5.03	ND	108	60-130			
Metribuzin	5.13	0.030	0.10	ug/l	5.03	ND	102	50-120			
Molinate	4.97	0.030	0.10	ug/l	5.03	ND	99	70-130			
Prometryn	2.70	0.030	0.10	ug/l	5.03	ND	54	30-120			
Simazine	4.27	0.020	0.10	ug/l	5.03	ND	85	60-130			
Terbacil	4.83	0.090	2.0	ug/l	5.03	ND	96	70-130			
Thiobencarb	4.45	0.030	0.10	ug/l	5.03	ND	88	70-130			
Trithion	4.68	0.020	0.10	ug/l	5.03	ND	93	70-130			
Surrogate(s)											
1,3-Dimethyl-2-nitrobenzene	*5.03*			*ug/l*	*5.03*		*100*	*70-130*			
Perylene-d12	*5.17*			*ug/l*	*5.03*		*103*	*50-120*			
Triphenyl phosphate	*5.58*			*ug/l*	*5.03*		*111*	*70-130*			
Matrix Spike Dup (W2H1378-MSD1)	**Source: 1G28007-01**				**Prepared: 08/17/22**	**Analyzed: 08/18/22**					
Alachlor	9.31	0.030	0.10	ug/l	7.63	ND	122	70-130	4	30	
Atrazine	5.74	0.011	0.10	ug/l	5.09	ND	113	70-130	6	30	
Benzo (a) pyrene	5.06	0.020	0.10	ug/l	5.09	ND	100	60-130	2	30	
Bis(2-ethylhexyl)adipate	6.09	0.42	2.0	ug/l	5.09	ND	120	70-130	4	30	
Bis(2-ethylhexyl)phthalate	5.37	0.41	2.0	ug/l	5.09	ND	106	70-130	3	30	
Bromacil	6.09	0.070	0.50	ug/l	5.09	ND	120	70-130	3	30	
Butachlor	5.94	0.012	0.10	ug/l	5.09	ND	117	70-130	4	30	
Captan	5.62	0.32	1.0	ug/l	5.09	ND	110	70-130	3	30	
Chlorpropham	6.32	0.040	0.10	ug/l	5.09	ND	124	70-130	3	30	
Diazinon	5.03	0.022	0.10	ug/l	5.09	ND	99	50-120	0.2	30	
Dimethoate	5.23	0.020	0.20	ug/l	5.09	ND	103	50-120	8	30	
Diphenamid	5.61	0.030	0.10	ug/l	5.09	ND	110	70-130	3	30	
Disulfoton	5.09	0.015	0.10	ug/l	5.09	ND	100	50-120	2	30	
EPTC	6.32	0.020	0.10	ug/l	5.09	ND	124	70-130	3	30	
Hexachlorocyclopentadiene	2.16	0.092	1.0	ug/l	2.54	ND	85	33-106	0.4	30	
Metolachlor	5.50	0.030	0.10	ug/l	5.09	ND	108	60-130	1	30	
Metribuzin	5.35	0.030	0.10	ug/l	5.09	ND	105	50-120	4	30	
Molinate	5.00	0.030	0.10	ug/l	5.09	ND	98	70-130	0.6	30	
Prometryn	2.92	0.030	0.10	ug/l	5.09	ND	57	30-120	8	30	
Simazine	4.32	0.020	0.10	ug/l	5.09	ND	85	60-130	1	30	
Terbacil	4.74	0.090	2.0	ug/l	5.09	ND	93	70-130	2	30	
Thiobencarb	4.58	0.030	0.10	ug/l	5.09	ND	90	70-130	3	30	
Trithion	4.75	0.020	0.10	ug/l	5.09	ND	93	70-130	1	30	
Surrogate(s)											
1,3-Dimethyl-2-nitrobenzene	*5.06*			*ug/l*	*5.09*		*100*	*70-130*			
Perylene-d12	*5.18*			*ug/l*	*5.09*		*102*	*50-120*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Quality Control Results (Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1378 - EPA 525.2 (Continued)											
Matrix Spike Dup (W2H1378-MSD1)	**Source: 1G28007-01**				**Prepared: 08/17/22**	**Analyzed: 08/18/22**					
Surrogate(s)											
Triphenyl phosphate	*5.76*			*ug/l*	*5.09*		*113*	*70-130*			

Quality Control Results (Continued)

Volatile Organics by P&T and GC/MS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1133 - EPA 524.3											
Blank (W2H1133-BLK1)					**Prepared: 08/12/22**	**Analyzed: 08/13/22**					
1,2-Dibromo-3-chloropropane	ND	0.0042	0.010	ug/l							
1,2-Dibromoethane (EDB)	ND	0.0029	0.020	ug/l							
Surrogate(s)											
1,2-Dichlorobenzene-d4	*0.400*			*ug/l*	*0.400*		*100*	*70-130*			
4-Bromofluorobenzene	*0.346*			*ug/l*	*0.400*		*86*	*70-130*			
LCS (W2H1133-BS1)					**Prepared: 08/12/22**	**Analyzed: 08/13/22**					
1,2-Dibromo-3-chloropropane	0.0623	0.0042	0.010	ug/l	0.0500		125	70-130			
1,2-Dibromoethane (EDB)	0.0563	0.0029	0.020	ug/l	0.0500		113	70-130			
Surrogate(s)											
1,2-Dichlorobenzene-d4	*0.397*			*ug/l*	*0.400*		*99*	*70-130*			
4-Bromofluorobenzene	*0.354*			*ug/l*	*0.400*		*89*	*70-130*			
Matrix Spike (W2H1133-MS1)	**Source: 2G15022-01**				**Prepared: 08/12/22**	**Analyzed: 08/13/22**					
1,2-Dibromo-3-chloropropane	0.0588	0.0042	0.010	ug/l	0.0500	ND	118	65-135			
1,2-Dibromoethane (EDB)	0.0672	0.0029	0.020	ug/l	0.0500	ND	134	65-135			
Surrogate(s)											
1,2-Dichlorobenzene-d4	*0.401*			*ug/l*	*0.400*		*100*	*70-130*			
4-Bromofluorobenzene	*0.313*			*ug/l*	*0.400*		*78*	*70-130*			
Matrix Spike Dup (W2H1133-MSD1)	**Source: 2G15022-01**				**Prepared: 08/12/22**	**Analyzed: 08/13/22**					
1,2-Dibromo-3-chloropropane	0.0547	0.0042	0.010	ug/l	0.0500	ND	109	65-135	7	30	
1,2-Dibromoethane (EDB)	0.0612	0.0029	0.020	ug/l	0.0500	ND	122	65-135	9	30	
Surrogate(s)											
1,2-Dichlorobenzene-d4	*0.399*			*ug/l*	*0.400*		*100*	*70-130*			
4-Bromofluorobenzene	*0.303*			*ug/l*	*0.400*		*76*	*70-130*			

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466759

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:42

Notes and Definitions

Item	Definition
AN-IP	Sample results for structural isomers may have contribution from their isomeric pair.
BS-04	The recovery of this analyte in LCS or LCSD was outside control limit. Sample was accepted based on the remaining LCS, LCSD or LCS-LL.
J	Estimated conc. detected <MRL and >MDL.
M-04	Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
M-05	Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
M-06	Due to the high concentration of analyte inherent in the sample, sample was diluted prior to preparation and/or analysis. The MDL and MRL were raised due to this dilution.
MS-01	The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference.
Q-08	High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit.
QC-2	This QC sample was reanalyzed to complement samples that require re-analysis on different date. See analysis date.
R-01	The MDL and/or MRL for this analyte has been raised to account for matrix interference.
R-02	The RPD was outside of QC acceptance limits due to possible matrix interference.
R-03	The RPD is not applicable for result below the reporting limit (either ND or J value).
S-GC	Surrogate recovery outside of control limits due to a possible matrix effect . The data was accepted based on valid recovery of the remaining surrogate.
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

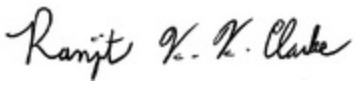
Lab Job Number: 466764
Report Level: II
Report Date: 08/15/2022

Analytical Report *prepared for:*

Kiernan Brtalik
Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001

Project: MALIBU - Annual

Authorized for release by:



Ranjit K Clarke, Client Services Manager
(714) 771-9906
Ranjit.Clarke@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Kiernan Brtalik
Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001

Lab Job #:	466764
Project No:	MALIBU
Location:	Annual
Date Received:	08/03/22

Sample ID	Lab ID	Collected	Matrix
N-001	466764-001	08/03/22 07:25	Water
N-002	466764-002	08/03/22 07:45	Water
N-003	466764-003	08/03/22 08:00	Water
N-004	466764-004	08/03/22 09:10	Water
L-001	466764-005	08/03/22 09:51	Water
L-002	466764-006	08/03/22 08:50	Water
L-003	466764-007	08/03/22 10:02	Water
L-004	466764-008	08/03/22 08:26	Water
L-005	466764-009	08/03/22 08:10	Water
L-006	466764-010	08/03/22 08:20	Water

ENTHALPY ANALYTICAL

Case Narrative

Rincon Consultants - Ventura 2060 Knoll Drive Unit B Ventura, CA 93001 Kiernan Brtalik	Lab Job Number: 466764 Project No: MALIBU Location: Annual Date Received: 08/03/22

This data package contains sample and QC results for ten water samples, requested for the above referenced project on 08/03/22. The samples were received cold and intact.

Ion Chromatography (EPA 300.0 and EPA 300.0):

- Many samples were diluted due to high non-target analytes.
- No other analytical problems were encountered.

Total Phosphorus as P (SM 4500-P-B5-E):
No analytical problems were encountered.

Total Nitrogen, by Calculation (TOTAL NITROGEN):
No analytical problems were encountered.

Organic Nitrogen, by Calculation (ORGANIC NITROGEN):
No analytical problems were encountered.

Total Coliform / E. coli by Quanti-Tray (SM 9223Bb):
No analytical problems were encountered.

Ammonia and TKN- Semi-Automated Method (SM 4500-NH3-G):
No analytical problems were encountered.

ENTHALPHY ANALYTICAL, INC.		Chain of Custody Record		Turn Around Time (Rush by advanced notice only)					
931 W. Barkley Ave., Orange, CA 92868		Lab No: 466764		Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714) 538-1209		Page: 1 of 1		2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal		Matrix: A = Air DW = Drinking Water		Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3					
c/o Montrose Environmental Group		FL = Food Liquid FS = Food Solid L = Liquid		4 = H_2SO_4 5 = NaOH 6 = Other					
1 Park Plaza, Suite 1000, Irvine, CA 92614		PP = Pure Product S = Solid SeaW = Sea Water							
		SW = Swab W = Water WP = Wipe O = Other							

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants	Name:	Malibu - Annual
Report To:	Kiernan Brtalik	Number:	
Email:		P.O. #:	
Address:	180 N. Ashwood Ave.	Address:	
	Ventura, CA 93003		
Phone:		Global ID:	
Cell:		Sampled By:	

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Total /Fecal Coliforms - SM 9223 Quantitray	TKN; NH3; Organic Nitrogen (Calculation)	EPA 300.0 (NO2,NO3)	Total Phosphorus; Total Nitrogen (calculation)	Test Instructions / Comments
N-001	8/3	7:25	Water	x4		X	X	X	X	
N-002		7:45				X	X	X	X	
N-003		8:00				X	X	X	X	
N-004		8:10				X	X	X	X	
L-001		8:51				X	X	X	X	
L-002		8:50				X	X	X	X	
L-003		10:02				X	X	X	X	
L-004		8:26				X	X	X	X	
L-005		8:10				X	X	X	X	
L-006		8:20				X	X	X	X	

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Lindsey Stockton	RINCON	8/3 10:18
1 Received By:		Jon Bridgen	Rincon	8/3 10:18
2 Relinquished By:		Jon Bridgen	Rincon	8-3 1446
2 Received By:		G Gawat	EA	8.3.22 1446
3 Relinquished By:		G Gawat	EA	8.3.22 1728

Zain P. 11.0 / 4.1 EA/GL 8/03/22 1728

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: RINCON CONSULTANTS Project: MALIBU - ANNUAL

Date Received: 8/05/22 Sampler's Name Present: ☐ Yes ☑ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 11.0 °C #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 4.1 °C #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?	✓		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 8/03/22

ENTHALPY ANALYTICAL

Analysis Results for 466764

Kiernan Brtalik
Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001

Lab Job #: 466764
Project No: MALIBU
Location: Annual
Date Received: 08/03/22

Sample ID: N-001 **Lab ID: 466764-001** **Collected: 08/03/22 07:25**
Matrix: Water

466764-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrite	ND		mg/L	1.0	0.20	10	294258	08/03/22 12:00	08/04/22 20:08	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.32	10	294258	08/03/22 12:00	08/04/22 20:08	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	294258	08/03/22 12:00	08/04/22 20:08	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.50**		mg/L			1	294825	08/10/22	08/10/22	SLL
Method: SM 4500-NH3-G										
Ammonia-N	**0.18**		mg/L	0.10	0.045	1	294678	08/09/22	08/09/22	ATP
Nitrogen, Total Kjeldahl	**0.68**		mg/L	0.40	0.12	1	294755	08/10/22	08/10/22	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.090**		mg/L	0.020	0.0054	1	294923	08/11/22	08/11/22	ATP
Method: SM 9223Bb										
Fecal Coliform	**1.0**		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Coliform, Total	**>2,400**		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Method: TOTAL NITROGEN										
Total Nitrogen	**0.68**		mg/L			1	294799	08/10/22	08/10/22	SLL

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466764

Sample ID: N-002	Lab ID: 466764-002	Collected: 08/03/22 07:45
	Matrix: Water	

466764-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrite	ND		mg/L	1.0	0.20	10	294258	08/03/22 12:00	08/04/22 20:25	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.32	10	294258	08/03/22 12:00	08/04/22 20:25	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	294258	08/03/22 12:00	08/04/22 20:25	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.44**		mg/L			1	294825	08/10/22	08/10/22	SLL
Method: SM 4500-NH3-G										
Ammonia-N	**0.13**		mg/L	0.10	0.045	1	294678	08/09/22	08/09/22	ATP
Nitrogen, Total Kjeldahl	**0.57**		mg/L	0.40	0.12	1	294755	08/10/22	08/10/22	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.095**		mg/L	0.020	0.0054	1	294923	08/11/22	08/11/22	ATP
Method: SM 9223Bb										
Fecal Coliform	<1.0		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Coliform, Total	**>2,400**		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Method: TOTAL NITROGEN										
Total Nitrogen	**0.57**		mg/L			1	294799	08/10/22	08/10/22	SLL

Sample ID: N-003	Lab ID: 466764-003	Collected: 08/03/22 08:00
	Matrix: Water	

466764-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrite	ND		mg/L	1.0	0.20	10	294258	08/03/22 12:00	08/04/22 14:14	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.32	10	294258	08/03/22 12:00	08/04/22 14:14	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	294258	08/03/22 12:00	08/04/22 14:14	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.35**		mg/L			1	294825	08/10/22	08/10/22	SLL
Method: SM 4500-NH3-G										
Ammonia-N	**0.19**		mg/L	0.10	0.045	1	294678	08/09/22	08/09/22	ATP
Nitrogen, Total Kjeldahl	**0.54**		mg/L	0.40	0.12	1	294755	08/10/22	08/10/22	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.18**		mg/L	0.020	0.0054	1	294923	08/11/22	08/11/22	ATP
Method: SM 9223Bb										
Fecal Coliform	<1.0		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Coliform, Total	**>2,400**		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Method: TOTAL NITROGEN										
Total Nitrogen	**0.54**		mg/L			1	294799	08/10/22	08/10/22	SLL

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466764

Sample ID: N-004 **Lab ID: 466764-004** **Collected: 08/03/22 09:10**
Matrix: Water

466764-004 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrite	ND		mg/L	1.0	0.20	10	294258	08/03/22 12:00	08/04/22 20:42	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.32	10	294258	08/03/22 12:00	08/04/22 20:42	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	294258	08/03/22 12:00	08/04/22 20:42	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.58**		mg/L			1	294825	08/10/22	08/10/22	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.045	1	294678	08/09/22	08/09/22	ATP
Nitrogen, Total Kjeldahl	**0.58**		mg/L	0.40	0.12	1	294755	08/10/22	08/10/22	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.20**		mg/L	0.020	0.0054	1	294923	08/11/22	08/11/22	ATP
Method: SM 9223Bb										
Fecal Coliform	<1.0		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Coliform, Total	**>2,400**		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Method: TOTAL NITROGEN										
Total Nitrogen	**0.58**		mg/L			1	294799	08/10/22	08/10/22	SLL

Sample ID: L-001 **Lab ID: 466764-005** **Collected: 08/03/22 09:51**
Matrix: Water

466764-005 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrite	ND		mg/L	1.0	0.20	10	294258	08/03/22 12:00	08/04/22 20:59	RKV
Nitrogen, Nitrate	ND		mg/L	0.10	0.03	1	294258	08/03/22 12:00	08/04/22 04:20	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	0.10		10	294258	08/03/22 12:00	08/04/22 20:59	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.48**		mg/L			1	294825	08/10/22	08/10/22	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.045	1	294678	08/09/22	08/09/22	ATP
Nitrogen, Total Kjeldahl	**0.48**		mg/L	0.40	0.12	1	294755	08/10/22	08/10/22	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.18**		mg/L	0.020	0.0054	1	294923	08/11/22	08/11/22	ATP
Method: SM 9223Bb										
Fecal Coliform	**>2,400**		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Coliform, Total	**>2,400**		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Method: TOTAL NITROGEN										
Total Nitrogen	**0.48**		mg/L			1	294799	08/10/22	08/10/22	SLL

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466764

Sample ID: L-002	Lab ID: 466764-006	Collected: 08/03/22 08:50
	Matrix: Water	

466764-006 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrite	ND		mg/L	1.0	0.20	10	294258	08/03/22 12:00	08/04/22 21:16	RKV
Nitrogen, Nitrate	**0.22**		mg/L	0.10	0.03	1	294258	08/03/22 12:00	08/04/22 04:37	RKV
Nitrogen, Nitrate/Nitrite	**0.22**		mg/L	0.10		10	294258	08/03/22 12:00	08/04/22 21:16	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.84**		mg/L			1	294825	08/10/22	08/10/22	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.045	1	294678	08/09/22	08/09/22	ATP
Nitrogen, Total Kjeldahl	**0.84**		mg/L	0.40	0.12	1	294755	08/10/22	08/10/22	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.21**		mg/L	0.020	0.0054	1	294923	08/11/22	08/11/22	ATP
Method: SM 9223Bb										
Fecal Coliform	**31**		MPN/100ml	2.0		2	294293	08/03/22 19:13	08/04/22 14:58	AJL
Coliform, Total	**>4,800**		MPN/100ml	2.0		2	294293	08/03/22 19:13	08/04/22 14:58	AJL
Method: TOTAL NITROGEN										
Total Nitrogen	**1.1**		mg/L			1	294799	08/10/22	08/10/22	SLL

Sample ID: L-003	Lab ID: 466764-007	Collected: 08/03/22 10:02
	Matrix: Water	

466764-007 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrite	ND		mg/L	1.0	0.20	10	294258	08/03/22 12:00	08/04/22 22:06	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.32	10	294258	08/03/22 12:00	08/04/22 22:06	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	294258	08/03/22 12:00	08/04/22 22:06	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.61**		mg/L			1	294825	08/10/22	08/10/22	SLL
Method: SM 4500-NH3-G										
Ammonia-N	**0.095**	J	mg/L	0.10	0.045	1	294678	08/09/22	08/09/22	ATP
Nitrogen, Total Kjeldahl	**0.70**		mg/L	0.40	0.12	1	294755	08/10/22	08/10/22	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.16**		mg/L	0.020	0.0054	1	294923	08/11/22	08/11/22	ATP
Method: SM 9223Bb										
Fecal Coliform	**>2,400**		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Coliform, Total	**>2,400**		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Method: TOTAL NITROGEN										
Total Nitrogen	**0.70**		mg/L			1	294799	08/10/22	08/10/22	SLL

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466764

Sample ID: L-004 **Lab ID: 466764-008** **Collected: 08/03/22 08:26**
Matrix: Water

466764-008 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrite	ND		mg/L	1.0	0.20	10	294258	08/03/22 12:00	08/04/22 22:23	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.32	10	294258	08/03/22 12:00	08/04/22 22:23	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	294258	08/03/22 12:00	08/04/22 22:23	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.79**		mg/L			1	294825	08/10/22	08/10/22	SLL
Method: SM 4500-NH3-G										
Ammonia-N	**0.096**	J	mg/L	0.10	0.045	1	294678	08/09/22	08/09/22	ATP
Nitrogen, Total Kjeldahl	**0.89**		mg/L	0.40	0.12	1	294755	08/10/22	08/10/22	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.23**		mg/L	0.020	0.0054	1	294923	08/11/22	08/11/22	ATP
Method: SM 9223Bb										
Fecal Coliform	**>2,400**		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Coliform, Total	**>2,400**		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Method: TOTAL NITROGEN										
Total Nitrogen	**0.89**		mg/L			1	294799	08/10/22	08/10/22	SLL

Sample ID: L-005 **Lab ID: 466764-009** **Collected: 08/03/22 08:10**
Matrix: Water

466764-009 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrite	ND		mg/L	1.0	0.20	10	294258	08/03/22 12:00	08/04/22 22:40	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.32	10	294258	08/03/22 12:00	08/04/22 22:40	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	294258	08/03/22 12:00	08/04/22 22:40	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**8.1**		mg/L			1	294825	08/10/22	08/10/22	SLL
Method: SM 4500-NH3-G										
Ammonia-N	**0.25**		mg/L	0.10	0.045	1	294678	08/09/22	08/09/22	ATP
Nitrogen, Total Kjeldahl	**8.3**		mg/L	2.0	0.62	5	294755	08/10/22	08/10/22	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**1.1**		mg/L	0.10	0.027	5	294923	08/11/22	08/11/22	ATP
Method: SM 9223Bb										
Fecal Coliform	**>2,400**		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Coliform, Total	**>2,400**		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Method: TOTAL NITROGEN										
Total Nitrogen	**8.3**		mg/L			1	294799	08/10/22	08/10/22	SLL

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466764

Sample ID: L-006	Lab ID: 466764-010	Collected: 08/03/22 08:20
	Matrix: Water	

466764-010 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrite	ND		mg/L	1.0	0.20	10	294258	08/03/22 12:00	08/04/22 22:57	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.32	10	294258	08/03/22 12:00	08/04/22 22:57	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	294258	08/03/22 12:00	08/04/22 22:57	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.92**		mg/L			1	294825	08/10/22	08/10/22	SLL
Method: SM 4500-NH3-G										
Ammonia-N	**0.082**	J	mg/L	0.10	0.045	1	294678	08/09/22	08/09/22	ATP
Nitrogen, Total Kjeldahl	**1.0**		mg/L	0.40	0.12	1	294755	08/10/22	08/10/22	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.16**		mg/L	0.020	0.0054	1	294923	08/11/22	08/11/22	ATP
Method: SM 9223Bb										
Fecal Coliform	**>2,400**		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Coliform, Total	**>2,400**		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Method: TOTAL NITROGEN										
Total Nitrogen	**1.0**		mg/L			1	294799	08/10/22	08/10/22	SLL

< Value is less than indicated concentration
> Value exceeds indicated concentration
J Estimated value
ND Not Detected

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC1004303	**Batch:** 294258
Matrix: Drinking Water	**Method:** EPA 300.0	**Prep Method:** METHOD

QC1004303 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	08/03/22 10:00	08/03/22 11:27
Nitrogen, Nitrate	ND		mg/L	0.10	0.03	08/03/22 10:00	08/03/22 11:27
Nitrogen, Nitrate/Nitrite	ND		mg/L	0.10		08/03/22 10:00	08/03/22 11:27

Type: Lab Control Sample	**Lab ID:** QC1004304	**Batch:** 294258
Matrix: Drinking Water	**Method:** EPA 300.0	**Prep Method:** METHOD

QC1004304 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Nitrite	2.475	2.283	mg/L	108%		90-110
Nitrogen, Nitrate	2.399	2.259	mg/L	106%		90-110

Type: Matrix Spike	**Lab ID:** QC1004388	**Batch:** 294258
Matrix (Source ID): Water (466767-001)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC1004388 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Nitrite	1.806	ND	1.827	mg/L	99%		80-120	1
Nitrogen, Nitrate	2.466	0.4765	1.807	mg/L	110%		80-120	1

Type: Matrix Spike Duplicate	**Lab ID:** QC1004389	**Batch:** 294258
Matrix (Source ID): Water (466767-001)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC1004389 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Nitrite	1.844	ND	1.827	mg/L	101%		80-120	2	20	1
Nitrogen, Nitrate	2.493	0.4765	1.807	mg/L	112%		80-120	1	20	1

Type: Blank	**Lab ID:** QC1005603	**Batch:** 294678
Matrix: Water	**Method:** SM 4500-NH3-G	

QC1005603 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Ammonia-N	ND		mg/L	0.10	0.045	08/09/22	08/09/22

Type: Lab Control Sample	**Lab ID:** QC1005604	**Batch:** 294678
Matrix: Water	**Method:** SM 4500-NH3-G	

QC1005604 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Ammonia-N	2.429	2.500	mg/L	97%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type: Matrix Spike | **Lab ID:** QC1005605 | **Batch:** 294678
Matrix (Source ID): Water (466836-001) | **Method:** SM 4500-NH3-G

QC1005605 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Ammonia-N	2.527	0.1060	2.500	mg/L	97%		80-120	1

Type: Matrix Spike Duplicate | **Lab ID:** QC1005606 | **Batch:** 294678
Matrix (Source ID): Water (466836-001) | **Method:** SM 4500-NH3-G

QC1005606 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Ammonia-N	2.554	0.1060	2.500	mg/L	98%		80-120	1	20	1

Type: Blank | **Lab ID:** QC1005763 | **Batch:** 294755
Matrix: Water | **Method:** SM 4500-NH3-G

QC1005763 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Total Kjeldahl	ND		mg/L	0.20	0.062	08/10/22	08/10/22

Type: Lab Control Sample | **Lab ID:** QC1005764 | **Batch:** 294755
Matrix: Water | **Method:** SM 4500-NH3-G

QC1005764 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Total Kjeldahl	2.691	2.500	mg/L	108%		80-120

Type: Matrix Spike | **Lab ID:** QC1005765 | **Batch:** 294755
Matrix (Source ID): Water (466764-001) | **Method:** SM 4500-NH3-G

QC1005765 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Total Kjeldahl	13.04	0.6826	12.50	mg/L	99%		80-120	2.5

Type: Matrix Spike Duplicate | **Lab ID:** QC1005766 | **Batch:** 294755
Matrix (Source ID): Water (466764-001) | **Method:** SM 4500-NH3-G

QC1005766 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Total Kjeldahl	13.38	0.6826	12.50	mg/L	102%		80-120	3	20	2.5

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID: QC1006289**	**Batch: 294923**
Matrix: Water	**Method: SM 4500-P-B5-E**	

QC1006289 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Phosphorus	ND		mg/L	0.020	0.0054	08/11/22	08/11/22

Type: Lab Control Sample	**Lab ID: QC1006290**	**Batch: 294923**
Matrix: Water	**Method: SM 4500-P-B5-E**	

QC1006290 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phosphorus	0.3970	0.4000	mg/L	99%		80-120

Type: Matrix Spike	**Lab ID: QC1006291**	**Batch: 294923**
Matrix (Source ID): Water (466831-001)	**Method: SM 4500-P-B5-E**	

QC1006291 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phosphorus	1.108	0.1170	1.000	mg/L	99%		75-125	2.5

Type: Matrix Spike Duplicate	**Lab ID: QC1006292**	**Batch: 294923**
Matrix (Source ID): Water (466831-001)	**Method: SM 4500-P-B5-E**	

QC1006292 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phosphorus	1.105	0.1170	1.000	mg/L	99%		75-125	0	20	2.5

ND Not Detected

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 466767
Report Level: II
Report Date: 08/15/2022

Analytical Report *prepared for:*

Kiernan Brtalik
Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001

Project: MALIBU - Annual

Authorized for release by:

Ranjit K Clarke, Client Services Manager
(714) 771-9906
Ranjit.Clarke@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Kiernan Brtalik
Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001

Lab Job #:	466767
Project No:	MALIBU
Location:	Annual
Date Received:	08/03/22

Sample ID	Lab ID	Collected	Matrix
MCPW-MW10	466767-001	08/03/22 09:05	Water

ENTHALPY ANALYTICAL

Case Narrative

Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001
Kiernan Brtalik

Lab Job Number: 466767
Project No: MALIBU
Location: Annual
Date Received: 08/03/22

This data package contains sample and QC results for one water sample, requested for the above referenced project on 08/03/22. The sample was received cold and intact.

Ion Chromatography (EPA 300.0 and EPA 300.0):
No analytical problems were encountered.

Total Phosphorus as P (SM 4500-P-B5-E):
No analytical problems were encountered.

Organic Nitrogen, by Calculation (ORGANIC NITROGEN):
No analytical problems were encountered.

Total Dissolved Solids (TDS) (SM2540C):
No analytical problems were encountered.

Total Coliform / E. coli by Quanti-Tray (SM 9223Bb):
No analytical problems were encountered.

Ammonia and TKN- Semi-Automated Method (SM 4500-NH3-G):
No analytical problems were encountered.

ENTHALPHY ANALYTICAL, INC.		Chain of Custody Record		Turn Around Time (Rush by advanced notice only)					
931 W. Barkley Ave., Orange, CA 92868		Lab No: 466767		Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714) 538-1209		Page: 1 of 1		2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal		Matrix: A = Air DW = Drinking Water		Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3					
c/o Montrose Environmental Group		FL = Food Liquid FS = Food Solid L = Liquid		4 = H_2SO_4 5 = NaOH 6 = Other					
1 Park Plaza, Suite 1000, Irvine, CA 92614		PP = Pure Product S = Solid SeaW = Sea Water							
		SW = Swab W = Water WP = Wipe O = Other							

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants	Name:	Malibu - Annual
Report To:	Kiernan Brtalik	Number:	20-09665
Email:	KBrtalik@RinconConsultants.com	P.O. #:	
Address:	180 N. Ashwood Ave.	Address:	
	Ventura, CA 93003		
Phone:		Global ID:	
Cell:		Sampled By:	Jon B, Landon L

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Total /Fecal Coliforms - SM 9223 Quantitray	TKN; NH3; Organic Nitrogen (Calculation)	EPA 300.0 (NO2,NO3)	Total Phosphorus	SM 2540C TDS	EPA 300.0 (NO3)	Test Instructions / Comments
[redacted]						X	X	X	X	X		
MCWP-MW10	8.3.22	0905	GW	5	✓	X	X	X	X	X		
[redacted]						X	X	X	X	X		
[redacted]						X	X	X	X	X		
[redacted]						X	X	X	X	X		
[redacted]						X	X	X	X	X		
[redacted]						X	X	X	X	X		
[redacted]										X	X	
[redacted]										X	X	

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Jon Bridgeman	Rincon	8.3 1446
[1] Received By:		EGawat	EA	8.3 / 1446
[2] Relinquished By:		EGawat	EA	8.3 / 1728
[2] Received By:		ZAID PADILLA	EA/GL	8/03/22 1728
[3] Relinquished By:				
[3] Received By:				

5.1 / 3.8

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: RINCON CONSULTANTS Project: MALIBU - ANNUAL

Date Received: 8/03/22 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 5.1 °C #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 3.8 °C #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?	✓		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 8/03/22

ENTHALPY ANALYTICAL

Analysis Results for 466767

Kiernan Brtalik
Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001

Lab Job #: 466767
Project No: MALIBU
Location: Annual
Date Received: 08/03/22

Sample ID: MCPW-MW10 **Lab ID: 466767-001** **Collected: 08/03/22 09:05**
Matrix: Water

466767-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	1	294258	08/03/22 12:00	08/04/22 06:35	RKV
Nitrogen, Nitrate	**0.48**		mg/L	0.10	0.03	1	294258	08/03/22 12:00	08/04/22 06:35	RKV
Nitrogen, Nitrate/Nitrite	**0.48**		mg/L	0.10		1	294258	08/03/22 12:00	08/04/22 06:35	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	ND		mg/L			1	294825	08/10/22	08/10/22	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.045	1	294678	08/09/22	08/09/22	ATP
Nitrogen, Total Kjeldahl	ND		mg/L	0.40	0.12	1	294755	08/10/22	08/10/22	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.069**		mg/L	0.020	0.0054	1	294923	08/11/22	08/11/22	ATP
Method: SM 9223Bb										
Coliform, Total	**48**		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Fecal Coliform	<1.0		MPN/100ml	1.0		1	294293	08/03/22 19:13	08/04/22 14:58	AJL
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**2,000**		mg/L	20		2	294481	08/04/22	08/05/22	DNA

< Value is less than indicated concentration
ND Not Detected

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1004303	Batch: 294258
Matrix: Drinking Water	Method: EPA 300.0	Prep Method: METHOD

QC1004303 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	08/03/22 10:00	08/03/22 11:27
Nitrogen, Nitrate	ND		mg/L	0.10	0.03	08/03/22 10:00	08/03/22 11:27
Nitrogen, Nitrate/Nitrite	ND		mg/L	0.10		08/03/22 10:00	08/03/22 11:27

Type: Lab Control Sample	Lab ID: QC1004304	Batch: 294258
Matrix: Drinking Water	Method: EPA 300.0	Prep Method: METHOD

QC1004304 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Nitrite	2.475	2.283	mg/L	108%		90-110
Nitrogen, Nitrate	2.399	2.259	mg/L	106%		90-110

Type: Matrix Spike	Lab ID: QC1004388	Batch: 294258
Matrix (Source ID): Water (466767-001)	Method: EPA 300.0	Prep Method: METHOD

QC1004388 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Nitrite	1.806	ND	1.827	mg/L	99%		80-120	1
Nitrogen, Nitrate	2.466	0.4765	1.807	mg/L	110%		80-120	1

Type: Matrix Spike Duplicate	Lab ID: QC1004389	Batch: 294258
Matrix (Source ID): Water (466767-001)	Method: EPA 300.0	Prep Method: METHOD

QC1004389 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Nitrite	1.844	ND	1.827	mg/L	101%		80-120	2	20	1
Nitrogen, Nitrate	2.493	0.4765	1.807	mg/L	112%		80-120	1	20	1

Type: Blank	Lab ID: QC1005603	Batch: 294678
Matrix: Water	Method: SM 4500-NH3-G	

QC1005603 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Ammonia-N	ND		mg/L	0.10	0.045	08/09/22	08/09/22

Type: Lab Control Sample	Lab ID: QC1005604	Batch: 294678
Matrix: Water	Method: SM 4500-NH3-G	

QC1005604 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Ammonia-N	2.429	2.500	mg/L	97%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type: Matrix Spike | **Lab ID:** QC1005605 | **Batch:** 294678
Matrix (Source ID): Water (466836-001) | **Method:** SM 4500-NH3-G

QC1005605 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Ammonia-N	2.527	0.1060	2.500	mg/L	97%		80-120	1

Type: Matrix Spike Duplicate | **Lab ID:** QC1005606 | **Batch:** 294678
Matrix (Source ID): Water (466836-001) | **Method:** SM 4500-NH3-G

QC1005606 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Ammonia-N	2.554	0.1060	2.500	mg/L	98%		80-120	1	20	1

Type: Blank | **Lab ID:** QC1005763 | **Batch:** 294755
Matrix: Water | **Method:** SM 4500-NH3-G

QC1005763 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Total Kjeldahl	ND		mg/L	0.20	0.062	08/10/22	08/10/22

Type: Lab Control Sample | **Lab ID:** QC1005764 | **Batch:** 294755
Matrix: Water | **Method:** SM 4500-NH3-G

QC1005764 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Total Kjeldahl	2.691	2.500	mg/L	108%		80-120

Type: Matrix Spike | **Lab ID:** QC1005765 | **Batch:** 294755
Matrix (Source ID): Water (466764-001) | **Method:** SM 4500-NH3-G

QC1005765 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Total Kjeldahl	13.04	0.6826	12.50	mg/L	99%		80-120	2.5

Type: Matrix Spike Duplicate | **Lab ID:** QC1005766 | **Batch:** 294755
Matrix (Source ID): Water (466764-001) | **Method:** SM 4500-NH3-G

QC1005766 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Total Kjeldahl	13.38	0.6826	12.50	mg/L	102%		80-120	3	20	2.5

ENTHALPY ANALYTICAL

Batch QC

Type: Blank **Lab ID: QC1006289** **Batch: 294923**
Matrix: Water **Method: SM 4500-P-B5-E**

QC1006289 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Phosphorus	ND		mg/L	0.020	0.0054	08/11/22	08/11/22

Type: Lab Control Sample **Lab ID: QC1006290** **Batch: 294923**
Matrix: Water **Method: SM 4500-P-B5-E**

QC1006290 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phosphorus	0.3970	0.4000	mg/L	99%		80-120

Type: Matrix Spike **Lab ID: QC1006291** **Batch: 294923**
Matrix (Source ID): Water (466831-001) **Method: SM 4500-P-B5-E**

QC1006291 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phosphorus	1.108	0.1170	1.000	mg/L	99%		75-125	2.5

Type: Matrix Spike Duplicate **Lab ID: QC1006292** **Batch: 294923**
Matrix (Source ID): Water (466831-001) **Method: SM 4500-P-B5-E**

QC1006292 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phosphorus	1.105	0.1170	1.000	mg/L	99%		75-125	0	20	2.5

Type: Blank **Lab ID: QC1004994** **Batch: 294481**
Matrix: Water **Method: SM2540C** **Prep Method: METHOD**

QC1004994 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Dissolved Solids	ND		mg/L	10		08/04/22	08/05/22

Type: Lab Control Sample **Lab ID: QC1004995** **Batch: 294481**
Matrix: Water **Method: SM2540C** **Prep Method: METHOD**

QC1004995 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Dissolved Solids	356.0	342.0	mg/L	104%		90-110

ENTHALPY ANALYTICAL

Batch QC

Type:	**Sample Duplicate**	**Lab ID:**	**QC1004996**	**Batch:**	**294481**
Matrix (Source ID):	**Water (466767-001)**	**Method:**	**SM2540C**	**Prep Method:**	**METHOD**

QC1004996 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Dissolved Solids	2,066	2024	mg/L		2	5	2

ND Not Detected

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

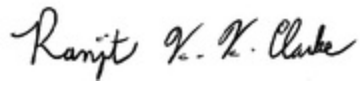
Lab Job Number: 466831
Report Level: II
Report Date: 10/10/2022

Analytical Report *prepared for:*

Kiernan Brtalik
Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001

Project: MALIBU - Annual

Authorized for release by:



Ranjit K Clarke, Client Services Manager
(714) 771-9906
Ranjit.Clarke@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Kiernan Brtalik
Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001

Lab Job #:	466831
Project No:	MALIBU
Location:	Annual
Date Received:	08/04/22

Sample ID	Lab ID	Collected	Matrix
SMBRP-9	466831-001	08/04/22 10:50	Water

ENTHALPY ANALYTICAL

Case Narrative

Rincon Consultants - Ventura 2060 Knoll Drive Unit B Ventura, CA 93001 Kiernan Brtalik	Lab Job Number: 466831 Project No: MALIBU Location: Annual Date Received: 08/04/22

This data package contains sample and QC results for one water sample, requested for the above referenced project on 08/04/22. The sample was received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):

- Low response was observed for 2-chloroethylvinylether in the calibration analyzed 07/26/22 06:41; this analyte was not detected at or above the RL in the associated samples, and affected data was qualified with "b".
- Low response was observed for 2-chloroethylvinylether in the CCV/LCS analyzed 08/10/22 10:11; this analyte was not detected at or above the RL in the associated samples, and affected data was qualified with "b".
- SMBRP-9 (lab # 466831-001) had pH greater than 2.
- No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 524.2):

- 1,2,4-trichlorobenzene was detected between the MDL and the RL in the method blank for batch 294335; this analyte was not detected in the sample at or above the RL.
- SMBRP-9 (lab # 466831-001) had pH greater than 2.
- No other analytical problems were encountered.

Metals (CALCULATION):

No analytical problems were encountered.

Metals (EPA 200.7, EPA 200.8, EPA 245.1, and EPA 245.1):

- High response was observed for boron in the ICV analyzed 08/05/22 12:42; affected data was qualified with "b".
- Antimony was detected at or above the RL in the CCB analyzed 08/05/22 15:12; this analyte was detected in the sample between LOD and RL, was not detected at or above the RL in the associated sample, and affected data was qualified with "b".
- Antimony was detected at or above the RL in the CCB analyzed 08/05/22 14:40; this analyte was detected in samples between LOD and RL, was not detected at or above the RL in the associated samples, and affected data was qualified with "b".
- A number of analytes were detected between the MDL and the RL in the method blank for batch 294423; these analytes were detected in the sample at a level at least 10 times that of the blank.
- A number of analytes were detected between the MDL and the RL in the method blank for batch 294414.
- No other analytical problems were encountered.

Ion Chromatography (EPA 300.0 and EPA 300.0):

- Responses exceeding the instrument's linear range were observed for nitrogen, nitrate in the MS/MSD for batch 294366; affected data was qualified with "E".
- Chloride was detected between the MDL and the RL in the method blank for batch 294366; this analyte was detected in the sample at a level at least 10 times that of the blank.
- No other analytical problems were encountered.

Perchlorate by Ion Chromatography (EPA 314.0):
No analytical problems were encountered.

Total Carbon by High-Temperature Combust (SM 5310B):
No analytical problems were encountered.

Fluoride by ISE (SM 4500-F-C):
No analytical problems were encountered.

Total Phosphorus as P (SM 4500-P-B5-E):
No analytical problems were encountered.

Total Cyanide, Manual Colorimetric (SM 4500-CN-E):
No analytical problems were encountered.

Alkalinity (SM2320B):
No analytical problems were encountered.

CCPP (SM 2330B):
No analytical problems were encountered.

Total Dissolved Solids (TDS) (SM2540C):
No analytical problems were encountered.

Total Suspended Solids (TSS) (SM2540D):
No analytical problems were encountered.

Free Chlorine (SM 4500-CL-G):
No analytical problems were encountered.

pH of Aqueous Samples (SM 4500-H+ B):
No analytical problems were encountered.

Biochemical Oxygen Demand (SM5210B):
No analytical problems were encountered.

Odor (SM 2150B):
No analytical problems were encountered.

Turbidity (SM2130B):
No analytical problems were encountered.

Color by Visual Comparison (SM2120B):
No analytical problems were encountered.

Surfactants (MBAS) (SM5540C):

- MBAS are calculated and reported as Linear Anionic Surfactants with a molecular weight of 348 g/mol.
- No analytical problems were encountered.

Total Coliform / E. coli by Quanti-Tray (SM 9223Bb):
No analytical problems were encountered.

Ammonia and TKN- Semi-Automated Method (SM 4500-NH3-G):
No analytical problems were encountered.

EPA 100.2 Asbestos (EPA 100.2 Asbestos):
SGS Forensic in Hayward, CA performed the analysis (see sublab report section for certifications). Please see the SGS Forensic case narrative.

EPA 1613B - 2,3,7,8-TCDD only (EPA 1613B):
Enthalpy - Wilmington in Wilmington, NC performed the analysis (see sublab report section for certifications). Please see the Enthalpy - Wilmington case narrative.

EPA 508 Chlorinated Pesticides (EPA 508):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 525.2 Semi-Volatile Organics (EPA 525.2):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 547 Glyphosate (EPA 547):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 548.1 Endothall (EPA 548.1):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 549.2 Diquat (EPA 549.2):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 900.0 Gross Alpha and Beta (EPA 900.0):
Pace Analytical - Greensburg in Greensburg, PA performed the analysis (see sublab report section for certifications). Please see the Pace Analytical - Greensburg case narrative.

EPA 903.1 Radium-226 (EPA 903.1):
Pace Analytical - Greensburg in Greensburg, PA performed the analysis (see sublab report section for certifications). Please see the Pace Analytical - Greensburg case narrative.

EPA 904.0 Radium-228 (EPA 904.0):
Pace Analytical - Greensburg in Greensburg, PA performed the analysis (see sublab report section for certifications). Please see the Pace Analytical - Greensburg case narrative.

EPA 906.0 Tritium (EPA 906.0):
Pace Analytical - Greensburg in Greensburg, PA performed the analysis (see sublab report section for certifications). Please see the Pace Analytical - Greensburg case narrative.

EPA 905.0 Strontium-90 (EPA 905.0):
Pace Analytical - Greensburg in Greensburg, PA performed the analysis (see sublab report section for certifications). Please see the Pace Analytical - Greensburg case narrative.

Chlorinated Acids in Drinking Water (EPA 515.4):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 525.3 Pesticides - SUB (EPA 552.3):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 908.1 Uranium in Water - OUT (EPA 908.0):
Pace Analytical - Greensburg in Greensburg, PA performed the analysis (see sublab report section for certifications). Please see the Pace Analytical - Greensburg case narrative.

EPA 1625 Isotope Dilution (EPA 1625):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

Bromate EPA 300.1 -OUT (EPA 300.1):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 1664A Total O&G - OUT (EPA 1664A):
Eurofins Southwest in Tustin, CA performed the analysis (see sublab report section for certifications). Please see the Eurofins Southwest case narrative.

EPA 1694 Pharma, PCP by HPLC/MS/MS (EPA 1694):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 218.6 Hexavalent Chromium by IC (EPA 218.6):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 300.1 Chlorite by IC (EPA 300.1):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 524.3 (EPA 524.3):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 531.2 (EPA 531.2):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 625.1 (EPA 625.1):
Weck Laboratories, Inc. in Hacienda Heights, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

ENTHALPHY ANALYTICAL, INC.		Chain of Custody Record		Turn Around Time (Rush by advanced notice only)					
931 W. Barkley Ave., Orange, CA 92868	ENTHALPY analytical, inc.	Lab No: 460831		Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714) 538-1209		Page: 1 of 3		2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal		Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other		Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					
c/o Montrose Environmental Group									
1 Park Plaza, Suite 1000, Irvine, CA 92614									

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants	Name:	Malibu - Annual
Report To:	Kiernan Brtalik	Number:	20-09665
Email:	Kbrtalik@rinconconsultants.com	P.O. #:	
Address:	180 N. Ashwood Ave.	Address:	
	Ventura, CA 93003		
Phone:		Global ID:	
Cell:		Sampled By:	LANDON L.

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Total /Fecal Coliforms - SM 9223 Quantitray	EPA 200.7 (B), 200.8 (see list), 245.1 (Hg)	EPA 300.0: Cl,Fl,NO2,NO3,SO4; EPA 314.0	SM 4500-CN E; TKN; NH3; Phosphorus	SM 5310C TOC; BOD; TSS; TDS	pH; Residual Cl; MBAS; Turbidity; Color; Odor	SM 2330B Corrosivity; EPA 218.6 Cr VI	EPA 1664A Oil & Grease; EPA 1625M NDMA	EPA 1613 TCDD only; EPA 625 LL SVOCs	EPA 524.2 VOCs (inc. 2-CEVE, A/A)	Test Instructions / Comments
SMBRP-9	8/4/22	1050	GW	53	✓	X	X	X	X	X	X	X	X	X	X	3.5/1.8
[redacted]						X	X	X	X	X	X	X	X	X	X	
[redacted]						X	X	X	X	X	X	X	X	X	X	
[redacted]						X	X	X	X	X	X	X	X	X	X	
[redacted]						X	X	X	X	X	X	X	X	X	X	
MCWP-MW07D						X	X	X	X	X	X	X	X	X	X	
[redacted]						X	X	X	X	X	X	X	X	X	X	

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		LANDON LUJAN	Rincon	8/4/22 / 1420
[1] Received By:		Gerardo Gawat	EA	8.4.22 / 1421
[2] Relinquished By:		Gerardo Gawat	EA	8.4.22 / 1635
[2] Received By:		GCm	EA	8/4/22 1635
[3] Relinquished By:				
[3] Received By:				

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Project: Malibu Annual

Date Received: 8/4/22 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 3.5 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 1.8 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?		✔	
If custody seals are present, were they intact?			✔
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✔		
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?	✔		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?		✔	
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

Missing pages 2 and 3

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 8/4/22

Enthalpy Analytical, a subsidiary of Montrose Environmental Group ,Inc.
931 W. Barkley Ave, Orange, CA 92868 • T: (714) 771-6900 • F: (714) 538-1209
www.enthalpy.com/socal

ENTHALPY ANALYTICAL

Analysis Results for 466831

Kiernan Brtalik
Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001

Lab Job #: 466831
Project No: MALIBU
Location: Annual
Date Received: 08/04/22

Sample ID: SMBRP-9 **Lab ID: 466831-001** **Collected: 08/04/22 10:50**
Matrix: Water

466831-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: CALCULATION Prep Method: EPA 200.8										
Chromium Trivalent	**2.4**		ug/L	1.0		1	294414	08/05/22	10/07/22	KAM
Method: EPA 200.7 Prep Method: EPA 200.7										
Boron	**0.59**		mg/L	0.050	0.0080	1	294423	08/05/22	08/06/22	SBW
Calcium	**66**		mg/L	0.10	0.021	1	294423	08/05/22	08/06/22	SBW
Iron	**1.3**		mg/L	0.020	0.0066	1	294423	08/05/22	08/06/22	SBW
Magnesium	**180**		mg/L	0.10	0.049	1	294423	08/05/22	08/06/22	SBW
Manganese	**0.034**		mg/L	0.010	0.00061	1	294423	08/05/22	08/06/22	SBW
Potassium	**1.2**		mg/L	0.50	0.18	1	294423	08/05/22	08/06/22	SBW
Sodium	**250**		mg/L	0.50	0.035	1	294423	08/05/22	08/06/22	SBW
Method: EPA 200.8 Prep Method: EPA 200.8										
Aluminum	**1,500**		ug/L	10	3.2	1	294414	08/05/22	08/05/22	THP
Antimony	**0.25**	B,J,b	ug/L	0.50	0.060	1	294414	08/05/22	08/05/22	THP
Arsenic	**2.9**	B	ug/L	2.0	0.38	1	294414	08/05/22	08/05/22	THP
Barium	**51**		ug/L	5.0	0.28	1	294414	08/05/22	08/05/22	THP
Beryllium	**0.059**	J	ug/L	0.50	0.050	1	294414	08/05/22	08/05/22	THP
Cadmium	ND		ug/L	0.20	0.033	1	294414	08/05/22	08/05/22	THP
Chromium	**5.6**	B	ug/L	1.0	0.48	1	294414	08/05/22	08/05/22	THP
Copper	**3.7**		ug/L	0.50	0.050	1	294414	08/05/22	08/05/22	THP
Lead	**0.76**		ug/L	0.50	0.044	1	294414	08/05/22	08/05/22	THP
Nickel	**5.2**		ug/L	1.0	0.20	1	294414	08/05/22	08/05/22	THP
Selenium	**3.5**		ug/L	2.0	0.27	1	294414	08/05/22	08/05/22	THP
Silver	ND		ug/L	0.20	0.025	1	294414	08/05/22	08/05/22	THP
Thallium	ND		ug/L	1.0	0.23	1	294414	08/05/22	08/05/22	THP
Zinc	**5.4**	J	ug/L	10	4.2	1	294414	08/05/22	08/05/22	THP
Method: EPA 245.1 Prep Method: METHOD										
Mercury	ND		ug/L	0.20	0.11	1	294450	08/06/22	08/06/22	TNN
Method: EPA 300.0 Prep Method: METHOD										
Fluoride	**0.84**		mg/L	0.20	0.081	1	294366	08/04/22 14:19	08/05/22 01:29	RKV

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466831

466831-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Chloride	**200**		mg/L	10	5.0	10	294366	08/04/22 14:19	08/05/22 01:46	RKV
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	1	294366	08/04/22 14:19	08/05/22 01:29	RKV
Nitrogen, Nitrate	**13**		mg/L	1.0	0.32	10	294366	08/04/22 14:19	08/05/22 01:46	RKV
Sulfate	**270**		mg/L	10	2.5	10	294366	08/04/22 14:19	08/05/22 01:46	RKV
Nitrogen, Nitrate/Nitrite	**13**		mg/L	0.10		1	294366	08/04/22 14:19	08/05/22 01:29	RKV
Method: EPA 314.0 Prep Method: METHOD										
Perchlorate	ND		ug/L	2.0	0.78	1	294671	08/10/22	08/10/22	RKV
Method: EPA 524.2 Prep Method: METHOD										
1,1-Dichloroethene	ND		ug/L	0.50	0.14	1	294335	08/05/22	08/05/22	ILK
Benzene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
Trichloroethene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
Toluene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
Chlorobenzene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
Chloromethane	ND		ug/L	0.50	0.14	1	294335	08/05/22	08/05/22	ILK
Vinyl Chloride	ND		ug/L	0.50	0.12	1	294335	08/05/22	08/05/22	ILK
Bromomethane	ND		ug/L	1.0	0.17	1	294335	08/05/22	08/05/22	ILK
Chloroethane	ND		ug/L	0.50	0.16	1	294335	08/05/22	08/05/22	ILK
Trichlorofluoromethane	ND		ug/L	0.50	0.15	1	294335	08/05/22	08/05/22	ILK
Freon 113	ND		ug/L	0.50	0.13	1	294335	08/05/22	08/05/22	ILK
Methylene Chloride	ND		ug/L	0.50	0.36	1	294335	08/05/22	08/05/22	ILK
MTBE	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.14	1	294335	08/05/22	08/05/22	ILK
1,1-Dichloroethane	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.14	1	294335	08/05/22	08/05/22	ILK
Chloroform	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
1,1,1-Trichloroethane	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
Carbon Tetrachloride	ND		ug/L	0.50	0.14	1	294335	08/05/22	08/05/22	ILK
1,2-Dichloroethane	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
1,2-Dichloropropane	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
Bromodichloromethane	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.13	1	294335	08/05/22	08/05/22	ILK
1,1,2-Trichloroethane	ND		ug/L	0.50	0.13	1	294335	08/05/22	08/05/22	ILK
Tetrachloroethene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
Dibromochloromethane	ND		ug/L	0.50	0.13	1	294335	08/05/22	08/05/22	ILK
Ethylbenzene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
m,p-Xylenes	ND		ug/L	1.0	0.10	1	294335	08/05/22	08/05/22	ILK
Styrene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
Bromoform	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.16	1	294335	08/05/22	08/05/22	ILK

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466831

466831-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
1,3-Dichlorobenzene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
1,4-Dichlorobenzene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
1,2-Dichlorobenzene	ND		ug/L	0.50	0.10	1	294335	08/05/22	08/05/22	ILK
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.11	1	294335	08/05/22	08/05/22	ILK
Method: EPA 8260B Prep Method: EPA 5030B										
2-Chloroethylvinylether	ND	b	ug/L	50	0.6	1	294758	08/10/22	08/10/22	ILK
Acrolein	ND		ug/L	200	1.2	1	294510	08/07/22	08/07/22	ILK
Acrylonitrile	ND		ug/L	10	0.6	1	294510	08/07/22	08/07/22	ILK
Surrogates				**Limits**						
Dibromofluoromethane	99%		%REC	70-140		1	294510	08/07/22	08/07/22	ILK
1,2-Dichloroethane-d4	101%		%REC	70-140	4.9	1	294510	08/07/22	08/07/22	ILK
Toluene-d8	102%		%REC	70-140	5.2	1	294510	08/07/22	08/07/22	ILK
Bromofluorobenzene	100%		%REC	70-140	4.9	1	294510	08/07/22	08/07/22	ILK
Method: SM 2150B										
Odor	ND		TON	1.0		1	294400	08/04/22 18:31	08/04/22 18:31	LVL
Method: SM 2330B										
CCPP	**0.19**		SU			1	294898	08/11/22	08/11/22	SLL
Method: SM 4500-CL-G										
Chlorine, Total Residual	**0.089**	H,J	mg/L	0.10	0.026	1	294422	08/05/22 09:23	08/05/22 09:23	ATP
Method: SM 4500-CN-E Prep Method: METHOD										
Cyanide	ND		mg/L	0.010	0.0034	1	295069	08/15/22	08/15/22	ATP
Method: SM 4500-F-C										
Fluoride	**0.92**		mg/L	0.10	0.0059	1	294990	08/12/22	08/12/22	LVL
Method: SM 4500-H+ B										
pH	**7.24**	H	SU			1	294440	08/04/22 18:17	08/04/22 18:17	LVL
Temperature	**17.30**	H	deg C	1.00		1	294440	08/04/22 18:17	08/04/22 18:17	LVL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.045	1	294687	08/09/22	08/09/22	ATP
Nitrogen, Total Kjeldahl	**0.13**	J	mg/L	0.40	0.12	1	294755	08/10/22	08/10/22	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.12**		mg/L	0.020	0.0054	1	294923	08/11/22	08/11/22	ATP
Method: SM 5310B										
Total Organic Carbon	ND		mg/L	1.0	0.23	1	294485	08/05/22	08/05/22	ATP
Method: SM 9223Bb										
Coliform, Total	**56**		MPN/100ml	1.0		1	294401	08/04/22 18:40	08/05/22 13:42	AJL
Fecal Coliform	<1.0		MPN/100ml	1.0		1	294401	08/04/22 18:40	08/05/22 13:42	AJL
Method: SM2120B										

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466831

466831-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Color	**30**		ColorUnits	5		1	294445	08/04/22 18:31	08/04/22 18:31	LVL
Method: SM2130B										
Turbidity	**41**		NTU	0.20	0.04	2	294444	08/04/22 18:31	08/04/22 18:31	LVL
Method: SM2320B Prep Method: METHOD										
Bicarbonate	**800**		mg/L	13		2.5	294863	08/10/22	08/10/22	WWC
Carbonate	ND		mg/L	13		2.5	294863	08/10/22	08/10/22	WWC
Hydroxide	ND		mg/L	13		2.5	294863	08/10/22	08/10/22	WWC
Alkalinity, Total as CaCO3	**660**		mg/L	13		2.5	294863	08/10/22	08/10/22	WWC
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**1,500**		mg/L	20		2	294682	08/09/22	08/10/22	DNA
Method: SM2540D Prep Method: METHOD										
Total Suspended Solids	**54**		mg/L	0.6		1.1	294750	08/05/22	08/05/22	ATP
Method: SM5210B Prep Method: METHOD										
Biochemical Oxygen Demand	ND		mg/L	3.0		1	294451	08/05/22 10:31	08/10/22 11:46	WWC
Method: SM5540C										
Surfactants (MBAS)	ND		mg/L	0.040	0.029	1	294916	08/05/22 09:20	08/05/22 18:07	LVL

<	Value is less than indicated concentration
B	Contamination found in associated Method Blank
H	Holding time was exceeded
J	Estimated value
ND	Not Detected
b	See narrative

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC1004811	**Batch:** 294423
Matrix: Water	**Method:** EPA 200.7	**Prep Method:** EPA 200.7

QC1004811 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Boron	ND		mg/L	0.050	0.0080	08/05/22	08/05/22
Calcium	ND		mg/L	0.10	0.021	08/05/22	08/05/22
Iron	0.011	J	mg/L	0.020	0.0066	08/05/22	08/09/22
Magnesium	0.079	J	mg/L	0.10	0.049	08/05/22	08/05/22
Manganese	0.00068	J	mg/L	0.010	0.00061	08/05/22	08/05/22
Potassium	ND		mg/L	0.50	0.18	08/05/22	08/05/22
Sodium	0.060	J	mg/L	0.50	0.035	08/05/22	08/05/22

Type: Lab Control Sample	**Lab ID:** QC1004812	**Batch:** 294423
Matrix: Water	**Method:** EPA 200.7	**Prep Method:** EPA 200.7

QC1004812 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Boron	0.4158	0.4000	mg/L	104%	b	85-115
Calcium	19.68	18.40	mg/L	107%		85-115
Iron	0.4246	0.4000	mg/L	106%		85-115
Magnesium	20.35	18.40	mg/L	111%		85-115
Manganese	0.4157	0.4000	mg/L	104%		85-115
Potassium	22.18	22.00	mg/L	101%		85-115
Sodium	18.79	18.40	mg/L	102%		85-115

Type: Matrix Spike	**Lab ID:** QC1004813	**Batch:** 294423
Matrix (Source ID): Water (466782-001)	**Method:** EPA 200.7	**Prep Method:** EPA 200.7

QC1004813 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Boron	0.6598	0.2635	0.4000	mg/L	99%		75-125	1
Calcium	40.17	17.96	19.40	mg/L	114%		75-125	1
Iron	0.4005	0.01253	0.4000	mg/L	97%		75-125	1
Magnesium	25.64	3.503	19.40	mg/L	114%		75-125	1
Manganese	0.3786	0.004787	0.4000	mg/L	93%		75-125	1
Potassium	25.67	1.192	23.00	mg/L	106%		75-125	1
Sodium	122.7	97.26	19.40	mg/L	131%	NM	75-125	1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1004814**	**Batch:**	**294423**
Matrix (Source ID):	**Water (466782-001)**	**Method:**	**EPA 200.7**	**Prep Method:**	**EPA 200.7**

QC1004814 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Boron	0.6341	0.2635	0.4000	mg/L	93%		75-125	4	20	1
Calcium	39.23	17.96	19.40	mg/L	110%		75-125	2	20	1
Iron	0.3885	0.01253	0.4000	mg/L	94%		75-125	3	20	1
Magnesium	25.30	3.503	19.40	mg/L	112%		75-125	1	20	1
Manganese	0.3659	0.004787	0.4000	mg/L	90%		75-125	3	20	1
Potassium	25.11	1.192	23.00	mg/L	104%		75-125	2	20	1
Sodium	119.3	97.26	19.40	mg/L	113%	NM	75-125	3	20	1

Type:	**Blank**	**Lab ID:**	**QC1004782**	**Batch:**	**294414**
Matrix:	**Water**				

QC1004782 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Method: CALCULATION Prep Method: EPA 200.8							
Chromium Trivalent	ND		ug/L	1.0		08/05/22	10/07/22
Method: EPA 200.8 Prep Method: EPA 200.8							
Aluminum	ND		ug/L	10	3.2	08/05/22	08/05/22
Antimony	0.073	J,b	ug/L	0.50	0.060	08/05/22	08/05/22
Arsenic	0.44	J	ug/L	2.0	0.38	08/05/22	08/05/22
Barium	ND		ug/L	5.0	0.28	08/05/22	08/05/22
Beryllium	ND		ug/L	0.50	0.050	08/05/22	08/05/22
Cadmium	ND		ug/L	0.20	0.033	08/05/22	08/05/22
Chromium	0.92	J	ug/L	1.0	0.48	08/05/22	08/05/22
Copper	0.19	J	ug/L	0.50	0.050	08/05/22	08/05/22
Lead	ND		ug/L	0.50	0.044	08/05/22	08/05/22
Nickel	ND		ug/L	1.0	0.20	08/05/22	08/05/22
Selenium	ND		ug/L	2.0	0.27	08/05/22	08/05/22
Silver	ND		ug/L	0.20	0.025	08/05/22	08/05/22
Thallium	ND		ug/L	1.0	0.23	08/05/22	08/05/22
Zinc	ND		ug/L	10	4.2	08/05/22	08/05/22

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	Lab ID: QC1004783	Batch: 294414
Matrix: Water	Method: EPA 200.8	Prep Method: EPA 200.8

QC1004783 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Aluminum	96.82	100.0	ug/L	97%		85-115
Antimony	107.1	100.0	ug/L	107%		85-115
Arsenic	101.2	100.0	ug/L	101%		85-115
Barium	100.0	100.0	ug/L	100%		85-115
Beryllium	109.8	100.0	ug/L	110%		85-115
Cadmium	102.8	100.0	ug/L	103%		85-115
Chromium	103.2	100.0	ug/L	103%		85-115
Copper	101.9	100.0	ug/L	102%		85-115
Lead	93.85	100.0	ug/L	94%		85-115
Nickel	103.0	100.0	ug/L	103%		85-115
Selenium	102.5	100.0	ug/L	103%		85-115
Silver	49.14	50.00	ug/L	98%		85-115
Thallium	92.30	100.0	ug/L	92%		85-115
Zinc	105.3	100.0	ug/L	105%		85-115

Type: Matrix Spike	Lab ID: QC1004788	Batch: 294414
Matrix (Source ID): Water (466803-001)	Method: EPA 200.8	Prep Method: EPA 200.8

QC1004788 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Aluminum	91.17	ND	100.0	ug/L	91%		70-130	1
Antimony	102.8	ND	100.0	ug/L	103%		70-130	1
Arsenic	98.13	0.6000	100.0	ug/L	98%		70-130	1
Barium	93.35	ND	100.0	ug/L	93%		70-130	1
Beryllium	108.1	ND	100.0	ug/L	108%		70-130	1
Cadmium	98.77	ND	100.0	ug/L	99%		70-130	1
Chromium	99.42	1.239	100.0	ug/L	98%		70-130	1
Copper	96.84	0.07200	100.0	ug/L	97%		70-130	1
Lead	87.24	ND	100.0	ug/L	87%		70-130	1
Nickel	97.27	ND	100.0	ug/L	97%		70-130	1
Selenium	98.61	0.3280	100.0	ug/L	98%		70-130	1
Silver	45.99	ND	50.00	ug/L	92%		70-130	1
Thallium	86.63	ND	100.0	ug/L	87%		70-130	1
Zinc	101.1	ND	100.0	ug/L	101%		70-130	1

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike Duplicate	**Lab ID:**	QC1004789	**Batch:**	294414
Matrix (Source ID):	Water (466803-001)	**Method:**	EPA 200.8	**Prep Method:**	EPA 200.8

QC1004789 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Aluminum	90.38	ND	100.0	ug/L	90%		70-130	1	20	1
Antimony	102.1	ND	100.0	ug/L	102%		70-130	1	20	1
Arsenic	97.84	0.6000	100.0	ug/L	97%		70-130	0	20	1
Barium	92.67	ND	100.0	ug/L	93%		70-130	1	20	1
Beryllium	107.3	ND	100.0	ug/L	107%		70-130	1	20	1
Cadmium	97.71	ND	100.0	ug/L	98%		70-130	1	20	1
Chromium	97.37	1.239	100.0	ug/L	96%		70-130	2	20	1
Copper	95.67	0.07200	100.0	ug/L	96%		70-130	1	20	1
Lead	86.67	ND	100.0	ug/L	87%		70-130	1	20	1
Nickel	95.79	ND	100.0	ug/L	96%		70-130	2	20	1
Selenium	98.90	0.3280	100.0	ug/L	99%		70-130	0	20	1
Silver	45.73	ND	50.00	ug/L	91%		70-130	1	20	1
Thallium	85.99	ND	100.0	ug/L	86%		70-130	1	20	1
Zinc	100.4	ND	100.0	ug/L	100%		70-130	1	20	1

Type:	Blank	**Lab ID:**	QC1004892	**Batch:**	294450
Matrix:	Water	**Method:**	EPA 245.1	**Prep Method:**	METHOD

QC1004892 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Mercury	ND		ug/L	0.20	0.11	08/06/22	08/06/22

Type:	Lab Control Sample	**Lab ID:**	QC1004893	**Batch:**	294450
Matrix:	Water	**Method:**	EPA 245.1	**Prep Method:**	METHOD

QC1004893 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Mercury	4.989	5.000	ug/L	100%		80-120

Type:	Matrix Spike	**Lab ID:**	QC1004894	**Batch:**	294450
Matrix (Source ID):	Water (466789-001)	**Method:**	EPA 245.1	**Prep Method:**	METHOD

QC1004894 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	4.471	ND	5.000	ug/L	89%		75-125	1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1004895**	**Batch:**	**294450**
Matrix (Source ID):	**Water (466789-001)**	**Method:**	**EPA 245.1**	**Prep Method:**	**METHOD**

QC1004895 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	4.427	ND	5.000	ug/L	89%		75-125	1	20	1

Type:	**Matrix Spike**	**Lab ID:**	**QC1004896**	**Batch:**	**294450**
Matrix (Source ID):	**Water (466808-001)**	**Method:**	**EPA 245.1**	**Prep Method:**	**METHOD**

QC1004896 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	4.749	ND	5.000	ug/L	95%		75-125	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1004897**	**Batch:**	**294450**
Matrix (Source ID):	**Water (466808-001)**	**Method:**	**EPA 245.1**	**Prep Method:**	**METHOD**

QC1004897 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	4.790	ND	5.000	ug/L	96%		75-125	1	20	1

Type:	**Blank**	**Lab ID:**	**QC1004646**	**Batch:**	**294366**
Matrix:	**Water**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC1004646 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Fluoride	ND		mg/L	0.20	0.081	08/04/22 14:19	08/04/22 21:49
Chloride	0.66	J	mg/L	1.0	0.50	08/04/22 14:19	08/04/22 21:49
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	08/04/22 14:19	08/04/22 21:49
Nitrogen, Nitrate	ND		mg/L	0.10	0.03	08/04/22 14:19	08/04/22 21:49
Sulfate	ND		mg/L	1.0	0.25	08/04/22 14:19	08/04/22 21:49
Nitrogen, Nitrate/Nitrite	ND		mg/L	0.10		08/04/22 14:19	08/04/22 21:49

Type:	**Lab Control Sample**	**Lab ID:**	**QC1004647**	**Batch:**	**294366**
Matrix:	**Water**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC1004647 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Fluoride	4.789	5.000	mg/L	96%		90-110
Chloride	25.76	25.00	mg/L	103%		90-110
Nitrogen, Nitrite	2.433	2.283	mg/L	107%		90-110
Nitrogen, Nitrate	2.370	2.259	mg/L	105%		90-110
Sulfate	13.10	12.50	mg/L	105%		90-110

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1004648**	**Batch:**	**294366**
Matrix (Source ID):	**Water (466789-001)**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC1004648 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Fluoride	4.816	0.9508	4.000	mg/L	97%		80-120	1
Chloride	171.9	154.7	20.00	mg/L	86%	E,NM	80-120	1
Nitrogen, Nitrite	2.542	0.5607	1.827	mg/L	108%		80-120	1
Nitrogen, Nitrate	6.943	4.940	1.807	mg/L	111%	E	80-120	1
Sulfate	468.9	466.4	10.00	mg/L	26%	E,NM	80-120	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1004649**	**Batch:**	**294366**
Matrix (Source ID):	**Water (466789-001)**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC1004649 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Fluoride	4.778	0.9508	4.000	mg/L	96%		80-120	1	20	1
Chloride	171.5	154.7	20.00	mg/L	84%	E,NM	80-120		20	1
Nitrogen, Nitrite	2.515	0.5607	1.827	mg/L	107%		80-120	1	20	1
Nitrogen, Nitrate	6.920	4.940	1.807	mg/L	110%	E	80-120		20	1
Sulfate	469.2	466.4	10.00	mg/L	28%	E,NM	80-120		20	1

Type:	**Matrix Spike**	**Lab ID:**	**QC1004650**	**Batch:**	**294366**
Matrix (Source ID):	**Water (466806-001)**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC1004650 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Fluoride	3.903	ND	4.000	mg/L	98%		80-120	1
Chloride	21.65	1.304	20.00	mg/L	102%		80-120	1
Nitrogen, Nitrite	1.990	ND	1.827	mg/L	109%		80-120	1
Nitrogen, Nitrate	2.151	0.1475	1.807	mg/L	111%		80-120	1
Sulfate	14.97	3.968	10.00	mg/L	110%		80-120	1

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike Duplicate	Lab ID:	QC1004651	Batch:	294366
Matrix (Source ID):	Water (466806-001)	Method:	EPA 300.0	Prep Method:	METHOD

QC1004651 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Fluoride	3.936	ND	4.000	mg/L	98%		80-120	1	20	1
Chloride	21.85	1.304	20.00	mg/L	103%		80-120	1	20	1
Nitrogen, Nitrite	2.010	ND	1.827	mg/L	110%		80-120	1	20	1
Nitrogen, Nitrate	2.176	0.1475	1.807	mg/L	112%		80-120	1	20	1
Sulfate	15.09	3.968	10.00	mg/L	111%		80-120	1	20	1

Type:	Blank	Lab ID:	QC1005556	Batch:	294671
Matrix:	Drinking Water	Method:	EPA 314.0	Prep Method:	METHOD

QC1005556 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Perchlorate	ND		ug/L	2.0	0.78	08/10/22	08/10/22

Type:	Lab Control Sample	Lab ID:	QC1005557	Batch:	294671
Matrix:	Drinking Water	Method:	EPA 314.0	Prep Method:	METHOD

QC1005557 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Perchlorate	51.28	50.00	ug/L	103%		85-115

Type:	Matrix Spike	Lab ID:	QC1005558	Batch:	294671
Matrix (Source ID):	Drinking Water (466774-008)	Method:	EPA 314.0	Prep Method:	METHOD

QC1005558 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Perchlorate	27.71	ND	25.00	ug/L	111%		80-120	1

Type:	Matrix Spike Duplicate	Lab ID:	QC1005559	Batch:	294671
Matrix (Source ID):	Drinking Water (466774-008)	Method:	EPA 314.0	Prep Method:	METHOD

QC1005559 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Perchlorate	28.81	ND	25.00	ug/L	115%		80-120	4	15	1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC1004559		**Batch:** 294335
Matrix: Water	**Method:** EPA 524.2		**Prep Method:** METHOD

QC1004559 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
1,1-Dichloroethene	ND		ug/L	0.50	0.14	08/04/22	08/04/22
Benzene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Trichloroethene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Toluene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Chlorobenzene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Chloromethane	ND		ug/L	0.50	0.14	08/04/22	08/04/22
Vinyl Chloride	ND		ug/L	0.50	0.12	08/04/22	08/04/22
Bromomethane	ND		ug/L	1.0	0.17	08/04/22	08/04/22
Chloroethane	ND		ug/L	0.50	0.16	08/04/22	08/04/22
Trichlorofluoromethane	ND		ug/L	0.50	0.15	08/04/22	08/04/22
Freon 113	ND		ug/L	0.50	0.13	08/04/22	08/04/22
Methylene Chloride	ND		ug/L	0.50	0.36	08/04/22	08/04/22
MTBE	ND		ug/L	0.50	0.10	08/04/22	08/04/22
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.14	08/04/22	08/04/22
1,1-Dichloroethane	ND		ug/L	0.50	0.10	08/04/22	08/04/22
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.14	08/04/22	08/04/22
Chloroform	ND		ug/L	0.50	0.10	08/04/22	08/04/22
1,1,1-Trichloroethane	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Carbon Tetrachloride	ND		ug/L	0.50	0.14	08/04/22	08/04/22
1,2-Dichloroethane	ND		ug/L	0.50	0.10	08/04/22	08/04/22
1,2-Dichloropropane	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Bromodichloromethane	ND		ug/L	0.50	0.10	08/04/22	08/04/22
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.13	08/04/22	08/04/22
1,1,2-Trichloroethane	ND		ug/L	0.50	0.13	08/04/22	08/04/22
Tetrachloroethene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Dibromochloromethane	ND		ug/L	0.50	0.13	08/04/22	08/04/22
Ethylbenzene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
m,p-Xylenes	ND		ug/L	1.0	0.10	08/04/22	08/04/22
Styrene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
Bromoform	ND		ug/L	0.50	0.10	08/04/22	08/04/22
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.16	08/04/22	08/04/22
1,3-Dichlorobenzene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
1,4-Dichlorobenzene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
1,2-Dichlorobenzene	ND		ug/L	0.50	0.10	08/04/22	08/04/22
1,2,4-Trichlorobenzene	0.12	J	ug/L	0.50	0.11	08/04/22	08/04/22
Surrogates				**Limits**			
Bromofluorobenzene	103%		%REC	70-140		08/04/22	08/04/22
1,2-Dichloroethane-d4	99%		%REC	70-140		08/04/22	08/04/22
Dibromofluoromethane	95%		%REC	70-140		08/04/22	08/04/22
Toluene-d8	97%		%REC	70-140		08/04/22	08/04/22

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	Lab ID: QC1004560	Batch: 294335
Matrix: Water	Method: EPA 524.2	Prep Method: METHOD

QC1004560 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1-Dichloroethene	7.648	10.00	ug/L	76%		70-135
Benzene	10.14	10.00	ug/L	101%		70-130
Trichloroethene	10.54	10.00	ug/L	105%		70-130
Toluene	9.462	10.00	ug/L	95%		70-130
Chlorobenzene	9.555	10.00	ug/L	96%		70-130
MTBE	10.04	10.00	ug/L	100%		70-130
Surrogates						
Bromofluorobenzene	12.90	12.50	ug/L	103%		70-140
1,2-Dichloroethane-d4	12.75	12.50	ug/L	102%		70-140
Dibromofluoromethane	12.10	12.50	ug/L	97%		70-140
Toluene-d8	12.28	12.50	ug/L	98%		70-140

Type: Lab Control Sample Duplicate	Lab ID: QC1004561	Batch: 294335
Matrix: Water	Method: EPA 524.2	Prep Method: METHOD

QC1004561 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
1,1-Dichloroethene	7.144	10.00	ug/L	71%		70-135	7	30
Benzene	9.856	10.00	ug/L	99%		70-130	3	30
Trichloroethene	10.24	10.00	ug/L	102%		70-130	3	30
Toluene	9.164	10.00	ug/L	92%		70-130	3	30
Chlorobenzene	9.388	10.00	ug/L	94%		70-130	2	30
MTBE	10.10	10.00	ug/L	101%		70-130	1	30
Surrogates								
Bromofluorobenzene	12.41	12.50	ug/L	99%		70-140		
1,2-Dichloroethane-d4	12.91	12.50	ug/L	103%		70-140		
Dibromofluoromethane	12.48	12.50	ug/L	100%		70-140		
Toluene-d8	11.85	12.50	ug/L	95%		70-140		

Type: Blank	Lab ID: QC1005093	Batch: 294510
Matrix: Water	Method: EPA 8260B	Prep Method: EPA 5030B

QC1005093 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Acrolein	ND		ug/L	200	1.2	08/07/22	08/07/22
Acrylonitrile	ND		ug/L	10	0.6	08/07/22	08/07/22
Surrogates				**Limits**			
Dibromofluoromethane	95%		%REC	70-140		08/07/22	08/07/22
1,2-Dichloroethane-d4	100%		%REC	70-140	4.9	08/07/22	08/07/22
Toluene-d8	102%		%REC	70-140	5.2	08/07/22	08/07/22
Bromofluorobenzene	102%		%REC	70-140	4.9	08/07/22	08/07/22

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	Lab ID: QC1005094	Batch: 294510
Matrix: Water	Method: EPA 8260B	Prep Method: EPA 5030B

QC1005094 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1-Dichloroethene	54.87	50.00	ug/L	110%		70-135
Benzene	49.77	50.00	ug/L	100%		70-130
Trichloroethene	51.15	50.00	ug/L	102%		70-130
Toluene	49.25	50.00	ug/L	98%		70-130
Chlorobenzene	50.70	50.00	ug/L	101%		70-130
Surrogates						
Dibromofluoromethane	50.72	50.00	ug/L	101%		70-140
1,2-Dichloroethane-d4	50.27	50.00	ug/L	101%		70-140
Toluene-d8	49.74	50.00	ug/L	99%		70-140
Bromofluorobenzene	51.52	50.00	ug/L	103%		70-140

Type: Lab Control Sample Duplicate	Lab ID: QC1005095	Batch: 294510
Matrix: Water	Method: EPA 8260B	Prep Method: EPA 5030B

QC1005095 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
1,1-Dichloroethene	56.46	50.00	ug/L	113%		70-135	3	30
Benzene	51.01	50.00	ug/L	102%		70-130	2	30
Trichloroethene	50.92	50.00	ug/L	102%		70-130	0	30
Toluene	48.73	50.00	ug/L	97%		70-130	1	30
Chlorobenzene	50.20	50.00	ug/L	100%		70-130	1	30
Surrogates								
Dibromofluoromethane	50.68	50.00	ug/L	101%		70-140		
1,2-Dichloroethane-d4	51.00	50.00	ug/L	102%		70-140		
Toluene-d8	48.96	50.00	ug/L	98%		70-140		
Bromofluorobenzene	48.34	50.00	ug/L	97%		70-140		

Type: Blank	Lab ID: QC1005776	Batch: 294758
Matrix: Water	Method: EPA 8260B	Prep Method: EPA 5030B

QC1005776 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
2-Chloroethylvinylether	ND	b	ug/L	50	0.6	08/10/22	08/10/22
Acrylonitrile	ND		ug/L	10	0.1	08/10/22	08/10/22
Surrogates				**Limits**			
Dibromofluoromethane	104%		%REC	70-140	1.8	08/10/22	08/10/22
1,2-Dichloroethane-d4	104%		%REC	70-140	9.2	08/10/22	08/10/22
Toluene-d8	100%		%REC	70-140	3.9	08/10/22	08/10/22
Bromofluorobenzene	98%		%REC	70-140		08/10/22	08/10/22

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	Lab ID: QC1005777	Batch: 294758
Matrix: Water	Method: EPA 8260B	Prep Method: EPA 5030B

QC1005777 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1-Dichloroethene	51.74	50.00	ug/L	103%		70-135
Benzene	52.81	50.00	ug/L	106%		70-130
Trichloroethene	53.92	50.00	ug/L	108%		70-130
Toluene	52.16	50.00	ug/L	104%		70-130
Chlorobenzene	51.90	50.00	ug/L	104%		70-130
Surrogates						
Dibromofluoromethane	51.03	50.00	ug/L	102%		70-140
1,2-Dichloroethane-d4	50.36	50.00	ug/L	101%		70-140
Toluene-d8	50.88	50.00	ug/L	102%		70-140
Bromofluorobenzene	49.44	50.00	ug/L	99%		70-140

Type: Lab Control Sample Duplicate	Lab ID: QC1005778	Batch: 294758
Matrix: Water	Method: EPA 8260B	Prep Method: EPA 5030B

QC1005778 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
1,1-Dichloroethene	42.25	50.00	ug/L	84%		70-135	20	30
Benzene	44.88	50.00	ug/L	90%		70-130	16	30
Trichloroethene	44.76	50.00	ug/L	90%		70-130	19	30
Toluene	43.77	50.00	ug/L	88%		70-130	17	30
Chlorobenzene	44.18	50.00	ug/L	88%		70-130	16	30
Surrogates								
Dibromofluoromethane	50.13	50.00	ug/L	100%		70-140		
1,2-Dichloroethane-d4	46.02	50.00	ug/L	92%		70-140		
Toluene-d8	50.73	50.00	ug/L	101%		70-140		
Bromofluorobenzene	50.68	50.00	ug/L	101%		70-140		

Type: Sample Duplicate	Lab ID: QC1004736	Batch: 294400
Matrix (Source ID): Water (466831-001)	Method: SM 2150B	

QC1004736 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Odor	ND	ND	TON			20	1

Type: Blank	Lab ID: QC1004808	Batch: 294422
Matrix: Water	Method: SM 4500-CL-G	

QC1004808 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Chlorine, Total Residual	ND		mg/L	0.10	0.026	08/05/22 09:23	08/05/22 09:23

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	**Lab ID:** QC1004809	**Batch:** 294422
Matrix: Water	**Method:** SM 4500-CL-G	

QC1004809 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chlorine, Total Residual	0.9900	1.000	mg/L	99%		80-120

Type: Sample Duplicate	**Lab ID:** QC1004810	**Batch:** 294422
Matrix (Source ID): Water (466831-001)	**Method:** SM 4500-CL-G	

QC1004810 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Chlorine, Total Residual	ND	0.08900	mg/L		2	20	1

Type: Blank	**Lab ID:** QC1006700	**Batch:** 295069
Matrix: Water	**Method:** SM 4500-CN-E	**Prep Method:** METHOD

QC1006700 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Cyanide	ND		mg/L	0.010	0.0034	08/15/22	08/15/22

Type: Lab Control Sample	**Lab ID:** QC1006701	**Batch:** 295069
Matrix: Water	**Method:** SM 4500-CN-E	**Prep Method:** METHOD

QC1006701 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Cyanide	0.1710	0.2000	mg/L	86%		73-123

Type: Matrix Spike	**Lab ID:** QC1006702	**Batch:** 295069
Matrix (Source ID): Water (466782-006)	**Method:** SM 4500-CN-E	**Prep Method:** METHOD

QC1006702 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Cyanide	0.1700	ND	0.2000	mg/L	85%		56-129	1

Type: Matrix Spike Duplicate	**Lab ID:** QC1006703	**Batch:** 295069
Matrix (Source ID): Water (466782-006)	**Method:** SM 4500-CN-E	**Prep Method:** METHOD

QC1006703 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Cyanide	0.1730	ND	0.2000	mg/L	87%		56-129	2	37	1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank **Lab ID:** QC1006471 **Batch:** 294990
Matrix: Drinking Water **Method:** SM 4500-F-C

QC1006471 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Fluoride	ND		mg/L	0.10	0.0059	08/12/22	08/12/22

Type: Lab Control Sample **Lab ID:** QC1006472 **Batch:** 294990
Matrix: Drinking Water **Method:** SM 4500-F-C

QC1006472 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Fluoride	1.010	1.000	mg/L	101%		80-120

Type: Matrix Spike **Lab ID:** QC1006473 **Batch:** 294990
Matrix (Source ID): Drinking Water (467206-002) **Method:** SM 4500-F-C

QC1006473 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Fluoride	1.030	ND	1.000	mg/L	100%		75-125	1

Type: Matrix Spike Duplicate **Lab ID:** QC1006474 **Batch:** 294990
Matrix (Source ID): Drinking Water (467206-002) **Method:** SM 4500-F-C

QC1006474 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Fluoride	1.040	ND	1.000	mg/L	101%		75-125	1	20	1

Type: Sample Duplicate **Lab ID:** QC1004863 **Batch:** 294440
Matrix (Source ID): Water (466806-001) **Method:** SM 4500-H+ B

QC1004863 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
pH	6.810	6.930	SU		2	20	1
Temperature	23.00	22.90	deg C		0	20	1

Type: Blank **Lab ID:** QC1005611 **Batch:** 294687
Matrix: Water **Method:** SM 4500-NH3-G

QC1005611 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Ammonia-N	ND		mg/L	0.10	0.045	08/09/22	08/09/22

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	Lab ID: QC1005612	Batch: 294687
Matrix: Water	Method: SM 4500-NH3-G	

QC1005612 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Ammonia-N	2.391	2.500	mg/L	96%		80-120

Type: Matrix Spike	Lab ID: QC1005613	Batch: 294687
Matrix (Source ID): Water (466831-001)	Method: SM 4500-NH3-G	

QC1005613 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Ammonia-N	2.339	ND	2.500	mg/L	94%		80-120	1

Type: Matrix Spike Duplicate	Lab ID: QC1005614	Batch: 294687
Matrix (Source ID): Water (466831-001)	Method: SM 4500-NH3-G	

QC1005614 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Ammonia-N	2.253	ND	2.500	mg/L	90%		80-120	4	20	1

Type: Blank	Lab ID: QC1005763	Batch: 294755
Matrix: Water	Method: SM 4500-NH3-G	

QC1005763 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Total Kjeldahl	ND		mg/L	0.20	0.062	08/10/22	08/10/22

Type: Lab Control Sample	Lab ID: QC1005764	Batch: 294755
Matrix: Water	Method: SM 4500-NH3-G	

QC1005764 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Total Kjeldahl	2.691	2.500	mg/L	108%		80-120

Type: Matrix Spike	Lab ID: QC1005765	Batch: 294755
Matrix (Source ID): Water (466764-001)	Method: SM 4500-NH3-G	

QC1005765 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Total Kjeldahl	13.04	0.6826	12.50	mg/L	99%		80-120	2.5

ENTHALPY ANALYTICAL

Batch QC

Type: Matrix Spike Duplicate **Lab ID:** QC1005766 **Batch:** 294755
Matrix (Source ID): Water (466764-001) **Method:** SM 4500-NH3-G

QC1005766 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Total Kjeldahl	13.38	0.6826	12.50	mg/L	102%		80-120	3	20	2.5

Type: Blank **Lab ID:** QC1006289 **Batch:** 294923
Matrix: Water **Method:** SM 4500-P-B5-E

QC1006289 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Phosphorus	ND		mg/L	0.020	0.0054	08/11/22	08/11/22

Type: Lab Control Sample **Lab ID:** QC1006290 **Batch:** 294923
Matrix: Water **Method:** SM 4500-P-B5-E

QC1006290 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phosphorus	0.3970	0.4000	mg/L	99%		80-120

Type: Matrix Spike **Lab ID:** QC1006291 **Batch:** 294923
Matrix (Source ID): Water (466831-001) **Method:** SM 4500-P-B5-E

QC1006291 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phosphorus	1.108	0.1170	1.000	mg/L	99%		75-125	2.5

Type: Matrix Spike Duplicate **Lab ID:** QC1006292 **Batch:** 294923
Matrix (Source ID): Water (466831-001) **Method:** SM 4500-P-B5-E

QC1006292 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phosphorus	1.105	0.1170	1.000	mg/L	99%		75-125	0	20	2.5

Type: Blank **Lab ID:** QC1005003 **Batch:** 294485
Matrix: Water **Method:** SM 5310B

QC1005003 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Organic Carbon	ND		mg/L	1.0	0.23	08/05/22	08/05/22

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample **Lab ID:** QC1005004 **Batch:** 294485
Matrix: Water **Method:** SM 5310B

QC1005004 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	9.679	10.00	mg/L	97%		80-120

Type: Matrix Spike **Lab ID:** QC1005005 **Batch:** 294485
Matrix (Source ID): Water (466744-005) **Method:** SM 5310B

QC1005005 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Organic Carbon	43.74	ND	40.00	mg/L	109%		80-120	4

Type: Matrix Spike Duplicate **Lab ID:** QC1005006 **Batch:** 294485
Matrix (Source ID): Water (466744-005) **Method:** SM 5310B

QC1005006 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	46.40	ND	40.00	mg/L	116%		80-120	6	20	4

Type: Sample Duplicate **Lab ID:** QC1004873 **Batch:** 294445
Matrix (Source ID): Water (466831-001) **Method:** SM2120B

QC1004873 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Color	30.00	30.00	ColorUnits		0	20	1

Type: Sample Duplicate **Lab ID:** QC1006118 **Batch:** 294444
Matrix (Source ID): Water (466810-001) **Method:** SM2130B

QC1006118 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Turbidity	ND	0.06800	NTU		10	20	1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1006119	Batch: 294863
Matrix: Drinking Water	Method: SM2320B	Prep Method: METHOD

QC1006119 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Bicarbonate	ND		mg/L	5.0		08/10/22	08/10/22
Carbonate	ND		mg/L	5.0		08/10/22	08/10/22
Hydroxide	ND		mg/L	5.0		08/10/22	08/10/22
Alkalinity, Total as CaCO3	ND		mg/L	5.0		08/10/22	08/10/22

Type: Lab Control Sample	Lab ID: QC1006120	Batch: 294863
Matrix: Drinking Water	Method: SM2320B	Prep Method: METHOD

QC1006120 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Alkalinity, Total as CaCO3	985.4	1000	mg/L	99%		90-110

Type: Sample Duplicate	Lab ID: QC1006121	Batch: 294863
Matrix (Source ID): Water (466579-002)	Method: SM2320B	Prep Method: METHOD

QC1006121 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Bicarbonate	401.9	399.0	mg/L		1	20	1.3
Carbonate	ND	ND	mg/L			20	1.3
Hydroxide	ND	ND	mg/L			20	1.3
Alkalinity, Total as CaCO3	329.4	327.0	mg/L		1	20	1.3

Type: Blank	Lab ID: QC1005592	Batch: 294682
Matrix: Water	Method: SM2540C	Prep Method: METHOD

QC1005592 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Dissolved Solids	ND		mg/L	10		08/09/22	08/10/22

Type: Lab Control Sample	Lab ID: QC1005593	Batch: 294682
Matrix: Water	Method: SM2540C	Prep Method: METHOD

QC1005593 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Dissolved Solids	360.0	342.0	mg/L	105%		90-110

Type: Sample Duplicate	Lab ID: QC1005594	Batch: 294682
Matrix (Source ID): Water (466899-001)	Method: SM2540C	Prep Method: METHOD

QC1005594 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Dissolved Solids	2,490	2428	mg/L		3	5	2

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID: QC1005749**	**Batch: 294750**
Matrix: Water	**Method: SM2540D**	**Prep Method: METHOD**

QC1005749 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Suspended Solids	ND		mg/L	0.5		08/05/22	08/05/22

Type: Sample Duplicate	**Lab ID: QC1005750**	**Batch: 294750**
Matrix (Source ID): Water (466495-004)	**Method: SM2540D**	**Prep Method: METHOD**

QC1005750 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Suspended Solids	538.0	524.0	mg/L		3	5	20

Type: Blank	**Lab ID: QC1004888**	**Batch: 294451**
Matrix: Water	**Method: SM5210B**	**Prep Method: METHOD**

QC1004888 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Biochemical Oxygen Demand	ND		mg/L	3.0		08/05/22 08:40	08/10/22 11:46

Type: Lab Control Sample	**Lab ID: QC1004889**	**Batch: 294451**
Matrix: Water	**Method: SM5210B**	**Prep Method: METHOD**

QC1004889 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Biochemical Oxygen Demand	187.0	198.0	mg/L	94%		84.6-115.4

Type: Blank	**Lab ID: QC1006255**	**Batch: 294916**
Matrix: Water	**Method: SM5540C**	

QC1006255 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Surfactants (MBAS)	ND		mg/L	0.040	0.029	08/05/22 09:20	08/05/22 18:07

Type: Lab Control Sample	**Lab ID: QC1006256**	**Batch: 294916**
Matrix: Water	**Method: SM5540C**	

QC1006256 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Surfactants (MBAS)	0.9850	1.000	mg/L	99%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1006257**	**Batch:**	**294916**
Matrix (Source ID):	**Water (466808-001)**	**Method:**	**SM5540C**		

QC1006257 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Surfactants (MBAS)	0.9300	ND	1.000	mg/L	93%		80-120	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1006258**	**Batch:**	**294916**
Matrix (Source ID):	**Water (466808-001)**	**Method:**	**SM5540C**		

QC1006258 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Surfactants (MBAS)	0.9070	ND	1.000	mg/L	91%		80-120	3	20	1

E Response exceeds instrument's linear range
J Estimated value
ND Not Detected
NM Not Meaningful
b See narrative

Laboratory Job Number 466831

Subcontracted Products

Eurofins Southwest

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-105604-1
Client Project/Site: 466831

For:
Enthalpy Analytical LLC
931 W. Barkley Ave
Orange, California 92868

Attn: Ranjit Clarke

Authorized for release by:
8/16/2022 8:32:23 AM
Sheila Luu, Project Mgmt. Assistant
Sheila.Luu@et.eurofinsus.com

Designee for

Xuan Dang, Project Manager I
(714)895-5494
Xuan.Dang@et.eurofinsus.com

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
QC Sample Results 7
QC Association Summary 8
Lab Chronicle 9
Certification Summary 10
Method Summary 11
Sample Summary 12
Chain of Custody 13
Receipt Checklists 14

Definitions/Glossary

Client: Enthalpy Analytical LLC
Project/Site: 466831

Job ID: 570-105604-1

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

Case Narrative

Client: Enthalpy Analytical LLC
Project/Site: 466831

Job ID: 570-105604-1

Job ID: 570-105604-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-105604-1

Comments
No additional comments.

Receipt
The sample was received on 8/5/2022 1:50 PM. 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 was 2.1° C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

Detection Summary

Client: Enthalpy Analytical LLC
Project/Site: 466831

Job ID: 570-105604-1

Client Sample ID: SMBRP-9

Lab Sample ID: 570-105604-1

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Client: Enthalpy Analytical LLC
Project/Site: 466831

Job ID: 570-105604-1

General Chemistry

Client Sample ID: SMBRP-9
Date Collected: 08/04/22 10:50
Date Received: 08/05/22 13:50

Lab Sample ID: 570-105604-1
Matrix: Water

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	ND		1.22	0.622	mg/L		08/12/22 12:04	08/12/22 12:04	1

Client: Enthalpy Analytical LLC
Project/Site: 466831

Job ID: 570-105604-1

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 570-256391/1-A
Matrix: Water
Analysis Batch: 256520

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 256391

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	ND		1.00	0.510	mg/L		08/12/22 12:04	08/12/22 12:04	1

Lab Sample ID: LCS 570-256391/2-A
Matrix: Water
Analysis Batch: 256520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 256391

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
HEM: Oil and Grease			40.0	37.30		mg/L		93	78 - 114		

Lab Sample ID: LCSD 570-256391/3-A
Matrix: Water
Analysis Batch: 256520

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 256391

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HEM: Oil and Grease			40.0	38.40		mg/L		96	78 - 114	3	18

QC Association Summary

Client: Enthalpy Analytical LLC
Project/Site: 466831

Job ID: 570-105604-1

General Chemistry

Prep Batch: 256391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-105604-1	SMBRP-9	Total/NA	Water	1664A	
MB 570-256391/1-A	Method Blank	Total/NA	Water	1664A	
LCS 570-256391/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 570-256391/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	

Analysis Batch: 256520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-105604-1	SMBRP-9	Total/NA	Water	1664A	256391
MB 570-256391/1-A	Method Blank	Total/NA	Water	1664A	256391
LCS 570-256391/2-A	Lab Control Sample	Total/NA	Water	1664A	256391
LCSD 570-256391/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	256391

Lab Chronicle

Client: Enthalpy Analytical LLC
Project/Site: 466831

Job ID: 570-105604-1

Client Sample ID: SMBRP-9
Date Collected: 08/04/22 10:50
Date Received: 08/05/22 13:50

Lab Sample ID: 570-105604-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			821 mL	1000 mL	256391	08/12/22 12:04	UWEZ	EET CAL 4
Total/NA	Analysis	1664A		1			256520	08/12/22 12:04	L6IE	EET CAL 4
	Instrument ID: NOEQUIP									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Enthalpy Analytical LLC
Project/Site: 466831

Job ID: 570-105604-1

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23
Oregon	NELAP	4175	02-02-23

Method Summary

Client: Enthalpy Analytical LLC
Project/Site: 466831

Job ID: 570-105604-1

Method	Method Description	Protocol	Laboratory
1664A	HEM and SGT-HEM	1664A	EET CAL 4
1664A	HEM and SGT-HEM (Aqueous)	1664A	EET CAL 4

Protocol References:

1664A = EPA-821-98-002

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Enthalpy Analytical LLC
Project/Site: 466831

Job ID: 570-105604-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-105604-1	SMBRP-9	Water	08/04/22 10:50	08/05/22 13:50

105604

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
Eurofins Southwest
2841 Dow Avenue
Suite 100
Tustin, CA 92780
ATTN: Xuan Dang
PO #: Required, to be sent via email

Enthalpy Order: EO-466831
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

Results Due: Standard TAT
Report Level: II
Report To: MDL
EDDs: .DBF erpimsenhanced

570-105604 Chain of Custody

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
SMBRP-9	04-AUG-2022 10.50	466831-001	1	Water	EPA 1664 Oil & Grease (Total) -OUT	

Notes:	Relinquished By:	Received By:
		AG EC
	Date: 8/05/22 1350	Date: 8-5-2022 13:50
	Date:	Date:
	Date:	Date:

2.1/2.1 SC12

Login Sample Receipt Checklist

Client: Enthalpy Analytical LLC

Job Number: 570-105604-1

Login Number: 105604
List Number: 1
Creator: Lizotte, Lex

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Laboratory Job Number 466831

Subcontracted Products

Enthalpy - Wilmington

Enthalpy Analytical - Orange

931 W. Barkley Ave
Orange, CA 92868

Client Project: EO-466831
Sample Received: 08/09/22

Analytical Report
0822-742

EPA Method 1613B

2, 3, 7, 8 TCDD

Enthalpy Analytical, LLC – Ultratrace
Mark Hager
O: 910-876-6894 / F: 910-212-6886
mark.hager@enthalpy.com / www.enthalpy.com
2714 Exchange Drive, Wilmington, NC 28405

I certify that to the best of my knowledge all analytical data presented in this report:

- Have been checked for completeness
- Are accurate, error-free, and legible
- Have been conducted in accordance with approved protocol, and that all deviations and analytical problems are summarized in the appropriate narrative(s)

This analytical report was prepared in Portable Document Format (.PDF) and contains __18__ pages.

Juanica L. Thomas

QA Review Performed by: Juanica L. Thomas

Report Issued Date: 8/31/22

ENTHALPY ANALYTICAL

Summary of Results

Enthalpy Analytical

Job No.: 0822-742-1 EPA Method 1613B Water

Enthalpy Analytical, Orange, CA Client Project: EO-466831

Summary

	Compound	CAS	SMBRP-9 pg/L
TCDD	2378-TCDD (S)	1746-01-6	ND U

TCDD group total	41903-57-5	ND

TEQ	ITEQ (ND=0; EMPC=0)	0
	ITEQ (ND=1/2EDL;EMPC=1/2EDL)	0.874
	ITEQ (ND=EDL EMPC=EDL)	1.75
	ITEQ (ND=0; EMPC=EMPC)	0
	ITEQ (ND=1/2EDL; EMPC=EMPC)	0.874
	ITEQ (ND=EDL; EMPC=EMPC)	1.75
	WTEQ (ND=0; EMPC=0)	0
	WTEQ (ND=1/2EDL;EMPC=1/2EDL)	0.874
	WTEQ (ND=EDL EMPC=EDL)	1.75
	WTEQ (ND=0; EMPC=EMPC)	0
	WTEQ (ND=1/2EDL; EMPC=EMPC)	0.874
	WTEQ (ND=EDL; EMPC=EMPC)	1.75

Detailed Results

Enthalpy Analytical

Job No.: 0822-742-1 EPA Method 1613B Water

Enthalpy Analytical, Orange, CA Client Project: EO-466831

Enthalpy ID	0822-742-001-1	Prep Batch	EU13831	Sample Vol (mL)	1000.7
Sample Name	SMBRP-9	Prep Date	2022-08-11 09:20	Extract Vol (mL)	0.02
Matrix	Aqueous	Analysis Date	2022-08-19 00:44	Split Factor	N/A
Sampling Date	20220804 00:00	Analyst	jemunoz / hallen	Method Code	WM-016
Received Date	2022-08-09 10:55	Instrument	Galadriel	Sample Type	Sample

	Compound	CAS	Extract Concentration pg/uL	Sample Concentration pg/L	Formatted Result pg/L	LOQ pg/L	EDL pg/L	Recovery Limits	Recovery	Flags
TCDD	2378-TCDD (S)	1746-01-6	ND	ND	ND	5.00	1.75			U
ES	13C-2378-TCDD (ES)	76523-40-5	53.44	1068			7.54	25-175%	53.4%	
CS	37Cl-2378-TCDD (CS)		43.83	876			1.23	39-154%	109.6%	
AS	13C-1368-TCDD (AS)		74.98	1499			7.24	20-150%	75.0%	

TCDD group total:		41903-57-5	ND	ND			1.75			

TEQ	ITEQ (ND=0; EMPC=0)		0						
	ITEQ (ND=1/2EDL;EMPC=1/2EDL)		0.874						
	ITEQ (ND=EDL EMPC=EDL)		1.75						
	ITEQ (ND=0; EMPC=EMPC)		0						
	ITEQ (ND=1/2EDL; EMPC=EMPC)		0.874						
	ITEQ (ND=EDL; EMPC=EMPC)		1.75						
	WTEQ (ND=0; EMPC=0)		0						
	WTEQ (ND=1/2EDL;EMPC=1/2EDL)		0.874						
	WTEQ (ND=EDL EMPC=EDL)		1.75						
	WTEQ (ND=0; EMPC=EMPC)		0						
	WTEQ (ND=1/2EDL; EMPC=EMPC)		0.874						
	WTEQ (ND=EDL; EMPC=EMPC)		1.75						

QC Data

Enthalpy Analytical

Job No.: 0822-742-1 EPA Method 1613B Water

Enthalpy Analytical, Orange, CA Client Project: EO-466831

Enthalpy ID	MB-13831-DF	Prep Batch	EU13831	Sample Vol (mL)	1000
Sample Name	MB-13831-DF	Prep Date	2022-08-11 09:20	Extract Vol (mL)	0.02
Matrix	aqueous	Analysis Date	2022-08-18 23:53	Split Factor	N/A
Sampling Date		Analyst	jemunoz / hallen	Method Code	WM-016
Received Date		Instrument	Galadriel	Sample Type	Blank

	Compound	CAS	Extract Concentration pg/uL	Sample Concentration pg/L	Formatted Result pg/L	LOQ pg/L	EDL pg/L	Recovery Limits	Recovery	Flags
TCDD	2378-TCDD (S)	1746-01-6	ND	ND	ND	5.00	1.68			U
ES	13C-2378-TCDD (ES)	76523-40-5	56.57	1131			5.91	25-175%	56.6%	
CS	37Cl-2378-TCDD (CS)		43.85	877			0.899	39-154%	109.6%	
AS	13C-1368-TCDD (AS)		77.59	1552			5.67	20-150%	77.6%	

TCDD group total:		41903-57-5	ND	ND			1.68			

TEQ	ITEQ (ND=0; EMPC=0)		0						
	ITEQ (ND=1/2EDL;EMPC=1/2EDL)		0.840						
	ITEQ (ND=EDL EMPC=EDL)		1.68						
	ITEQ (ND=0; EMPC=EMPC)		0						
	ITEQ (ND=1/2EDL; EMPC=EMPC)		0.840						
	ITEQ (ND=EDL; EMPC=EMPC)		1.68						
	WTEQ (ND=0; EMPC=0)		0						
	WTEQ (ND=1/2EDL;EMPC=1/2EDL)		0.840						
	WTEQ (ND=EDL EMPC=EDL)		1.68						
	WTEQ (ND=0; EMPC=EMPC)		0						
	WTEQ (ND=1/2EDL; EMPC=EMPC)		0.840						
	WTEQ (ND=EDL; EMPC=EMPC)		1.68						

Enthalpy Analytical

Job No.: 0822-742-1 EPA Method 1613B Water

Enthalpy Analytical, Orange, CA Client Project: EO-466831

Enthalpy ID	OPR-13831-DF	Prep Batch	EU13831	Sample Vol (mL)	1000
Sample Name	OPR-13831-DF	Prep Date	2022-08-11 09:20	Extract Vol (mL)	0.02
Matrix	aqueous	Analysis Date	2022-08-18 22:12	Split Factor	N/A
Sampling Date		Analyst	jemunoz / hallen	Method Code	WM-016
Received Date		Instrument	Galadriel	Sample Type	Control

	Compound	CAS	Extract Concentration pg/uL	Sample Concentration pg/L	Formatted Result pg/L	LOQ pg/L	EDL pg/L	Recovery Limits	Recovery	Flags
TCDD	2378-TCDD (S)	1746-01-6	9.61	192	192	5.00	2.30	67-158%	96.1%	
ES	13C-2378-TCDD (ES)	76523-40-5	57.77	1155			4.97	25-175%	57.8%	
CS	37Cl-2378-TCDD (CS)		41.47	829			1.60	39-154%	103.7%	
AS	13C-1368-TCDD (AS)		69.13	1383			4.77	20-150%	69.1%	

TCDD group total:		41903-57-5	9.61	192			2.30			

TEQ	ITEQ (ND=0; EMPC=0)		192						
	ITEQ (ND=1/2EDL;EMPC=1/2EDL)		192						
	ITEQ (ND=EDL EMPC=EDL)		192						
	ITEQ (ND=0; EMPC=EMPC)		192						
	ITEQ (ND=1/2EDL; EMPC=EMPC)		192						
	ITEQ (ND=EDL; EMPC=EMPC)		192						
	WTEQ (ND=0; EMPC=0)		192						
	WTEQ (ND=1/2EDL;EMPC=1/2EDL)		192						
	WTEQ (ND=EDL EMPC=EDL)		192						
	WTEQ (ND=0; EMPC=EMPC)		192						
	WTEQ (ND=1/2EDL; EMPC=EMPC)		192						
	WTEQ (ND=EDL; EMPC=EMPC)		192						

Narrative Summary

Enthalpy Analytical Narrative Summary

Company	Enthalpy Analytical - Orange
Job#	0822-742 EPA Method 1613B
Client Project #	EO-466831

Custody	Megan Holden of Enthalpy Analytical Wilmington received the sample (via FedEx) on ice on August 9, 2022 at 0.7°C in good condition. Prior to, during, and after analysis, the sample was stored in the laboratory with access only by authorized personnel of Enthalpy Analytical, LLC.
Analysis	The sample was analyzed by EPA Method 1613B for 2,3,7,8 TCDD only using Agilent Technologies Model# 6890 High-Resolution GC/ Waters High-Resolution Mass-Spectrometer (HRGC/HRMS "Galadriel"). After sampling by the client, the laboratory spiked the samples with Extraction Standard (ES), then extracted by liquid-liquid extraction with methylene chloride. After solvent exchange, each extract was spiked with Alternate Standard (AS) and Clean Up Standard (CS). Cleanup procedures were performed on the extract. The final sample extract was transferred to an autosampler vial and spiked with 20 µL of Injection Standard (JS), prior to analysis.
Calibration	In the initial calibration, the analytes exhibited RSDs less than 20% and labeled standards exhibited RSDs of no more than 30%. The standard analytes, continuing calibration (concal) and Initial Calibration Verification (ICV) met the 20% criterion for native analytes.
QC Notes	The HRMS system displayed mass resolving power of at least 10,000 during the analysis. Mass 466 displays an incorrect value due to a decrease in PK over the period of analysis. However, data is reported without adverse impact due to meeting criteria on previous and following scans. Labeled and sampling (surrogate) standard recovery values in the Ongoing Precision Recovery (OPR) and method blank were acceptable. GC resolution parameters were met for TCDD. The sample was extracted within the 30-day from collection holding time and analyzed within the 45-day from extraction to analysis holding time required by the method.
Reporting Notes	The TEQ was calculated and reported using I-TEF and WHO-2005 TEF, calculated by multiplying the concentration for each 2,3,7,8-substituted PCDD/F by its toxic equivalency factor (TEF). The Totals and Detection Limits have been included in the report. The TEQ is reported with and without EMPCs included. Additionally, the TEQ may be reported with non-detects treated as having a concentration of zero, a concentration of one-half the EDL, and/or a concentration equal to the EDL.

Enthalpy Analytical Narrative Summary
(continued)

Any deviations from the requirements of the reference method or TNI Standard have been stated above.

The results presented in this report are representative of the samples as provided to the laboratory.

Enthalpy Analytical, LLC in Wilmington NC is accredited by the Louisiana Department of Environmental Quality to the 2009 TNI Standard under certificate number 05075.

General Reporting Notes – Data Qualifiers

The following are general reporting notes that are applicable to all Enthalpy Analytical, LLC - Wilmington, NC data reports, unless specifically noted otherwise.

General Data Qualifiers

- B – The analyte was found in the method blank, at a concentration that was at least 10% of the amount in the sample.
- Cxx – Two or more congeners co-elute. In EDDs, C denotes the lowest IUPAC congener in a co-elution group and additional co-eluters for the group ('xx') are shown with the number of the lowest IUPAC co-eluter.
- E – The reported concentration exceeds the calibration range (upper point of the calibration curve). For HRMS data, this condition does not imply additional measurement uncertainty. For LC-MS/MS data, these values should be considered as having measurement uncertainty higher than values within the calibration range.
- EDL – Estimated Detection Level: The EDL is unique to isotope dilution methods and reflects the conditions of analysis at the time of analysis, including the equipment used. Where the MDL is a static value, the EDL is a dynamic value.
- EMPC – Estimated Maximum Possible Concentration: EMPC is specific to Dioxin/Furan tests to indicate the determined ion-abundance ratio was outside the allowed theoretical range (usually due to being near the detection limit, although it can very rarely be caused by a co-eluting interference). The EMPC concentration is adjusted to reflect the value at the theoretical ion-abundance ratio.
- IR – The ion ratio between the primary and secondary ions was observed to be outside the method criteria. The analyte concentration may be inaccurate due to interference.
- J – The analyte has a concentration below the minimum calibration level (LOQ value) but greater than the LOD. These values should be considered as having measurement uncertainty higher than values within the calibration range
- L - Indicates that an analyte has a concentration below the Minimum Detection Limit (MDL). The reported concentration is not recommended for regulatory use as the analyte signal may have a signal-to-noise ratio less than the criteria deemed necessary to be considered a detected analyte.
- LOD – Limit of Detection: For reports conforming to the DOD ELAP QSM, this is the QSM-defined LOD. For reports conforming to TNI requirements (but not DOD ELAP QSM requirements), this value is the minimum detection limit (MDL). The LOD is adjusted for sample weight or volume.
- LOQ – Limit of Quantitation: For reports conforming to the DOD ELAP QSM, this is the QSM-defined LOQ. For reports conforming to TNI requirements (but not DOD ELAP QSM requirements), this value is the reporting limit (RL). The LOQ is adjusted for sample weight or volume.

General Reporting Notes – Data Qualifiers

- <LOD() – Analyte was not found at a concentration high enough to be reported as detected. It is reported as less than the LOD, and the LOD is given in the parentheses.
- <LOQ() – Analyte was not found at a concentration high enough to be reported as above the QSM-defined LOQ or TNI defined Reporting Limit. It is reported as less than the LOQ, and the LOQ is given in the parentheses.
- ND – Indicates a non-detect.
- NR – Indicates a value that is not reportable due to issues observed in sample preparation or analysis.
- PR – The associated congener(s) is(are) poorly resolved.
- QI – Indicates the presence of a quantitative interference.
- RL – Reporting Limit. Lowest reportable value. The level is higher than the MDL.
- SI – Denotes "Single Ion Mode" and is utilized for PCBs where the secondary ion trace has a significantly elevated noise level due to background PFK. Responses for such peaks are calculated using an EMPC approach based solely on the primary ion area(s) and may be considered estimates.
- U – The analyte was not detected.
- V / Q – The labeled standard recovery is not within method control limits.
- X – Indicates the result is from re-injection/repeat/second-column analysis.

Lab Identifiers/ Data Attributes

- AR – Indicates use of the archived portion of the sample extract.
- CU – Indicates a sample that required additional clean-up prior to HRMS injection/processing.
- D – Dilution Data. Result was obtained from the analysis of a dilution. The number that follows the "D" indicates the dilution factor.
- DE – Indicates a dilution performed with the addition of ES (Extraction Standard) solution.
- DUP – Designation for a duplicate sample.
- MS – Designation for a matrix spike.
- MSD – Designation for a matrix spike duplicate.
- R – Indicates a re-extraction of the sample.
- RJ – Indicates a reinjection of the sample extract.

- S – Indicates a sample split. The number that follows the "S" indicates the split factor.
- SAT – Indicates an analyte saturated the detector.

Sample Custody

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

0822-742

Subcontract Laboratory:
Enthalpy - Wilmington
2714 Exchange Drive
Wilmington, NC 28405
ATTN: Bryan Vining
PO #: Required, to be sent via email

Enthalpy Order: EO-466831
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

Results Due: Standard TAT
Report Level: II
Report To: MDL
EDDs: Quant Method PfasToBerkeley, EDD Filename TestWllmGeoTracker EDD

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
SMBRP-9	04-AUG-2022 10:50	466831-001	1	Water	EPA 1613 - 2,3,7,8-TCDD only	

Notes:	Relinquished By:	Received By:
Fedex cooler on ice, no seals, good condition 777602190960 0.7°C TID MK 8.9.22		FED EX 7776 0219 0960
	Date: 8/8/22 1200	Date: 8/8/22
		Allyn Golden
	Date:	Date: 8.9.22 10:55
	Date:	Date:

This Is The Last Page Of This Report.

Laboratory Job Number 466831

Subcontracted Products

SGS Forensic

SGS FORENSIC LABORATORIES

Final

ANALYSIS REPORT
ASBESTOS IN DRINKING WATER
Transmission Electron Microscopy*

Client:	Enthalpy Analytical LLC		
Contact:	Ranjit K. Clarke	Client Number:	1137
Street:	2323 5th Street	Report Number:	T035529
City/state/zip:	Berkeley, CA 94710	Date/time Received:	8/5/22 1245

Site:		Date filtered:	8/5/22
Job ID/PO:	EO-466831, PO-032141	Analyst(s):	MAB
Date Collected:	8/4/22	Date Analyzed:	8/12/22
Hold time, hrs:	<48	Date Reported:	8/12/22
Filter type:	25mm MCE	Date Printed:	8/12/22
Pore size:	0.22 µm		

ANALYTICAL RESULTS

Sample Number	SMBRP-9			
Description				
Lab Sample Number	20138758			
Volume Filtered, mL	10			
Filter Area, mm2	190			
Grid Opening Area, mm^2	0.0086			
Number of GO's Analyzed	10			
Area Analyzed, mm^2	0.086			
# Asbestos Fibers ≥10 µm	0			
Analytical Sensitivity, MFL	0.2			
Asbestos Concentration, ≥10um in length, MFL	**<0.2**			
Asbestos Type(s) Detected**	**ND**			
95% Upper Conf. Limit, MFL	0.7			
95% Lower Conf. Limit, MFL	0.0			

0

Mark Floyd, Analytical Microscopy Supervisor

* Method 100.2 (EPA/600/R-94/134). Results are reported in Millions of Fibers per Liter (MFL) over 10 µm in length.

** Asbestos types: CH=chrysotile; AM=amosite; CR=crocidolite; TR=tremolite; AC=actinolite; AN=anthophyllite; ND=none detected; NA-Not Analyzed; n/a=not applicable (i.e., divide by 0); OV=overloaded; BL=blank sample; PF=prepped not analyzed.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (Client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full with approval from SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. This report must not be used by the client to claim product endorsement by NVLAP or any U.S. government agency. SGSFL is unable to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of 30 days, according to all state and federal guidelines, unless otherwise specified.

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
SGS Forensic
3777 Depot Road
Suite 409
Hayward, CA 94545
ATTN:
PO #: Required, to be sent via email

Enthalpy Order: EO-466831
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

Results Due: Standard TAT
Report Level: II
Report To: MDL
EDDs:

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
SMBRP-9	04-AUG-2022 10:50	466831-001	1	Water	EPA 100.2 Asbestos	

Notes:	Relinquished By:	Received By:
	Date: 8/4/22 1830	Date: RECEIVED AUG 05 2022 BY: courier 12:45pm
	Date:	Date:
	Date:	Date:

Laboratory Job Number 466831

Subcontracted Products

Pace Analytical - Greensburg

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

September 26, 2022

Ms. Patricia Mata
Enthalpy Analytical
931 W. Barkley Avenue
Orange, CA 92868

RE: Project: 466831
Pace Project No.: 30512780

Dear Ms. Mata:

Enclosed are the analytical results for sample(s) received by the laboratory on August 09, 2022. 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,

Nikayla M. Yasurek
nikayla.yasurek@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Incoming Reports, Enthalpy Analytical
David Tripp, Enthalpy Analytical

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

CERTIFICATIONS

Project: 466831
Pace Project No.: 30512780

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
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 #: PA014572018-1
New Hampshire/TNI Certification #: 297617
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 #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
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
Wyoming Certification #: 8TMS-L

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SAMPLE SUMMARY

Project: 466831
Pace Project No.: 30512780

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30512780001	**SMBRP-9**	Water	08/04/22 10:50	08/09/22 17:50

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SAMPLE ANALYTE COUNT

Project: 466831
Pace Project No.: 30512780

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30512780001	**SMBRP-9**	EPA 900.0	ERT	2	PASI-PA
		EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		ASTM D5811-95	JJY	1	PASI-PA
		EPA 906.0	JPM	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 466831
Pace Project No.: 30512780

Sample: SMBRP-9 **Lab ID: 30512780001** Collected: 08/04/22 10:50 Received: 08/09/22 17:50 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Added 5mL of HNO3 to 4 containers to get a pH<2

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Gross Alpha	EPA 900.0	**30.0 ± 7.18 (5.05) C:NA T:NA**	pCi/L	08/26/22 18:39	12587-46-1	
Gross Beta	EPA 900.0	**3.84 ± 2.27 (3.49) C:NA T:NA**	pCi/L	08/26/22 18:39	12587-47-2	
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.185 ± 0.554 (1.03) C:NA T:102%**	pCi/L	08/20/22 16:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.616 ± 0.641 (1.33) C:71% T:88%**	pCi/L	08/26/22 20:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Strontium-90	ASTM D5811-95	**-0.780 ± 1.19 (2.33) C:98% T:NA**	pCi/L	09/11/22 11:11	10098-97-2	N2
	Pace Analytical Services - Greensburg					
Tritium	EPA 906.0	**-92.0 ± 149 (276) C:NA T:NA**	pCi/L	09/03/22 04:11	10028-17-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: 466831
Pace Project No.: 30512780

QC Batch: 524867
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30512780001

METHOD BLANK: 2545639 Matrix: Water
Associated Lab Samples: 30512780001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.190 ± 0.229 (0.349) C:NA T:98%	pCi/L	08/20/22 15:51	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: 466831
Pace Project No.: 30512780

QC Batch: 525970
QC Batch Method: EPA 906.0
Analysis Method: EPA 906.0
Analysis Description: 906.0 Tritium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30512780001

METHOD BLANK: 2551582
Matrix: Water
Associated Lab Samples: 30512780001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Tritium	5.15 ± 157 (278) C:NA T:NA	pCi/L	09/03/22 01:06	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: 466831
Pace Project No.: 30512780

QC Batch: 527289
QC Batch Method: ASTM D5811-95
Analysis Method: ASTM D5811-95
Analysis Description: ASTM D5811 Sr 89/90 Eichrom
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30512780001

METHOD BLANK: 2558803 Matrix: Water
Associated Lab Samples: 30512780001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Strontium-90	0.386 ± 0.424 (0.904) C:91% T:NA	pCi/L	09/08/22 08:32	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: 466831
Pace Project No.: 30512780

QC Batch: 524905
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30512780001

METHOD BLANK: 2545733 Matrix: Water
Associated Lab Samples: 30512780001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.729 ± 0.409 (0.738) C:78% T:92%	pCi/L	08/26/22 17:08	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: 466831
Pace Project No.: 30512780

QC Batch: 525459
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: 30512780001

METHOD BLANK: 2548993 Matrix: Water
Associated Lab Samples: 30512780001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	0.375 ± 0.648 (1.45) C:NA T:NA	pCi/L	08/29/22 08:51	
Gross Beta	0.453 ± 0.755 (1.68) C:NA T:NA	pCi/L	08/29/22 08:51	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALIFIERS

Project: 466831
Pace Project No.: 30512780

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.

ANALYTE QUALIFIERS

N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 466831
Pace Project No.: 30512780

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30512780001	**SMBRP-9**	EPA 900.0	525459		
30512780001	**SMBRP-9**	EPA 903.1	524867		
30512780001	**SMBRP-9**	EPA 904.0	524905		
30512780001	**SMBRP-9**	ASTM D5811-95	527289		
30512780001	**SMBRP-9**	EPA 906.0	525970		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
Pace Analytical - Greensburg
1638 Roseytown Rd.
Suite 2, 3, 4
Greensburg, PA 15601
ATTN: Karen Smetanka
PO #: Required, to be sent via email

Enthalpy Order: EO-466831
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

Results Due: Standard TAT
Report Level: II
Report To: MDL
EDDs:

WO# : 30512780
30512780

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
SMBRP-9	04-AUG-2022 10:50	466831-001	1	Water	EPA 900.0 Gross Alpha and Beta	
			1	Water	EPA 903.1 Radium-226	
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	
			1	Water	ASTM D5174-97 Uranium	

Notes:	Relinquished By:	Received By:
		FED EX 7775 9964 4829
	Date: 8/8/22 1200	Date: 8/8/22
		Jenn PACE
	Date:	Date: 8/9/22 1750
	Date:	Date:

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Enthalpy Project # 30512780

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

Label MJS
LIMS Login MJS

Tracking #: 777599644829

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used NA 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# 10D042I

Date and Initials of person examining contents: MJS 8-10-22

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.
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 sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16. added 5mL of HNO3 to 4 containers to Get a pH<2
All containers meet method preservation requirements.		✓		Initial when completed MJS Date/time of preservation 8-10-22 0800 Lot # of added preservative DL-22-0893
Headspace in VOA Vials (>6mm):			✓	17.
Trip Blank Present:			✓	18.
Trip Blank Custody Seals Present			✓	
Rad Samples Screened < 0.5 mrem/hr	✓			Initial when completed: MJS Date: 8-10-22 Survey Meter SN: 1523

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

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

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

ANALYTICAL REPORT

August 26, 2022

Pace Analytical - Greensburg, PA

Sample Delivery Group:	L1527723
Samples Received:	08/20/2022
Project Number:	30512780
Description:	466831
Site:	001
Report To:	Nikayla Yasurek

Entire Report Reviewed By:

Donna Eidson
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

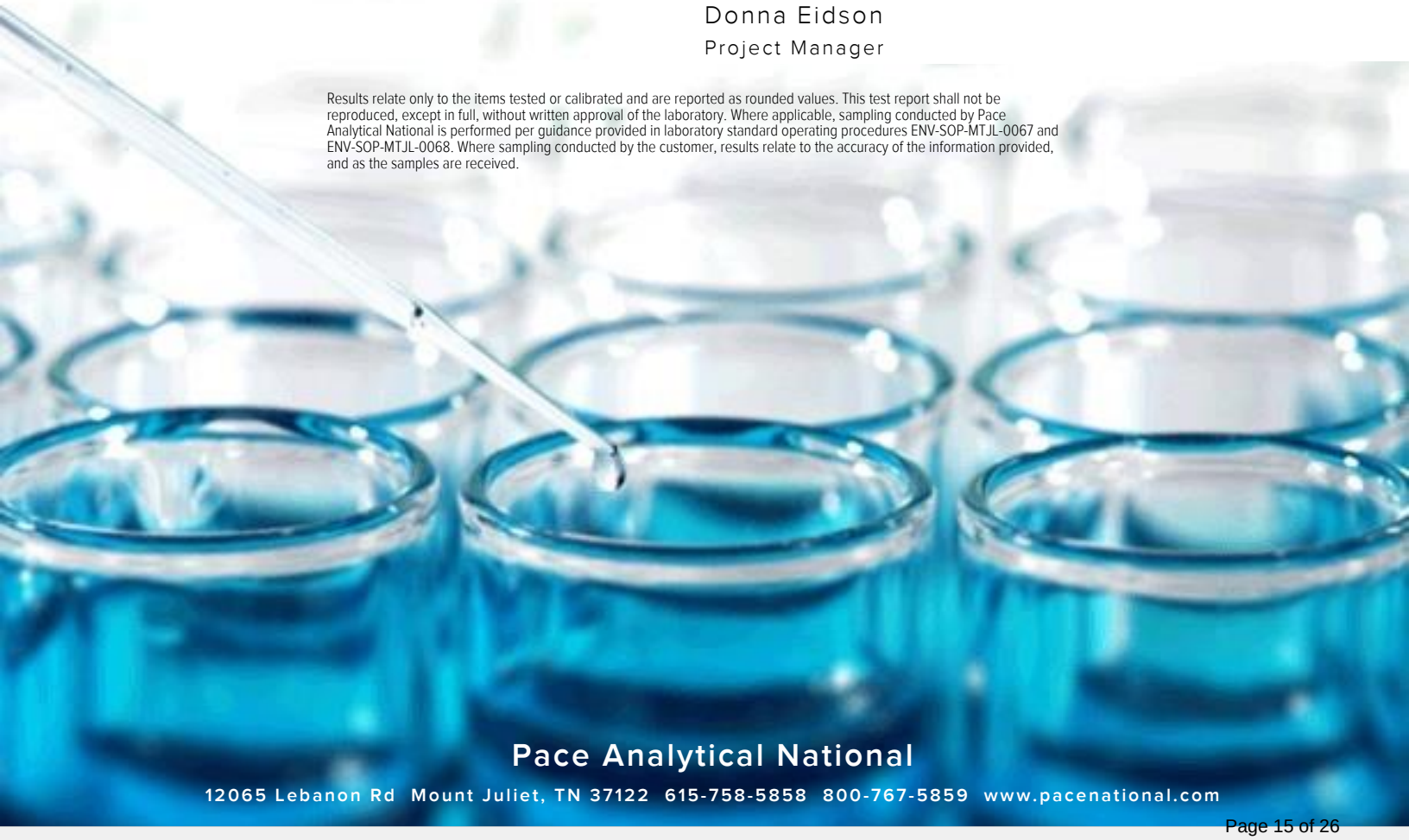


TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

SMBRP-9 L1527723-01 5

Qc: Quality Control Summary 6

Radiochemistry by Method D5174 6

Gl: Glossary of Terms 7

Al: Accreditations & Locations 8

Sc: Sample Chain of Custody 9

SMBRP-9 L1527723-01 Non-Potable Water

Collected by	Collected date/time	Received date/time
	08/04/22 10:50	08/20/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method D5174	WG1914421	1	08/22/22 11:13	08/24/22 20:08	RRE	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Donna Eidson
Project Manager

Radiochemistry by Method D5174

Analyte	Result	Qualifier	Uncertainty	RDL	Analysis Date	Batch
	ug/l		+ / -	ug/l	date / time	
Uranium	37.2			1.00	08/24/2022 20:08	WG1914421

Method Blank (MB)

(MB) R3830595-1 08/24/22 18:59

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Uranium	U		1.00	1.00

L1527707-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1527707-01 08/24/22 19:42 • (DUP) R3830595-5 08/24/22 19:09

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Uranium	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3830595-2 08/24/22 19:02

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Uranium	30.0	28.4	94.7	80.0-120	

L1527621-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1527621-01 08/24/22 19:12 • (MS) R3830595-3 08/24/22 19:04 • (MSD) R3830595-4 08/24/22 19:07

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Uranium	20.0	ND	19.4	19.4	96.8	96.9	1	75.0-125			0.102	20

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
	The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Internal Transfer Chain of Custody

A132

☐ Samples Pre-Logged into eCOC.

State Of Origin: CA

Cert. Needed: ☐ Yes ☒ No

Workorder: 30512780 **Workorder Name:** 466831

Owner Received Date: 8/9/2022 **Results Requested By:** 8/31/2022

Report To	Subcontract To
Nikayla M. Yasurek Pace Analytical Pittsburgh 1638 Roseytown Road Suites 2,3,4 Greensburg, PA 15601 Phone (724)850-5600	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HNO3	Requested Analysis: Total Uranium KPA	LAB USE ONLY
1	SMBRP-9	PS	8/4/2022 10:50	30512780001	Water	1	X	-01
2								
3								
4								
5								

U527723

Transfers	Released By	Date/Time	Received By	Date/Time
1	MuSo	8-19-22 1641	M. Sno	8/20/22 0900
2				
3				

Comments

Cooler Temperature on Receipt ____ °C | **Custody Seal** (Y) or N | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

Sample Receipt Checklist

COC Seal Present/Intact:	Y (N)	If Applicable VOA Zero Headspace:	Y (N)
COC Signed/Accurate:	(Y) N	Pres.Correct/Check:	(Y) N
Bottles arrive intact:	(Y) N		
Correct bottles used:	(Y) N		
Sufficient volume sent:	(Y) N		
RAD Screen <0.5 mR/hr:	(Y) N		

5344 4402567 0

23.1+0 = 23.1

KRAD

U527723

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
Pace Analytical - Greensburg
1638 Roseytown Rd.
Suite 2, 3, 4
Greensburg, PA 15601
ATTN: Karen Smetanka
PO #: Required, to be sent via email

Enthalpy Order: EO-466831
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

Results Due: Standard TAT
Report Level: II
Report To: MDL
EDDs:

WO# : 30512780
30512780

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
SMBRP-9	04-AUG-2022 10:50	466831-001	1	Water	EPA 900.0 Gross Alpha and Beta	
			1	Water	EPA 903.1 Radium-226	
			2	Water	EPA 904.0 Radium-228	
			1	Water	ASTM D5811-95 Strontium	
			1	Water	EPA 906.0 Tritium	
			1	Water	ASTM D5174-97 Uranium	

Notes:	Relinquished By:	Received By:
		FED EX 7775 9964 4829
	Date: 8/8/22 1200	Date: 8/8/22
		Jawn PACE
	Date:	Date: 8/9/22 1750
	Date:	Date:

L1527723

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Enthalpy Project # 30512780

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

Label MJS
LIMS Login MJS

Tracking #: 777599644829

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Thermometer Used AA 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# 100421 Date and Initials of person examining contents: MJS 8-10-22

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.
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 sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16. added 5mL of HNO3 to 4 containers to Get a pH<2
All containers meet method preservation requirements.		✓		Initial when completed MJS Date/time of preservation 8-10-22 0800 Lot # of added preservative DL-22-0893
Headspace in VOA Vials (>6mm):			✓	17.
Trip Blank Present:			✓	18.
Trip Blank Custody Seals Present			✓	
Rad Samples Screened < 0.5 mrem/hr	✓			Initial when completed: MJS Date: 8-10-22 Survey Meter SN: 1503

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

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

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

4527723

Subcontracting Laboratory: Pace National

Project Must Arrive at Subcontracted Laboratoryby: 8/19/22

☐ Saturday delivery

Pace Analytical Services, LLC-Pittsburgh Laboratory

Subcontracting Directions

Project Manager: Hollie Compton

Project Number: 30507870 Today's Date: 8/18/22

Sample ID	Matrix	Send Whole Jar (size/type)	Split / Pour Off From This Jar:	Volume to Send (if split off)
30507870_001	DW	BP1N		

Completed by: (Initials) HMC Date/Time: 8/18/22

Reviewed by: (PM Initials) CD Date/Time: 8/18/22 956

Received by SR: (Initials)_____ Date/Time:_____

Packed by:(Initial/Date)_____ Verified by:(Initial/Date)_____

Shipped Verification Stamp

Laboratory Job Number 466831

Subcontracted Products

Weck Laboratories, Inc.

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders:	2H05046
Project:	EO-466831
Attn:	Ranjit Clarke
Client:	Enthalpy Analytical - Orange 931 West Barkley Avenue Orange, CA 92868

Report Date:	10/03/2022
Received Date:	8/5/2022
Turnaround Time:	Normal
Phones:	(714) 771-9906
Fax:	(714) 771-9933
P.O. #:	
Billing Code:	

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH #4047 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

Dear Ranjit Clarke,

Enclosed are the results of analyses for samples received 8/05/22 with the Chain-of-Custody document. The samples were received in good condition, at 3.0 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:

Rahul R. Nair
Project Manager

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
SMBRP-9	Client	2H05046-01	Water	08/04/22 10:50	
SMBRP-9 Travel Blank	Client	2H05046-02	Water	08/04/22 00:00	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Sample Results

Sample: SMBRP-9
2H05046-01 (Water)

Sampled: 08/04/22 10:50 by Client

Acid and Base/Neutral Extractables by GC/MS

Method: EPA 625.1 **Instr:** GCMS06

Batch ID: W2H0963 **Preparation:** EPA 625/L-L SF **Prepared:** 08/11/22 07:59 **Analyst:** rmr

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
1,2,4-Trichlorobenzene	ND	0.49	1.0	ug/l	1	08/18/22	
1,2-Dichlorobenzene	ND	0.46	1.0	ug/l	1	08/18/22	
1,2-Diphenylhydrazine/Azobenzene	ND	0.30	1.0	ug/l	1	08/18/22	
1,3-Dichlorobenzene	ND	0.42	1.0	ug/l	1	08/18/22	
1,4-Dichlorobenzene	ND	0.48	1.0	ug/l	1	08/18/22	
2,4,6-Trichlorophenol	ND	0.22	1.0	ug/l	1	08/18/22	
2,4-Dichlorophenol	ND	0.26	1.0	ug/l	1	08/18/22	
2,4-Dimethylphenol	ND	0.76	1.0	ug/l	1	08/18/22	
2,4-Dinitrophenol	ND	1.9	10	ug/l	1	08/18/22	
2,4-Dinitrotoluene	ND	0.46	1.0	ug/l	1	08/18/22	
2,6-Dinitrotoluene	ND	0.27	1.0	ug/l	1	08/18/22	
2-Chloronaphthalene	ND	0.45	1.0	ug/l	1	08/18/22	
2-Chlorophenol	ND	0.28	1.0	ug/l	1	08/18/22	
2-Methyl-4,6-dinitrophenol	ND	0.50	5.0	ug/l	1	08/18/22	
2-Nitrophenol	ND	0.26	1.0	ug/l	1	08/18/22	
3,3'-Dichlorobenzidine	ND	2.5	5.0	ug/l	1	08/18/22	
4-Bromophenyl phenyl ether	ND	0.36	1.0	ug/l	1	08/18/22	
4-Chloro-3-methylphenol	ND	0.23	1.0	ug/l	1	08/18/22	
4-Chlorophenyl phenyl ether	ND	0.41	1.0	ug/l	1	08/18/22	
4-Nitrophenol	ND	1.2	5.0	ug/l	1	08/18/22	
Acenaphthene	ND	0.38	1.0	ug/l	1	08/18/22	
Acenaphthylene	ND	0.35	1.0	ug/l	1	08/18/22	
Anthracene	ND	0.41	1.0	ug/l	1	08/18/22	
Benzidine	ND	3.2	10	ug/l	1	08/18/22	
Benzo (a) anthracene	ND	0.19	1.0	ug/l	1	08/18/22	
Benzo (a) pyrene	ND	0.39	1.0	ug/l	1	08/18/22	
Benzo (b) fluoranthene	ND	0.46	1.0	ug/l	1	08/18/22	
Benzo (g,h,i) perylene	ND	0.42	2.0	ug/l	1	08/18/22	
Benzo (k) fluoranthene	ND	0.22	1.0	ug/l	1	08/18/22	
Bis(2-chloroethoxy)methane	ND	0.25	1.0	ug/l	1	08/18/22	
Bis(2-chloroethyl)ether	ND	0.27	1.0	ug/l	1	08/18/22	
Bis(2-chloroisopropyl)ether	ND	0.38	1.0	ug/l	1	08/18/22	
Bis(2-ethylhexyl)phthalate	ND	2.3	5.0	ug/l	1	08/18/22	
Butyl benzyl phthalate	ND	0.49	1.0	ug/l	1	08/18/22	
Chrysene	ND	0.19	1.0	ug/l	1	08/18/22	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:46

Sample Results

(Continued)

Sample: SMBRP-9

Sampled: 08/04/22 10:50 by Client

2H05046-01 (Water)

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS (Continued)							
Method: EPA 625.1			**Instr:** GCMS06				
Batch ID: W2H0963 **Preparation:** EPA 625/L-L SF			**Prepared:** 08/11/22 07:59				**Analyst:** rmr
Dibenzo (a,h) anthracene	ND	0.15	2.0	ug/l	1	08/18/22	
Diethyl phthalate	ND	0.35	1.0	ug/l	1	08/18/22	
Dimethyl phthalate	ND	0.18	1.0	ug/l	1	08/18/22	
Di-n-butyl phthalate	ND	0.34	1.0	ug/l	1	08/18/22	
Di-n-octyl phthalate	ND	0.46	1.0	ug/l	1	08/18/22	
Fluoranthene	ND	0.35	1.0	ug/l	1	08/18/22	
Fluorene	ND	0.35	1.0	ug/l	1	08/18/22	
Hexachlorobenzene	ND	0.49	1.0	ug/l	1	08/18/22	
Hexachlorobutadiene	ND	0.47	1.0	ug/l	1	08/18/22	
Hexachlorocyclopentadiene	ND	0.31	5.0	ug/l	1	08/18/22	
Hexachloroethane	ND	0.50	1.0	ug/l	1	08/18/22	
Indeno (1,2,3-cd) pyrene	ND	0.25	2.0	ug/l	1	08/18/22	
Isophorone	ND	0.21	1.0	ug/l	1	08/18/22	
Naphthalene	ND	0.49	1.0	ug/l	1	08/18/22	
Nitrobenzene	ND	0.36	1.0	ug/l	1	08/18/22	
N-Nitrosodimethylamine	ND	0.50	1.0	ug/l	1	08/18/22	
N-Nitrosodi-n-propylamine	ND	0.26	1.0	ug/l	1	08/18/22	
N-Nitrosodiphenylamine	ND	0.19	1.0	ug/l	1	08/18/22	
Pentachlorophenol	ND	0.40	1.0	ug/l	1	08/18/22	
Phenanthrene	ND	0.32	1.0	ug/l	1	08/18/22	
Phenol	ND	0.81	1.0	ug/l	1	08/18/22	
Pyrene	ND	0.25	1.0	ug/l	1	08/18/22	
Surrogate(s)							
2,4,6-Tribromophenol	*75%*	*Conc: 30.7*	*25-120*			*08/18/22*	
2-Fluorobiphenyl	*88%*	*Conc: 17.9*	*22-120*			*08/18/22*	
2-Fluorophenol	*57%*	*Conc: 23.3*	*17-120*			*08/18/22*	
Nitrobenzene-d5	*92%*	*Conc: 18.7*	*47-120*			*08/18/22*	
Phenol-d5	*39%*	*Conc: 15.9*	*12-120*			*08/18/22*	
Terphenyl-d14	*98%*	*Conc: 19.9*	*44-129*			*08/18/22*	
Anions by IC, EPA Method 300.1							
Method: EPA 300.1			**Instr:** LC08_Channel2				
Batch ID: W2H1193 **Preparation:** _NONE (LC)			**Prepared:** 08/15/22 10:47				**Analyst:** JAN
Bromate	ND	140	500	ug/l	100	08/15/22	M-05
Chlorite	ND	220	1000	ug/l	100	08/15/22	M-05
Surrogate(s)							
Dichloroacetate	*107%*	*Conc: 534*	*90-115*			*08/15/22*	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:46

Sample Results

(Continued)

Sample: SMBRP-9
2H05046-01 (Water)

Sampled: 08/04/22 10:50 by Client

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Anions by IC, EPA Method 300.1 (Continued)							
Method: EPA 300.1			**Instr:** LC08_Channel2				
Batch ID: W2H1193 **Preparation:** _NONE (LC)			**Prepared:** 08/15/22 10:47			**Analyst:** JAN	
Carbamates and Urea Pesticides							
Method: EPA 531.2			**Instr:** LC11				
Batch ID: W2H1369 **Preparation:** _NONE (LC)			**Prepared:** 08/16/22 17:23			**Analyst:** PJS	
3-Hydroxycarbofuran	ND	16	40	ug/l	20	08/17/22	M-05
Aldicarb	ND	12	40	ug/l	20	08/17/22	M-05
Aldicarb sulfone	ND	15	40	ug/l	20	08/17/22	M-05
Aldicarb sulfoxide	ND	21	40	ug/l	20	08/17/22	M-05
Carbaryl	ND	20	40	ug/l	20	08/17/22	M-05
Carbofuran	ND	20	40	ug/l	20	08/17/22	M-05
Methiocarb	ND	21	40	ug/l	20	08/17/22	M-05
Methomyl	ND	26	40	ug/l	20	08/17/22	M-05
Oxamyl	ND	22	40	ug/l	20	08/17/22	M-05
Propoxur (Baygon)	ND	27	40	ug/l	20	08/17/22	M-05
Surrogate(s)							
BDMC	*81%*	*Conc: 8.10*	*70-130*			*08/17/22*	
Chlorinated Acids Herbicides by GC/ECD							
Method: EPA 515.4			**Instr:** GC08				
Batch ID: W2H1051 **Preparation:** EPA 515.4/Micro Ext. Drtz			**Prepared:** 08/12/22 08:22			**Analyst:** rjg	
2,4,5-T	ND	0.030	0.20	ug/l	1	08/17/22	
2,4,5-TP (Silvex)	ND	0.026	0.20	ug/l	1	08/17/22	
2,4-D	ND	0.14	0.40	ug/l	1	08/17/22	
2,4-DB	ND	0.19	2.0	ug/l	1	08/17/22	
3,5-Dichlorobenzoic acid	ND	0.12	1.0	ug/l	1	08/17/22	
Acifluorfen	ND	0.030	0.40	ug/l	1	08/17/22	
Bentazon	ND	0.23	2.0	ug/l	1	08/17/22	
Dalapon	ND	0.11	0.40	ug/l	1	08/17/22	
DCPA	ND	0.029	0.10	ug/l	1	08/17/22	
Dicamba	ND	0.049	0.60	ug/l	1	08/17/22	
Dichloroprop	ND	0.12	0.30	ug/l	1	08/17/22	
Dinoseb	ND	0.033	0.40	ug/l	1	08/17/22	
Pentachlorophenol	ND	0.046	0.20	ug/l	1	08/17/22	
Picloram	ND	0.050	0.60	ug/l	1	08/17/22	
Surrogate(s)							
2,4-DCAA	*95%*	*Conc: 9.51*	*70-130*			*08/17/22*	
Chlorinated Pesticides and/or PCBs by GC/ECD							

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:46

Sample Results

(Continued)

Sample: SMBRP-9

2H05046-01 (Water)

Sampled: 08/04/22 10:50 by Client

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

Method: EPA 508.1 **Instr:** GC08

Batch ID: W2H1511 **Preparation:** EPA 508.1/SPE **Prepared:** 08/18/22 07:13 **Analyst:** rjg

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
4,4´-DDD	ND	0.0030	0.010	ug/l	1	08/24/22	
4,4´-DDE	ND	0.0018	0.010	ug/l	1	08/24/22	
4,4´-DDT	ND	0.0030	0.010	ug/l	1	08/24/22	
Aldrin	ND	0.0040	0.010	ug/l	1	08/24/22	Q-02
alpha-BHC	ND	0.0019	0.010	ug/l	1	08/24/22	
Aroclor 1016	ND	0.10	0.10	ug/l	1	08/24/22	R-01
Aroclor 1221	ND	0.10	0.10	ug/l	1	08/24/22	R-01
Aroclor 1232	ND	0.10	0.10	ug/l	1	08/24/22	R-01
Aroclor 1242	ND	0.10	0.10	ug/l	1	08/24/22	R-01
Aroclor 1248	ND	0.10	0.10	ug/l	1	08/24/22	R-01
Aroclor 1254	ND	0.10	0.10	ug/l	1	08/24/22	R-01
Aroclor 1260	ND	0.10	0.10	ug/l	1	08/24/22	R-01
beta-BHC	ND	0.0024	0.010	ug/l	1	08/24/22	
Chlordane (tech)	ND	0.10	0.10	ug/l	1	08/24/22	R-01
Chlorothalonil	ND	0.0015	0.050	ug/l	1	08/24/22	
delta-BHC	ND	0.0030	0.010	ug/l	1	08/24/22	
Dieldrin	ND	0.0030	0.010	ug/l	1	08/24/22	
Endosulfan I	ND	0.0030	0.010	ug/l	1	08/24/22	
Endosulfan II	ND	0.0016	0.010	ug/l	1	08/24/22	
Endosulfan sulfate	ND	0.0030	0.010	ug/l	1	08/24/22	
Endrin	ND	0.0013	0.010	ug/l	1	08/24/22	
Endrin aldehyde	ND	0.0040	0.010	ug/l	1	08/24/22	
gamma-BHC (Lindane)	ND	0.0030	0.010	ug/l	1	08/24/22	
Heptachlor	ND	0.0017	0.010	ug/l	1	08/24/22	
Heptachlor epoxide	ND	0.0019	0.010	ug/l	1	08/24/22	
Hexachlorobenzene	ND	0.0040	0.050	ug/l	1	08/24/22	
Hexachlorocyclopentadiene	ND	0.0065	0.050	ug/l	1	08/24/22	
Methoxychlor	ND	0.0030	0.010	ug/l	1	08/24/22	
PCBs, Total	ND		0.50	ug/l	1	08/24/22	
Propachlor	ND	0.020	0.050	ug/l	1	08/24/22	
Toxaphene	ND	0.50	0.50	ug/l	1	08/24/22	R-01
Trifluralin	ND	0.0020	0.010	ug/l	1	08/24/22	

Surrogate(s)

4,4-Dibromobiphenyl	*91%*	*Conc: 0.0945*	*70-130*			*08/24/22*	

Diquat and Paraquat by EPA 549.2

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:46

Sample Results

(Continued)

Sample: SMBRP-9
2H05046-01 (Water)

Sampled: 08/04/22 10:50 by Client

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Diquat and Paraquat by EPA 549.2 (Continued)							
Method: EPA 549.2			**Instr:** LC10				
Batch ID: W2H0719 **Preparation:** EPA 549.2/SPE			**Prepared:** 08/09/22 06:52				**Analyst:** pjs
Diquat	ND	0.90	4.0	ug/l	1	08/25/22	
Paraquat	ND	1.2	4.0	ug/l	1	08/25/22	
Endothall By EPA 548.1							
Method: EPA 548.1			**Instr:** GCMS06				
Batch ID: W2H0594 **Preparation:** EPA 548.1/SPE			**Prepared:** 08/09/22 08:15				**Analyst:** rmr
Endothall	ND	11	40	ug/l	1	08/11/22	
Glyphosate by EPA 547							
Method: EPA 547			**Instr:** LC11				
Batch ID: W2H1129 **Preparation:** _NONE (LC)			**Prepared:** 08/12/22 13:21				**Analyst:** PJS
Glyphosate	ND	1.8	5.0	ug/l	1	08/12/22	
Haloacetic Acids (HAAs) by GC/ECD							
Method: EPA 552.3			**Instr:** [CALC]				
Batch ID: [CALC] **Preparation:** [CALC]			**Prepared:** 08/15/22 08:11				**Analyst:** ecs
HAA5, Total	ND	0.28	1.0	ug/l	1	08/16/22	
Method: EPA 552.3			**Instr:** GC05				
Batch ID: W2H1161 **Preparation:** EPA 552.3/Micro Ext. Drtz			**Prepared:** 08/15/22 08:11				**Analyst:** ecs
Dibromoacetic acid (dbaa)	ND	0.28	1.0	ug/l	1	08/16/22	
Dichloroacetic acid (dcaa)	ND	0.29	1.0	ug/l	1	08/16/22	
Monobromoacetic acid (mbaa)	ND	0.34	1.0	ug/l	1	08/16/22	
Monochloroacetic acid (mcaa)	**0.53**	0.31	2.0	ug/l	1	08/16/22	J
Trichloroacetic acid (tcaa)	ND	0.29	1.0	ug/l	1	08/16/22	
Surrogate(s)							
2-Bromobutyric acid	*103%*	*Conc: 10.3*	*70-130*			*08/16/22*	
Hexavalent Chromium by IC							
Method: EPA 218.6			**Instr:** LC13				
Batch ID: W2H1192 **Preparation:** _NONE (LC)			**Prepared:** 08/15/22 10:43				**Analyst:** JAN
Chromium 6+	**3.2**	0.0079	0.020	ug/l	1	08/15/22	
Nitrosamines by isotopic dilution GC/MS CI Mode							
Method: EPA 1625B			**Instr:** GCMS09				
Batch ID: W2H0652 **Preparation:** EPA 3535/SPE			**Prepared:** 08/08/22 14:07				**Analyst:** mld
N-Nitrosodimethylamine	ND	0.66	2.0	ng/l	1	08/11/22	
PPCPs - Isotope Dilution LCMSMS							
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0887 **Preparation:** _NONE (LC)			**Prepared:** 08/10/22 11:15				**Analyst:** jna
Caffeine	ND	4.0	4.0	ng/l	1	08/12/22	
DEET	ND	4.0	4.0	ng/l	1	08/12/22	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:46

Sample Results

(Continued)

Sample: SMBRP-9
2H05046-01 (Water)

Sampled: 08/04/22 10:50 by Client

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
PPCPs - Isotope Dilution LCMSMS (Continued)							
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0887 **Preparation:** _NONE (LC)			**Prepared:** 08/10/22 11:15				**Analyst:** jna
Surrogate(s)							
Caffeine-13C3	*99%*	*Conc: 197*	*20-500*			*08/12/22*	
DEET-d7	*92%*	*Conc: 18.5*	*20-500*			*08/12/22*	
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0888 **Preparation:** _NONE (LC)			**Prepared:** 08/10/22 11:17				**Analyst:** jna
Triclosan	ND	8.0	8.0	ng/l	1	08/16/22	
Surrogate(s)							
Triclosan-d3	*61%*	*Conc: 244*	*20-500*			*08/16/22*	
Method: EPA 1694M			**Instr:** LCMS03				
Batch ID: W2H0889 **Preparation:** _NONE (LC)			**Prepared:** 08/10/22 11:17				**Analyst:** jna
17-b-Estradiol	ND	4.0	4.0	ng/l	1	08/17/22	
Sucralose	ND	20	20	ng/l	1	08/17/22	
Surrogate(s)							
17-b-Estradiol-d3	*104%*	*Conc: 208*	*20-500*			*08/17/22*	
Sucralose-d6	*24%*	*Conc: 236*	*20-500*			*08/17/22*	
Semivolatile Organic Compounds by GC/MS							
Method: EPA 525.2			**Instr:** GCMS16				
Batch ID: W2H1378 **Preparation:** EPA 525.2/SPE			**Prepared:** 08/17/22 07:53				**Analyst:** rmr
Alachlor	ND	0.030	0.10	ug/l	1	08/18/22	
Atrazine	ND	0.011	0.10	ug/l	1	08/18/22	
Benzo (a) pyrene	ND	0.020	0.10	ug/l	1	08/18/22	
Bis(2-ethylhexyl)adipate	ND	0.42	2.0	ug/l	1	08/18/22	
Bis(2-ethylhexyl)phthalate	ND	0.41	2.0	ug/l	1	08/18/22	
Bromacil	ND	0.070	0.50	ug/l	1	08/18/22	
Butachlor	ND	0.012	0.10	ug/l	1	08/18/22	
Captan	ND	0.32	1.0	ug/l	1	08/18/22	
Chlorpropham	ND	0.040	0.10	ug/l	1	08/18/22	
Diazinon	ND	0.022	0.10	ug/l	1	08/18/22	
Dimethoate	ND	0.020	0.20	ug/l	1	08/18/22	
Diphenamid	ND	0.030	0.10	ug/l	1	08/18/22	
Disulfoton	ND	0.015	0.10	ug/l	1	08/18/22	
EPTC	ND	0.020	0.10	ug/l	1	08/18/22	
Hexachlorocyclopentadiene	ND	0.092	1.0	ug/l	1	08/18/22	
Metolachlor	ND	0.030	0.10	ug/l	1	08/18/22	
Metribuzin	ND	0.030	0.10	ug/l	1	08/18/22	
Molinate	ND	0.030	0.10	ug/l	1	08/18/22	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported: 10/03/2022 16:46

Sample Results

(Continued)

Sample: SMBRP-9
2H05046-01 (Water)

Sampled: 08/04/22 10:50 by Client

(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organic Compounds by GC/MS (Continued)							
Method: EPA 525.2			**Instr:** GCMS16				
Batch ID: W2H1378 **Preparation:** EPA 525.2/SPE			**Prepared:** 08/17/22 07:53				**Analyst:** rmr
Prometryn	ND	0.030	0.10	ug/l	1	08/18/22	
Simazine	ND	0.020	0.10	ug/l	1	08/18/22	
Terbacil	ND	0.090	2.0	ug/l	1	08/18/22	
Thiobencarb	ND	0.030	0.10	ug/l	1	08/18/22	
Trithion	ND	0.020	0.10	ug/l	1	08/18/22	
Surrogate(s)							
1,3-Dimethyl-2-nitrobenzene	*106%*	*Conc: 5.51*	*70-130*			*08/18/22*	
Perylene-d12	*89%*	*Conc: 4.67*	*50-120*			*08/18/22*	
Triphenyl phosphate	*105%*	*Conc: 5.47*	*70-130*			*08/18/22*	
Volatile Organics by P&T and GC/MS							
Method: EPA 524.3			**Instr:** GCMS08				
Batch ID: W2H1133 **Preparation:** Method (P+T)			**Prepared:** 08/12/22 14:47				**Analyst:** ADM
1,2-Dibromo-3-chloropropane	ND	0.0042	0.010	ug/l	1	08/13/22	
1,2-Dibromoethane (EDB)	ND	0.0029	0.020	ug/l	1	08/13/22	
Surrogate(s)							
1,2-Dichlorobenzene-d4	*100%*	*Conc: 0.400*	*70-130*			*08/13/22*	
4-Bromofluorobenzene	*83%*	*Conc: 0.330*	*70-130*			*08/13/22*	

Sample Results

(Continued)

Sample: SMBRP-9 Travel Blank
2H05046-02 (Water)

Sampled: 08/04/22 0:00 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organics by P&T and GC/MS							
Method: EPA 524.3			**Instr:** GCMS08				
Batch ID: W2H1133 **Preparation:** Method (P+T)			**Prepared:** 08/12/22 14:47				**Analyst:** ADM
1,2-Dibromo-3-chloropropane	ND	0.0042	0.010	ug/l	1	08/13/22	
1,2-Dibromoethane (EDB)	ND	0.0029	0.020	ug/l	1	08/13/22	
Surrogate(s)							
1,2-Dichlorobenzene-d4	*100%*	*Conc: 0.400*	*70-130*			*08/13/22*	
4-Bromofluorobenzene	*82%*	*Conc: 0.328*	*70-130*			*08/13/22*	

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

Acid and Base/Neutral Extractables by GC/MS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0963 - EPA 625.1											
Blank (W2H0963-BLK1)					**Prepared: 08/11/22 Analyzed: 08/17/22**						
1,2,4-Trichlorobenzene	ND	0.49	1.0	ug/l							
1,2-Dichlorobenzene	ND	0.46	1.0	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	0.30	1.0	ug/l							
1,3-Dichlorobenzene	ND	0.42	1.0	ug/l							
1,4-Dichlorobenzene	ND	0.48	1.0	ug/l							
2,4,6-Trichlorophenol	ND	0.22	1.0	ug/l							
2,4-Dichlorophenol	ND	0.26	1.0	ug/l							
2,4-Dimethylphenol	ND	0.76	1.0	ug/l							
2,4-Dinitrophenol	ND	1.9	10	ug/l							
2,4-Dinitrotoluene	ND	0.46	1.0	ug/l							
2,6-Dinitrotoluene	ND	0.27	1.0	ug/l							
2-Chloronaphthalene	ND	0.45	1.0	ug/l							
2-Chlorophenol	ND	0.28	1.0	ug/l							
2-Methyl-4,6-dinitrophenol	ND	0.50	5.0	ug/l							
2-Nitrophenol	ND	0.26	1.0	ug/l							
3,3'-Dichlorobenzidine	ND	2.5	5.0	ug/l							
4-Bromophenyl phenyl ether	ND	0.36	1.0	ug/l							
4-Chloro-3-methylphenol	ND	0.23	1.0	ug/l							
4-Chlorophenyl phenyl ether	ND	0.41	1.0	ug/l							
4-Nitrophenol	ND	1.2	5.0	ug/l							
Acenaphthene	ND	0.38	1.0	ug/l							
Acenaphthylene	ND	0.35	1.0	ug/l							
Anthracene	ND	0.41	1.0	ug/l							
Benzidine	ND	3.2	10	ug/l							
Benzo (a) anthracene	ND	0.19	1.0	ug/l							
Benzo (a) pyrene	ND	0.39	1.0	ug/l							
Benzo (b) fluoranthene	ND	0.46	1.0	ug/l							
Benzo (g,h,i) perylene	ND	0.42	2.0	ug/l							
Benzo (k) fluoranthene	ND	0.22	1.0	ug/l							
Bis(2-chloroethoxy)methane	ND	0.25	1.0	ug/l							
Bis(2-chloroethyl)ether	ND	0.27	1.0	ug/l							
Bis(2-chloroisopropyl)ether	ND	0.38	1.0	ug/l							
Bis(2-ethylhexyl)phthalate	ND	2.3	5.0	ug/l							
Butyl benzyl phthalate	ND	0.49	1.0	ug/l							
Chrysene	ND	0.19	1.0	ug/l							
Dibenzo (a,h) anthracene	ND	0.15	2.0	ug/l							
Diethyl phthalate	ND	0.35	1.0	ug/l							
Dimethyl phthalate	ND	0.18	1.0	ug/l							
Di-n-butyl phthalate	ND	0.34	1.0	ug/l							

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0963 - EPA 625.1 (Continued)											
Blank (W2H0963-BLK1)					**Prepared: 08/11/22 Analyzed: 08/17/22**						
Di-n-octyl phthalate	ND	0.46	1.0	ug/l							
Fluoranthene	ND	0.35	1.0	ug/l							
Fluorene	ND	0.35	1.0	ug/l							
Hexachlorobenzene	ND	0.49	1.0	ug/l							
Hexachlorobutadiene	ND	0.47	1.0	ug/l							
Hexachlorocyclopentadiene	ND	0.31	5.0	ug/l							
Hexachloroethane	ND	0.50	1.0	ug/l							
Indeno (1,2,3-cd) pyrene	ND	0.25	2.0	ug/l							
Isophorone	ND	0.21	1.0	ug/l							
Naphthalene	ND	0.49	1.0	ug/l							
Nitrobenzene	ND	0.36	1.0	ug/l							
N-Nitrosodimethylamine	ND	0.50	1.0	ug/l							
N-Nitrosodi-n-propylamine	ND	0.26	1.0	ug/l							
N-Nitrosodiphenylamine	ND	0.19	1.0	ug/l							
Pentachlorophenol	ND	0.40	1.0	ug/l							
Phenanthrene	ND	0.32	1.0	ug/l							
Phenol	ND	0.81	1.0	ug/l							
Pyrene	ND	0.25	1.0	ug/l							
Surrogate(s)											
2,4,6-Tribromophenol	*26.0*			*ug/l*	*40.0*		*65*	*25-120*			
2-Fluorobiphenyl	*14.8*			*ug/l*	*20.0*		*74*	*22-120*			
2-Fluorophenol	*21.7*			*ug/l*	*40.0*		*54*	*17-120*			
Nitrobenzene-d5	*16.5*			*ug/l*	*20.0*		*83*	*47-120*			
Phenol-d5	*14.4*			*ug/l*	*40.0*		*36*	*12-120*			
Terphenyl-d14	*16.6*			*ug/l*	*20.0*		*83*	*44-129*			
LCS (W2H0963-BS1)					**Prepared: 08/11/22 Analyzed: 08/17/22**						
1,2,4-Trichlorobenzene	17.1	0.49	1.0	ug/l	20.0		85	57-130			
1,2-Dichlorobenzene	17.9	0.46	1.0	ug/l	20.0		90	57-120			
1,3-Dichlorobenzene	16.1	0.42	1.0	ug/l	20.0		81	55-120			
1,4-Dichlorobenzene	16.1	0.48	1.0	ug/l	20.0		81	55-120			
2,4,6-Trichlorophenol	18.3	0.22	1.0	ug/l	20.0		91	52-129			
2,4-Dichlorophenol	18.7	0.26	1.0	ug/l	20.0		94	53-122			
2,4-Dimethylphenol	16.2	0.76	1.0	ug/l	20.0		81	42-120			
2,4-Dinitrophenol	24.0	1.9	10	ug/l	20.0		120	0.1-173			
2,4-Dinitrotoluene	20.3	0.46	1.0	ug/l	20.0		101	48-127			
2,6-Dinitrotoluene	16.4	0.27	1.0	ug/l	20.0		82	68-137			
2-Chloronaphthalene	16.8	0.45	1.0	ug/l	20.0		84	65-120			
2-Chlorophenol	17.1	0.28	1.0	ug/l	20.0		85	36-120			
2-Methyl-4,6-dinitrophenol	22.2	0.50	5.0	ug/l	20.0		111	53-130			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0963 - EPA 625.1 (Continued)											
LCS (W2H0963-BS1)					**Prepared: 08/11/22**	**Analyzed: 08/17/22**					
2-Nitrophenol	20.7	0.26	1.0	ug/l	20.0		103	45-167			
3,3'-Dichlorobenzidine	14.1	2.5	5.0	ug/l	20.0		71	8-213			
4-Bromophenyl phenyl ether	18.4	0.36	1.0	ug/l	20.0		92	65-120			
4-Chloro-3-methylphenol	18.3	0.23	1.0	ug/l	20.0		91	41-128			
4-Chlorophenyl phenyl ether	16.9	0.41	1.0	ug/l	20.0		84	38-145			
4-Nitrophenol	8.97	1.2	5.0	ug/l	20.0		45	13-129			
Acenaphthene	18.9	0.38	1.0	ug/l	20.0		95	60-132			
Acenaphthylene	17.5	0.35	1.0	ug/l	20.0		88	54-126			
Anthracene	21.4	0.41	1.0	ug/l	20.0		107	43-120			
Benzidine	0.462	0.0	10	ug/l	20.0		2	0.1-200			J
Benzo (a) anthracene	23.3	0.19	1.0	ug/l	20.0		116	42-133			
Benzo (a) pyrene	23.7	0.39	1.0	ug/l	20.0		118	32-148			
Benzo (b) fluoranthene	22.7	0.46	1.0	ug/l	20.0		114	42-140			AN-IP
Benzo (g,h,i) perylene	19.7	0.42	2.0	ug/l	20.0		98	0.1-195			
Benzo (k) fluoranthene	22.6	0.22	1.0	ug/l	20.0		113	25-146			AN-IP
Bis(2-chloroethoxy)methane	17.3	0.25	1.0	ug/l	20.0		87	49-165			
Bis(2-chloroethyl)ether	16.7	0.27	1.0	ug/l	20.0		83	43-126			
Bis(2-chloroisopropyl)ether	18.4	0.38	1.0	ug/l	20.0		92	63-139			
Bis(2-ethylhexyl)phthalate	26.2	2.3	5.0	ug/l	20.0		131	29-137			
Butyl benzyl phthalate	25.6	0.49	1.0	ug/l	20.0		128	0.1-140			
Chrysene	19.1	0.19	1.0	ug/l	20.0		95	44-140			
Dibenzo (a,h) anthracene	18.8	0.15	2.0	ug/l	20.0		94	0.1-200			
Diethyl phthalate	18.8	0.35	1.0	ug/l	20.0		94	0.1-120			
Dimethyl phthalate	17.3	0.18	1.0	ug/l	20.0		86	0.1-120			
Di-n-butyl phthalate	23.5	0.34	1.0	ug/l	20.0		117	8-120			
Di-n-octyl phthalate	23.4	0.46	1.0	ug/l	20.0		117	19-132			
Fluoranthene	39.9	0.35	1.0	ug/l	20.0		200	43-121			Q-08
Fluorene	18.4	0.35	1.0	ug/l	20.0		92	70-120			
Hexachlorobenzene	18.6	0.49	1.0	ug/l	20.0		93	8-142			
Hexachlorobutadiene	17.4	0.47	1.0	ug/l	20.0		87	38-120			
Hexachlorocyclopentadiene	11.3	0.31	5.0	ug/l	20.0		56	10-120			
Hexachloroethane	16.8	0.50	1.0	ug/l	20.0		84	55-120			
Indeno (1,2,3-cd) pyrene	18.6	0.25	2.0	ug/l	20.0		93	0.1-151			
Isophorone	15.5	0.21	1.0	ug/l	20.0		78	47-180			
Naphthalene	16.8	0.49	1.0	ug/l	20.0		84	36-120			
Nitrobenzene	18.2	0.36	1.0	ug/l	20.0		91	54-158			
N-Nitrosodimethylamine	11.1	0.50	1.0	ug/l	20.0		56	22-120			
N-Nitrosodi-n-propylamine	19.1	0.26	1.0	ug/l	20.0		96	14-198			
N-Nitrosodiphenylamine	15.3	0.19	1.0	ug/l	20.0		76	47-120			

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0963 - EPA 625.1 (Continued)											
LCS (W2H0963-BS1)					**Prepared: 08/11/22 Analyzed: 08/17/22**						
Pentachlorophenol	19.7	0.40	1.0	ug/l	20.0		98	41-120			
Phenanthrene	21.6	0.32	1.0	ug/l	20.0		108	65-120			
Phenol	7.18	0.81	1.0	ug/l	20.0		36	17-120			
Pyrene	23.3	0.25	1.0	ug/l	20.0		117	70-120			
Surrogate(s)											
2,4,6-Tribromophenol	*35.5*			*ug/l*	*40.0*		*89*	*25-120*			
2-Fluorobiphenyl	*17.3*			*ug/l*	*20.0*		*87*	*22-120*			
2-Fluorophenol	*22.3*			*ug/l*	*40.0*		*56*	*17-120*			
Nitrobenzene-d5	*19.7*			*ug/l*	*20.0*		*99*	*47-120*			
Phenol-d5	*15.9*			*ug/l*	*40.0*		*40*	*12-120*			
Terphenyl-d14	*21.6*			*ug/l*	*20.0*		*108*	*44-129*			
LCS Dup (W2H0963-BSD1)					**Prepared: 08/11/22 Analyzed: 08/17/22**						
1,2,4-Trichlorobenzene	14.8	0.49	1.0	ug/l	20.0		74	57-130	15	30	
1,2-Dichlorobenzene	14.8	0.46	1.0	ug/l	20.0		74	57-120	19	30	
1,3-Dichlorobenzene	13.8	0.42	1.0	ug/l	20.0		69	55-120	15	30	
1,4-Dichlorobenzene	13.7	0.48	1.0	ug/l	20.0		69	55-120	16	30	
2,4,6-Trichlorophenol	16.8	0.22	1.0	ug/l	20.0		84	52-129	9	30	
2,4-Dichlorophenol	16.6	0.26	1.0	ug/l	20.0		83	53-122	12	30	
2,4-Dimethylphenol	15.5	0.76	1.0	ug/l	20.0		77	42-120	4	30	
2,4-Dinitrophenol	23.3	1.9	10	ug/l	20.0		117	0.1-173	3	30	
2,4-Dinitrotoluene	19.1	0.46	1.0	ug/l	20.0		95	48-127	6	30	
2,6-Dinitrotoluene	15.9	0.27	1.0	ug/l	20.0		79	68-137	4	30	
2-Chloronaphthalene	15.1	0.45	1.0	ug/l	20.0		76	65-120	10	30	
2-Chlorophenol	14.9	0.28	1.0	ug/l	20.0		75	36-120	13	30	
2-Methyl-4,6-dinitrophenol	20.9	0.50	5.0	ug/l	20.0		104	53-130	6	30	
2-Nitrophenol	18.5	0.26	1.0	ug/l	20.0		93	45-167	11	30	
3,3'-Dichlorobenzidine	13.9	2.5	5.0	ug/l	20.0		70	8-213	1	30	
4-Bromophenyl phenyl ether	17.2	0.36	1.0	ug/l	20.0		86	65-120	7	30	
4-Chloro-3-methylphenol	17.0	0.23	1.0	ug/l	20.0		85	41-128	7	30	
4-Chlorophenyl phenyl ether	15.7	0.41	1.0	ug/l	20.0		79	38-145	7	30	
4-Nitrophenol	8.31	1.2	5.0	ug/l	20.0		42	13-129	8	30	
Acenaphthene	17.9	0.38	1.0	ug/l	20.0		90	60-132	5	30	
Acenaphthylene	16.0	0.35	1.0	ug/l	20.0		80	54-126	9	30	
Anthracene	19.6	0.41	1.0	ug/l	20.0		98	43-120	9	30	
Benzidine	2.52	0.0	10	ug/l	20.0		13	0.1-200	138	30	J
Benzo (a) anthracene	22.4	0.19	1.0	ug/l	20.0		112	42-133	4	30	
Benzo (a) pyrene	21.5	0.39	1.0	ug/l	20.0		108	32-148	10	30	
Benzo (b) fluoranthene	20.7	0.46	1.0	ug/l	20.0		103	42-140	9	30	AN-IP
Benzo (g,h,i) perylene	18.4	0.42	2.0	ug/l	20.0		92	0.1-195	7	30	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0963 - EPA 625.1 (Continued)											
LCS Dup (W2H0963-BSD1)					**Prepared: 08/11/22**	**Analyzed: 08/17/22**					
Benzo (k) fluoranthene	21.1	0.22	1.0	ug/l	20.0		106	25-146	7	30	AN-IP
Bis(2-chloroethoxy)methane	16.0	0.25	1.0	ug/l	20.0		80	49-165	8	30	
Bis(2-chloroethyl)ether	14.7	0.27	1.0	ug/l	20.0		73	43-126	13	30	
Bis(2-chloroisopropyl)ether	16.5	0.38	1.0	ug/l	20.0		83	63-139	11	30	
Bis(2-ethylhexyl)phthalate	25.4	2.3	5.0	ug/l	20.0		127	29-137	3	30	
Butyl benzyl phthalate	25.8	0.49	1.0	ug/l	20.0		129	0.1-140	0.6	30	
Chrysene	18.5	0.19	1.0	ug/l	20.0		93	44-140	3	30	
Dibenzo (a,h) anthracene	17.5	0.15	2.0	ug/l	20.0		87	0.1-200	7	30	
Diethyl phthalate	17.6	0.35	1.0	ug/l	20.0		88	0.1-120	7	30	
Dimethyl phthalate	16.0	0.18	1.0	ug/l	20.0		80	0.1-120	8	30	
Di-n-butyl phthalate	22.6	0.34	1.0	ug/l	20.0		113	8-120	4	30	
Di-n-octyl phthalate	22.3	0.46	1.0	ug/l	20.0		111	19-132	5	30	
Fluoranthene	38.1	0.35	1.0	ug/l	20.0		190	43-121	5	30	Q-08
Fluorene	16.9	0.35	1.0	ug/l	20.0		84	70-120	8	30	
Hexachlorobenzene	17.1	0.49	1.0	ug/l	20.0		85	8-142	8	30	
Hexachlorobutadiene	14.8	0.47	1.0	ug/l	20.0		74	38-120	16	30	
Hexachlorocyclopentadiene	10.0	0.31	5.0	ug/l	20.0		50	10-120	12	30	
Hexachloroethane	14.2	0.50	1.0	ug/l	20.0		71	55-120	17	30	
Indeno (1,2,3-cd) pyrene	17.2	0.25	2.0	ug/l	20.0		86	0.1-151	8	30	
Isophorone	14.5	0.21	1.0	ug/l	20.0		73	47-180	7	30	
Naphthalene	14.9	0.49	1.0	ug/l	20.0		74	36-120	12	30	
Nitrobenzene	16.5	0.36	1.0	ug/l	20.0		83	54-158	10	30	
N-Nitrosodimethylamine	10.1	0.50	1.0	ug/l	20.0		50	22-120	10	30	
N-Nitrosodi-n-propylamine	17.9	0.26	1.0	ug/l	20.0		89	14-198	7	30	
N-Nitrosodiphenylamine	14.4	0.19	1.0	ug/l	20.0		72	47-120	6	30	
Pentachlorophenol	18.4	0.40	1.0	ug/l	20.0		92	41-120	7	30	
Phenanthrene	21.3	0.32	1.0	ug/l	20.0		106	65-120	2	30	
Phenol	6.37	0.81	1.0	ug/l	20.0		32	17-120	12	30	
Pyrene	23.3	0.25	1.0	ug/l	20.0		116	70-120	0.1	30	
Surrogate(s)											
2,4,6-Tribromophenol	*34.0*			*ug/l*	*40.0*		*85*	*25-120*			
2-Fluorobiphenyl	*15.0*			*ug/l*	*20.0*		*75*	*22-120*			
2-Fluorophenol	*19.8*			*ug/l*	*40.0*		*49*	*17-120*			
Nitrobenzene-d5	*17.5*			*ug/l*	*20.0*		*87*	*47-120*			
Phenol-d5	*14.1*			*ug/l*	*40.0*		*35*	*12-120*			
Terphenyl-d14	*21.2*			*ug/l*	*20.0*		*106*	*44-129*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

Anions by IC, EPA Method 300.1

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1193 - EPA 300.1											
Blank (W2H1193-BLK1)					**Prepared & Analyzed: 08/15/22**						
Bromate	ND	1.4	5.0	ug/l							
Chlorite	ND	2.2	10	ug/l							
Surrogate(s)											
Dichloroacetate	*529*			*ug/l*	*500*		*106*	*90-115*			
LCS (W2H1193-BS1)					**Prepared & Analyzed: 08/15/22**						
Bromate	98.6	1.4	5.0	ug/l	100		99	85-115			
Chlorite	99.6	2.2	10	ug/l	100		100	85-115			
Surrogate(s)											
Dichloroacetate	*521*			*ug/l*	*500*		*104*	*90-115*			
Matrix Spike (W2H1193-MS1)	**Source: 2H03055-01**				**Prepared & Analyzed: 08/15/22**						
Bromate	103	1.4	5.0	ug/l	100	ND	103	64-133			
Chlorite	96.7	2.2	10	ug/l	100	ND	97	78-129			
Surrogate(s)											
Dichloroacetate	*545*			*ug/l*	*500*		*109*	*90-115*			
Matrix Spike (W2H1193-MS2)	**Source: 2H05020-01**				**Prepared & Analyzed: 08/15/22**						
Bromate	97.8	1.4	5.0	ug/l	100	ND	98	64-133			
Chlorite	98.0	2.2	10	ug/l	100	ND	98	78-129			
Surrogate(s)											
Dichloroacetate	*521*			*ug/l*	*500*		*104*	*90-115*			
Matrix Spike Dup (W2H1193-MSD1)	**Source: 2H03055-01**				**Prepared & Analyzed: 08/15/22**						
Bromate	106	1.4	5.0	ug/l	100	ND	106	64-133	3	20	
Chlorite	97.8	2.2	10	ug/l	100	ND	98	78-129	1	20	
Surrogate(s)											
Dichloroacetate	*541*			*ug/l*	*500*		*108*	*90-115*			
Matrix Spike Dup (W2H1193-MSD2)	**Source: 2H05020-01**				**Prepared & Analyzed: 08/15/22**						
Bromate	101	1.4	5.0	ug/l	100	ND	101	64-133	3	20	
Chlorite	99.4	2.2	10	ug/l	100	ND	99	78-129	1	20	
Surrogate(s)											
Dichloroacetate	*534*			*ug/l*	*500*		*107*	*90-115*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

Carbamates and Urea Pesticides

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1369 - EPA 531.2											
Blank (W2H1369-BLK1)					**Prepared: 08/16/22 Analyzed: 08/17/22**						
3-Hydroxycarbofuran	ND	0.82	2.0	ug/l							
Aldicarb	ND	0.58	2.0	ug/l							
Aldicarb sulfone	ND	0.73	2.0	ug/l							
Aldicarb sulfoxide	ND	1.0	2.0	ug/l							
Carbaryl	ND	1.0	2.0	ug/l							
Carbofuran	ND	1.0	2.0	ug/l							
Methiocarb	ND	1.0	2.0	ug/l							
Methomyl	ND	1.3	2.0	ug/l							
Oxamyl	ND	1.1	2.0	ug/l							
Propoxur (Baygon)	ND	1.4	2.0	ug/l							
Surrogate(s)											
BDMC	*8.58*			*ug/l*	*10.0*		*86*	*70-130*			
LCS (W2H1369-BS1)					**Prepared: 08/16/22 Analyzed: 08/17/22**						
3-Hydroxycarbofuran	10.3	0.82	2.0	ug/l	10.0		103	70-130			
Aldicarb	10.8	0.58	2.0	ug/l	10.0		108	70-130			
Aldicarb sulfone	12.3	0.73	2.0	ug/l	10.0		123	70-130			
Aldicarb sulfoxide	12.6	1.0	2.0	ug/l	10.0		126	70-130			
Carbaryl	10.6	1.0	2.0	ug/l	10.0		106	70-130			
Carbofuran	11.1	1.0	2.0	ug/l	10.0		111	70-130			
Methiocarb	11.0	1.0	2.0	ug/l	10.0		110	70-130			
Methomyl	13.1	1.3	2.0	ug/l	10.0		131	70-130			Q-08
Oxamyl	12.8	1.1	2.0	ug/l	10.0		128	70-130			
Propoxur (Baygon)	11.3	1.4	2.0	ug/l	10.0		113	70-130			
Surrogate(s)											
BDMC	*10.5*			*ug/l*	*10.0*		*105*	*70-130*			
Matrix Spike (W2H1369-MS1)	**Source: 1G28007-02**				**Prepared: 08/16/22 Analyzed: 08/17/22**						
3-Hydroxycarbofuran	10.9	0.82	2.0	ug/l	10.0	ND	109	70-130			
Aldicarb	12.2	0.58	2.0	ug/l	10.0	ND	122	70-130			
Aldicarb sulfone	14.0	0.73	2.0	ug/l	10.0	ND	140	70-130			MS-01
Aldicarb sulfoxide	14.3	1.0	2.0	ug/l	10.0	ND	143	70-130			MS-01
Carbaryl	11.6	1.0	2.0	ug/l	10.0	ND	116	70-130			
Carbofuran	12.3	1.0	2.0	ug/l	10.0	ND	123	70-130			
Methiocarb	11.0	1.0	2.0	ug/l	10.0	ND	110	70-130			
Methomyl	14.9	1.3	2.0	ug/l	10.0	ND	149	70-130			Q-08
Oxamyl	14.4	1.1	2.0	ug/l	10.0	ND	144	70-130			MS-01
Propoxur (Baygon)	12.4	1.4	2.0	ug/l	10.0	ND	124	70-130			
Surrogate(s)											
BDMC	*8.67*			*ug/l*	*10.0*		*87*	*70-130*			
Matrix Spike Dup (W2H1369-MSD1)	**Source: 1G28007-02**				**Prepared: 08/16/22 Analyzed: 08/17/22**						
3-Hydroxycarbofuran	11.3	0.82	2.0	ug/l	10.0	ND	113	70-130	3	30	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

Carbamates and Urea Pesticides (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1369 - EPA 531.2 (Continued)											
Matrix Spike Dup (W2H1369-MSD1)	**Source: 1G28007-02**				**Prepared: 08/16/22**	**Analyzed: 08/17/22**					
Aldicarb	12.6	0.58	2.0	ug/l	10.0	ND	126	70-130	4	30	
Aldicarb sulfone	14.4	0.73	2.0	ug/l	10.0	ND	144	70-130	3	30	MS-01
Aldicarb sulfoxide	14.2	1.0	2.0	ug/l	10.0	ND	142	70-130	1	30	MS-01
Carbaryl	10.4	1.0	2.0	ug/l	10.0	ND	104	70-130	12	30	
Carbofuran	10.2	1.0	2.0	ug/l	10.0	ND	102	70-130	19	30	
Methiocarb	11.9	1.0	2.0	ug/l	10.0	ND	119	70-130	8	30	
Methomyl	14.7	1.3	2.0	ug/l	10.0	ND	147	70-130	1	30	Q-08
Oxamyl	14.0	1.1	2.0	ug/l	10.0	ND	140	70-130	3	30	MS-01
Propoxur (Baygon)	11.4	1.4	2.0	ug/l	10.0	ND	114	70-130	8	30	
Surrogate(s)											
BDMC	*10.8*			*ug/l*	*10.0*		*108*	*70-130*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

Chlorinated Acids Herbicides by GC/ECD

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1051 - EPA 515.4											
Blank (W2H1051-BLK1)					**Prepared: 08/12/22 Analyzed: 08/16/22**						
2,4,5-T	ND	0.030	0.20	ug/l							
2,4,5-TP (Silvex)	ND	0.026	0.20	ug/l							
2,4-D	ND	0.14	0.40	ug/l							
2,4-DB	ND	0.19	2.0	ug/l							
3,5-Dichlorobenzoic acid	ND	0.12	1.0	ug/l							
Acifluorfen	ND	0.030	0.40	ug/l							
Bentazon	ND	0.23	2.0	ug/l							
Dalapon	ND	0.11	0.40	ug/l							
DCPA	ND	0.029	0.10	ug/l							
Dicamba	ND	0.049	0.60	ug/l							
Dichloroprop	ND	0.12	0.30	ug/l							
Dinoseb	ND	0.033	0.40	ug/l							
Pentachlorophenol	ND	0.046	0.20	ug/l							
Picloram	ND	0.050	0.60	ug/l							
Surrogate(s)											
2,4-DCAA	*9.22*			*ug/l*	*10.0*		*92*	*70-130*			
LCS (W2H1051-BS1)					**Prepared: 08/12/22 Analyzed: 08/16/22**						
2,4,5-T	4.18	0.030	0.20	ug/l	4.00		105	70-130			
2,4,5-TP (Silvex)	4.16	0.026	0.20	ug/l	4.00		104	70-130			
2,4-D	8.32	0.14	0.40	ug/l	8.00		104	70-130			
2,4-DB	17.0	0.19	2.0	ug/l	16.0		106	70-130			
3,5-Dichlorobenzoic acid	8.26	0.12	1.0	ug/l	8.00		103	70-130			
Acifluorfen	4.19	0.030	0.40	ug/l	4.00		105	70-130			
Bentazon	15.9	0.23	2.0	ug/l	16.0		99	70-130			
Dalapon	7.98	0.11	0.40	ug/l	8.00		100	70-130			
DCPA	4.07	0.029	0.10	ug/l	4.00		102	70-130			
Dicamba	8.32	0.049	0.60	ug/l	8.00		104	70-130			
Dichloroprop	8.41	0.12	0.30	ug/l	8.00		105	70-130			
Dinoseb	4.18	0.033	0.40	ug/l	4.00		105	70-130			
Pentachlorophenol	4.07	0.046	0.20	ug/l	4.00		102	70-130			
Picloram	4.02	0.050	0.60	ug/l	4.00		101	70-130			
Surrogate(s)											
2,4-DCAA	*9.98*			*ug/l*	*10.0*		*100*	*70-130*			
Matrix Spike (W2H1051-MS1)	**Source: 2H04048-01**				**Prepared: 08/12/22 Analyzed: 08/16/22**						
2,4,5-T	4.21	0.030	0.20	ug/l	4.00	ND	105	70-130			
2,4,5-TP (Silvex)	4.13	0.026	0.20	ug/l	4.00	ND	103	70-130			
2,4-D	8.32	0.14	0.40	ug/l	8.00	ND	104	70-130			
2,4-DB	16.9	0.19	2.0	ug/l	16.0	ND	106	70-130			
3,5-Dichlorobenzoic acid	8.33	0.12	1.0	ug/l	8.00	ND	104	70-130			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

Chlorinated Acids Herbicides by GC/ECD (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1051 - EPA 515.4 (Continued)											
Matrix Spike (W2H1051-MS1)	**Source: 2H04048-01**				**Prepared: 08/12/22**	**Analyzed: 08/16/22**					
Acifluorfen	4.28	0.030	0.40	ug/l	4.00	ND	107	70-130			
Bentazon	16.1	0.23	2.0	ug/l	16.0	ND	100	70-130			
Dalapon	7.95	0.11	0.40	ug/l	8.00	ND	99	70-130			
DCPA	4.24	0.029	0.10	ug/l	4.00	ND	106	70-130			
Dicamba	8.34	0.049	0.60	ug/l	8.00	ND	104	70-130			
Dichloroprop	8.49	0.12	0.30	ug/l	8.00	ND	106	70-130			
Dinoseb	4.16	0.033	0.40	ug/l	4.00	ND	104	70-130			
Pentachlorophenol	4.10	0.046	0.20	ug/l	4.00	ND	102	70-130			
Picloram	4.07	0.050	0.60	ug/l	4.00	ND	102	70-130			
Surrogate(s)											
2,4-DCAA	*10.1*			*ug/l*	*10.0*		*101*	*70-130*			
Matrix Spike Dup (W2H1051-MSD1)	**Source: 2H04048-01**				**Prepared: 08/12/22**	**Analyzed: 08/16/22**					
2,4,5-T	4.18	0.030	0.20	ug/l	4.00	ND	105	70-130	0.7	30	
2,4,5-TP (Silvex)	4.05	0.026	0.20	ug/l	4.00	ND	101	70-130	2	30	
2,4-D	8.32	0.14	0.40	ug/l	8.00	ND	104	70-130	0.03	30	
2,4-DB	16.6	0.19	2.0	ug/l	16.0	ND	104	70-130	2	30	
3,5-Dichlorobenzoic acid	8.41	0.12	1.0	ug/l	8.00	ND	105	70-130	0.9	30	
Acifluorfen	4.28	0.030	0.40	ug/l	4.00	ND	107	70-130	0.06	30	
Bentazon	15.9	0.23	2.0	ug/l	16.0	ND	99	70-130	1	30	
Dalapon	8.24	0.11	0.40	ug/l	8.00	ND	103	70-130	4	30	
DCPA	4.17	0.029	0.10	ug/l	4.00	ND	104	70-130	2	30	
Dicamba	8.26	0.049	0.60	ug/l	8.00	ND	103	70-130	0.9	30	
Dichloroprop	8.43	0.12	0.30	ug/l	8.00	ND	105	70-130	0.7	30	
Dinoseb	4.07	0.033	0.40	ug/l	4.00	ND	102	70-130	2	30	
Pentachlorophenol	4.04	0.046	0.20	ug/l	4.00	ND	101	70-130	1	30	
Picloram	4.11	0.050	0.60	ug/l	4.00	ND	103	70-130	1	30	
Surrogate(s)											
2,4-DCAA	*9.87*			*ug/l*	*10.0*		*99*	*70-130*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1511 - EPA 508.1											
Blank (W2H1511-BLK1)					**Prepared: 08/18/22 Analyzed: 08/24/22**						
4,4´-DDD	ND	0.0030	0.010	ug/l							
4,4´-DDE	ND	0.0018	0.010	ug/l							
4,4´-DDT	ND	0.0030	0.010	ug/l							
Aldrin	ND	0.0040	0.010	ug/l							
alpha-BHC	ND	0.0019	0.010	ug/l							
Aroclor 1016	ND	0.016	0.10	ug/l							
Aroclor 1221	ND	0.044	0.10	ug/l							
Aroclor 1232	ND	0.010	0.10	ug/l							
Aroclor 1242	ND	0.074	0.10	ug/l							
Aroclor 1248	ND	0.094	0.10	ug/l							
Aroclor 1254	ND	0.087	0.10	ug/l							
Aroclor 1260	ND	0.038	0.10	ug/l							
beta-BHC	ND	0.0024	0.010	ug/l							
Chlordane (tech)	ND	0.067	0.10	ug/l							
Chlorothalonil	ND	0.0015	0.050	ug/l							
delta-BHC	ND	0.0030	0.010	ug/l							
Dieldrin	ND	0.0030	0.010	ug/l							
Endosulfan I	ND	0.0030	0.010	ug/l							
Endosulfan II	ND	0.0016	0.010	ug/l							
Endosulfan sulfate	ND	0.0030	0.010	ug/l							
Endrin	ND	0.0013	0.010	ug/l							
Endrin aldehyde	ND	0.0040	0.010	ug/l							
gamma-BHC (Lindane)	ND	0.0030	0.010	ug/l							
Heptachlor	ND	0.0017	0.010	ug/l							
Heptachlor epoxide	ND	0.0019	0.010	ug/l							
Hexachlorobenzene	ND	0.0040	0.050	ug/l							
Hexachlorocyclopentadiene	ND	0.0065	0.050	ug/l							
Methoxychlor	ND	0.0030	0.010	ug/l							
PCBs, Total	ND		0.50	ug/l							
Propachlor	ND	0.020	0.050	ug/l							
Toxaphene	ND	0.37	0.50	ug/l							
Trifluralin	ND	0.0020	0.010	ug/l							
Surrogate(s)											
4,4-Dibromobiphenyl	*0.0841*			*ug/l*	*0.100*		*84*	*70-130*			
LCS (W2H1511-BS1)					**Prepared: 08/18/22 Analyzed: 08/24/22**						
4,4´-DDD	0.0884	0.0030	0.010	ug/l	0.100		88	70-130			
4,4´-DDE	0.0745	0.0018	0.010	ug/l	0.100		74	70-130			
4,4´-DDT	0.0932	0.0030	0.010	ug/l	0.100		93	70-130			
Aldrin	0.0340	0.0040	0.010	ug/l	0.100		34	50-130			Q-02

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1511 - EPA 508.1 (Continued)											
LCS (W2H1511-BS1)					**Prepared: 08/18/22 Analyzed: 08/24/22**						
alpha-BHC	0.0800	0.0019	0.010	ug/l	0.100		80	70-130			
beta-BHC	0.0773	0.0024	0.010	ug/l	0.100		77	70-130			
delta-BHC	0.0838	0.0030	0.010	ug/l	0.100		84	70-130			
Dieldrin	0.0745	0.0030	0.010	ug/l	0.100		74	70-130			
Endosulfan I	0.0729	0.0030	0.010	ug/l	0.100		73	70-130			
Endosulfan II	0.0779	0.0016	0.010	ug/l	0.100		78	70-130			
Endosulfan sulfate	0.0962	0.0030	0.010	ug/l	0.100		96	70-130			
Endrin	0.0842	0.0013	0.010	ug/l	0.100		84	70-130			
Endrin aldehyde	0.0789	0.0040	0.010	ug/l	0.100		79	70-130			
gamma-BHC (Lindane)	0.0792	0.0030	0.010	ug/l	0.100		79	70-130			
Heptachlor	0.0852	0.0017	0.010	ug/l	0.100		85	70-130			
Heptachlor epoxide	0.0791	0.0019	0.010	ug/l	0.100		79	70-130			
Methoxychlor	0.0990	0.0030	0.010	ug/l	0.100		99	70-130			
Surrogate(s)											
4,4-Dibromobiphenyl	*0.0758*			*ug/l*	*0.100*		*76*	*70-130*			
LCS (W2H1511-BS2)					**Prepared: 08/18/22 Analyzed: 08/24/22**						
Toxaphene	1.03	0.37	0.50	ug/l	1.00		103	70-130			
Surrogate(s)											
4,4-Dibromobiphenyl	*0.0723*			*ug/l*	*0.100*		*72*	*70-130*			
LCS Dup (W2H1511-BSD1)					**Prepared: 08/18/22 Analyzed: 08/24/22**						
4,4´-DDD	0.108	0.0030	0.010	ug/l	0.100		108	70-130	20	30	
4,4´-DDE	0.0833	0.0018	0.010	ug/l	0.100		83	70-130	11	30	
4,4´-DDT	0.108	0.0030	0.010	ug/l	0.100		108	70-130	15	30	
Aldrin	0.0434	0.0040	0.010	ug/l	0.100		43	50-130	24	30	Q-ME
alpha-BHC	0.101	0.0019	0.010	ug/l	0.100		101	70-130	23	30	
beta-BHC	0.0968	0.0024	0.010	ug/l	0.100		97	70-130	22	30	
delta-BHC	0.105	0.0030	0.010	ug/l	0.100		105	70-130	23	30	
Dieldrin	0.0890	0.0030	0.010	ug/l	0.100		89	70-130	18	30	
Endosulfan I	0.0878	0.0030	0.010	ug/l	0.100		88	70-130	19	30	
Endosulfan II	0.0956	0.0016	0.010	ug/l	0.100		96	70-130	20	30	
Endosulfan sulfate	0.121	0.0030	0.010	ug/l	0.100		121	70-130	23	30	
Endrin	0.102	0.0013	0.010	ug/l	0.100		102	70-130	20	30	
Endrin aldehyde	0.0928	0.0040	0.010	ug/l	0.100		93	70-130	16	30	
gamma-BHC (Lindane)	0.0991	0.0030	0.010	ug/l	0.100		99	70-130	22	30	
Heptachlor	0.0983	0.0017	0.010	ug/l	0.100		98	70-130	14	30	
Heptachlor epoxide	0.0961	0.0019	0.010	ug/l	0.100		96	70-130	19	30	
Methoxychlor	0.123	0.0030	0.010	ug/l	0.100		123	70-130	22	30	
Surrogate(s)											
4,4-Dibromobiphenyl	*0.0891*			*ug/l*	*0.100*		*89*	*70-130*			

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

Diquat and Paraquat by EPA 549.2

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0719 - EPA 549.2											
Blank (W2H0719-BLK1)					**Prepared: 08/09/22**	**Analyzed: 08/25/22**					
Diquat	ND	0.90	4.0	ug/l							
Paraquat	ND	1.2	4.0	ug/l							
LCS (W2H0719-BS1)					**Prepared: 08/09/22**	**Analyzed: 08/25/22**					
Diquat	26.6	0.90	4.0	ug/l	20.0		133	70-130			Q-08
Paraquat	27.6	1.2	4.0	ug/l	20.0		138	70-130			Q-08
Matrix Spike (W2H0719-MS1)	**Source: 1G28007-01**				**Prepared: 08/09/22**	**Analyzed: 08/25/22**					
Diquat	24.7	0.90	4.0	ug/l	20.0	ND	123	46-122			Q-08
Paraquat	23.4	1.2	4.0	ug/l	20.0	ND	117	38-129			
Matrix Spike (W2H0719-MS2)	**Source: 2H04102-01**				**Prepared: 08/09/22**	**Analyzed: 08/25/22**					
Diquat	29.7	0.90	4.0	ug/l	20.0	ND	148	46-122			Q-08
Paraquat	29.0	1.2	4.0	ug/l	20.0	ND	145	38-129			Q-08
Matrix Spike Dup (W2H0719-MSD1)	**Source: 1G28007-01**				**Prepared: 08/09/22**	**Analyzed: 08/25/22**					
Diquat	21.4	0.90	4.0	ug/l	20.0	ND	107	46-122	14	30	
Paraquat	22.0	1.2	4.0	ug/l	20.0	ND	110	38-129	6	30	
Matrix Spike Dup (W2H0719-MSD2)	**Source: 2H04102-01**				**Prepared: 08/09/22**	**Analyzed: 08/25/22**					
Diquat	30.9	0.90	4.0	ug/l	20.0	ND	154	46-122	4	30	Q-08
Paraquat	27.5	1.2	4.0	ug/l	20.0	ND	138	38-129	5	30	Q-08

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

Endothall By EPA 548.1

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0594 - EPA 548.1											
Blank (W2H0594-BLK1)					**Prepared: 08/09/22 Analyzed: 08/11/22**						
Endothall	ND	11	40	ug/l							
Blank (W2H0594-BLK2)					**Prepared: 08/09/22 Analyzed: 08/13/22**						
Endothall	ND	11	40	ug/l							QC-2
LCS (W2H0594-BS1)					**Prepared: 08/09/22 Analyzed: 08/11/22**						
Endothall	99.1	11	40	ug/l	100		99	31-117			
LCS (W2H0594-BS2)					**Prepared: 08/09/22 Analyzed: 08/13/22**						
Endothall	97.1	11	40	ug/l	100		97	31-117			QC-2
Matrix Spike (W2H0594-MS1)	**Source: 2H05046-01**				**Prepared: 08/09/22 Analyzed: 08/11/22**						
Endothall	7.75	0.0	80	ug/l	200	ND	4	0.1-109			J
Matrix Spike (W2H0594-MS2)	**Source: 1G28007-01**				**Prepared: 08/09/22 Analyzed: 08/11/22**						
Endothall	22.6	22	80	ug/l	200	ND	11	0.1-109			J
Matrix Spike Dup (W2H0594-MSD1)	**Source: 2H05046-01**				**Prepared: 08/09/22 Analyzed: 08/11/22**						
Endothall	9.41	0.0	80	ug/l	200	ND	5	0.1-109	200	30	R-03, J
Matrix Spike Dup (W2H0594-MSD2)	**Source: 1G28007-01**				**Prepared: 08/09/22 Analyzed: 08/11/22**						
Endothall	22.7	22	80	ug/l	200	ND	11	0.1-109	0.7	30	J

Quality Control Results

(Continued)

Glyphosate by EPA 547

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1129 - EPA 547											
Blank (W2H1129-BLK1)					**Prepared & Analyzed: 08/12/22**						
Glyphosate	ND	1.8	5.0	ug/l							
LCS (W2H1129-BS1)					**Prepared & Analyzed: 08/12/22**						
Glyphosate	24.2	1.8	5.0	ug/l	25.0		97	70-130			
Matrix Spike (W2H1129-MS1)	**Source: 2G22002-07**				**Prepared & Analyzed: 08/12/22**						
Glyphosate	16.4	1.8	5.0	ug/l	25.0	ND	66	41-149			
Matrix Spike (W2H1129-MS2)	**Source: 2H11110-01**				**Prepared & Analyzed: 08/12/22**						
Glyphosate	17.7	1.8	5.0	ug/l	25.0	ND	71	41-149			
Matrix Spike Dup (W2H1129-MSD1)	**Source: 2G22002-07**				**Prepared & Analyzed: 08/12/22**						
Glyphosate	20.6	1.8	5.0	ug/l	25.0	ND	82	41-149	23	30	
Matrix Spike Dup (W2H1129-MSD2)	**Source: 2H11110-01**				**Prepared & Analyzed: 08/12/22**						
Glyphosate	22.7	1.8	5.0	ug/l	25.0	ND	91	41-149	25	30	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

Haloacetic Acids (HAAs) by GC/ECD

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1161 - EPA 552.3											
Blank (W2H1161-BLK1)					**Prepared & Analyzed: 08/15/22**						
Dibromoacetic acid (dbaa)	ND	0.28	1.0	ug/l							
Dichloroacetic acid (dcaa)	ND	0.29	1.0	ug/l							
Monobromoacetic acid (mbaa)	ND	0.34	1.0	ug/l							
Monochloroacetic acid (mcaa)	0.451	0.31	2.0	ug/l							J
Trichloroacetic acid (tcaa)	ND	0.29	1.0	ug/l							
Surrogate(s)											
2-Bromobutyric acid	*10.2*			*ug/l*	*10.0*		*102*	*70-130*			
LCS (W2H1161-BS1)					**Prepared & Analyzed: 08/15/22**						
Dibromoacetic acid (dbaa)	9.86	0.28	1.0	ug/l	10.0		99	70-130			
Dichloroacetic acid (dcaa)	9.84	0.29	1.0	ug/l	10.0		98	70-130			
Monobromoacetic acid (mbaa)	9.95	0.34	1.0	ug/l	10.0		99	70-130			
Monochloroacetic acid (mcaa)	9.84	0.31	2.0	ug/l	10.0		98	70-130			
Trichloroacetic acid (tcaa)	9.54	0.29	1.0	ug/l	10.0		95	70-130			
Surrogate(s)											
2-Bromobutyric acid	*10.2*			*ug/l*	*10.0*		*102*	*70-130*			
Matrix Spike (W2H1161-MS1)	**Source: 2F17011-01**				**Prepared & Analyzed: 08/15/22**						
Dibromoacetic acid (dbaa)	12.0	0.28	1.0	ug/l	10.0	2.26	97	70-130			
Dichloroacetic acid (dcaa)	10.6	0.29	1.0	ug/l	10.0	1.26	93	70-130			
Monobromoacetic acid (mbaa)	9.88	0.34	1.0	ug/l	10.0	0.517	94	70-130			
Monochloroacetic acid (mcaa)	9.50	0.31	2.0	ug/l	10.0	0.677	88	70-130			
Trichloroacetic acid (tcaa)	10.1	0.29	1.0	ug/l	10.0	0.889	92	70-130			
Surrogate(s)											
2-Bromobutyric acid	*10.9*			*ug/l*	*10.0*		*109*	*70-130*			
Matrix Spike Dup (W2H1161-MSD1)	**Source: 2F17011-01**				**Prepared & Analyzed: 08/15/22**						
Dibromoacetic acid (dbaa)	11.7	0.28	1.0	ug/l	10.0	2.26	95	70-130	2	30	
Dichloroacetic acid (dcaa)	10.5	0.29	1.0	ug/l	10.0	1.26	92	70-130	1	30	
Monobromoacetic acid (mbaa)	9.74	0.34	1.0	ug/l	10.0	0.517	92	70-130	1	30	
Monochloroacetic acid (mcaa)	9.86	0.31	2.0	ug/l	10.0	0.677	92	70-130	4	30	
Trichloroacetic acid (tcaa)	9.79	0.29	1.0	ug/l	10.0	0.889	89	70-130	3	30	
Surrogate(s)											
2-Bromobutyric acid	*10.9*			*ug/l*	*10.0*		*109*	*70-130*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

Hexavalent Chromium by IC

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1192 - EPA 218.6											
Blank (W2H1192-BLK1)					**Prepared & Analyzed: 08/15/22**						
Chromium 6+	ND	0.0079	0.020	ug/l							
LCS (W2H1192-BS1)					**Prepared & Analyzed: 08/15/22**						
Chromium 6+	5.24	0.0079	0.020	ug/l	5.00		105	90-110			
Matrix Spike (W2H1192-MS1)	**Source: 2H11074-05**				**Prepared & Analyzed: 08/15/22**						
Chromium 6+	5.22	0.0079	0.020	ug/l	5.00	0.140	102	88-112			
Matrix Spike (W2H1192-MS2)	**Source: 2H11074-07**				**Prepared & Analyzed: 08/15/22**						
Chromium 6+	5.19	0.0079	0.020	ug/l	5.00	0.162	101	88-112			
Matrix Spike Dup (W2H1192-MSD1)	**Source: 2H11074-05**				**Prepared & Analyzed: 08/15/22**						
Chromium 6+	5.34	0.0079	0.020	ug/l	5.00	0.140	104	88-112	2	10	
Matrix Spike Dup (W2H1192-MSD2)	**Source: 2H11074-07**				**Prepared & Analyzed: 08/15/22**						
Chromium 6+	5.24	0.0079	0.020	ug/l	5.00	0.162	102	88-112	0.9	10	

Quality Control Results

(Continued)

Nitrosamines by isotopic dilution GC/MS CI Mode

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0652 - EPA 1625B											
Blank (W2H0652-BLK1)					**Prepared: 08/08/22 Analyzed: 08/11/22**						
N-Nitrosodimethylamine	ND	0.66	2.0	ng/l							
LCS (W2H0652-BS1)					**Prepared: 08/08/22 Analyzed: 08/11/22**						
N-Nitrosodimethylamine	1.95	0.66	2.0	ng/l	2.00		97	50-150			J
LCS Dup (W2H0652-BSD1)					**Prepared: 08/08/22 Analyzed: 08/11/22**						
N-Nitrosodimethylamine	1.86	0.66	2.0	ng/l	2.00		93	50-150	4	50	J

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0887 - EPA 1694M											
Blank (W2H0887-BLK1)					**Prepared: 08/10/22 Analyzed: 08/12/22**						
Acetaminophen	ND	5.0	5.0	ng/l							
Amoxicillin	ND	20	20	ng/l							
Atenolol	ND	4.0	4.0	ng/l							
Atorvastatin	ND	4.0	4.0	ng/l							
Azithromycin	ND	20	20	ng/l							
Caffeine	ND	4.0	4.0	ng/l							
Carbamazepine	ND	4.0	4.0	ng/l							
Codeine	ND	80	80	ng/l							
Cotinine	ND	8.0	8.0	ng/l							
DEET	ND	4.0	4.0	ng/l							
Diazepam	ND	4.0	4.0	ng/l							
Erythromycin	ND	5.0	5.0	ng/l							
Fluoxetine	ND	4.0	4.0	ng/l							
Hydrocodone	ND	80	80	ng/l							
Meprobamate	ND	4.0	4.0	ng/l							
Methadone	ND	4.0	4.0	ng/l							
Morphine	ND	8.0	8.0	ng/l							
Oxybenzone	ND	4.0	4.0	ng/l							
Praziquantel	ND	4.0	4.0	ng/l							
Propranolol	ND	4.0	4.0	ng/l							
Sulfamethoxazole	ND	4.0	4.0	ng/l							
TCEP	ND	10	10	ng/l							
TCPP	ND	50	50	ng/l							
Trimethoprim	ND	4.0	4.0	ng/l							
Surrogate(s)											
Acetaminophen-d4	*3180*			*ng/l*	*3000*		*106*	*20-500*			
Amoxicillin-d4	*47400*			*ng/l*	*62500*		*76*	*20-500*			
Atenolol-d7	*377*			*ng/l*	*400*		*94*	*20-500*			
Azithromycin-d3	*1840*			*ng/l*	*2000*		*92*	*20-500*			
Caffeine-13C3	*190*			*ng/l*	*200*		*95*	*20-500*			
Carbamazepine- 13C2, d2	*38.6*			*ng/l*	*40.0*		*97*	*20-500*			
Codeine-d3	*284*			*ng/l*	*300*		*95*	*20-500*			
Cotinine-d3	*193*			*ng/l*	*200*		*96*	*20-500*			
DEET-d7	*20.7*			*ng/l*	*20.0*		*104*	*20-500*			
Diazepam-d5	*2040*			*ng/l*	*2000*		*102*	*20-500*			
Erythromycin-13C-d3	*202*			*ng/l*	*200*		*101*	*20-500*			
Fluoxetine-d5	*193*			*ng/l*	*200*		*96*	*20-500*			
Hydrocodone-d3	*312*			*ng/l*	*300*		*104*	*20-500*			
Methadone-d3	*39.2*			*ng/l*	*40.0*		*98*	*20-500*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0887 - EPA 1694M (Continued)											
Blank (W2H0887-BLK1)					**Prepared: 08/10/22 Analyzed: 08/12/22**						
Surrogate(s)											
Morphine-d6	*2960*			*ng/l*	*3000*		*99*	*20-500*			
Propranolol-D7	*193*			*ng/l*	*200*		*97*	*20-500*			
Sulfamethoxazole-d4	*189*			*ng/l*	*200*		*94*	*20-500*			
Trimethoprim-d9	*192*			*ng/l*	*200*		*96*	*20-500*			
Blank (W2H0887-BLK2)					**Prepared: 08/10/22 Analyzed: 08/15/22**						
Ciprofloxacin	ND	20	20	ng/l							QC-2
Quinoline	ND	4.0	4.0	ng/l							QC-2
Surrogate(s)											
Atenolol-d7	*405*			*ng/l*	*400*		*101*	*20-500*			*QC-2*
Ciprofloxacin-d8	*1530*			*ng/l*	*1000*		*153*	*20-500*			*QC-2*
LCS (W2H0887-BS1)					**Prepared: 08/10/22 Analyzed: 08/12/22**						
Acetaminophen	48.0	5.0	5.0	ng/l	50.0		96	50-150			
Amoxicillin	211	20	20	ng/l	200		105	50-150			
Atenolol	41.7	4.0	4.0	ng/l	40.0		104	50-150			
Atorvastatin	38.7	4.0	4.0	ng/l	40.0		97	50-150			
Azithromycin	155	20	20	ng/l	200		78	50-150			
Caffeine	42.3	4.0	4.0	ng/l	40.0		106	50-150			
Carbamazepine	41.4	4.0	4.0	ng/l	40.0		104	50-150			
Codeine	727	80	80	ng/l	800		91	50-150			
Cotinine	76.7	8.0	8.0	ng/l	80.0		96	50-150			
DEET	41.8	4.0	4.0	ng/l	40.0		105	50-150			
Diazepam	37.8	4.0	4.0	ng/l	40.0		95	50-150			
Erythromycin	37.6	5.0	5.0	ng/l	50.0		75	50-150			
Fluoxetine	37.2	4.0	4.0	ng/l	40.0		93	50-150			
Hydrocodone	815	80	80	ng/l	800		102	50-150			
Meprobamate	40.5	4.0	4.0	ng/l	40.0		101	50-150			
Methadone	36.6	4.0	4.0	ng/l	40.0		92	50-150			
Morphine	76.8	8.0	8.0	ng/l	80.0		96	50-150			
Oxybenzone	36.4	4.0	4.0	ng/l	40.0		91	50-150			
Praziquantel	41.3	4.0	4.0	ng/l	40.0		103	50-150			
Propranolol	36.4	4.0	4.0	ng/l	40.0		91	50-150			
Sulfamethoxazole	39.8	4.0	4.0	ng/l	40.0		100	50-150			
TCEP	96.4	10	10	ng/l	100		96	50-150			
TCPP	490	50	50	ng/l	500		98	50-150			
Trimethoprim	38.1	4.0	4.0	ng/l	40.0		95	50-150			
Surrogate(s)											
Acetaminophen-d4	*3060*			*ng/l*	*3000*		*102*	*20-500*			
Amoxicillin-d4	*51300*			*ng/l*	*62500*		*82*	*20-500*			
Atenolol-d7	*392*			*ng/l*	*400*		*98*	*20-500*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0887 - EPA 1694M (Continued)											
LCS (W2H0887-BS1)					**Prepared: 08/10/22 Analyzed: 08/12/22**						
Surrogate(s)											
Azithromycin-d3	*492*			*ng/l*	*2000*		*25*	*20-500*			
Caffeine-13C3	*204*			*ng/l*	*200*		*102*	*20-500*			
Carbamazepine- 13C2, d2	*37.9*			*ng/l*	*40.0*		*95*	*20-500*			
Codeine-d3	*328*			*ng/l*	*300*		*109*	*20-500*			
Cotinine-d3	*201*			*ng/l*	*200*		*101*	*20-500*			
DEET-d7	*18.8*			*ng/l*	*20.0*		*94*	*20-500*			
Diazepam-d5	*2310*			*ng/l*	*2000*		*116*	*20-500*			
Erythromycin-13C-d3	*259*			*ng/l*	*200*		*130*	*20-500*			
Fluoxetine-d5	*171*			*ng/l*	*200*		*86*	*20-500*			
Hydrocodone-d3	*285*			*ng/l*	*300*		*95*	*20-500*			
Methadone-d3	*34.5*			*ng/l*	*40.0*		*86*	*20-500*			
Morphine-d6	*3060*			*ng/l*	*3000*		*102*	*20-500*			
Propranolol-D7	*212*			*ng/l*	*200*		*106*	*20-500*			
Sulfamethoxazole-d4	*194*			*ng/l*	*200*		*97*	*20-500*			
Trimethoprim-d9	*210*			*ng/l*	*200*		*105*	*20-500*			
LCS (W2H0887-BS2)					**Prepared: 08/10/22 Analyzed: 08/15/22**						
Ciprofloxacin	166	20	20	ng/l	200		83	50-150			QC-2
Quinoline	44.8	4.0	4.0	ng/l	40.0		112	50-150			QC-2
Surrogate(s)											
Atenolol-d7	*397*			*ng/l*	*400*		*99*	*20-500*			QC-2
Ciprofloxacin-d8	*915*			*ng/l*	*1000*		*92*	*20-500*			QC-2
Matrix Spike (W2H0887-MS1)	**Source: 1G28007-01**				**Prepared: 08/10/22 Analyzed: 08/12/22**						
Acetaminophen	46.2	5.0	5.0	ng/l	50.0	ND	92	50-150			
Amoxicillin	199	20	20	ng/l	200	ND	100	50-150			
Atenolol	36.6	4.0	4.0	ng/l	40.0	ND	91	50-150			
Atorvastatin	47.1	4.0	4.0	ng/l	40.0	ND	118	50-150			
Azithromycin	208	20	20	ng/l	200	ND	104	50-150			
Caffeine	36.8	4.0	4.0	ng/l	40.0	ND	92	50-150			
Carbamazepine	40.7	4.0	4.0	ng/l	40.0	ND	102	50-150			
Codeine	815	80	80	ng/l	800	ND	102	50-150			
Cotinine	77.8	8.0	8.0	ng/l	80.0	ND	97	50-150			
DEET	34.8	4.0	4.0	ng/l	40.0	ND	87	50-150			
Diazepam	45.5	4.0	4.0	ng/l	40.0	ND	114	50-150			
Erythromycin	73.4	5.0	5.0	ng/l	50.0	ND	147	50-150			
Fluoxetine	39.5	4.0	4.0	ng/l	40.0	ND	99	50-150			
Hydrocodone	792	80	80	ng/l	800	ND	99	50-150			
Meprobamate	35.0	4.0	4.0	ng/l	40.0	ND	88	50-150			
Methadone	38.9	4.0	4.0	ng/l	40.0	ND	97	50-150			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0887 - EPA 1694M (Continued)											
Matrix Spike (W2H0887-MS1)	**Source: 1G28007-01**				**Prepared: 08/10/22**	**Analyzed: 08/12/22**					
Morphine	76.8	8.0	8.0	ng/l	80.0	ND	96	50-150			
Oxybenzone	36.1	4.0	4.0	ng/l	40.0	ND	90	50-150			
Praziquantel	43.5	4.0	4.0	ng/l	40.0	ND	109	50-150			
Propranolol	36.9	4.0	4.0	ng/l	40.0	ND	92	50-150			
Sulfamethoxazole	41.2	4.0	4.0	ng/l	40.0	ND	103	50-150			
TCEP	96.5	10	10	ng/l	100	ND	96	50-150			
TCPP	596	50	50	ng/l	500	ND	119	50-150			
Trimethoprim	36.3	4.0	4.0	ng/l	40.0	ND	91	50-150			
Surrogate(s)											
Acetaminophen-d4	*2950*			*ng/l*	*3000*		*98*	*20-500*			
Amoxicillin-d4	*54600*			*ng/l*	*62500*		*87*	*20-500*			
Atenolol-d7	*407*			*ng/l*	*400*		*102*	*20-500*			
Azithromycin-d3	*2300*			*ng/l*	*2000*		*115*	*20-500*			
Caffeine-13C3	*205*			*ng/l*	*200*		*102*	*20-500*			
Carbamazepine- 13C2, d2	*34.3*			*ng/l*	*40.0*		*86*	*20-500*			
Codeine-d3	*296*			*ng/l*	*300*		*99*	*20-500*			
Cotinine-d3	*204*			*ng/l*	*200*		*102*	*20-500*			
DEET-d7	*21.1*			*ng/l*	*20.0*		*106*	*20-500*			
Diazepam-d5	*1990*			*ng/l*	*2000*		*99*	*20-500*			
Erythromycin-13C-d3	*138*			*ng/l*	*200*		*69*	*20-500*			
Fluoxetine-d5	*208*			*ng/l*	*200*		*104*	*20-500*			
Hydrocodone-d3	*276*			*ng/l*	*300*		*92*	*20-500*			
Methadone-d3	*40.2*			*ng/l*	*40.0*		*101*	*20-500*			
Morphine-d6	*2820*			*ng/l*	*3000*		*94*	*20-500*			
Propranolol-D7	*189*			*ng/l*	*200*		*95*	*20-500*			
Sulfamethoxazole-d4	*189*			*ng/l*	*200*		*95*	*20-500*			
Trimethoprim-d9	*217*			*ng/l*	*200*		*109*	*20-500*			
Matrix Spike (W2H0887-MS2)	**Source: 1G28007-01RE1**				**Prepared: 08/10/22**	**Analyzed: 08/15/22**					
Ciprofloxacin	193	20	20	ng/l	200	ND	96	50-150			QC-2
Quinoline	39.1	4.0	4.0	ng/l	40.0	ND	98	50-150			QC-2
Surrogate(s)											
Atenolol-d7	*423*			*ng/l*	*400*		*106*	*20-500*			*QC-2*
Ciprofloxacin-d8	*2580*			*ng/l*	*1000*		*258*	*20-500*			*QC-2*
Matrix Spike Dup (W2H0887-MSD1)	**Source: 1G28007-01**				**Prepared: 08/10/22**	**Analyzed: 08/12/22**					
Acetaminophen	42.9	5.0	5.0	ng/l	50.0	ND	86	50-150	7	30	
Amoxicillin	206	20	20	ng/l	200	ND	103	50-150	3	30	
Atenolol	40.0	4.0	4.0	ng/l	40.0	ND	100	50-150	9	30	
Atorvastatin	45.4	4.0	4.0	ng/l	40.0	ND	113	50-150	4	30	
Azithromycin	196	20	20	ng/l	200	ND	98	50-150	6	30	

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0887 - EPA 1694M (Continued)											
Matrix Spike Dup (W2H0887-MSD1)	**Source: 1G28007-01**				**Prepared: 08/10/22**	**Analyzed: 08/12/22**					
Caffeine	40.0	4.0	4.0	ng/l	40.0	ND	100	50-150	8	30	
Carbamazepine	36.2	4.0	4.0	ng/l	40.0	ND	90	50-150	12	30	
Codeine	764	80	80	ng/l	800	ND	95	50-150	6	30	
Cotinine	77.1	8.0	8.0	ng/l	80.0	ND	96	50-150	0.8	30	
DEET	33.2	4.0	4.0	ng/l	40.0	ND	83	50-150	5	30	
Diazepam	40.9	4.0	4.0	ng/l	40.0	ND	102	50-150	11	30	
Erythromycin	71.1	5.0	5.0	ng/l	50.0	ND	142	50-150	3	30	
Fluoxetine	40.8	4.0	4.0	ng/l	40.0	ND	102	50-150	3	30	
Hydrocodone	763	80	80	ng/l	800	ND	95	50-150	4	30	
Meprobamate	36.7	4.0	4.0	ng/l	40.0	ND	92	50-150	5	30	
Methadone	36.7	4.0	4.0	ng/l	40.0	ND	92	50-150	6	30	
Morphine	77.4	8.0	8.0	ng/l	80.0	ND	97	50-150	0.9	30	
Oxybenzone	38.9	4.0	4.0	ng/l	40.0	ND	97	50-150	7	30	
Praziquantel	42.9	4.0	4.0	ng/l	40.0	ND	107	50-150	1	30	
Propranolol	40.8	4.0	4.0	ng/l	40.0	ND	102	50-150	10	30	
Sulfamethoxazole	40.5	4.0	4.0	ng/l	40.0	ND	101	50-150	2	30	
TCEP	110	10	10	ng/l	100	ND	110	50-150	13	30	
TCPP	554	50	50	ng/l	500	ND	111	50-150	7	30	
Trimethoprim	36.9	4.0	4.0	ng/l	40.0	ND	92	50-150	2	30	
Surrogate(s)											
Acetaminophen-d4	*2990*			*ng/l*	*3000*		*100*	*20-500*			
Amoxicillin-d4	*52700*			*ng/l*	*62500*		*84*	*20-500*			
Atenolol-d7	*402*			*ng/l*	*400*		*100*	*20-500*			
Azithromycin-d3	*2360*			*ng/l*	*2000*		*118*	*20-500*			
Caffeine-13C3	*207*			*ng/l*	*200*		*104*	*20-500*			
Carbamazepine- 13C2, d2	*41.8*			*ng/l*	*40.0*		*104*	*20-500*			
Codeine-d3	*292*			*ng/l*	*300*		*97*	*20-500*			
Cotinine-d3	*200*			*ng/l*	*200*		*100*	*20-500*			
DEET-d7	*21.0*			*ng/l*	*20.0*		*105*	*20-500*			
Diazepam-d5	*1870*			*ng/l*	*2000*		*93*	*20-500*			
Erythromycin-13C-d3	*147*			*ng/l*	*200*		*73*	*20-500*			
Fluoxetine-d5	*212*			*ng/l*	*200*		*106*	*20-500*			
Hydrocodone-d3	*289*			*ng/l*	*300*		*96*	*20-500*			
Methadone-d3	*42.7*			*ng/l*	*40.0*		*107*	*20-500*			
Morphine-d6	*2710*			*ng/l*	*3000*		*90*	*20-500*			
Propranolol-D7	*190*			*ng/l*	*200*		*95*	*20-500*			
Sulfamethoxazole-d4	*187*			*ng/l*	*200*		*93*	*20-500*			
Trimethoprim-d9	*207*			*ng/l*	*200*		*104*	*20-500*			
Matrix Spike Dup (W2H0887-MSD2)	**Source: 1G28007-01RE1**				**Prepared: 08/10/22**	**Analyzed: 08/15/22**					

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0887 - EPA 1694M (Continued)											
Matrix Spike Dup (W2H0887-MSD2)	**Source: 1G28007-01RE1**				**Prepared: 08/10/22**	**Analyzed: 08/15/22**					
Ciprofloxacin	195	20	20	ng/l	200	ND	98	50-150	1	30	QC-2
Quinoline	38.7	4.0	4.0	ng/l	40.0	ND	97	50-150	1	30	QC-2
Surrogate(s)											
Atenolol-d7	*419*			*ng/l*	*400*		*105*	*20-500*			*QC-2*
Ciprofloxacin-d8	*2700*			*ng/l*	*1000*		*270*	*20-500*			*QC-2*
Batch: W2H0888 - EPA 1694M											
Blank (W2H0888-BLK1)					**Prepared: 08/10/22**	**Analyzed: 08/16/22**					
17-a-Ethynylestradiol	ND	4.0	4.0	ng/l							
Diclofenac	ND	4.0	4.0	ng/l							
Diethylstilbestrol	ND	4.0	4.0	ng/l							
Epitestosterone	ND	4.0	4.0	ng/l							
Estriol	ND	4.0	4.0	ng/l							
Estrone	ND	4.0	4.0	ng/l							
Galaxolide (HHCB)	ND	40	40	ng/l							
Gemfibrozil	ND	4.0	4.0	ng/l							
Iopromide	ND	4.0	4.0	ng/l							
Naproxen	ND	4.0	4.0	ng/l							
Phenytoin (Dilantin)	ND	4.0	4.0	ng/l							
Primidone	ND	4.0	4.0	ng/l							
Progesterone	ND	4.0	4.0	ng/l							
Salicylic Acid	ND	100	100	ng/l							
TDCPP	ND	50	50	ng/l							
Testosterone	ND	4.0	4.0	ng/l							
Triclosan	ND	8.0	8.0	ng/l							
Surrogate(s)											
17-a-Ethynylestradiol-d4	*148*			*ng/l*	*200*		*74*	*20-500*			
Bisphenol A-d16	*157*			*ng/l*	*200*		*78*	*20-500*			
Estriol-d2	*193*			*ng/l*	*200*		*97*	*20-500*			
Gemfibrozil-d6	*75.9*			*ng/l*	*100*		*76*	*20-500*			
Naproxen-d3	*216*			*ng/l*	*200*		*108*	*20-500*			
Phenytoin-d10	*206*			*ng/l*	*200*		*103*	*20-500*			
Primidone-d5	*292*			*ng/l*	*200*		*146*	*20-500*			
Progesterone-d9	*175*			*ng/l*	*200*		*88*	*20-500*			
Salicylic Acid-d4	*516*			*ng/l*	*500*		*103*	*20-500*			
Testosterone-d3	*219*			*ng/l*	*200*		*109*	*20-500*			
Triclosan-d3	*244*			*ng/l*	*400*		*61*	*20-500*			
Blank (W2H0888-BLK2)					**Prepared: 08/10/22**	**Analyzed: 08/17/22**					
Bisphenol A	ND	4.0	4.0	ng/l							QC-2
Diclofenac	ND	4.0	4.0	ng/l							QC-2

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0888 - EPA 1694M (Continued)											
Blank (W2H0888-BLK2)					**Prepared: 08/10/22 Analyzed: 08/17/22**						
Galaxolide (HHCB)	ND	40	40	ng/l							QC-2
Gemfibrozil	ND	4.0	4.0	ng/l							QC-2
Primidone	ND	4.0	4.0	ng/l							QC-2
Surrogate(s)											
17-a-Ethynylestradiol-d4	*151*			*ng/l*	*200*		*75*	*20-500*			*QC-2*
Bisphenol A-d16	*146*			*ng/l*	*200*		*73*	*20-500*			*QC-2*
Gemfibrozil-d6	*86.9*			*ng/l*	*100*		*87*	*20-500*			*QC-2*
Primidone-d5	*200*			*ng/l*	*200*		*100*	*20-500*			*QC-2*
LCS (W2H0888-BS1)					**Prepared: 08/10/22 Analyzed: 08/16/22**						
17-a-Ethynylestradiol	32.5	4.0	4.0	ng/l	40.0		81	50-150			
Diclofenac	33.1	4.0	4.0	ng/l	40.0		83	50-150			
Diethylstilbestrol	31.4	4.0	4.0	ng/l	40.0		78	50-150			
Epitestosterone	32.7	4.0	4.0	ng/l	40.0		82	50-150			
Estriol	36.5	4.0	4.0	ng/l	40.0		91	50-150			
Estrone	34.1	4.0	4.0	ng/l	40.0		85	50-150			
Galaxolide (HHCB)	450	40	40	ng/l	400		112	50-150			
Gemfibrozil	40.4	4.0	4.0	ng/l	40.0		101	50-150			
Iopromide	42.3	4.0	4.0	ng/l	40.0		106	50-150			
Naproxen	39.6	4.0	4.0	ng/l	40.0		99	50-150			
Phenytoin (Dilantin)	39.5	4.0	4.0	ng/l	40.0		99	50-150			
Primidone	39.6	4.0	4.0	ng/l	40.0		99	50-150			
Progesterone	39.5	4.0	4.0	ng/l	40.0		99	50-150			
Salicylic Acid	971	100	100	ng/l	1000		97	50-150			
TDCPP	604	50	50	ng/l	500		121	50-150			
Testosterone	40.3	4.0	4.0	ng/l	40.0		101	50-150			
Triclosan	75.6	8.0	8.0	ng/l	80.0		95	50-150			
Surrogate(s)											
17-a-Ethynylestradiol-d4	*180*			*ng/l*	*200*		*90*	*20-500*			
Bisphenol A-d16	*168*			*ng/l*	*200*		*84*	*20-500*			
Estriol-d2	*201*			*ng/l*	*200*		*100*	*20-500*			
Gemfibrozil-d6	*71.7*			*ng/l*	*100*		*72*	*20-500*			
Naproxen-d3	*209*			*ng/l*	*200*		*105*	*20-500*			
Phenytoin-d10	*200*			*ng/l*	*200*		*100*	*20-500*			
Primidone-d5	*287*			*ng/l*	*200*		*144*	*20-500*			
Progesterone-d9	*182*			*ng/l*	*200*		*91*	*20-500*			
Salicylic Acid-d4	*505*			*ng/l*	*500*		*101*	*20-500*			
Testosterone-d3	*210*			*ng/l*	*200*		*105*	*20-500*			
Triclosan-d3	*347*			*ng/l*	*400*		*87*	*20-500*			
LCS (W2H0888-BS2)					**Prepared: 08/10/22 Analyzed: 08/17/22**						

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0888 - EPA 1694M (Continued)											
LCS (W2H0888-BS2)					**Prepared: 08/10/22 Analyzed: 08/17/22**						
Bisphenol A	32.6	4.0	4.0	ng/l	40.0		81	50-150			QC-2
Diclofenac	39.6	4.0	4.0	ng/l	40.0		99	50-150			QC-2
Galaxolide (HHCB)	373	40	40	ng/l	400		93	50-150			QC-2
Gemfibrozil	36.5	4.0	4.0	ng/l	40.0		91	50-150			QC-2
Primidone	39.2	4.0	4.0	ng/l	40.0		98	50-150			QC-2
Surrogate(s)											
17-a-Ethynylestradiol-d4	*161*			*ng/l*	*200*		*80*	*20-500*			*QC-2*
Bisphenol A-d16	*176*			*ng/l*	*200*		*88*	*20-500*			*QC-2*
Gemfibrozil-d6	*88.3*			*ng/l*	*100*		*88*	*20-500*			*QC-2*
Primidone-d5	*203*			*ng/l*	*200*		*102*	*20-500*			*QC-2*
Matrix Spike (W2H0888-MS1)	**Source: 1G28007-01**				**Prepared: 08/10/22 Analyzed: 08/16/22**						
17-a-Ethynylestradiol	35.3	4.0	4.0	ng/l	40.0	ND	88	50-150			
Diclofenac	35.1	4.0	4.0	ng/l	40.0	ND	88	50-150			
Diethylstilbestrol	34.0	4.0	4.0	ng/l	40.0	ND	85	50-150			
Epitestosterone	34.3	4.0	4.0	ng/l	40.0	ND	86	50-150			
Estriol	36.7	4.0	4.0	ng/l	40.0	ND	92	50-150			
Estrone	36.0	4.0	4.0	ng/l	40.0	ND	90	50-150			
Galaxolide (HHCB)	321	40	40	ng/l	400	ND	80	50-150			
Gemfibrozil	39.6	4.0	4.0	ng/l	40.0	ND	99	50-150			
Iopromide	42.1	4.0	4.0	ng/l	40.0	ND	105	50-150			
Naproxen	37.6	4.0	4.0	ng/l	40.0	ND	94	50-150			
Phenytoin (Dilantin)	39.9	4.0	4.0	ng/l	40.0	ND	100	50-150			
Primidone	58.0	4.0	4.0	ng/l	40.0	ND	145	50-150			
Progesterone	36.8	4.0	4.0	ng/l	40.0	ND	92	50-150			
Salicylic Acid	1090	100	100	ng/l	1000	ND	109	50-150			
TDCPP	569	50	50	ng/l	500	ND	114	50-150			
Testosterone	41.3	4.0	4.0	ng/l	40.0	ND	103	50-150			
Triclosan	83.8	8.0	8.0	ng/l	80.0	ND	105	50-150			
Surrogate(s)											
17-a-Ethynylestradiol-d4	*168*			*ng/l*	*200*		*84*	*20-500*			
Bisphenol A-d16	*164*			*ng/l*	*200*		*82*	*20-500*			
Estriol-d2	*190*			*ng/l*	*200*		*95*	*20-500*			
Gemfibrozil-d6	*78.0*			*ng/l*	*100*		*78*	*20-500*			
Naproxen-d3	*216*			*ng/l*	*200*		*108*	*20-500*			
Phenytoin-d10	*209*			*ng/l*	*200*		*105*	*20-500*			
Primidone-d5	*269*			*ng/l*	*200*		*135*	*20-500*			
Progesterone-d9	*204*			*ng/l*	*200*		*102*	*20-500*			
Salicylic Acid-d4	*419*			*ng/l*	*500*		*84*	*20-500*			
Testosterone-d3	*188*			*ng/l*	*200*		*94*	*20-500*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0888 - EPA 1694M (Continued)											
Matrix Spike (W2H0888-MS1)	**Source: 1G28007-01**				**Prepared: 08/10/22**	**Analyzed: 08/16/22**					
Surrogate(s)											
Triclosan-d3	*320*			*ng/l*	*400*		*80*	*20-500*			
Matrix Spike (W2H0888-MS2)	**Source: 1G28007-01**				**Prepared: 08/10/22**	**Analyzed: 08/17/22**					
Bisphenol A	43.2	4.0	4.0	ng/l	40.0	ND	108	50-150			QC-2
Diclofenac	39.8	4.0	4.0	ng/l	40.0	ND	99	50-150			QC-2
Galaxolide (HHCB)	316	40	40	ng/l	400	ND	79	50-150			QC-2
Gemfibrozil	36.9	4.0	4.0	ng/l	40.0	ND	92	50-150			QC-2
Primidone	58.8	4.0	4.0	ng/l	40.0	ND	147	50-150			QC-2
Surrogate(s)											
17-a-Ethynylestradiol-d4	*164*			*ng/l*	*200*		*82*	*20-500*			*QC-2*
Bisphenol A-d16	*157*			*ng/l*	*200*		*79*	*20-500*			*QC-2*
Gemfibrozil-d6	*84.0*			*ng/l*	*100*		*84*	*20-500*			*QC-2*
Primidone-d5	*166*			*ng/l*	*200*		*83*	*20-500*			*QC-2*
Matrix Spike Dup (W2H0888-MSD1)	**Source: 1G28007-01**				**Prepared: 08/10/22**	**Analyzed: 08/16/22**					
17-a-Ethynylestradiol	37.9	4.0	4.0	ng/l	40.0	ND	95	50-150	7	30	
Diclofenac	39.7	4.0	4.0	ng/l	40.0	ND	99	50-150	12	30	
Diethylstilbestrol	38.7	4.0	4.0	ng/l	40.0	ND	97	50-150	13	30	
Epitestosterone	35.2	4.0	4.0	ng/l	40.0	ND	88	50-150	2	30	
Estriol	37.8	4.0	4.0	ng/l	40.0	ND	95	50-150	3	30	
Estrone	37.1	4.0	4.0	ng/l	40.0	ND	93	50-150	3	30	
Galaxolide (HHCB)	431	40	40	ng/l	400	ND	108	50-150	29	30	
Gemfibrozil	39.3	4.0	4.0	ng/l	40.0	ND	98	50-150	0.8	30	
Iopromide	42.7	4.0	4.0	ng/l	40.0	ND	107	50-150	2	30	
Naproxen	40.9	4.0	4.0	ng/l	40.0	ND	102	50-150	8	30	
Phenytoin (Dilantin)	37.0	4.0	4.0	ng/l	40.0	ND	93	50-150	7	30	
Primidone	39.8	4.0	4.0	ng/l	40.0	ND	99	50-150	37	30	R-02
Progesterone	40.1	4.0	4.0	ng/l	40.0	ND	100	50-150	8	30	
Salicylic Acid	969	100	100	ng/l	1000	ND	97	50-150	12	30	
TDCPP	618	50	50	ng/l	500	ND	124	50-150	8	30	
Testosterone	39.9	4.0	4.0	ng/l	40.0	ND	100	50-150	3	30	
Triclosan	88.4	8.0	8.0	ng/l	80.0	ND	111	50-150	5	30	
Surrogate(s)											
17-a-Ethynylestradiol-d4	*152*			*ng/l*	*200*		*76*	*20-500*			
Bisphenol A-d16	*162*			*ng/l*	*200*		*81*	*20-500*			
Estriol-d2	*177*			*ng/l*	*200*		*88*	*20-500*			
Gemfibrozil-d6	*76.9*			*ng/l*	*100*		*77*	*20-500*			
Naproxen-d3	*208*			*ng/l*	*200*		*104*	*20-500*			
Phenytoin-d10	*226*			*ng/l*	*200*		*113*	*20-500*			
Primidone-d5	*271*			*ng/l*	*200*		*135*	*20-500*			
Progesterone-d9	*195*			*ng/l*	*200*		*98*	*20-500*			

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0888 - EPA 1694M (Continued)											
Matrix Spike Dup (W2H0888-MSD1)	**Source: 1G28007-01**				**Prepared: 08/10/22**	**Analyzed: 08/16/22**					
Surrogate(s)											
Salicylic Acid-d4	*424*			*ng/l*	*500*		*85*	*20-500*			
Testosterone-d3	*196*			*ng/l*	*200*		*98*	*20-500*			
Triclosan-d3	*290*			*ng/l*	*400*		*73*	*20-500*			
Matrix Spike Dup (W2H0888-MSD2)	**Source: 1G28007-01**				**Prepared: 08/10/22**	**Analyzed: 08/17/22**					
Bisphenol A	23.1	4.0	4.0	ng/l	40.0	ND	58	50-150	61	30	QC-2, R-02
Diclofenac	38.4	4.0	4.0	ng/l	40.0	ND	96	50-150	4	30	QC-2
Galaxolide (HHCB)	337	40	40	ng/l	400	ND	84	50-150	6	30	QC-2
Gemfibrozil	40.0	4.0	4.0	ng/l	40.0	ND	100	50-150	8	30	QC-2
Primidone	38.7	4.0	4.0	ng/l	40.0	ND	97	50-150	41	30	R-02, QC-2
Surrogate(s)											
17-a-Ethynylestradiol-d4	*173*			*ng/l*	*200*		*87*	*20-500*			*QC-2*
Bisphenol A-d16	*177*			*ng/l*	*200*		*88*	*20-500*			*QC-2*
Gemfibrozil-d6	*85.7*			*ng/l*	*100*		*86*	*20-500*			*QC-2*
Primidone-d5	*170*			*ng/l*	*200*		*85*	*20-500*			*QC-2*
Batch: W2H0889 - EPA 1694M											
Blank (W2H0889-BLK1)					**Prepared: 08/10/22**	**Analyzed: 08/17/22**					
17-a-Estradiol	ND	4.0	4.0	ng/l							
17-b-Estradiol	ND	4.0	4.0	ng/l							
Ibuprofen	ND	4.0	4.0	ng/l							
Iohexol	ND	5.0	5.0	ng/l							
Sucralose	ND	20	20	ng/l							
Surrogate(s)											
17-b-Estradiol-d3	*186*			*ng/l*	*200*		*93*	*20-500*			
Ibuprofen-d3	*215*			*ng/l*	*200*		*107*	*20-500*			
Iohexol-d5	*540*			*ng/l*	*500*		*108*	*20-500*			
Sucralose-d6	*1060*			*ng/l*	*1000*		*106*	*20-500*			
LCS (W2H0889-BS1)					**Prepared: 08/10/22**	**Analyzed: 08/17/22**					
17-a-Estradiol	39.6	4.0	4.0	ng/l	40.0		99	50-150			
17-b-Estradiol	38.0	4.0	4.0	ng/l	40.0		95	50-150			
Ibuprofen	39.6	4.0	4.0	ng/l	40.0		99	50-150			
Iohexol	48.3	5.0	5.0	ng/l	50.0		97	50-150			
Sucralose	212	20	20	ng/l	200		106	50-150			
Surrogate(s)											
17-b-Estradiol-d3	*206*			*ng/l*	*200*		*103*	*20-500*			
Ibuprofen-d3	*194*			*ng/l*	*200*		*97*	*20-500*			
Iohexol-d5	*533*			*ng/l*	*500*		*107*	*20-500*			
Sucralose-d6	*1050*			*ng/l*	*1000*		*105*	*20-500*			
Matrix Spike (W2H0889-MS1)	**Source: 1G28007-01**				**Prepared: 08/10/22**	**Analyzed: 08/17/22**					
17-a-Estradiol	37.3	4.0	4.0	ng/l	40.0	ND	93	50-150			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

PPCPs - Isotope Dilution LCMSMS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H0889 - EPA 1694M (Continued)											
Matrix Spike (W2H0889-MS1)	**Source: 1G28007-01**				**Prepared: 08/10/22**	**Analyzed: 08/17/22**					
17-b-Estradiol	38.5	4.0	4.0	ng/l	40.0	ND	96	50-150			
Ibuprofen	41.2	4.0	4.0	ng/l	40.0	ND	103	50-150			
Iohexol	49.8	5.0	5.0	ng/l	50.0	ND	100	50-150			
Sucralose	225	20	20	ng/l	200	ND	112	50-150			
Surrogate(s)											
17-b-Estradiol-d3	*203*			*ng/l*	*200*		*102*	*20-500*			
Ibuprofen-d3	*197*			*ng/l*	*200*		*98*	*20-500*			
Iohexol-d5	*247*			*ng/l*	*500*		*49*	*20-500*			
Sucralose-d6	*522*			*ng/l*	*1000*		*52*	*20-500*			
Matrix Spike Dup (W2H0889-MSD1)	**Source: 1G28007-01**				**Prepared: 08/10/22**	**Analyzed: 08/17/22**					
17-a-Estradiol	38.5	4.0	4.0	ng/l	40.0	ND	96	50-150	3	30	
17-b-Estradiol	38.8	4.0	4.0	ng/l	40.0	ND	97	50-150	0.7	30	
Ibuprofen	35.4	4.0	4.0	ng/l	40.0	ND	88	50-150	15	30	
Iohexol	47.6	5.0	5.0	ng/l	50.0	ND	95	50-150	4	30	
Sucralose	216	20	20	ng/l	200	ND	108	50-150	4	30	
Surrogate(s)											
17-b-Estradiol-d3	*182*			*ng/l*	*200*		*91*	*20-500*			
Ibuprofen-d3	*220*			*ng/l*	*200*		*110*	*20-500*			
Iohexol-d5	*262*			*ng/l*	*500*		*52*	*20-500*			
Sucralose-d6	*594*			*ng/l*	*1000*		*59*	*20-500*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1378 - EPA 525.2											
Blank (W2H1378-BLK1)					**Prepared: 08/17/22 Analyzed: 08/18/22**						
Alachlor	ND	0.030	0.10	ug/l							
Atrazine	ND	0.011	0.10	ug/l							
Benzo (a) pyrene	ND	0.020	0.10	ug/l							
Bis(2-ethylhexyl)adipate	ND	0.42	2.0	ug/l							
Bis(2-ethylhexyl)phthalate	ND	0.41	2.0	ug/l							
Bromacil	ND	0.070	0.50	ug/l							
Butachlor	ND	0.012	0.10	ug/l							
Captan	ND	0.32	1.0	ug/l							
Chlorpropham	ND	0.040	0.10	ug/l							
Diazinon	ND	0.022	0.10	ug/l							
Dimethoate	ND	0.020	0.20	ug/l							
Diphenamid	ND	0.030	0.10	ug/l							
Disulfoton	ND	0.015	0.10	ug/l							
EPTC	ND	0.020	0.10	ug/l							
Hexachlorocyclopentadiene	ND	0.092	1.0	ug/l							
Metolachlor	ND	0.030	0.10	ug/l							
Metribuzin	ND	0.030	0.10	ug/l							
Molinate	ND	0.030	0.10	ug/l							
Prometryn	ND	0.030	0.10	ug/l							
Simazine	ND	0.020	0.10	ug/l							
Terbacil	ND	0.090	2.0	ug/l							
Thiobencarb	ND	0.030	0.10	ug/l							
Trithion	ND	0.020	0.10	ug/l							
Surrogate(s)											
1,3-Dimethyl-2-nitrobenzene	*5.06*			*ug/l*	*5.00*		*101*	*70-130*			
Perylene-d12	*4.64*			*ug/l*	*5.00*		*93*	*50-120*			
Triphenyl phosphate	*5.32*			*ug/l*	*5.00*		*106*	*70-130*			
LCS (W2H1378-BS1)					**Prepared: 08/17/22 Analyzed: 08/18/22**						
Alachlor	8.63	0.030	0.10	ug/l	7.50		115	70-130			
Atrazine	5.59	0.011	0.10	ug/l	5.00		112	70-130			
Benzo (a) pyrene	5.02	0.020	0.10	ug/l	5.00		100	60-130			
Bis(2-ethylhexyl)adipate	5.99	0.42	2.0	ug/l	5.00		120	70-130			
Bis(2-ethylhexyl)phthalate	5.31	0.41	2.0	ug/l	5.00		106	70-130			
Bromacil	5.93	0.070	0.50	ug/l	5.00		119	70-130			
Butachlor	5.67	0.012	0.10	ug/l	5.00		113	70-130			
Captan	5.40	0.32	1.0	ug/l	5.00		108	70-130			
Chlorpropham	5.99	0.040	0.10	ug/l	5.00		120	70-130			
Diazinon	4.50	0.022	0.10	ug/l	5.00		90	50-120			
Dimethoate	4.61	0.020	0.20	ug/l	5.00		92	50-120			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1378 - EPA 525.2 (Continued)											
LCS (W2H1378-BS1)					**Prepared: 08/17/22 Analyzed: 08/18/22**						
Diphenamid	5.53	0.030	0.10	ug/l	5.00		111	70-130			
Disulfoton	4.98	0.015	0.10	ug/l	5.00		100	50-120			
EPTC	6.28	0.020	0.10	ug/l	5.00		126	70-130			
Hexachlorocyclopentadiene	1.96	0.092	1.0	ug/l	2.50		78	33-106			
Metolachlor	5.28	0.030	0.10	ug/l	5.00		106	60-130			
Metribuzin	5.03	0.030	0.10	ug/l	5.00		101	50-120			
Molinate	5.03	0.030	0.10	ug/l	5.00		101	70-130			
Prometryn	2.51	0.030	0.10	ug/l	5.00		50	30-120			
Simazine	4.11	0.020	0.10	ug/l	5.00		82	60-130			
Terbacil	4.78	0.090	2.0	ug/l	5.00		96	70-130			
Thiobencarb	4.49	0.030	0.10	ug/l	5.00		90	70-130			
Trithion	4.58	0.020	0.10	ug/l	5.00		92	70-130			
Surrogate(s)											
1,3-Dimethyl-2-nitrobenzene	*4.86*			*ug/l*	*5.00*		*97*	*70-130*			
Perylene-d12	*5.04*			*ug/l*	*5.00*		*101*	*50-120*			
Triphenyl phosphate	*5.65*			*ug/l*	*5.00*		*113*	*70-130*			
Matrix Spike (W2H1378-MS1)	**Source: 1G28007-01**				**Prepared: 08/17/22 Analyzed: 08/18/22**						
Alachlor	8.95	0.030	0.10	ug/l	7.54	ND	119	70-130			
Atrazine	5.40	0.011	0.10	ug/l	5.03	ND	107	70-130			
Benzo (a) pyrene	4.97	0.020	0.10	ug/l	5.03	ND	99	60-130			
Bis(2-ethylhexyl)adipate	5.86	0.42	2.0	ug/l	5.03	ND	117	70-130			
Bis(2-ethylhexyl)phthalate	5.21	0.41	2.0	ug/l	5.03	ND	104	70-130			
Bromacil	5.93	0.070	0.50	ug/l	5.03	ND	118	70-130			
Butachlor	5.68	0.012	0.10	ug/l	5.03	ND	113	70-130			
Captan	5.46	0.32	1.0	ug/l	5.03	ND	109	70-130			
Chlorpropham	6.12	0.040	0.10	ug/l	5.03	ND	122	70-130			
Diazinon	5.02	0.022	0.10	ug/l	5.03	ND	100	50-120			
Dimethoate	4.84	0.020	0.20	ug/l	5.03	ND	96	50-120			
Diphenamid	5.45	0.030	0.10	ug/l	5.03	ND	109	70-130			
Disulfoton	5.00	0.015	0.10	ug/l	5.03	ND	99	50-120			
EPTC	6.15	0.020	0.10	ug/l	5.03	ND	122	70-130			
Hexachlorocyclopentadiene	2.15	0.092	1.0	ug/l	2.51	ND	86	33-106			
Metolachlor	5.43	0.030	0.10	ug/l	5.03	ND	108	60-130			
Metribuzin	5.13	0.030	0.10	ug/l	5.03	ND	102	50-120			
Molinate	4.97	0.030	0.10	ug/l	5.03	ND	99	70-130			
Prometryn	2.70	0.030	0.10	ug/l	5.03	ND	54	30-120			
Simazine	4.27	0.020	0.10	ug/l	5.03	ND	85	60-130			
Terbacil	4.83	0.090	2.0	ug/l	5.03	ND	96	70-130			
Thiobencarb	4.45	0.030	0.10	ug/l	5.03	ND	88	70-130			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1378 - EPA 525.2 (Continued)											
Matrix Spike (W2H1378-MS1)	**Source: 1G28007-01**				**Prepared: 08/17/22**	**Analyzed: 08/18/22**					
Trithion	4.68	0.020	0.10	ug/l	5.03	ND	93	70-130			
Surrogate(s)											
1,3-Dimethyl-2-nitrobenzene	*5.03*			*ug/l*	*5.03*		*100*	*70-130*			
Perylene-d12	*5.17*			*ug/l*	*5.03*		*103*	*50-120*			
Triphenyl phosphate	*5.58*			*ug/l*	*5.03*		*111*	*70-130*			
Matrix Spike Dup (W2H1378-MSD1)	**Source: 1G28007-01**				**Prepared: 08/17/22**	**Analyzed: 08/18/22**					
Alachlor	9.31	0.030	0.10	ug/l	7.63	ND	122	70-130	4	30	
Atrazine	5.74	0.011	0.10	ug/l	5.09	ND	113	70-130	6	30	
Benzo (a) pyrene	5.06	0.020	0.10	ug/l	5.09	ND	100	60-130	2	30	
Bis(2-ethylhexyl)adipate	6.09	0.42	2.0	ug/l	5.09	ND	120	70-130	4	30	
Bis(2-ethylhexyl)phthalate	5.37	0.41	2.0	ug/l	5.09	ND	106	70-130	3	30	
Bromacil	6.09	0.070	0.50	ug/l	5.09	ND	120	70-130	3	30	
Butachlor	5.94	0.012	0.10	ug/l	5.09	ND	117	70-130	4	30	
Captan	5.62	0.32	1.0	ug/l	5.09	ND	110	70-130	3	30	
Chlorpropham	6.32	0.040	0.10	ug/l	5.09	ND	124	70-130	3	30	
Diazinon	5.03	0.022	0.10	ug/l	5.09	ND	99	50-120	0.2	30	
Dimethoate	5.23	0.020	0.20	ug/l	5.09	ND	103	50-120	8	30	
Diphenamid	5.61	0.030	0.10	ug/l	5.09	ND	110	70-130	3	30	
Disulfoton	5.09	0.015	0.10	ug/l	5.09	ND	100	50-120	2	30	
EPTC	6.32	0.020	0.10	ug/l	5.09	ND	124	70-130	3	30	
Hexachlorocyclopentadiene	2.16	0.092	1.0	ug/l	2.54	ND	85	33-106	0.4	30	
Metolachlor	5.50	0.030	0.10	ug/l	5.09	ND	108	60-130	1	30	
Metribuzin	5.35	0.030	0.10	ug/l	5.09	ND	105	50-120	4	30	
Molinate	5.00	0.030	0.10	ug/l	5.09	ND	98	70-130	0.6	30	
Prometryn	2.92	0.030	0.10	ug/l	5.09	ND	57	30-120	8	30	
Simazine	4.32	0.020	0.10	ug/l	5.09	ND	85	60-130	1	30	
Terbacil	4.74	0.090	2.0	ug/l	5.09	ND	93	70-130	2	30	
Thiobencarb	4.58	0.030	0.10	ug/l	5.09	ND	90	70-130	3	30	
Trithion	4.75	0.020	0.10	ug/l	5.09	ND	93	70-130	1	30	
Surrogate(s)											
1,3-Dimethyl-2-nitrobenzene	*5.06*			*ug/l*	*5.09*		*100*	*70-130*			
Perylene-d12	*5.18*			*ug/l*	*5.09*		*102*	*50-120*			
Triphenyl phosphate	*5.76*			*ug/l*	*5.09*		*113*	*70-130*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Quality Control Results

(Continued)

Volatile Organics by P&T and GC/MS

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2H1133 - EPA 524.3											
Blank (W2H1133-BLK1)					**Prepared: 08/12/22 Analyzed: 08/13/22**						
1,2-Dibromo-3-chloropropane	ND	0.0042	0.010	ug/l							
1,2-Dibromoethane (EDB)	ND	0.0029	0.020	ug/l							
Surrogate(s)											
1,2-Dichlorobenzene-d4	*0.400*			*ug/l*	*0.400*		*100*	*70-130*			
4-Bromofluorobenzene	*0.346*			*ug/l*	*0.400*		*86*	*70-130*			
LCS (W2H1133-BS1)					**Prepared: 08/12/22 Analyzed: 08/13/22**						
1,2-Dibromo-3-chloropropane	0.0623	0.0042	0.010	ug/l	0.0500		125	70-130			
1,2-Dibromoethane (EDB)	0.0563	0.0029	0.020	ug/l	0.0500		113	70-130			
Surrogate(s)											
1,2-Dichlorobenzene-d4	*0.397*			*ug/l*	*0.400*		*99*	*70-130*			
4-Bromofluorobenzene	*0.354*			*ug/l*	*0.400*		*89*	*70-130*			
Matrix Spike (W2H1133-MS1)	**Source: 2G15022-01**				**Prepared: 08/12/22 Analyzed: 08/13/22**						
1,2-Dibromo-3-chloropropane	0.0588	0.0042	0.010	ug/l	0.0500	ND	118	65-135			
1,2-Dibromoethane (EDB)	0.0672	0.0029	0.020	ug/l	0.0500	ND	134	65-135			
Surrogate(s)											
1,2-Dichlorobenzene-d4	*0.401*			*ug/l*	*0.400*		*100*	*70-130*			
4-Bromofluorobenzene	*0.313*			*ug/l*	*0.400*		*78*	*70-130*			
Matrix Spike Dup (W2H1133-MSD1)	**Source: 2G15022-01**				**Prepared: 08/12/22 Analyzed: 08/13/22**						
1,2-Dibromo-3-chloropropane	0.0547	0.0042	0.010	ug/l	0.0500	ND	109	65-135	7	30	
1,2-Dibromoethane (EDB)	0.0612	0.0029	0.020	ug/l	0.0500	ND	122	65-135	9	30	
Surrogate(s)											
1,2-Dichlorobenzene-d4	*0.399*			*ug/l*	*0.400*		*100*	*70-130*			
4-Bromofluorobenzene	*0.303*			*ug/l*	*0.400*		*76*	*70-130*			

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-466831

Project Manager: Ranjit Clarke

Reported:
10/03/2022 16:46

Notes and Definitions

Item	Definition
AN-IP	Sample results for structural isomers may have contribution from their isomeric pair.
J	Estimated conc. detected <MRL and >MDL.
M-05	Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
MS-01	The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference.
Q-02	Low recovery of this analyte in the QC sample. The analysis of the low level standard produced acceptable recovery indicating that the sample result might be accurately reported as Not Detected.
Q-08	High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit.
QC-2	This QC sample was reanalyzed to complement samples that require re-analysis on different date. See analysis date.
Q-ME	Acceptable QC with marginal exceedance
R-01	The MDL and/or MRL for this analyte has been raised to account for matrix interference.
R-02	The RPD was outside of QC acceptance limits due to possible matrix interference.
R-03	The RPD is not applicable for result below the reporting limit (either ND or J value).
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

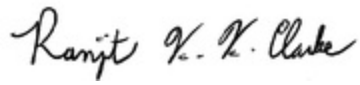
Lab Job Number: 466836
Report Level: II
Report Date: 08/15/2022

Analytical Report *prepared for:*

Kiernan Brtalik
Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001

Project: MALIBU - Annual

Authorized for release by:



Ranjit K Clarke, Client Services Manager
(714) 771-9906
Ranjit.Clarke@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Kiernan Brtalik
Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001

Lab Job #:	466836
Project No:	MALIBU
Location:	Annual
Date Received:	08/04/22

Sample ID	Lab ID	Collected	Matrix
CCPE	466836-001	08/04/22 12:45	Water
MCWP-MW05	466836-002	08/04/22 10:10	Water
MCWP-MW06	466836-003	08/04/22 14:05	Water

Case Narrative

Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001
Kiernan Brtalik

Lab Job Number: 466836
Project No: MALIBU
Location: Annual
Date Received: 08/04/22

This data package contains sample and QC results for three water samples, requested for the above referenced project on 08/04/22. The samples were received cold and intact.

Ion Chromatography (EPA 300.0 and EPA 300.0):
No analytical problems were encountered.

Total Phosphorus as P (SM 4500-P-B5-E):
No analytical problems were encountered.

Organic Nitrogen, by Calculation (ORGANIC NITROGEN):
No analytical problems were encountered.

Total Dissolved Solids (TDS) (SM2540C):
No analytical problems were encountered.

Total Coliform / E. coli by Quanti-Tray (SM 9223Bb):
No analytical problems were encountered.

Ammonia and TKN- Semi-Automated Method (SM 4500-NH3-G):
No analytical problems were encountered.

ENTHALPHY ANALYTICAL, INC.		Chain of Custody Record								Turn Around Time (Rush by advanced notice only)							
931 W. Barkley Ave., Orange, CA 92868		Lab No: 460836								Standard:	X	4 Day:		3 Day:			
Phone: (714) 771-6900 Fax: (714) 538-1209		Page: 1 of 1								2 Day:		1 Day:		Same Day:			
Billing: Enthalpy - SoCal		Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other								Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other							
c/o Montrose Environmental Group																	
1 Park Plaza, Suite 1000, Irvine, CA 92614																	

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants	Name:	Malibu - Annual
Report To:	Kiernan Brtalik	Number:	26-09665
Email:	kbrtalik@rinconconsultants.com	P.O. #:	
Address:	180 N. Ashwood Ave.	Address:	
	Ventura, CA 93003		
Phone:		Global ID:	
Cell:		Sampled By:	

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Total /Fecal Coliforms - SM 9223 Quantitray	TKN; NH3; Organic Nitrogen (Calculation)	EPA 300.0 (NO2,NO3)	Total Phosphorus	SM 2540C TDS	EPA 300.0 (NO3)	Test Instructions / Comments
~~SMBRP-13~~						X	X	X	X	X		4.0/2.6
~~MCWP-MW10~~						X	X	X	X	X		2.6/1.3
CCPE	8/4/22	1245	GW	5	✓	X	X	X	X	X		
~~MBCMW-9~~						X	X	X	X	X		
~~SMBRP-7B~~						X	X	X	X	X		
~~SMBRP-12~~						X	X	X	X	X		
~~SMBRP-11~~						X	X	X	X	X		
MCWP-MW05	8/4/22	1010	GW	2						X	X	
MCWP-MW06	8/4/22	1405	GW	2						X	X	

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		LANDON LUJAN	RINCON	8/4/22 1420
[1] Received By:		Gerardo Gawat	EA	8.4.22 1421
[2] Relinquished By:		C Gawat	EA	8.4.22 1635
[2] Received By:		G Gm	EA	8/4/22 1635
[3] Relinquished By:				
[3] Received By:				

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Project: Malibu - Annual

Date Received: 8/4/22 Sampler's Name Present: ☐ Yes ☑ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 2 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 4.0 #2: 2.6 #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 2.6 #2: 1.3 #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?		✔	
If custody seals are present, were they intact?			✔
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✔		
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?	✔		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✔
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 8/4/22

Analysis Results for 466836

Kiernan Brtalik
Rincon Consultants - Ventura
2060 Knoll Drive
Unit B
Ventura, CA 93001

Lab Job #: 466836
Project No: MALIBU
Location: Annual
Date Received: 08/04/22

Sample ID: CCPE **Lab ID: 466836-001** **Collected: 08/04/22 12:45**
Matrix: Water

466836-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	1	294366	08/04/22 14:19	08/05/22 02:02	RKV
Nitrogen, Nitrate	**1.5**		mg/L	0.10	0.03	1	294366	08/04/22 14:19	08/05/22 02:02	RKV
Nitrogen, Nitrate/Nitrite	**1.5**		mg/L	0.10		1	294366	08/04/22 14:19	08/05/22 02:02	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.24**		mg/L			1	294825	08/10/22	08/10/22	SLL
Method: SM 4500-NH3-G										
Ammonia-N	**0.11**		mg/L	0.10	0.045	1	294678	08/09/22	08/09/22	ATP
Nitrogen, Total Kjeldahl	**0.35**	J	mg/L	0.40	0.12	1	294755	08/10/22	08/10/22	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.12**		mg/L	0.020	0.0054	1	294923	08/11/22	08/11/22	ATP
Method: SM 9223Bb										
Coliform, Total	**11**		MPN/100ml	1.0		1	294401	08/04/22 18:40	08/05/22 13:42	AJL
Fecal Coliform	<1.0		MPN/100ml	1.0		1	294401	08/04/22 18:40	08/05/22 13:42	AJL
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**1,600**		mg/L	20		2	294682	08/09/22	08/10/22	DNA

Sample ID: MCWP-MW05 **Lab ID: 466836-002** **Collected: 08/04/22 10:10**
Matrix: Water

466836-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrate	**2.4**		mg/L	0.10	0.03	1	294366	08/04/22 14:19	08/05/22 02:36	RKV
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**1,400**		mg/L	20		2	294682	08/09/22	08/10/22	DNA

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 466836

Sample ID: MCWP-MW06	Lab ID: 466836-003	Collected: 08/04/22 14:05
	Matrix: Water	

466836-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrate	ND		mg/L	0.10	0.03	1	294366	08/04/22 14:19	08/05/22 03:10	RKV
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**1,800**		mg/L	20		2	294682	08/09/22	08/10/22	DNA

< Value is less than indicated concentration
J Estimated value
ND Not Detected

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC1004646	**Batch:** 294366
Matrix: Water	**Method:** EPA 300.0	**Prep Method:** METHOD

QC1004646 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	08/04/22 14:19	08/04/22 21:49
Nitrogen, Nitrate	ND		mg/L	0.10	0.03	08/04/22 14:19	08/04/22 21:49
Nitrogen, Nitrate/Nitrite	ND		mg/L	0.10		08/04/22 14:19	08/04/22 21:49

Type: Lab Control Sample	**Lab ID:** QC1004647	**Batch:** 294366
Matrix: Water	**Method:** EPA 300.0	**Prep Method:** METHOD

QC1004647 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Nitrite	2.433	2.283	mg/L	107%		90-110
Nitrogen, Nitrate	2.370	2.259	mg/L	105%		90-110

Type: Matrix Spike	**Lab ID:** QC1004648	**Batch:** 294366
Matrix (Source ID): Water (466789-001)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC1004648 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Nitrite	2.542	0.5607	1.827	mg/L	108%		80-120	1
Nitrogen, Nitrate	6.943	4.940	1.807	mg/L	111%	E	80-120	1

Type: Matrix Spike Duplicate	**Lab ID:** QC1004649	**Batch:** 294366
Matrix (Source ID): Water (466789-001)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC1004649 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Nitrite	2.515	0.5607	1.827	mg/L	107%		80-120	1	20	1
Nitrogen, Nitrate	6.920	4.940	1.807	mg/L	110%	E	80-120		20	1

Type: Matrix Spike	**Lab ID:** QC1004650	**Batch:** 294366
Matrix (Source ID): Water (466806-001)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC1004650 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Nitrite	1.990	ND	1.827	mg/L	109%		80-120	1
Nitrogen, Nitrate	2.151	0.1475	1.807	mg/L	111%		80-120	1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1004651**	**Batch:**	**294366**
Matrix (Source ID):	**Water (466806-001)**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC1004651 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Nitrite	2.010	ND	1.827	mg/L	110%		80-120	1	20	1
Nitrogen, Nitrate	2.176	0.1475	1.807	mg/L	112%		80-120	1	20	1

Type:	**Blank**	**Lab ID:**	**QC1005603**	**Batch:**	**294678**
Matrix:	**Water**	**Method:**	**SM 4500-NH3-G**		

QC1005603 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Ammonia-N	ND		mg/L	0.10	0.045	08/09/22	08/09/22

Type:	**Lab Control Sample**	**Lab ID:**	**QC1005604**	**Batch:**	**294678**
Matrix:	**Water**	**Method:**	**SM 4500-NH3-G**		

QC1005604 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Ammonia-N	2.429	2.500	mg/L	97%		80-120

Type:	**Matrix Spike**	**Lab ID:**	**QC1005605**	**Batch:**	**294678**
Matrix (Source ID):	**Water (466836-001)**	**Method:**	**SM 4500-NH3-G**		

QC1005605 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Ammonia-N	2.527	0.1060	2.500	mg/L	97%		80-120	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1005606**	**Batch:**	**294678**
Matrix (Source ID):	**Water (466836-001)**	**Method:**	**SM 4500-NH3-G**		

QC1005606 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Ammonia-N	2.554	0.1060	2.500	mg/L	98%		80-120	1	20	1

Type:	**Blank**	**Lab ID:**	**QC1005763**	**Batch:**	**294755**
Matrix:	**Water**	**Method:**	**SM 4500-NH3-G**		

QC1005763 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Total Kjeldahl	ND		mg/L	0.20	0.062	08/10/22	08/10/22

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample **Lab ID:** QC1005764 **Batch:** 294755
Matrix: Water **Method:** SM 4500-NH3-G

QC1005764 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Total Kjeldahl	2.691	2.500	mg/L	108%		80-120

Type: Matrix Spike **Lab ID:** QC1005765 **Batch:** 294755
Matrix (Source ID): Water (466764-001) **Method:** SM 4500-NH3-G

QC1005765 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Total Kjeldahl	13.04	0.6826	12.50	mg/L	99%		80-120	2.5

Type: Matrix Spike Duplicate **Lab ID:** QC1005766 **Batch:** 294755
Matrix (Source ID): Water (466764-001) **Method:** SM 4500-NH3-G

QC1005766 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Total Kjeldahl	13.38	0.6826	12.50	mg/L	102%		80-120	3	20	2.5

Type: Blank **Lab ID:** QC1006289 **Batch:** 294923
Matrix: Water **Method:** SM 4500-P-B5-E

QC1006289 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Phosphorus	ND		mg/L	0.020	0.0054	08/11/22	08/11/22

Type: Lab Control Sample **Lab ID:** QC1006290 **Batch:** 294923
Matrix: Water **Method:** SM 4500-P-B5-E

QC1006290 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phosphorus	0.3970	0.4000	mg/L	99%		80-120

Type: Matrix Spike **Lab ID:** QC1006291 **Batch:** 294923
Matrix (Source ID): Water (466831-001) **Method:** SM 4500-P-B5-E

QC1006291 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phosphorus	1.108	0.1170	1.000	mg/L	99%		75-125	2.5

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1006292**	**Batch:**	**294923**
Matrix (Source ID):	**Water (466831-001)**	**Method:**	**SM 4500-P-B5-E**		

QC1006292 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phosphorus	1.105	0.1170	1.000	mg/L	99%		75-125	0	20	2.5

Type:	**Blank**	**Lab ID:**	**QC1005592**	**Batch:**	**294682**
Matrix:	**Water**	**Method:**	**SM2540C**	**Prep Method:**	**METHOD**

QC1005592 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Dissolved Solids	ND		mg/L	10		08/09/22	08/10/22

Type:	**Lab Control Sample**	**Lab ID:**	**QC1005593**	**Batch:**	**294682**
Matrix:	**Water**	**Method:**	**SM2540C**	**Prep Method:**	**METHOD**

QC1005593 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Dissolved Solids	360.0	342.0	mg/L	105%		90-110

Type:	**Sample Duplicate**	**Lab ID:**	**QC1005594**	**Batch:**	**294682**
Matrix (Source ID):	**Water (466899-001)**	**Method:**	**SM2540C**	**Prep Method:**	**METHOD**

QC1005594 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Dissolved Solids	2,490	2428	mg/L		3	5	2

E Response exceeds instrument's linear range
ND Not Detected

CALIFORNIA
Water Boards
STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

CERTIFICATE OF ENVIRONMENTAL LABORATORY ACCREDITATION

Is hereby granted to

Ceres Analytical Laboratory, Inc.

4919 Windplay Drive, Suite 1

El Dorado Hills, CA 95762

Scope of the certificate is limited to the
"Fields of Accreditation"
which accompany this Certificate.

Continued accredited status depends on compliance with applicable laws and regulations, proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: **3046**

Effective Date: **5/1/2021**

Expiration Date: **4/30/2023**

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Program Manager
Environmental Laboratory Accreditation Program

CALIFORNIA
Water Boards
STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

CERTIFICATE OF ENVIRONMENTAL LABORATORY ACCREDITATION

Is hereby granted to

Pat-Chem Laboratories

1824 First Street

San Fernando, CA 91340

Scope of the certificate is limited to the
"Fields of Accreditation"
which accompany this Certificate.

Continued accredited status depends on compliance with applicable laws and regulations, proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: **1531**

Effective Date: **6/1/2021**

Expiration Date: **5/31/2023**

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Program Manager
Environmental Laboratory Accreditation Program

CALIFORNIA
Water Boards
STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

CERTIFICATE OF ENVIRONMENTAL LABORATORY ACCREDITATION

Is hereby granted to

Fruit Growers Laboratory, Inc.

Santa Paula

853 Corporation Street

Santa Paula, CA 93060

Scope of the certificate is limited to the
"Fields of Accreditation"
which accompany this Certificate.

Continued accredited status depends on compliance with applicable laws and regulations, proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: **1573**

Effective Date: **8/1/2021**

Expiration Date: **7/31/2023**

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

CALIFORNIA
Water Boards
STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

CERTIFICATE OF ENVIRONMENTAL LABORATORY ACCREDITATION

Is hereby granted to

Weck Laboratories, Inc.

14859 East Clark Avenue

City of Industry, CA 91745

Scope of the certificate is limited to the
"Fields of Accreditation"
which accompany this Certificate.

Continued accredited status depends on compliance with applicable laws and regulations, proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: **1132**

Effective Date: **4/1/2022**

Expiration Date: **3/31/2024**

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Program Manager
Environmental Laboratory Accreditation Program

CALIFORNIA
Water Boards
STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

CERTIFICATE OF ENVIRONMENTAL LABORATORY ACCREDITATION

Is hereby granted to

Eberline Analytical Corporation

601 Scarboro Road

Oak Ridge, TN 37830

Scope of the certificate is limited to the
"Fields of Accreditation"
which accompany this Certificate.

Continued accredited status depends on compliance with applicable laws and regulations, proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: **2912**

Effective Date: **10/1/2021**

Expiration Date: **9/30/2022**

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Program Manager
Environmental Laboratory Accreditation Program