INTEGRATED
PERFORMANCE
CONSULTANTS

October 30th, 2020

Deborah Smith
Executive Officer II
California Regional Water Quality Control Board
Los Angeles Region

Attention: Information Technology Unit

Malibu Civic Center WTP — WDR: R4-2015-0051
2020 3rd Quarter Monitoring Report — MRP: CI-10042

OVERVIEW

Malibu Civic Center Wastewater Treatment Plant performed well all quarter.

Irrigation demand at Bluffs Park remained high throughout the summer, but reclaimed water production had no problem meeting the demand. The Upper Zone reclaimed water distribution system has operated smoothly since Bluffs Park was put online, delivering over 2 million gallons for reuse this quarter.

COVID-19 pandemic related business restrictions continued to suppress flow and load throughout this quarter. Continuous MicroC addition was required for BOD replacement and NOx control. By the end of the quarter, influent flow was within 90% of pre-COVID levels. MicroC dose was decreased in concert with flow and load increases.

SUMMARY OF NON-COMPLIANCE

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

INFLUENT & EFFLUENT MONITORING

The results of influent and effluent monitoring are shown in Attachment A.

WASTE HAULING

35,000 gallons of thickened waste activated sludge were hauled off site from the MBT this quarter for biological process control.

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 30th day of October, 2020, 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															
07/01/2020	Wed	47.6			42.2	0.0	19.5	22.7	0.0	0.03	0.03	0.00	66.9	165.2	7.3	1.79	1.79	1.79	0.049	2.0	99.4	0.9	99.5	2.2	2.2	0.02	0.62	1.21	0.59	3.39								
07/02/2020	Thu	48.7			70.1	0.0	32.4	37.7	0.0	0.03	0.03	0.00	66.0	165.6	7.6	1.79	1.79	1.79	0.049																			
07/03/2020	Fri	51.7			30.4	0.0	14.1	16.4	0.0	0.03	0.31	0.20	68.5	158.9	7.7	1.79	1.79	1.79	0.049												4.9	1.8	952	198	303	0.25	0.07	
07/04/2020	Sat	42.4			82.8	0.0	38.3	44.5	0.0	0.09	0.47	0.20	69.6	157.7	7.6	1.79	1.79	1.79	0.049																			
07/05/2020	Sun	49.5			58.1	0.0	26.9	31.3	0.0	0.12	0.48	0.36	69.3	165.1	7.6	1.79	1.79	1.79	0.049																			
07/06/2020	Mon	48.4			25.5	0.0	11.8	13.7	0.0	0.13	0.16	0.00	69.2	151.5	7.6	1.79	1.79	1.79	0.049																			
07/07/2020	Tue	67.3	244	207	69.8	0.0	32.3	37.5	0.0	0.12	0.31	0.25	68.9	143.5	7.7	1.79	1.79	1.79	0.049																			
07/08/2020	Wed	47.1			28.5	0.0	13.2	15.3	0.0	0.11	0.38	0.15	68.7	117.6	7.6	1.79	1.79	1.79	0.049	4.0	98.1	0.9	99.6	0.4	0.4	0.02	0.09	1.14	1.05	1.54								
07/09/2020	Thu	57.1			79.0	0.0	36.5	42.4	0.0	0.15	0.27	0.46	68.5	122.7	7.6	1.79	1.79	1.79	0.049																			
07/10/2020	Fri	58.4			3.2	0.0	1.5	1.7	0.0	0.16	0.19	0.00	68.6	118.9	7.8	1.79	1.79	1.79	0.049																			
07/11/2020	Sat	57.6			75.7	0.0	35.0	40.7	0.0	0.12	0.15	0.00	68.3	144.2	7.4	1.79	1.79	1.79	0.049																			
07/12/2020	Sun	52.0			27.2	0.0	12.6	14.6	0.0	0.13	0.15	0.00	68.9	159.1	7.5	1.79	1.79	1.79	0.049																			
07/13/2020	Mon	51.4			18.6	0.0	8.6	10.0	0.0	0.13	0.19	0.00	70.3	155.3	7.5	1.79	1.79	1.79	0.049																			
07/14/2020	Tue	48.3	218	308	68.4	0.0	31.6	36.8	0.0	0.12	0.19	0.00	69.8	151.3	7.4	1.79	1.79	1.79	0.049																			
07/15/2020	Wed	42.9			7.1	0.0	3.3	3.8	0.0	0.17	0.19	0.00	70.1	163.2	7.5	1.79	1.79	1.79	0.049	5.0	98.4	0.9	99.6	0.0	0.0	0.02	0.26	1.45	1.19	1.49								
07/16/2020	Thu	62.9			71.4	0.0	33.0	38.4	0.0	0.06	0.19	0.00	70.7	155.4	7.6	1.79	1.79	1.79	0.060																			
07/17/2020	Fri	46.0			48.1	0.0	22.2	25.9	0.0	0.04	0.31	0.20	72.2	146.1	7.6	1.79	1.79	1.79	0.080																			
07/18/2020	Sat	50.6			72.9	0.0	33.7	39.2	0.0	0.04	0.47	0.36	73.7	172.2	7.6	1.79	1.79	1.79	0.120																			
07/19/2020	Sun	52.0			66.2	0.0	30.6	35.6	0.0	0.08	0.42	0.15	72.2	150.4	7.6	1.79	1.79	1.79	0.049																			
07/20/2020	Mon	50.2			34.3	0.0	15.8	18.4	0.0	0.06	0.10	0.00	71.1	123.9	8.1	1.79	1.79	1.79	0.049																			
07/21/2020	Tue	47.6	179	410	64.6	0.0	29.9	34.8	0.0	0.03	0.28	0.10	72.4	149.7	8.2	1.79	1.79	1.79	0.120																			
07/22/2020	Wed	43.6			23.0	0.0	10.6	12.3	0.0	0.05	0.48	0.15	72.2	164.4	7.6	1.79	1.79	1.79	0.220	5.0	98.8	1.0	99.4	0.1	0.0	0.05	0.23	1.19	0.96	1.29								
07/23/2020	Thu	45.9			60.9	0.0	28.2	32.7	0.0	0.12	0.31	0.31	71.9	175.8	7.7	1.79	1.79	1.79	0.049																			
07/24/2020	Fri	48.5			20.2	0.0	9.4	10.9	0.0	0.12	0.47	0.36	71.7	175.6	7.7	1.79	1.79	1.79	0.049																			
07/25/2020	Sat	52.1			81.9	0.0	37.9	44.0	0.0	0.12	0.41	0.87	70.8	164.9	7.6	1.79	1.79	1.79	0.049																			
07/26/2020	Sun	48.4			78.5	0.0	36.3	42.2	0.0	0.12	0.39	0.41	70.1	150.2	7.6	1.79	1.79	1.79	0.049																			
07/27/2020	Mon	50.3			38.2	0.0	17.7	20.5	0.0	0.07	0.11	0.00	70.2	157.0	7.4	1.79	1.79	1.79	0.049																			
07/28/2020	Tue	46.9			65.6	0.0	30.3	35.3	0.0	0.05	0.22	0.10	70.1	166.3	7.7	1.79	1.79	1.79	0.049																			
07/29/2020	Wed	46.1	100	390	36.7	0.0	17.0	19.7	0.0	0.06	0.45	0.31	70.2	163.6	7.7	1.79	1.79	1.79	0.049	3.0	99.2	0.9	99.1	0.1	0.1	0.05	0.41	0.86	0.45	0.99								
07/30/2020	Thu	59.8			66.2	0.0	30.6	35.6	0.0	0.08	0.40	0.15	69.7	153.9	7.6	1.79	1.79	1.79	0.180																			
07/31/2020	Fri	49.8			50.7	0.0	23.4	27.3	0.0	0.09	0.49	0.15	72.0	143.4	7.6	1.79	1.79	1.79	0.100																			
TOTAL	1,571			1,565.9	0.0	724.0	841.9	0.0																													
MAX	67.3	244	410	82.8	0.0	38.3	44.5	0.0	0.17	0.49	0.87	73.7	175.8	8.2	1.79	1.79	1.79	0.220	5.0	99.4	1.0	99.6	2.2	2.2	0.05	0.62	1.45	1.19	3.39	4.9	1.8	952	198	303	0.25	0.07	
AVG	50.7	185	329	50.5	0.0	23.4	27.2	0.0	0.09	0.29	0.17	70.1	153.3	7.6	1.79	1.79	1.79	0.066	3.8	98.8	0.9	99.5	0.6	0.5	0.03	0.32	1.17	0.85	1.74	4.9	1.8	952	198	303	0.25	0.07	
MIN	42.4	100	207	3.2	0.0	1.5	1.7	0.0	0.03	0.03	0.00	66.0	117.6	7.3	1.79	1.79	1.79	0.049	2.0	98.1	0.9	99.1	0.0	0.0	0.02	0.09	0.86	0.45	0.99	4.9	1.8	952	198	303	0.25	0.07	

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	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																
08/01/2020	Sat	46.5			37.1	0.0	2.5	34.6	0.0	0.06	0.43	0.36	73.9	163.2	7.5	1.79	1.79	1.79	0.050																			
08/02/2020	Sun	48.2			50.4	0.0	25.3	25.1	0.0	0.08	0.49	0.20	74.4	169.6	7.8	1.79	1.79	1.79	0.050																			
08/03/2020	Mon	44.9			42.9	0.0	28.5	14.4	0.0	0.07	0.14	0.00	73.9	163.7	7.7	1.79	1.79	1.79	0.060																4.9	1.2	972	163	297	0.39	0.19
08/04/2020	Tue	42.3			45.8	0.0	25.0	20.8	0.0	0.04	0.46	0.31	70.4	165.8	7.6	1.79	1.79	1.79	0.049	4.0	98.5	0.9	99.6	0.1	0.1	0.05	0.09	0.49	0.40	0.59							
08/05/2020	Wed	44.8	218	267	40.4	0.0	26.6	13.9	0.0	0.03	0.46	0.10	70.3	175.0	7.6	1.79	1.79	1.79	0.070																			
08/06/2020	Thu	54.0			51.8	0.0	27.6	24.2	0.0	0.03	0.40	0.10	70.2	173.5	7.5	1.79	1.79	1.79	0.080																			
08/07/2020	Fri	45.9			92.3	0.0	26.1	66.3	0.0	0.03	0.45	0.15	69.9	157.0	7.4	1.79	1.79	1.79	0.060																			
08/08/2020	Sat	45.9			29.7	0.0	2.6	27.2	0.0	0.03	0.35	0.31	70.2	163.3	7.4	1.79	1.79	1.79	0.060																			
08/09/2020	Sun	47.1			52.0	0.0	25.5	26.5	0.0	0.03	0.44	0.20	68.8	157.8	7.6	1.79	1.79	1.79	0.049																			
08/10/2020	Mon	46.8			43.6	0.0	25.7	17.9	0.0	0.03	0.18	0.00	69.7	150.0	7.5	1.79	1.79	1.79	0.050																			
08/11/2020	Tue	45.2	232	500	55.7	0.0	25.3	30.4	0.0	0.07	0.27	0.20	69.3	151.0	7.3	1.79	1.79	1.79	0.070																			
08/12/2020	Wed	42.8			41.8	0.0	29.8	12.0	0.0	0.15	0.41	0.61	68.7	170.4	7.4	1.79	1.79	1.79	0.070	4.0	99.2	0.9	99.6	0.1	0.1	0.05	0.20	0.27	0.07	0.37							
08/13/2020	Thu	46.1			47.7	0.0	25.6	22.2	0.0	0.11	0.40	0.10	68.7	170.2	7.6	1.79	1.79	1.79	0.090																			
08/14/2020	Fri	46.8			39.7	0.0	32.2	7.5	0.0	0.11	0.41	0.36	68.6	164.3	7.8	1.79	1.79	1.79	0.060																			
08/15/2020	Sat	49.2			34.1	0.0	2.8	31.3	0.0	0.14	0.49	0.66	67.2	148.0	7.3	1.79	1.79	1.79	0.100																			
08/16/2020	Sun	51.2			54.1	0.0	25.0	29.0	0.0	0.17	0.19	0.00	66.6	149.7	7.7	1.79	1.79	1.79	0.049																			
08/17/2020	Mon	45.9			48.4	0.0	33.3	15.2	0.0	0.15	0.19	0.00	66.7	141.8	7.7	1.79	1.79	1.79	0.049																			
08/18/2020	Tue	60.6	222	350	48.4	0.0	24.8	23.6	0.0	0.13	0.48	0.76	66.1	150.4	7.6	1.79	1.79	1.79	0.049																			
08/19/2020	Wed	44.6			49.8	0.0	34.8	15.0	0.0	0.12	0.19	0.00	65.9	150.8	7.5	1.79	1.79	1.79	0.070	7.0	98.0	0.9	99.6	0.1	0.1	0.05	0.09	0.12	0.03	0.27							
08/20/2020	Thu	48.7			59.4	0.0	29.7	29.8	0.0	0.15	0.42	0.46	69.3	147.2	7.7	1.79	1.79	1.79	0.100																			
08/21/2020	Fri	47.7			44.0	0.0	37.6	6.4	0.0	0.13	0.19	0.00	73.0	150.8	7.5	1.79	1.79	1.79	0.080																			
08/22/2020	Sat	51.0			41.7	0.0	2.7	39.0	0.0	0.15	0.42	0.56	72.8	157.3	7.5	1.79	1.79	1.79	0.080																			
08/23/2020	Sun	48.9			49.2	0.0	25.4	23.8	0.0	0.14	0.49	0.41	72.8	157.9	7.5	1.79	1.79	1.79	0.060																			
08/24/2020	Mon	47.5			48.8	0.0	35.0	13.8	0.0	0.13	0.19	0.00	72.0	151.0	7.4	1.79	1.79	1.79	0.049																			
08/25/2020	Tue	55.1	212	344	54.1	0.0	25.4	28.7	0.0	0.12	0.24	0.20	70.4	148.8	7.4	1.79	1.79	1.79	0.100																			
08/26/2020	Wed	43.8			50.0	0.0	33.1	16.9	0.0	0.14	0.26	0.36	69.6	142.8	7.5	1.79	1.79	1.79	0.080	12.0	96.5	0.9	99.6	0.1	0.1	0.05	0.28	1.26	0.98	1.36							
08/27/2020	Thu	46.8			45.9	0.0	25.3	20.6	0.0	0.12	0.19	0.00	68.9	133.2	7.4	1.79	1.79	1.79	0.080																			
08/28/2020	Fri	50.0			38.8	0.0	31.4	7.4	0.0	0.15	0.39	0.36	68.8	157.4	7.3	1.79	1.79	1.79	0.080																			
08/29/2020	Sat	47.3			33.8	0.0	2.7	31.2	0.0	0.16	0.19	0.00	67.2	147.3	7.6	1.79	1.79	1.79	0.080																			
08/30/2020	Sun	47.5			54.9	0.0	25.6	29.2	0.0	0.09	0.46	0.87	65.9	129.8	7.5	1.79	1.79	1.79	0.049																			
08/31/2020	Mon	45.5			48.2	0.0	29.6	18.7	0.0	0.08	0.47	0.76	65.6	139.9	7.5	1.79	1.79	1.79	0.049																			
TOTAL	1,479			1,474.7	0.0	752.4	722.2	0.0																													
MAX	60.6	232	500	92.3	0.0	37.6	66.3	0.0	0.17	0.49	0.87	74.4	175.0	7.8	1.79	1.79	1.79	0.100	12.0	99.2	0.9	99.6	0.1	0.1	0.05	0.28	1.26	0.98	1.36	4.9	1.2	972	163	297	0.39	0.19
AVG	47.7	221	365	47.6	0.0	24.3	23.3	0.0	0.10	0.35	0.27	69.6	154.8	7.5	1.79	1.79	1.79	0.067	6.8	98.1	0.9	99.6	0.1	0.1	0.05	0.17	0.54	0.37	0.65	4.9	1.2	972	163	297	0.39	0.19
MIN	42.3	212	267	29.7	0.0	2.5	6.4	0.0	0.03	0.14	0.00	65.6	129.8	7.3	1.79	1.79	1.79	0.049	4.0	96.5	0.9	99.6	0.1	0.1	0.05	0.09	0.12	0.03	0.27	4.9	1.2	972	163	297	0.39	0.19

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	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																
09/01/2020	Tue	55.5			53.7	0.0	25.4	28.3	0.0	0.04	0.44	0.15	68.6	143.1	7.5	1.79	1.79	1.79	0.070																			
09/02/2020	Wed	46.0	195	308	48.7	0.0	24.3	24.4	0.0	0.04	0.48	0.46	68.1	141.5	7.5	1.79	1.79	1.79	0.100	4.0	98.7	0.9	99.5	0.1	0.1	0.05	0.44	1.24	0.80	1.35	4.9	0.4	1,180	144	264	0.45	0.09
09/03/2020	Thu	46.3			55.3	0.0	25.6	29.7	0.0	0.08	0.35	0.25	67.8	140.5	7.4	1.79	1.79	1.79	0.060																			
09/04/2020	Fri	46.5			40.0	0.0	23.5	16.5	0.0	0.09	0.37	0.36	67.7	155.0	7.3	1.79	1.79	1.79	0.060																			
09/05/2020	Sat	49.6			37.9	0.0	2.7	35.2	0.0	0.09	0.49	0.76	66.5	152.5	7.5	1.79	1.79	1.79	0.060																			
09/06/2020	Sun	52.0			54.7	0.0	25.3	29.5	0.0	0.07	0.49	0.41	65.4	145.8	7.4	1.79	1.79	1.79	0.060																			
09/07/2020	Mon	48.6			47.2	0.0	30.5	16.7	0.0	0.04	0.18	0.00	66.3	147.0	7.4	1.79	1.79	1.79	0.210																			
09/08/2020	Tue	56.8	252	438	59.0	0.0	25.5	33.5	0.0	0.03	0.43	0.10	66.2	145.7	7.4	1.79	1.79	1.79	0.160																			
09/09/2020	Wed	44.8			49.5	0.0	30.1	19.5	0.0	0.03	0.46	0.61	66.2	149.9	7.2	1.79	1.79	1.79	0.100	4.0	99.1	0.9	99.6	0.1	0.1	0.05	0.09	1.70	1.61	1.81								
09/10/2020	Thu	41.6			56.3	0.0	25.6	30.6	0.0	0.03	0.26	0.15	66.0	157.6	7.4	1.79	1.79	1.79	0.070																			
09/11/2020	Fri	46.7			41.6	0.0	26.6	14.9	0.0	0.06	0.39	0.10	68.5	163.9	7.3	1.79	1.79	1.79	0.060																			
09/12/2020	Sat	48.1			38.5	0.0	3.2	35.3	0.0	0.10	0.40	0.36	69.7	160.5	7.4	1.79	1.79	1.79	0.049																			
09/13/2020	Sun	46.1			59.0	0.0	25.5	33.5	0.0	0.12	0.33	0.25	68.4	146.2	7.4	1.79	1.79	1.79	0.050																			
09/14/2020	Mon	43.9			36.0	0.0	14.9	21.1	0.0	0.12	0.41	0.56	67.8	160.4	7.4	1.79	1.79	1.79	0.049																			
09/15/2020	Tue	53.4	244	386	57.8	0.0	25.3	32.5	0.0	0.09	0.26	0.20	66.8	143.8	7.4	1.79	1.79	1.79	0.050																			
09/16/2020	Wed	40.7			22.1	0.0	15.2	6.9	0.0	0.10	0.19	0.00	67.8	130.5	7.4	1.79	1.79	1.79	0.049	2.0	99.5	0.9	99.6	0.1	0.0	0.05	0.24	1.01	0.77	1.11								
09/17/2020	Thu	45.1			65.1	0.0	25.5	39.6	0.0	0.10	0.19	0.00	67.2	105.1	7.7	1.79	1.79	1.79	0.050																			
09/18/2020	Fri	47.1			48.4	0.0	20.9	27.4	0.0	0.08	0.42	0.31	68.8	139.8	7.7	1.79	1.79	1.79	0.060																			
09/19/2020	Sat	48.1			35.6	0.0	2.4	33.2	0.0	0.06	0.43	0.61	69.2	154.6	7.5	1.79	1.79	1.79	0.050																			
09/20/2020	Sun	48.1			58.3	0.0	25.5	32.8	0.0	0.07	0.41	0.31	69.2	155.2	7.5	1.79	1.79	1.79	0.050																			
09/21/2020	Mon	42.7			45.2	0.0	26.4	18.7	0.0	0.09	0.16	0.00	69.8	160.9	7.5	1.79	1.79	1.79	0.049																			
09/22/2020	Tue	44.9			61.3	0.0	35.0	26.3	0.0	0.05	0.34	0.31	70.1	156.8	7.3	1.79	1.79	1.79	0.049																			
09/23/2020	Wed	40.6	194	232	61.6	0.0	56.0	5.6	0.0	0.03	0.21	0.61	69.4	127.1	7.6	1.79	1.79	1.79	0.080	3.0	98.7	0.9	99.5	0.1	0.0	0.05	0.20	0.64	0.44	0.74							
09/24/2020	Thu	55.6			48.6	0.0	26.4	22.1	0.0	0.05	0.12	0.00	69.1	130.2	7.5	1.79	1.79	1.79	0.050																			
09/25/2020	Fri	45.3			45.7	0.0	21.5	24.2	0.0	0.06	0.45	0.15	68.8	141.5	7.5	1.79	1.79	1.79	0.090																			
09/26/2020	Sat	47.4			44.6	0.0	3.3	41.4	0.0	0.08	0.35	0.31	68.8	156.7	7.4	1.79	1.79	1.79	0.015																			
09/27/2020	Sun	46.4			54.9	0.0	26.1	28.8	0.0	0.11	0.43	0.25	69.8	155.9	7.4	1.79	1.79	1.79	0.110																			
09/28/2020	Mon	45.6			38.6	0.0	17.0	21.6	0.0	0.10	0.38	0.10	71.5	158.5	6.8	1.79	1.79	1.79	0.050																			
09/29/2020	Tue	53.7			58.7	0.0	27.4	31.3	0.0	0.07	0.43	0.25	73.5	149.9	8.4	1.79	1.79	1.79	0.060																			
09/30/2020	Wed	44.2	232	447	49.9	0.0	17.2	32.7	0.0	0.04	0.50	0.25	71.7	130.3	7.6	1.79	1.79	1.79	0.070	10.0	97.8	0.9	99.6	0.1	0.1	0.05	0.25	0.38	0.13	0.52							
TOTAL	1,421			1,473.8	0.0	679.9	793.9	0.0																													
MAX	56.8	252	447	65.1	0.0	56.0	41.4	0.0	0.12	0.50	0.76	73.5	163.9	8.4	1.79	1.79	1.79	0.210	10.0	99.5	0.9	99.6	0.1	0.1	0.05	0.44	1.70	1.61	1.81	4.9	0.4	1,180	144	264	0.45	0.09
AVG	47.4	223	362	49.1	0.0	22.7	26.5	0.0	0.07	0.36	0.27	68.5	146.9	7.5	1.79	1.79	1.79	0.070	4.6	98.7	0.9	99.6	0.1	0.1	0.05	0.24	0.99	0.75	1.10	4.9	0.4	1,180	144	264	0.45	0.09
MIN	40.6	194	232	22.1	0.0	2.4	5.6	0.0	0.03	0.12	0.00	65.4	105.1	6.8	1.79	1.79	1.79	0.015	2.0	97.8	0.9	99.5	0.1	0.0	0.05	0.09	0.38	0.13	0.52	4.9	0.4	1,180	144	264	0.45	0.09

ATTACHMENT B: QUARTERLY EFF

>> DATE >>		1/14	4/13	7/8					
MCL	**Units**	**Q1**	**Q2**	**Q3**	**Q3**	**Q4**	**MAX**	**AVG**	**MIN**
A1 - Inorganic Chemicals									
Aluminum	1	mg/L	0.017	0.023	0.025			0.023	0.02166666667	0.017
Antimony	0.006	mg/L	0.0009	0.0009	0.0014			0.0009	0.001066666667	0.0009
Arsenic	0.01	mg/L	0.0014	0.0022	0.0016			0.0022	0.001733333333	0.0014
Asbestos	7	MFL	0	0	0			0	0	0
Barium	1	mg/L	0.016	0.012	0.018			0.016	0.01533333333	0.012
Beryllium	0.004	mg/L	0.00019	0.0019	0.00019			0.0019	0.00076	0.00019
Cadmium	0.005	mg/L	0.00019	0.0019	0.00019			0.0019	0.00076	0.00019
Chromium	0.05	mg/L	0.008	0.0025	0.0053			0.008	0.005266666667	0.0025
Cyanide	0.15	mg/L	0.0000049	0.0000049	0.0000049			0.0000049	0.0000049	0.0000049
Mercury	0.002	mg/L	0.00019	0.00019	0.00019			0.00019	0.00019	0.00019
Nickel	0.1	mg/L	0.004	0.0035	0.0046			0.004	0.004033333333	0.0035
Selenium	0.05	mg/L	0.0026	0.0085	0.0024			0.0085	0.0045	0.0024
Thallium	0.002	mg/L	0.0009	0.0009	0.0009			0.0009	0.0009	0.0009
Perchlorate	0.006	mg/L	0	0.004	0			0.004	0.001333333333	0
Fluoride	2	mg/L	0.6	1.02	1.47			1.02	1.03	0.6
A2 - Radioactivity										
Radium-226 + Radium-228	5	pCi/L	0.762	0.867	0.762			0.867	0.797	0.762
Gross Alpha Particle Activity[1]	15	pCi/L	1.18	1.35	2.93			1.35	1.82	1.18
Tritium	20,000	pCi/L	434	434	434			434	434	434
Strontium-90	8	pCi/L	0.546	0.546	0.665			0.546	0.5856666667	0.546
Gross Beta Particle Activity	50	pCi/L	1.03	0.639	1.84			1.03	1.169666667	0.639
Uranium	20	pCi/L	0.8	7.2	0.9			7.2	2.966666667	0.8
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	0.01249	0.00049	0.00049			0.01249	0.00449	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
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

>> DATE >>		1/14	4/13	7/8					
MCL	**Units**	**Q1**	**Q2**	**Q3**	**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	0.00019	0.00019	0.00019			0.00019	0.00019	0.00019
Benzo(a)pyrene	0.0002	mg/L	0.000049	0.000049	0.000049			0.000049	0.000049	0.000049
Carbofuran	0.018	mg/L	0.0019	0.0009	0.0009			0.0019	0.001233333333	0.0009
Chlordane	0.0001	mg/L	0.000089	0.000089	0.0009			0.0009	0.0003593333333	0.000089
2,4-D	0.07	mg/L	0.00019	0.00019	0.00019			0.00019	0.00019	0.00019
Dalapon	0.2	mg/L	0.0019	0.0019	0.00019			0.0019	0.00133	0.00019
1,2-Dibromo-3-chloropropane (DBCP)	0.0002	mg/L	0.000009	0.000009	0.000009			0.000009	0.000009	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	0.00019	0.00019	0.0019			0.0019	0.00076	0.00019
Diquat	0.02	mg/L	0.001884	0.001863	0			0.001884	0.001249	0
Endothall	0.1	mg/L	0.2216	0.2188	0			0.2216	0.1468	0
Endrin	0.002	mg/L	0.000009	0.000009	0.000009			0.000009	0.000009	0.000009
Ethylene Dibromide (EDB)	0.00005	mg/L	0.000019	0.000019	0.000019			0.000019	0.000019	0.000019
Glyphosate	0.7	mg/L	0.0498	0.03916	0			0.0498	0.02965333333	0
Heptachlor	0.00001	mg/L	0.000009	0.000009	0.000009			0.000009	0.000009	0.000009
Heptachlor Epoxide	0.00001	mg/L	0.000009	0.000009	0.000009			0.000009	0.000009	0.000009
Hexachlorobenzene	0.001	mg/L	0.000009	0.000009	0.000009			0.000009	0.000009	0.000009
Hexachlorocyclopentadiene	0.05	mg/L	0.000009	0.000009	0.000009			0.000009	0.000009	0.000009
lindane	0.0002	mg/L	0.000009	0.000009	0.000009			0.000009	0.000009	0.000009
Methoxychlor	0.03	mg/L	0.000049	0.000049	0.000049			0.000049	0.000049	0.000049
Molinate	0.02	mg/L	0.00019	0.00019	0.00019			0.00019	0.00019	0.00019
Oxamyl	0.05	mg/L	0.0019	0.0019	0.0019			0.0019	0.0019	0.0019
Pentachlorophenol	0.001	mg/L	0.0019	0.00019	0.00019			0.0019	0.00076	0.00019
Picloram	0.5	mg/L	0.0019	0.00019	0.00019			0.0019	0.00076	0.00019
Polychlorinated Biphenyls	0.0005	mg/L	0.000089	0.000089	0.00009			0.00009	0.00008933333333	0.000089
Simazine	0.004	mg/L	0.0019	0.00019	0.00019			0.0019	0.00076	0.00019
Thiobencarb	0.07	mg/L	0.0019	0.00019	0.00019			0.0019	0.00076	0.00019
Toxaphene	0.003	mg/L	0.000089	0.000089	0.00009			0.00009	0.00008933333333	0.000089
2,3,7,8-TCDD (Dioxin)	3x10-a	mg/L	2.48	2.24	1.32			2.48	2.013333333	1.32
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	33.8	51.7	21.7			51.7	35.73333333	21.7
Bromodichloromethane			4.9	17.5	7.8			17.5	10.06666667	4.9
Bromoform			0.49	7.1	0.049			7.1	2.546333333	0.049
Chloroform			28.5	6.8	10.7			28.5	15.33333333	6.8
Dibromochloromethane			0.49	20.3	2.8			20.3	7.863333333	0.49
Haloacetic acid (five) (HAA5)	0.06	ppb	94.4	247	40.0			247	127.1333333	40
Monochloroacetic acid		ppb	70.3	219	18.3			219	102.5333333	18.3
Dichloroacetic acid		ppb	18.6	7.9	11.9			18.6	12.8	7.9
Trichloroacetic acid		ppb	4.4	2.5	4.1			4.4	3.666666667	2.5
Monobromoacetic acid		ppb	0.9	4.3	2.3			4.3	2.5	0.9
Dibromoacetic acid		ppb	0.9	14.1	3.4			14.1	6.133333333	0.9

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)

Bromate 121	0.01	ppb	4.9	4.9	4.9			4.9	4.9	4.9
Chlorite131	1	ppb	19.9	19.9	19.9			19.9	19.9	19.9
A5 - Secondary MCLs										
Aluminum	0.2	mg/L	0.017	0.023	0.025			0.025	0.02166666667	0.017
Color	150	CU	31	21.2	26.8			31	26.33333333	21.2
Copper	1	mg/L	0.0014	0.0023	0.0009			0.0023	0.001533333333	0.0009
Corrosivity (Langelier Index)	Non		-0.11	-0.04	-0.23			-0.04	-0.1266666667	-0.23
Foam Agents (MBAS)	0.5	mg/L	0.08	0.19	0.28			0.28	0.1833333333	0.08
Iron	0.3	mg/L	0.019	0.000019	0.03			0.03	0.01633966667	0.000019
Manganese	0.05	mg/L	0.0033	0.0007	0.014			0.014	0.006	0.0007
Methyl-tert-butyl-ether (MTBE)	0.005	mg/L	0.01249	0.00049	0.00049			0.01249	0.00449	0.00049
Odor - Threshold	3	T.O.N.	0.9	0.9	0.9			0.9	0.9	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	0.013	0.0088	0.013			0.013	0.0116	0.0088

ATTACHMENT C: SEWAGE, SLUDGE, AND GREASE HAULING

	DATE	DAY	GAL	LOCATION	DESCRIPTION	REASON FOR HAUL	DESTINATION	HAULER
FIRST QUARTER	01/07/2020	Tue	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	01/23/2020	Thu	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	02/14/2020	Fri	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	02/18/2020	Tue	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	02/21/2020	Fri	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	02/24/2020	Mon	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	03/25/2020	Wed	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	QUARTER TOTAL		35,000					
SECOND QUARTER	04/30/2020	Thu	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	05/22/2020	Fri	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	06/18/2020	Thu	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	QUARTER TOTAL		15,000					

ATTACHMENT H: SEWAGE, SLUDGE, AND GREASE HAULING

THIRD QUARTER	07/16/2020	Thu	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	07/30/2020	Thu	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	08/13/2020	Thu	4,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	08/13/2020	Thu	1,000	VTX	Septic Sewage & Sludge	Maintenance Support	JWPCP	Ely Jr's Pumping
	08/27/2020	Thu	5,000	MBT	Waste Activated Sludge	Routine Solids Removal	JWPCP	Ely Jr's Pumping
	09/08/2020	Tue	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	09/10/2020	Thu	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	09/30/2020	Wed	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	QUARTER TOTAL		35,000					
FOURTH QUARTER								
	QUARTER TOTAL		0					

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-Jul-20 17:16
Subject: (MCC) Daily EFF

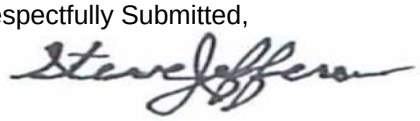
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0024-01) Collected: 01-Jul-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG00115	1.8	01-Jul-20	03-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG00115	1.8	01-Jul-20	03-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG00127	0.1	01-Jul-20	01-Jul-20	**7.3 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG00126	0.05	01-Jul-20	01-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 7/26/2020
Laboratory 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.#: 20600024

Customer: IPC - Integrated Performance Consultants, Inc.

Project: (MCC) EFF - Daily

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	07/01/20	1140	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.24 / 25.7°C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
1	1	1							

RECEIVED
JUL 01 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos (Water Care)	07/01/20	1240
Received by		[illegible]	7/1/20	1240
Relinquished by		[illegible]	7/1/20	1410
Received by				
Relinquished by				
Received by		JUL 01 2020		1441

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

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

Attention: Ric Vardel
Report Date: 21-Jul-20 16:04
Subject: (MCC) Weekly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0031-01) Collected: 01-Jul-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AG00224	1	02-Jul-20	02-Jul-20	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AG00630	0.10	06-Jul-20	06-Jul-20	**0.62 mg/l**	
Nitrate as N	EPA 353.2	AG00220	0.10	02-Jul-20	02-Jul-20	**2.16 mg/l**	
Nitrite as N	EPA 353.2	AG00220	0.02	02-Jul-20	02-Jul-20	**<0.02 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AG00627	0.50	06-Jul-20	07-Jul-20	**1.21 mg/l**	
EFF (Sample I.D.# : 20G0031-02) Collected: 30-Jun-20 By Carlos A. of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AG00223	2	02-Jul-20	07-Jul-20	**2 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 7/21/2020
Laboratory 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.#: 20G0031

Customer: IPC - Integrated Performance Consultants, Inc.		Project: (MCC) EFF - Weekly	
Address: 9297 Research Drive		Sampled by:	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	07/01/20	1140	1	TSS	Grab	AQ	1L P	4°C	7.26/25.1°C
	↑	↑	1	Ammonia, TKN	Grab	AQ	500 P	4°C	
			1	Nitrate, Nitrite	Grab	AQ	250 P	4°C	
	06/30/20	0000	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
JUL 01 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	07/01/20	12:10
Received by		[illegible]	7/1/20	1240
Relinquished by		[illegible]	7/1/20	1420
Received by				
Relinquished by				
Received for Lab by		JUL 01 2020		1507

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.

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San Fernando, CA 91340
(818) 639-5300 ph
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pat-chem.com

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

Attention: Ric Vardel
Report Date: 26-Jul-20 17:22
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0052-01) Collected: 02-Jul-20 By Victor Arikian of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG00225	1.8	02-Jul-20	04-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG00225	1.8	02-Jul-20	04-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG00306	0.1	02-Jul-20	02-Jul-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG00307	0.05	03-Jul-20	03-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 7/26/2020
Laboratory 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.#: 2060052

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618	Sampled by: VICTOR APIKIAN	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	7/2/20	12:15	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.5 / 12.1°C
	11	11	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by	VICTOR APIKIAN (IPC)	7/2/20	12:15
Received by	[illegible]	7/2/20	12:20
Relinquished by	[illegible]	7/2/20	14:50
Received by			
Relinquished by			
Received in lab by	JUL 02 2020		1352

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
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
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San Fernando, CA 91340
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(818) 639-5306 fx
pat-chem.com

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

Attention: Ric Vardel
Report Date: 26-Jul-20 17:26
Subject: (MCC) Daily EFF

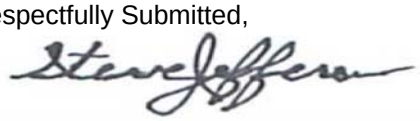
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0073-01) Collected: 03-Jul-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG00303	1.8	03-Jul-20	05-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG00303	1.8	03-Jul-20	05-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG00406	0.1	03-Jul-20	03-Jul-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG00309	0.05	03-Jul-20	03-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 7/26/2020
Laboratory 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.#: 20G0073

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) EFF - Daily
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	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	07/03/20	1150	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
1	1	1							

RECEIVED
JUL 04 2020
By JC

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Golan Kfir (IPC)	07/03/20	10:08
Received by		Jairo Monjivar	7/3/20	10:08
Relinquished by		Jairo Monjivar	7/3/20	11:30
Received by				
Relinquished by				
Received in lab by		Jordan Corkery	7/3/20	11:30

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: 21-Jul-20 15:59
Subject: (MCC) Monthly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0074-01) Collected: 03-Jul-20 By Carlos A. of IPC							
Physical Properties							
Total Dissolved Solids	SM 2540C	AG00629	5	06-Jul-20	07-Jul-20	**952 mg/l**	
Inorganic Constituents							
Chloride	EPA 300.0	AG00828	20.0	08-Jul-20	08-Jul-20	**303 mg/l**	
Sulfate as SO4	EPA 300.0	AG00828	10.0	08-Jul-20	08-Jul-20	**198 mg/l**	
Boron	EPA 200.7	AG00624	0.10	06-Jul-20	07-Jul-20	**0.25 mg/l**	
Phosphorus, Total as P	EPA 365.3	AG01221	0.02	12-Jul-20	12-Jul-20	**1.80 mg/l**	
Aggregate Organic Constituents							
MBAS	SM 5540 C	AG00506	0.05	05-Jul-20	05-Jul-20	**0.07 mg/l**	
Oil & Grease (HEM)	EPA 1664A	AG00918	5	09-Jul-20	11-Jul-20	**<5 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 7/21/2020
Laboratory 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.#: 20600374

Customer: IPC - Integrated Performance Consultants, Inc.		Project: (MCC) EFF - Monthly	
Address: 9297 Research Drive Irvine CA 92618		Sampled by:	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	07/03/20	1150	1	Sulfate, Chloride, TDS	Grab	AQ	1/2 Gal. P	4°C	
			1	MBAS	Grab	AQ	500 P	4°C	
			1	Oil & Grease	Grab	AQ	1L G	HC	
			1	Boron	Grab	AQ	250 P	HN	
			1	T.Phos	Grab	AQ	500 P	4°C	
Geotracker EDD:									
Logcode: IPCH									
Global ID: WDR100000359									

RECEIVED
JUL 04 2020
By JC

Signature	Print Name (Company)	Date	Time
Relinquished by	Carlos Alvarez (IPC)	07/03/20	1205
Received by	Jairo Mendivar	7/4/20	10:08
Relinquished by	Jairo Mendivar	7/4/20	1130
Received by			
Relinquished by			
Received in lab by	Jordan Corkery	7/4/20	11:30

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 - $CuSO_4$

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: 26-Jul-20 17:30
Subject: (MCC) Daily EFF

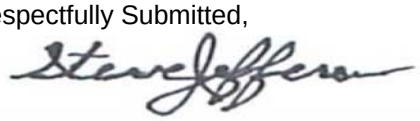
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0077-01) Collected: 04-Jul-20 By Mario Aguirre of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG00405	1.8	04-Jul-20	06-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG00405	1.8	04-Jul-20	06-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG00406	0.1	04-Jul-20	04-Jul-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG00407	0.05	04-Jul-20	04-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 7/26/2020
Laboratory 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.#: 20600077

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine CA 92618		Sampled by: Mario Aguirre	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	7/4/20	9:45	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	9:45	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUL 04 2020
By JC

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Mario Aguirre (IPC)	7/4/20	10:08
Received by	Jairo Menjivar	7/4/20	10:08
Relinquished by	Jairo Menjivar	7/4/20	1130
Received by			
Relinquished by			
Received in lab by	Jordan Corkery	7/4/20	1130

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: 26-Jul-20 17:33
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0080-01) Collected: 05-Jul-20 By Victor Arikian							
Microbiological							
Fecal Coliforms	SM 9221E	AG00505	1.8	05-Jul-20	07-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG00505	1.8	05-Jul-20	07-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG00507	0.1	05-Jul-20	05-Jul-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG00631	0.05	06-Jul-20	06-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 7/26/2020
Laboratory 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.#: 20G0080

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine CA 92618		Sampled by: VICTOR ARIKIAN	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	7/5/20	09:55	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUL 05 2020
By JC

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	VICTOR ARIKIAN (FPL)	7/5/20	09:55
Received by	Alex Walk Jr	7/5/20	12:00
Relinquished by	Alex Walk Jr	7/5/20	1400
Received by			
Relinquished by			
Received in lab by	Jordan Corkery	7/5/20	1400

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
(G) Grab
Comp

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

Bottle Type
(P) Plastic
G - Amber Glass
VOA - 40 ml Vial
(C) - 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 - $CuSO_4$

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(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-Jul-20 17:37
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0091-01) Collected: 06-Jul-20 By Victor Arikian							
Microbiological							
Fecal Coliforms	SM 9221E	AG00632	1.8	06-Jul-20	08-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG00632	1.8	06-Jul-20	08-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG00824	0.1	06-Jul-20	06-Jul-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG00724	0.05	07-Jul-20	07-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 7/26/2020
Laboratory 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.#: 2060091

Customer: IPC - Integrated Performance Consultants, Inc.

Project : **(MCC) EFF - Daily**

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	7/6/20	1210	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.65 / 27.9°C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

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JUL 06 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Kyle Vardel (IPC)	7/6/20	12:45
Received by		[illegible]	7/6/20	12:45
Relinquished by		[illegible]	7/6/20	13:20
Received by				
Relinquished by				
Received by		JUL 06 2020		1346

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.

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

Attention: Ric Vardel
Report Date: 26-Jul-20 17:40
Subject: (MCC) Daily EFF

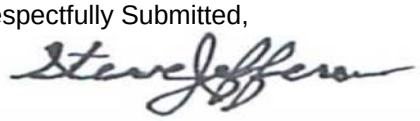
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0127-01) Collected: 07-Jul-20 By Golan Kfir of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG00725	1.8	07-Jul-20	09-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG00725	1.8	07-Jul-20	09-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG00824	0.1	07-Jul-20	07-Jul-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG00825	0.05	08-Jul-20	08-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 7/26/2020
Laboratory 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.#: 20G0127

Customer: IPC - Integrated Performance Consultants, Inc.
Address: 9297 Research Drive, Irvine, CA 92618
Project: (MCC) EFF - Daily
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	7/7/20	11:30	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

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JUL 07 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: GK	Golan IPC	7/7/20	13:10
Received by: Juan Vasquez	Juan Vasquez (PCL)	7/7/20	13:10
Relinquished by: Juan Vasquez	Juan Vasquez (PCL)	7/7/20	14:50
Received by:			
Relinquished by:			
Received by:	JUL 07 2020		1439

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.

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

Attention: Ric Vardel
Report Date: 21-Jul-20 16:13
Subject: (MCC) Weekly INF

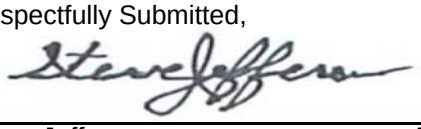
Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20G0165-01) Collected: 07-Jul-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AG00919	1	09-Jul-20	09-Jul-20	**244 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AG00920	2	09-Jul-20	14-Jul-20	**207 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 7/21/2020
Laboratory 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.#: 20 G0165

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) INF - Weekly
Address:	9297 Research Drive	Sampled by:	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
INF	07/07/20	0000	1	TSS	Comp	AQ	1L P	4°C	
"	"	"	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
JUL 08 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	07/08/20	2:30
Received by		Jairo Manj. (IPC)	7/8/20	2:30
Relinquished by		Jairo Manjivar	7/8/20	16:00
Received by				
Relinquished by				
Received in lab		JUL 08 2020		1548

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.

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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-Jul-20 17:43
Subject: (MCC) Daily EFF

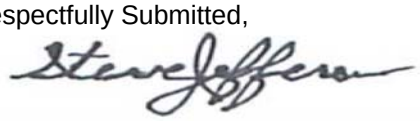
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0161-01) Collected: 08-Jul-20 By Golan Kfir of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG00823	1.8	08-Jul-20	10-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG00823	1.8	08-Jul-20	10-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG00922	0.1	08-Jul-20	08-Jul-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG00832	0.05	08-Jul-20	08-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 7/26/2020
Laboratory 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.#: 2060161

(MCC) EFF - Daily

Customer: IPC - Integrated Performance Consultants, Inc.
Address: 9297 Research Drive, Irvine, CA 92618
Project :
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	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	07/08/20	1030	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUL 08 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (CSL)	07/08/20	2:30
Received by		Jairo Manjivar	7/8/20	2:30
Relinquished by		Jairo Manjivar	7/8/20	16:00
Received by				1
Relinquished by				
Received by		JUL 08 2020		1533

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.

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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: 21-Sep-20 13:34
Subject: (MCC) Quarterly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0168-01) Collected: 08-Jul-20 By CA							
Physical Properties							
Total Alkalinity	SM 2320B	AG01531	1	15-Jul-20	15-Jul-20	**192 mg/l**	
Carbonate Alkalinity	SM 2320B	AG01531	1	15-Jul-20	15-Jul-20	**<1 mg/l**	
Bicarbonate Alkalinity	SM 2320B	AG01531	1	15-Jul-20	15-Jul-20	**192 mg/l**	
Hydroxide Alkalinity	SM 2320B	AG01531	1	15-Jul-20	15-Jul-20	**<1 mg/l**	
Color	SM 2120 C	AG00833	5.0	08-Jul-20	09-Jul-20	**26.8 CU**	
Specific Conductance (EC)	SM 2510B	AG01540	0.1	15-Jul-20	15-Jul-20	**1630 uS/cm**	
Odor	SM 2150B	AG00924	1	09-Jul-20	09-Jul-20	**<1 T.O.N.**	
Inorganic Constituents							
Silver	EPA 200.8	AG00818	0.2	09-Jul-20	16-Jul-20	**<0.2 ug/l**	
Aluminum	EPA 200.8	AG00818	5.0	09-Jul-20	16-Jul-20	**25 ug/l**	
Fluoride	EPA 300.0	AG01222	0.10	12-Jul-20	12-Jul-20	**1.47 mg/l**	
Arsenic	EPA 200.8	AG00818	0.2	09-Jul-20	16-Jul-20	**1.6 ug/l**	
Barium	EPA 200.8	AG00818	0.5	09-Jul-20	16-Jul-20	**18 ug/l**	
Beryllium	EPA 200.8	AG00818	0.2	09-Jul-20	16-Jul-20	**<0.2 ug/l**	
Calcium	EPA 200.7	AG00915	0.05	09-Jul-20	13-Jul-20	**59.5 mg/l**	
Cadmium	EPA 200.8	AG00818	0.2	09-Jul-20	16-Jul-20	**<0.2 ug/l**	
Chromium	EPA 200.8	AG00818	0.2	09-Jul-20	16-Jul-20	**5.3 ug/l**	
Copper	EPA 200.8	AG00818	0.2	09-Jul-20	16-Jul-20	**0.9 ug/l**	
Cyanide (total)	SM 4500-CN-E	AG00929	0.0050	09-Jul-20	10-Jul-20	**<0.0050 mg/l**	
Iron	EPA 200.7	AG00915	0.02	09-Jul-20	13-Jul-20	**0.03 mg/l**	
Mercury	EPA 245.1	AG00914	0.20	09-Jul-20	09-Jul-20	**<0.20 ug/l**	
Manganese	EPA 200.8	AG00818	0.5	09-Jul-20	16-Jul-20	**14 ug/l**	
Nickel	EPA 200.8	AG00818	0.5	09-Jul-20	16-Jul-20	**4.6 ug/l**	
Lead	EPA 200.8	AG00818	0.2	09-Jul-20	16-Jul-20	**<0.2 ug/l**	
pH	SM 4500H-B	AG00922	0.1	08-Jul-20	08-Jul-20	**7.7 pH Units**	A-01
Antimony	EPA 200.8	AG00818	1.0	09-Jul-20	16-Jul-20	**1.4 ug/l**	

Respectfully Submitted,

Steve Jefferson 9/21/2020
Laboratory 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: 21-Sep-20 13:34
Subject: (MCC) Quarterly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0168-01) Collected: 08-Jul-20 By CA							
Inorganic Constituents							
Selenium	EPA 200.8	AG00818	2.0	09-Jul-20	16-Jul-20	**2.4 ug/l**	
Thallium	EPA 200.8	AG00818	1.0	09-Jul-20	16-Jul-20	**<1.0 ug/l**	
Uranium	EPA 200.8	AG00818	0.7	09-Jul-20	16-Jul-20	**0.9 pCi/L**	
Zinc	EPA 200.8	AG00818	1.0	09-Jul-20	16-Jul-20	**13 ug/l**	
Aggregate Organic Constituents							
MBAS	SM 5540 C	AG00928	0.20	09-Jul-20	09-Jul-20	**0.28 mg/l**	
Volatile Organic Chemicals (VOCs)							
Benzene	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
Carbon tetrachloride	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
1,2-Dichlorobenzene	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
1,4-Dichlorobenzene	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
1,1-Dichloroethane	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
1,2-Dichloroethane	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
1,1-Dichloroethylene	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
cis-1,2-Dichloroethylene	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
trans-1,2-Dichloroethylene	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
Methylene chloride (Dichloromethane)	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
1,2-Dichloropropane	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
cis-1,3-Dichloropropene	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
trans-1,3-Dichloropropene	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
Ethylbenzene	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
Methyl tert-butyl ether	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
Chlorobenzene	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
Styrene	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
1,1,2,2-Tetrachloroethane	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
Tetrachloroethylene	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	

Respectfully Submitted,

Steve Jefferson 9/21/2020
Laboratory 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: 21-Sep-20 13:34
Subject: (MCC) Quarterly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0168-01) Collected: 08-Jul-20 By CA							
Volatile Organic Chemicals (VOCs)							
Toluene	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
1,2,4-Trichlorobenzene	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
1,1,1-Trichloroethane	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
1,1,2-Trichloroethane	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
Trichloroethylene	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
Trichlorofluoromethane (Freon 11)	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
Vinyl chloride	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
m,p-Xylene	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
o-Xylene	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
Bromodichloromethane	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**7.8 ug/l**	
Bromoform	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**<0.5 ug/l**	
Chloroform	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**10.7 ug/l**	
Dibromochloromethane	EPA 524.2	AG02029	0.5	20-Jul-20	21-Jul-20	**2.8 ug/l**	
Surrogate: Bromofluorobenzene	EPA 524.2	AG02029		20-Jul-20	21-Jul-20	*94.4 % (80-120)*	
Surrogate: Dibromofluoromethane	EPA 524.2	AG02029		20-Jul-20	21-Jul-20	*94.5 % (80-120)*	
Surrogate: Toluene-d8	EPA 524.2	AG02029		20-Jul-20	21-Jul-20	*102 % (80-120)*	
Disinfection Byproducts							
Monochloroacetic Acid	EPA 552.2	AG01421	1.0	20-Jul-20	03-Aug-20	**18.3 ug/l**	
Dichloroacetic Acid	EPA 552.2	AG01421	1.0	20-Jul-20	03-Aug-20	**11.9 ug/l**	
Trichloroacetic Acid	EPA 552.2	AG01421	1.0	20-Jul-20	03-Aug-20	**4.1 ug/l**	
Monobromoacetic Acid	EPA 552.2	AG01421	1.0	20-Jul-20	03-Aug-20	**2.3 ug/l**	
Dibromoacetic Acid	EPA 552.2	AG01421	1.0	20-Jul-20	03-Aug-20	**3.4 ug/l**	
Surrogate: 2,3-Dibromopropionic Acid	EPA 552.2	AG01421		20-Jul-20	03-Aug-20	*80.1 % (60-140)*	
Bromate	EPA 300.0	AG02407	5.0	24-Jul-20	24-Jul-20	**<5.0 ug/l**	
Chlorite	EPA 300.0	AG02407	20.0	24-Jul-20	24-Jul-20	**<20.0 ug/l**	
Haloacetic Acids (HAA5)	[CALC]	[CALC]	5.00	20-Jul-20	03-Aug-20	**40.0 ug/l**	

Respectfully Submitted,

Steve Jefferson 9/21/2020
Laboratory 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: 21-Sep-20 13:34
Subject: (MCC) Quarterly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0168-01) Collected: 08-Jul-20 By CA							
Disinfection Byproducts							
Total Trihalomethanes	[CALC]	[CALC]	2.00	20-Jul-20	21-Jul-20	**21.7 ug/l**	
Synthetic Organic Chemicals (SOCs)							
1,2-Dibromo-3-Chloropropane (DBCP)	EPA 504.1	AG02332	0.01	22-Jul-20	23-Jul-20	**<0.01 ug/l**	
Ethylene Dibromide (EDB)	EPA 504.1	AG02332	0.02	22-Jul-20	23-Jul-20	**<0.02 ug/l**	
Di(2-ethylhexyl)adipate	EPA 506	AG01426	2.0	14-Jul-20	21-Jul-20	**<2.0 ug/l**	
Di(2-ethylhexyl)phthalate	EPA 506	AG01426	2.0	14-Jul-20	21-Jul-20	**<2.0 ug/l**	
Surrogate: o-Terphenyl	EPA 506	AG01426		14-Jul-20	21-Jul-20	*74.2 % (50-120)*	
Alachlor	EPA 507	AG01622	0.2	16-Jul-20	24-Jul-20	**<0.2 ug/l**	
Atrazine	EPA 507	AG01622	0.2	16-Jul-20	24-Jul-20	**<0.2 ug/l**	
Molinate	EPA 507	AG01622	0.2	16-Jul-20	24-Jul-20	**<0.2 ug/l**	
Simazine	EPA 507	AG01622	0.2	16-Jul-20	24-Jul-20	**<0.2 ug/l**	
Thiobencarb (Bolero)	EPA 507	AG01622	0.2	16-Jul-20	24-Jul-20	**<0.2 ug/l**	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 507	AG01622		16-Jul-20	24-Jul-20	*71.3 % (40-120)*	
Chlordane	EPA 508	AG01425	0.1	14-Jul-20	21-Jul-20	**<0.1 ug/l**	
Endrin	EPA 508	AG01425	0.01	14-Jul-20	21-Jul-20	**<0.01 ug/l**	
Heptachlor	EPA 508	AG01425	0.01	14-Jul-20	21-Jul-20	**<0.01 ug/l**	
Heptachlor Epoxide	EPA 508	AG01425	0.01	14-Jul-20	21-Jul-20	**<0.01 ug/l**	
Hexachlorobenzene	EPA 508	AG01425	0.01	14-Jul-20	21-Jul-20	**<0.01 ug/l**	
Hexachlorocyclopentadiene	EPA 508	AG01425	0.01	14-Jul-20	21-Jul-20	**<0.01 ug/l**	
gamma-BHC (Lindane)	EPA 508	AG01425	0.01	14-Jul-20	21-Jul-20	**<0.01 ug/l**	
Methoxychlor	EPA 508	AG01425	0.05	14-Jul-20	21-Jul-20	**<0.05 ug/l**	
Aroclor 1016 (PCB)	EPA 508	AG01425	0.1	14-Jul-20	21-Jul-20	**<0.1 ug/l**	
Aroclor 1221 (PCB)	EPA 508	AG01425	0.1	14-Jul-20	21-Jul-20	**<0.1 ug/l**	
Aroclor 1232 (PCB)	EPA 508	AG01425	0.1	14-Jul-20	21-Jul-20	**<0.1 ug/l**	
Aroclor 1242 (PCB)	EPA 508	AG01425	0.1	14-Jul-20	21-Jul-20	**<0.1 ug/l**	
Aroclor 1248 (PCB)	EPA 508	AG01425	0.1	14-Jul-20	21-Jul-20	**<0.1 ug/l**	

Respectfully Submitted,

Steve Jefferson 9/21/2020
Laboratory Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
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(818) 639-5300 ph
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Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 21-Sep-20 13:34
Subject: (MCC) Quarterly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0168-01) Collected: 08-Jul-20 By CA							
Synthetic Organic Chemicals (SOCs)							
Aroclor 1254 (PCB)	EPA 508	AG01425	0.1	14-Jul-20	21-Jul-20	**<0.1 ug/l**	
Aroclor 1260 (PCB)	EPA 508	AG01425	0.1	14-Jul-20	21-Jul-20	**<0.1 ug/l**	
Total PCBs	EPA 508	AG01425	0.1	14-Jul-20	21-Jul-20	**<0.1 ug/l**	
Toxaphene	EPA 508	AG01425	0.1	14-Jul-20	21-Jul-20	**<0.1 ug/l**	
Surrogate: Tetrachloro-m-xylene	EPA 508	AG01425		14-Jul-20	21-Jul-20	*50.5 % (50-120)*	
Surrogate: Decachlorobiphenyl	EPA 508	AG01425		14-Jul-20	21-Jul-20	*42.0 % (25-120)*	
Bentazon	EPA 515.1	AG02018	0.2	20-Jul-20	06-Aug-20	**<0.2 ug/l**	
2,4-D	EPA 515.1	AG02018	0.2	20-Jul-20	06-Aug-20	**<0.2 ug/l**	
Dalapon	EPA 515.1	AG02018	2.0	20-Jul-20	06-Aug-20	**<2.0 ug/l**	
Dinoseb	EPA 515.1	AG02018	0.2	20-Jul-20	06-Aug-20	**<0.2 ug/l**	
Pentachlorophenol (PCP)	EPA 515.1	AG02018	0.2	20-Jul-20	06-Aug-20	**<0.2 ug/l**	
Picloram	EPA 515.1	AG02018	0.2	20-Jul-20	06-Aug-20	**<0.2 ug/l**	
2,4,5-TP	EPA 515.1	AG02018	0.2	20-Jul-20	06-Aug-20	**<0.2 ug/l**	
Surrogate: 2,4-DCAA	EPA 515.1	AG02018		20-Jul-20	06-Aug-20	*64.7 % (60-140)*	
Benzo (a) pyrene	EPA 550	AG01534	0.05	15-Jul-20	14-Aug-20	**<0.05 ug/l**	
Surrogate: Decafluorobiphenyl	EPA 550	AG01534		15-Jul-20	14-Aug-20	*60.5 % (45-120)*	
Carbofuran	EPA 632	AG01535	1.0	15-Jul-20	06-Aug-20	**<1.0 ug/l**	
Oxamyl	EPA 632	AG01535	2.0	15-Jul-20	06-Aug-20	**<2.0 ug/l**	
Surrogate: Atrazine	EPA 632	AG01535		15-Jul-20	06-Aug-20	*84.3 % (60-140)*	

Respectfully Submitted,

Steve Jefferson 9/21/2020
Laboratory 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: 21-Sep-20 13:34
Subject: (MCC) Quarterly EFF

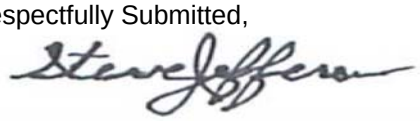
Project/P.O.#: (MCC) Quarterly EFF

Notes and Definitions

A-01 Langelier Index = -0.23, Non-Corrosive

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

Respectfully Submitted,



Steve Jefferson 9/21/2020
Laboratory Director

CERES Analytical Laboratory, Inc.
4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762

July 24, 2020 Ceres ID: 13719

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

The following report contains the results for the one aqueous sample received on July 16, 2020. This sample was analyzed for 2,3,7,8-TCDD by EPA 1613B. Routine turn-around time was provided for this work.

Continuing Calibration Verification (CCV) Requirements
All associated calibration verification standard(s) (CCV) met the acceptance criteria.

This work was authorized under Pat-Chem Laboratories' Project # 20G0168.

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
13719-001	IPC [MCC] EFF-Quarterly 20G0168-01	7/16/2020	7/8/2020	10:50

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**	**QC Batch #:** 2213	**Date Received:** NA
	Matrix: Aqueous	**Date Extracted:** 7/17/2020
Project ID: 20G0168	**Sample Size:** 1.000 L	**ZB-5MS Analysis:** 7/20/2020

Analyte	Conc. (pg/L)	MDL	RL	Qual.	Labeled Standards	% R	LCL-UCL (a)	Qualifiers
2,3,7,8-TCDD	DL= 1.32	0.772	5.00		13C-2378-TCDD	82.2	31-137	
					CRS			
					37Cl4-2378-TCDD	77.4	35-197	

DL - Signifies Non-Detect (ND) at 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 #: 2213	**Date Extracted:** 7/17/2020
	Matrix: Aqueous	**ZB-5MS Analysis:** 7/20/2020
Project ID: 20G0168	**Sample Size:** 1.000 L	

Analyte	Conc. (ng/mL)	Limits (a)	Labeled Standards	% Rec.	Limits (a)
2,3,7,8-TCDD	8.00	7.3-14.6	13C-2378-TCDD	81.9	25-141
			CRS		
			37Cl4-2378-TCDD	73.8	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: IPC [MCC] EFF-Quarterly 20G0168-01		
Project ID: 20G0168	**Ceres Sample ID:** 13719-001	**Date Received:** 7/16/2020
	QC Batch #: 2213	**Date Extracted:** 7/17/2020
Date Collected: 7/8/2020	**Matrix:** Aqueous	**ZB-5MS Analysis:** 7/20/2020
Time Collected: 10:50	**Sample Size:** 0.932 L	

Analyte	Conc. (pg/L)	MDL	RL	Qual.	Labeled Standards	% R	LCL-UCL (a)	Qualifiers
2,3,7,8-TCDD	DL= 1.80	0.772	5.36		13C-2378-TCDD	75.0	31-137	
					CRS			
					37Cl4-2378-TCDD	79.1	42-164	

DL - Signifies Non-Detect (ND) at 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

20G0168

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: 20G0168-01 Water	**Sampled: 08-Jul-20 10:50**			**IPC [MCC] EFF-Quarterly**
Dioxin 2,3,7,8-TCDD 1613	23-Jul-20 12:00	15-Jul-20 10:50		
Containers Supplied:				
WASTEWATER				

Released By	Date	Received By	Date
[signature]	JUL 13 2020 12:00pm	[signature]	7/16/20 12:05
Released By	Date	Received By	Date

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: 322012387
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: 07/13/2020
Analyzed: 07/21/2020

Proj: 20G0168

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)		
20G0168-01 322012387-0001	7/14/2020 01:30 PM	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: *07/08/2020 10:50 AM*

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

Analyst(s)
Feng Liang (1)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

Any questions please contact Jerry Drapala.

Initial report from: 07/24/2020 17:22:36

Sample collection and containers provided by the client, acceptable bottle blank level is defined as ≤0.01MFL>10um. ND=None Detected. This report relates only to those items tested. This report may not be reproduced, except in full, without written permission by LA Testing. Samples received in good condition unless otherwise noted.

Samples analyzed by LA Testing South Pasadena, CA CA ELAP 2283

OrderID: 322012387

SUBCONTRACT ORDER

Pat-Chem Laboratories

20G0168

#322012387

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:

LA Testing
520 Mission St,
South Pasadena, CA 91030
Phone :(800) 303-0047
Fax:

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 20G0168-01 Water	**Sampled: 08-Jul-20 10:50**			**IPC [MCC] EFF-Quarterly**
Asbestos Water	23-Jul-20 12:00	04-Jan-21 10:50		
Containers Supplied:				

Waste water

7.6°C

Released By	Date	Received By	Date
[signature]	JUL 09 2020 12:00pm	[signature]	07/13/2020 1600
Released By	Date	Received By	Date

Page 1 of 1

August 21, 2020

Pat-Chem Laboratories
ATTN:Steven Jefferson
1824 1st St
San Fernando, CA 91340

Lab ID : SP 2009161
Customer : 2-12670

Laboratory Report

Introduction: This report package contains total of 9 pages divided into 3 sections:

Case Narrative	(2 pages)	: An overview of the work performed at FGL.
Sample Results	(3 pages)	: Results for each sample submitted.
Quality Control	(4 pages)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID #	Matrix
20G0168-01	07/08/2020	07/13/2020	SP 2009161-001	WW

Sampling and Receipt Information: All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples arrived on ice. All samples were prepared and analyzed within the method specified hold time. 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 attached Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to the following tables:

Organic QC

547	07/20/2020:211339 All analysis quality controls are within established criteria.
	07/20/2020:208331 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573).
548.1	07/21/2020:211455 All analysis quality controls are within established criteria.
	07/14/2020:208088 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573).
549	07/14/2020:208090 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573).
549.2	07/21/2020:211460 All analysis quality controls are within established criteria.

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
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CA ELAP Certification No. 1563

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FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
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Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

August 21, 2020 Lab ID : SP 2009161
Pat-Chem Laboratories Customer : 2-12670

Radio QC

900.0	08/14/2020:212895 All analysis quality controls are within established criteria.
	07/23/2020:208461 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573), except: The following note applies to Gross Beta: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
903.0	08/05/2020:212292 All analysis quality controls are within established criteria.
	07/23/2020:208520 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573).
906.0	07/31/2020:211998 All analysis quality controls are within established criteria.
	07/15/2020:208105 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573).
Ra - 05	08/12/2020:212926 All analysis quality controls are within established criteria.
	08/06/2020:208868 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573).

Inorganic - Wet Chemistry QC

314.0	07/21/2020:211506 All analysis quality controls are within established criteria.
	07/21/2020:208439 All preparation quality controls are within established criteria (performed at 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. 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.

KD:CEA

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2020-08-21

August 21, 2020

Pat-Chem Laboratories
ATTN:Steven Jefferson
1824 1st St
San Fernando, CA 91340

Description : 20G0168-01
Project : 20G0168

Lab ID : SP 2009161-001
Customer ID : 2-12670

Sampled On : July 8, 2020-10:50
Sampled By : Not Available
Received On : July 13, 2020-15:10
Matrix : Waste Water

Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Wet Chemistry								
Perchlorate	ND	4	ug/L		314.0	07/21/20:208439	314.0	07/21/20:211506

ND=Non-Detected. PQL=Practical Quantitation Limit. * PQL adjusted for dilution.

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
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Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
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August 21, 2020

Pat-Chem Laboratories
ATTN:Steven Jefferson
1824 1st St
San Fernando, CA 91340

Description : 20G0168-01
Project : 20G0168

Lab ID : SP 2009161-001
Customer ID : 2-12670

Sampled On : July 8, 2020-10:50
Sampled By : Not Available
Received On : July 13, 2020-15:10
Matrix : Waste Water

Sample Result - Organic

Constituent	Result	PQL	Units	Note	Sample Preparation Method	Sample Preparation Date/ID	Sample Analysis Method	Sample Analysis Date/ID
EPA 547 Glyphosate	ND	20	ug/L		547	07/20/20:208331	547	07/20/20:211339
EPA 548.1 Endothall	ND	40	ug/L		548.1	07/14/20:208088	548.1	07/21/20:211455
EPA 549 Diquat	ND	4	ug/L		549	07/14/20:208090	549.2	07/21/20:211460

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

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August 21, 2020

Pat-Chem Laboratories
ATTN:Steven Jefferson
1824 1st St
San Fernando, CA 91340

Description : 20G0168-01
Project : 20G0168

Lab ID : SP 2009161-001
Customer ID : 2-12670

Sampled On : July 8, 2020-10:50
Sampled By : Not Available
Received On : July 13, 2020-15:10
Matrix : Waste Water

Sample Result - Radio

Constituent	Result ± Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Radio Chemistry								
Gross Alpha	8.65 ± 2.43	2.93	pCi/L	15/5	900.0	07/23/20-09:22 2P2008461	900.0	08/14/20-14:37 2A2012895
Gross Beta	4.99 ± 1.50	1.84	pCi/L	50	900.0	07/23/20-09:22 2P2008461	900.0	08/14/20-14:37 2A2012895
Total Alpha Radium (226)	0.101 ± 0.161	0.362	pCi/L	3	903.0	07/23/20-18:00 2P2008520	903.0	08/05/20-14:06 2A2012292
Tritium	118 ± 263	434	pCi/L	20000	906.0	07/15/20-08:30 2P2008105	906.0	07/31/20-09:55 2A2011998
Ra 228	0.000 ± 0.709	0.400	pCi/L	2	Ra - 05	08/06/20-18:00 2P2008868	Ra - 05	08/12/20-17:50 2A2012926

ND=Non-Detected. PQL=Practical Quantitation Limit. * PQL adjusted for dilution.

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.

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August 21, 2020 Lab ID : SP 2009161
Pat-Chem Laboratories Customer : 2-12670

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Perchlorate	314.0	07/21/20:208439MCA	Blank	ug/L		ND	<4	
			LCS	ug/L	25.00	111 %	85-115	
			MS	ug/L	25.00	88.6 %	80-120	
		(CC 2082224-001)	MSD	ug/L	25.00	91.5 %	80-120	
			MSRPD	ug/L	25.00	3.3%	≤15	
	314.0	07/21/20:211506MCA	CCB	ppb		1.69	2.0	
			CCV	ppb	10.00	107 %	85-115	
			CCB	ppb		0.00	2.0	
			CCV	ppb	20.00	108 %	85-115	

Definition

CCV	: Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
CCB	: Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
Blank	: Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
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 analyte. 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.
DQO	: Data Quality Objective - This is the criteria against which the quality control data is compared.

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August 21, 2020 Lab ID : SP 2009161
Pat-Chem Laboratories Customer : 2-12670

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic								
Glyphosate	547	07/20/20:208331SG	Blank	ug/L		ND	<20	
			LCS	ug/L	200.0	90.9 %	71-129	
			MS	ug/L	200.0	111 %	56-139	
		(CH 2074281-001)	MSD	ug/L	200.0	105 %	56-139	
			MSRPD	ug/L	200.0	6.1%	≤15	
	547	07/20/20:211339SG	CCV	ug/L	200.0	91.7 %	80-120	
			CCV	ug/L	100.0	113 %	80-120	
Endothall	548.1	07/14/20:208088SG	Blank	ug/L		ND	<40	
			LCS	ug/L	83.33	43.8 %	22-76	
			MS	ug/L	83.33	36.6 %	15-87	
		(VI 2045139-001)	MSD	ug/L	83.33	48.4 %	15-87	
			MSRPD	ug/L	83.33	9.8	≤40	
	548.1	07/21/20:211455SG	CCV	ug/L	2500	90.4 %	70-130	
			CCV	ug/L	1000	90.9 %	70-130	
Diquat Dibromide	549	07/14/20:208090SG	Blank	ug/L		ND	<4	
			LCS	ug/L	20.00	86.5 %	10-114	
			MS	ug/L	20.00	95.5 %	0-104	
		(VI 2045139-001)	MSD	ug/L	20.00	77.9 %	0-104	
			MSRPD	ug/L	20.00	3.5	≤4	
	549.2	07/21/20:211460SG	CCV	ug/L	1000	88.2 %	80-120	
			CCV	ug/L	500.0	88.4 %	80-120	

Definition

CCV	: Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
Blank	: Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
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 analyte. 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.
DQO	: Data Quality Objective - This is the criteria against which the quality control data is compared.

August 21, 2020 Lab ID : SP 2009161
Pat-Chem Laboratories Customer : 2-12670

Quality Control - Radio

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Radio								
Alpha	900.0	08/14/20:212895JCA	CCV	cpm	7599	41.7 %	35-47	
			CCB	cpm		0.100	0.16	
Beta	900.0	08/14/20:212895JCA	CCV	cpm	7599	93.6 %	83-94	
			CCB	cpm		0.4000	0.58	
Gross Alpha	900.0	07/23/20:208461jca	Blank	pCi/L		1.01	3	
			LCS	pCi/L	155.2	78.3 %	75-125	
			MS	pCi/L	310.4	66.4 %	60-140	
		(SP 2009462-001)	MSD	pCi/L	310.4	69.0 %	60-140	
			MSRPD	pCi/L	310.4	3.7%	≤30	
Gross Beta	900.0	07/23/20:208461jca	Blank	pCi/L		0.39	4	
			LCS	pCi/L	25.92	160 %	84-160	
			MS	pCi/L	51.83	72.8 %	80-130	435
		(SP 2009462-001)	MSD	pCi/L	51.83	73.7 %	80-130	435
			MSRPD	pCi/L	310.4	1.1%	≤30	
Alpha	903.0	08/05/20:212292JCA	CCV	cpm	7947	39.6 %	37-46	
			CCB	cpm		0.0600	0.16	
Total Alpha Radium (226)	903.0	07/23/20:208520emv	RgBlk	pCi/L		0.12	2	
			LCS	pCi/L	23.32	57.9 %	52-107	
			BS	pCi/L	23.32	55.3 %	43-111	
			BSD	pCi/L	23.32	55.6 %	43-111	
			BSRPD	pCi/L	23.32	0.5%	≤35.5	
Tritium	906.0	07/15/20:208105jca	Blank	pCi/L		60	300	
			LCS	pCi/L	1668	102 %	75-125	
			BS	pCi/L	1668	99.9 %	75-125	
			BSD	pCi/L	1668	102 %	75-125	
			BSRPD	pCi/L	1668	1.8%	≤25	
	906.0	07/31/20:211998JCA	CCV	pCi/L	24240	106 %	90-110	
			CCB	pCi/L		35	500	
Beta	Ra - 05	08/12/20:212926emv	CCV	cpm	7942	89.6 %	84-94	
			CCB	cpm		0.4000	0.48	
Ra 228	Ra - 05	08/06/20:208868emv	RgBlk	pCi/L		0.03	3	
			LRS	pCi/L	12.96	74.2 %	65-108	
			BS	pCi/L	12.96	94.1 %	75-125	
			BSD	pCi/L	12.96	90.6 %	75-125	
			BSRPD	pCi/L	12.96	0.45	≤3	

Definition

CCV	: Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
CCB	: Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
Blank	: Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
RgBlk	: Method Reagent Blank - Prepared to correct for any reagent contributions to sample result.
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 analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
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.
MSRPD	: MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
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.

Quality Control - Radio

Explanation	
435	: Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

wastewater

SUBCONTRACT ORDER

Pat-Chem Laboratories

20G0168

20091601

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: 20G0168-01	**Water**	**Sampled: 08-Jul-20 10:50**			**IPC [MCC] EFF-Quarterly**
Tritium (Sub out)		23-Jul-20 12:00	10-Jul-20 10:50		
Sr-90 (Strontium 90)		23-Jul-20 12:00	04-Jan-21 10:50		
Radium 226 228		23-Jul-20 12:00	04-Jan-21 10:50		
Perchlorate 314.0		23-Jul-20 12:00	05-Aug-20 10:50		
Gross beta SUB		23-Jul-20 12:00	04-Jan-21 10:50		
Gross alpha SUB		23-Jul-20 12:00	04-Jan-21 10:50		
549 Diquat		23-Jul-20 12:00	15-Jul-20 10:50		
548.1 Endothall		23-Jul-20 12:00	15-Jul-20 10:50		
547 Glyphosate		23-Jul-20 12:00	22-Jul-20 10:50		
Containers Supplied:					

Released By	Date	Received By	Date
Released By	Date	Received By	Date

JUL 10 2020 15:40 PM

7/13/20

Cooler → CWC 7/13/2020 1510

5 C rush

September 25, 2020

Pat-Chem Laboratories
ATTN:Steven Jefferson
1824 1st St
San Fernando, CA 91340

Subject: Subcontract Analysis for FGL Lab No. SP 2009161

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 Eurofins Eaton Analytical, Inc. (ELAP Certified Laboratory)

Thank you for using FGL Environmental.

Sincerely,

Cindy Aguirre Digitally signed by Cindy Aguirre
Title: Customer Service Rep
Date: 2020-09-25

Enclosure

eurofins | Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

A2LA ACCREDITED
CERTIFICATE #'s 5890.01 & 5890.02

Laboratory Report

for

FGL Environmental, Inc.
853 Corporation Street
Santa Paula, CA 93060
Attention: Cindy Aguirre
Fax: 805-525-4172

Date of Issue
09/24/2020

EUROFINS EATON ANALYTICAL, LLC

NELAP ACCREDITED TNI LABORATORY
Utah ELCP CA00006

Report: 888604
Project: DRINKING
Group: STRONTIUM 90

WV6M: Rosalynn Dang

Project Manager

* Accredited in accordance with TNI 2016 and ISO/IEC 17025:2017.
* Laboratory certifies that the test results meet all **TNI 2016 and ISO/IEC 17025:2017** requirements unless noted under the individual analysis.
* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
* Test results relate only to the sample(s) tested.
* Test results apply to the sample(s) as received, unless otherwise noted in the comments report (ISO/IEC 17025:2017).
* This report shall not be reproduced except in full, without the written approval of the laboratory.
* This report includes ISO/IEC 17025 and non-ISO 17025 accredited methods.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Montana**	Cert 0035
Arizona	AZ0778	**Nebraska**	Certified
Arkansas	Certified	**Nevada**	CA000062018
California	2813	**New Hampshire ***	2959
Colorado	Certified	**New Jersey ***	CA 008
Connecticut	PH-0107	**New Mexico**	Certified
Delaware	CA 006	**New York ***	11320
Florida *	E871024	**North Carolina**	06701
Georgia	947	**North Dakota**	R-009
Guam	18-005R	**Oregon ***	CA200003-005
Hawaii	Certified	**Pennsylvania ***	68-565
Idaho	Certified	**Puerto Rico**	Certified
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Indiana	C-CA-01	**South Carolina**	87016
Iowa - Asbestos	413	**South Dakota**	Certified
Kansas *	E-10268	**Tennessee**	TN02839
Kentucky	90107	**Texas ***	T104704230-18-15
Louisiana *	LA180000	**Utah (Primary AB) ***	CA00006
Maine	CA0006	**Vermont**	VT0114
Maryland	224	**Virginia ***	460260
Commonwealth of Northern Marianas Is.	MP0004	**Washington**	C838
Massachusetts	M-CA006	**EPA Region 5**	Certified
Michigan	9906	**Los Angeles County Sanitation Districts**	10264
Mississippi	Certified		

* NELAP/TNI Recognized Accreditation Bodies

Eurofins Eaton Analytical, LLC
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
T | 626-386-1100
F | 866-988-3757
www.EurofinsUS.com/Eaton

The tests listed below are accredited and meet the requirements of ISO/IEC 17025 as verified by the ANSI-ASQ National Accreditation Board/A2LA.
Refer to Certificate and scope of accreditation (5890) found at: https://www.eurofinsus.com/Eaton

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ-mental (Drinking Water)	Environ-mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
1,2,3-TCP (5 PPT & 0.5 PPT)	CA SRL 524M-TCP	x		x
1,4-Dioxane	EPA 522	x		x
2,3,7,8-TCDD	Modified EPA 1613B	x		x
Acrylamide	In House Method (2440)	x		x
Algal Toxins/Microcystin	In House Method (3570)			
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x		x
Asbestos	EPA 100.2	x	x	
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method (2447)	x		x
Carbamates	EPA 531.2	x		x
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x		x
COD	EPA 410.4 / SM 5220D		x	
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x		x
Chlorinated Acids	EPA 555	x		x
Chlorine Dioxide	SM 4500-CLO2 D Palin Test	x		x
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1		x	
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x		x
Cyanide, Amenable	SM 4500-CN G	x	x	
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method (2470)	x		x
Diquat and Paraquat	EPA 549.2	x		x
DBP/HAA	SM 6251B	x		x
Dissolved Oxygen	SM 4500-O G		x	x
DOC	SM 5310C	x		x
E. Coli	(MTF/EC+MUG)	x		x
E. Coli	CFR 141.21(f)(6)(i)	x		x
E. Coli	SM 9223		x	
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x		x
E. Coli (Enumeration)	SM 9223B	x		x
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x		x
EDTA and NTA	In House Method (2454)	x		x
Endothall	EPA 548.1	x		x
Endothall	In-house Method (2445)	x		x
Enterococci	SM 9230B	x	x	
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)		x	
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x		x
Fecal Coliform with Chlorine Present	SM 9221E		x	
Fecal Streptococci	SM 9230B	x	x	
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x		x
Glyphosate + AMPA	In House Method (3618)	x		x
Gross Alpha/Beta	EPA 900.0	x	x	x
Gross Alpha Coprecipitation	SM 7110 C	x	x	x
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method (2439)	x		x
Heterotrophic Bacteria	SM 9215 B	x		x
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x		x
Hexavalent Chromium	SM 3500-Cr B		x	
Hormones	EPA 539	x		x
Hydroxide as OH Calc.	SM 2330B	x		x
Kjeldahl Nitrogen	EPA 351.2		x	
Legionella	Legiolert	x		x
Mercury	EPA 200.8	x		x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA (2360)	x		x
Microcystin, Total	EPA 546	x		x
NDMA	EEA/Agilent 521.1 In house method (2425)	x		x
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x		x
Ortho Phosphate	EPA 365.1	x	x	x
Ortho Phosphorous	SM 4500P E	x		x
Oxyhalides Disinfection Byproducts	EPA 317.0	x		x
Perchlorate	EPA 331.0	x		x
Perchlorate (low and high)	EPA 314.0	x		x
Perfluorinated Alkyl Acids	EPA 537	x		x
Perfluorinated Polutant	In house Method (2434)	x		x
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method, based on EPA 532 (2448)	x		x
Pseudomonas	IDEXX Pseudalert (2461)	x		x
Radium-226	GA Institute of Tech	x		x
Radium-228	GA Institute of Tech	x		x
Radon-222	SM 7500RN	x		x
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D		x	
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4		x	
Semi-VOC	EPA 525.2	x		x
Silica	SM 4500-Si D	x	x	
Silica	SM 4500-SiO2 C	x	x	
Sulfide	SM 4500-$S^{=}$ D		x	
Sulfite	SM 4500-SO^{3}B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x		x
Total Coliform (P/A)	SM 9221 A, B	x		x
Total Coliform (Enumeration)	SM 9221 A, B, C	x		x
Total Coliform / E. coli	Colisure SM 9223	x		x
Total Coliform	SM 9221B		x	
Total Coliform with Chlorine Present	SM 9221B		x	
Total Coliform / E.coli (P/A and Enumeration)	SM 9223	x		x
TOC	SM 5310C	x	x	x
TOX	SM 5320B		x	
Total Phenols	EPA 420.1		x	
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P E		x	
Triazine Pesticides & Degradates	In House (3617)	x		x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x	x	
Uranium by ICP/MS	EPA 200.8	x		x
UV 254	SM 5910B	x		
VOC	EPA 524.2	x		x
VOC	In House Method (2411)	x		x
Yeast and Mold	SM 9610	x		x
Field Sampling	N/A			

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Acknowledgement of Samples Received

Addr: **FGL Environmental, Inc.**
853 Corporation Street
Santa Paula, CA 93060

Attn: Cindy Aguirre
Phone: 805-392-2012

Client ID: FGL
Folder #: 888604
Project: DRINKING
Sample Group: STRONTIUM 90

Project Manager: Rosalynn Dang
Phone: 626-386-1250
PO #: SP 2009161 - (2-12670)

The following samples were received from you on **August 21, 2020** at **1045**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

Sample #	Sample ID	Sample Date
202008210064	20G0168-01	07/08/2020 1050
	@SR90EDD	

Test Description

@SR90EDD -- Strontium-90 (sub)

Subcontract to
Eurofins Eaton Analytical, Inc.

088604

Client: **Fruit Growers Laboratory, Inc.**
Address: FGL Environmental, Inc.
853 Corporation St.
Santa Paula, CA 93060-3005

Phone: Fax:

Contact Person:

Project Name: **SP 2009161 - (2-12670)**

Purchase Order Number:

Sampler(s) Not Available

Compositor Setup Date: ___/___/___ Time: ___/___

Lab Number:

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)	Type of Sample **SEE REVERSE SIDE**	Potable(P) Non-Potable(NP) Ag Water(AgW)	Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)	Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)	Sub Contracted-Strontium 90 250 ml(AGT)	Map Ref.
1	20G0168-01	07/08/20	10:50	G	WW				1	

Remarks:

Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:
[signature]	8/20/20	17:30						
Received By:	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**
GLS	2	1	[signature]	8/21/20	10:45			

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INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number: 200604

SAMPLE TEMP RECEIVED:

Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not.

SAMPLES REC'D DAY OF COLLECTION? Yes / No

IR Gun ID = 6184 (Observation= 23.3 °C) (Corr.Factor 0.2 °C) (Final = 23.1 °C)

TYPE OF ICE: Real ____ Synthetic ____ No Ice ✓ CONDITION OF ICE: Frozen ____ Partially Frozen ____ Thawed ____ N/A ✓

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: C-C

Compliance Acceptance Criteria:

1) **Chemistry:** >0, ≤ 6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)

2) **Microbiology, Distribution:** < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)

3) **Microbiology, Surface Water:** < 10°C (if received after 2 hours of sample collection)

If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants

1 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)	2 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)
3 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)	4 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)

4 **Dioxin (1613 or 2,3,7,8 TCDD):** must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)

5) **pH Check.** Manufacturer: ____ Lot Number: ____ pH strip type: 0 - 14 or ____ Expiration Date ____ Results: ____

6) **Chlorine check.** Manufacturer: Sansafe. Lot No.: ____ Expiration Date: ____ Results ____

7) **VOA Headspace:** No Samples with Headspace: ☐ Samples with Headspace (see below): ☐

Headspace Documentation (use additional VOC Internal COFC for additional bottles)

Exempt from headspace concerns: Methods 515.4, HAA(6251,552), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients:

Samp ID	Bottle #	None/<6 mm	>6mm

Samp ID	Bottle #	None/<6 mm	>6mm

Samp ID	Bottle #	None/<6 mm	>6mm

Samp ID	Bottle #	None/<6 mm	>6mm

Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors): ____

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:			Eurofins Eaton Analytical	8/21/20	10:45

eurofins | Eaton Analytical

Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Comments

Report: 888604
Project: DRINKING
Group: STRONTIUM 90

FGL Environmental, Inc.
Cindy Aguirre
853 Corporation Street
Santa Paula, CA 93060

Folder Comments

Analytical results for Strontium are submitted by Eurofins TestAmerica, Earth City, MO CA
ELAP# 2886 exp 6-30-2021

The Comments Report may be blank if there are no comments for this report.

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Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Hits

Report: 888604
Project: DRINKING
Group: STRONTIUM 90

FGL Environmental, Inc.
Cindy Aguirre
853 Corporation Street
Santa Paula, CA 93060

Samples Received on:
08/21/2020 1045

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL

SUMMARY OF POSITIVE DATA ONLY

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Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Data

Report: 888604
Project: DRINKING
Group: STRONTIUM 90

FGL Environmental, Inc.
Cindy Aguirre
853 Corporation Street
Santa Paula, CA 93060

Samples Received on:
08/21/2020 1045

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
20G0168-01 (202008210064)							**Sampled on 07/08/2020 1050**		
	EPA 905.0 - Strontium-90 (sub)								
	09/10/20 15:54			(EPA 905.0)	Strontium 90 (sub)	<3	pCi/L	3	1
	09/10/20 15:54			(EPA 905.0)	Strontium-90, MDA	0.665	pCi/L		1
	09/10/20 15:54			(EPA 905.0)	Strontium-90, Two Sigma Error	0.446	pCi/L		1

Rounding on totals after summation.
(c) - indicates calculated results. Analysis is a calculated result. Reported results are not rounded until the final step before reporting. Therefore methods that use a test result with further calculation may have slight differences in final result than the component analyses.

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

Laboratory Job ID: 160-39251-1
Laboratory Sample Delivery Group: 888604
Client Project/Site: Radiologicals in Drinking Water

For:
Eurofins Eaton Analytical
750 Royal Oaks Drive
Suite 100
Monrovia, California 91016

Attn: Subcontract Data

MichaKorrinhizer

Authorized for release by:
9/21/2020 3:58:14 PM
Micha Korrinhizer, Project Management Assistant II
(314)298-8566
Micha.Korrinhizer@Eurofinset.com

Designee for

Rhonda Ridenhower, Client Service Manager
(314)298-8566
Rhonda.Ridenhower@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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.

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QC Association Summary 12
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Job ID: 160-39251-1

Laboratory: Eurofins TestAmerica, St. Louis

Narrative

CASE NARRATIVE

Client: Eurofins Eaton Analytical

Project: Radiologicals in Drinking Water

Report Number: 160-39251-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Eurofins TestAmerica, St. Louis attests to the validity of the laboratory data generated by Eurofins TestAmerica facilities reported herein. All analyses performed by Eurofins TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client.

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

Manual Integrations were performed only when necessary and are in compliance with the laboratory's standard operating procedure. Detailed information can be found in the raw data section of the level IV report.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

RECEIPT

The samples were received on 08/25/2020; the samples arrived in good condition, properly preserved. The temperature of the coolers at receipt was 21.3° C.

Receipt Exceptions

Job ID: 160-39251-1 (Continued)

Laboratory: Eurofins TestAmerica, St. Louis (Continued)

The reference method requires samples to be preserved to a pH of <2 SU. The following samples were received with insufficient preservation at a pH of >7 SU: 202008210064 (160-39251-1). The sample was preserved to the appropriate pH in the laboratory.

STRONTIUM-90 (GFPC)

Sample 202008210064 (160-39251-1) was analyzed for Strontium-90 (GFPC) in accordance with EPA 905.0. The samples were prepared on 09/01/2020 and analyzed on 09/10/2020.

Insufficient sample volume was available to perform a sample duplicate for the following samples in batch 160-481326: 202008210064 (160-39251-1). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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

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Submittal Form

Date: 8/24/2020

*REPORTING REQUIRMENTS: *Do Not Combine Reports with any other samples submitted under different Folder Numbers!*
Report & Invoice must have the Folder # **888604** Job # **1000014**

Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature.

Ship To:
`TestAmerica St Louis
13715 Rider Trail North

Earth City, MO 63045

Phone: 314-298-8566 Fax: 314-298-8757

Reports: Jackie Contreras Sub-Contracting Administrator
EMAIL TO: us20_subcontract@eurofinsus.com
Eurofins Eaton Analytical, LLC 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016
Phone (626) 386-1165 Fax (626) 386-1122
Invoices to: Eurofins Eaton Analytical, LLC
Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605

Provide in each Report the Specified StateCertification # and Exp Date for requested tests + matrix.

Samples from: **CALIFORNIA**

Folder #: 888604 **Report Due:** 09/21/2020

Sample ID	Client Sample ID for reference onl	Sample Date & Time	Matrix	PWS Systemcode	PWSID
202008210064	20G0168-01	07/08/20 1050	DW		JLS

Sample type: **Sample Event:** **Facility ID:** **Sample Point ID:** **Static ID:**

Method	Prep Method	Analysis Requested
EPA 905.0		Strontium-90 (sub)

160-39251 Chain of Custody

Relinquished by: _____ Sample Control FMELCHAUCZ Date 8-24-20 Time 1038

Received by: FED EX Date _____ Time _____

Relinquished by: FED EX Sample Control Date _____ Time _____

Received by: _____ Date 8/25/2020 Time 0950

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

Login Sample Receipt Checklist

Client: Eurofins Eaton Analytical

Job Number: 160-39251-1
SDG Number: 888604

Login Number: 39251
List Number: 1
Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
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.	False	Containers received unpreserved.
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	

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

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

Method Summary

Client: Eurofins Eaton Analytical
Project/Site: Radiologicals in Drinking Water

Job ID: 160-39251-1
SDG: 888604

Method	Method Description	Protocol	Laboratory
905	Strontium-90 (GFPC)	EPA	TAL SL
PrecSep-7	Preparation, Precipitate Separation (7-Day In-Growth)	None	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

None = None

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Eurofins Eaton Analytical
Project/Site: Radiologicals in Drinking Water

Job ID: 160-39251-1
SDG: 888604

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
160-39251-1	202008210064	Water	07/08/20 10:50	08/25/20 09:50	

Client: Eurofins Eaton Analytical
Project/Site: Radiologicals in Drinking Water

Job ID: 160-39251-1
SDG: 888604

Client Sample ID: 202008210064
Date Collected: 07/08/20 10:50
Date Received: 08/25/20 09:50

Lab Sample ID: 160-39251-1
Matrix: Water

Method: 905 - Strontium-90 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Strontium-90	0.796		0.441	0.446	3.00	0.665	pCi/L	09/01/20 15:58	09/10/20 15:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Sr Carrier	*79.8*		*40 - 110*	*09/01/20 15:58*	*09/10/20 15:54*	*1*
Y Carrier	*85.6*		*40 - 110*	*09/01/20 15:58*	*09/10/20 15:54*	*1*

Method: 905 - Strontium-90 (GFPC)

Lab Sample ID: MB 160-481326/20-A
Matrix: Water
Analysis Batch: 482102

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481326

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Strontium-90	-0.1608	U	0.312	0.312	3.00	0.596	pCi/L	09/01/20 15:58	09/10/20 15:57	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Sr Carrier	*77.5*		*40 - 110*	*09/01/20 15:58*	*09/10/20 15:57*	*1*
Y Carrier	*89.0*		*40 - 110*	*09/01/20 15:58*	*09/10/20 15:57*	*1*

Lab Sample ID: LCS 160-481326/1-A
Matrix: Water
Analysis Batch: 482102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481326

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Strontium-90			15.6	17.45		1.83	3.00	0.621	pCi/L	112	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Sr Carrier	*84.1*		*40 - 110*
Y Carrier	*85.6*		*40 - 110*

Lab Sample ID: LCSD 160-481326/2-A
Matrix: Water
Analysis Batch: 482102

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 481326

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Strontium-90			15.6	16.04		1.73	3.00	0.654	pCi/L	103	75 - 125	0.39	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Sr Carrier	*79.1*		*40 - 110*
Y Carrier	*88.2*		*40 - 110*

QC Association Summary

Client: Eurofins Eaton Analytical
Project/Site: Radiologicals in Drinking Water

Job ID: 160-39251-1
SDG: 888604

Rad

Prep Batch: 481326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-39251-1	202008210064	Total/NA	Water	PrecSep-7	
MB 160-481326/20-A	Method Blank	Total/NA	Water	PrecSep-7	
LCS 160-481326/1-A	Lab Control Sample	Total/NA	Water	PrecSep-7	
LCSD 160-481326/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-7	

Tracer/Carrier Summary

Client: Eurofins Eaton Analytical
Project/Site: Radiologicals in Drinking Water

Job ID: 160-39251-1
SDG: 888604

Method: 905 - Strontium-90 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
		Sr	Y
Lab Sample ID	Client Sample ID	(40-110)	(40-110)
160-39251-1	202008210064	79.8	85.6
LCS 160-481326/1-A	Lab Control Sample	84.1	85.6
LCSD 160-481326/2-A	Lab Control Sample Dup	79.1	88.2
MB 160-481326/20-A	Method Blank	77.5	89.0

Tracer/Carrier Legend

Sr = Sr Carrier
Y = Y Carrier

wastewater

SUBCONTRACT ORDER

Pat-Chem Laboratories

20G0168

20091601

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: 20G0168-01	**Water**	**Sampled: 08-Jul-20 10:50**			**IPC [MCC] EFF-Quarterly**
Tritium (Sub out)		23-Jul-20 12:00	10-Jul-20 10:50		
Sr-90 (Strontium 90)		23-Jul-20 12:00	04-Jan-21 10:50		
Radium 226 228		23-Jul-20 12:00	04-Jan-21 10:50		
Perchlorate 314.0		23-Jul-20 12:00	05-Aug-20 10:50		
Gross beta SUB		23-Jul-20 12:00	04-Jan-21 10:50		
Gross alpha SUB		23-Jul-20 12:00	04-Jan-21 10:50		
549 Diquat		23-Jul-20 12:00	15-Jul-20 10:50		
548.1 Endothall		23-Jul-20 12:00	15-Jul-20 10:50		
547 Glyphosate		23-Jul-20 12:00	22-Jul-20 10:50		
Containers Supplied:					

Released By	Date	Received By	Date
Released By	Date	Received By	Date

JUL 10 2020 15:40 PM

7/13/20

Cooler → CWC 7/13/2020 1510

5 C rush

Subcontract to
Eurofins Eaton Analytical, Inc.

Map Ref.

Client: **Fruit Growers Laboratory, Inc.**
Address: FGL Environmental, Inc.
853 Corporation St.
Santa Paula, CA 93060-3005

Phone: Fax:

Contact Person:

Project Name: **SP 2009161 - (2-12670)**

Purchase Order Number:

Sampler(s) Not Available

Compositor Setup Date: ___/___/___ Time: ___/___

Lab Number:

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)	Type of Sample **SEE REVERSE SIDE**	Potable(P) Non-Potable(NP) Ag Water(AgW)	Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)	Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)	Sub Contracted-Strontium 90 250 ml(AGT)									
1	20G0168-01	07/08/20	10:50	G	WW				1									

Remarks:

Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:
Received By:	Date:	Time:	Received By:	Date:	Time:	Received By:	Date:	Time:

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.#: 20G0168

Customer: IPC - Integrated Performance Consultants, Inc.
Project : (MCC) EFF - Quarterly
Page 1 of 2

Address: 9297 Research Drive
Irvine CA 92618
Sampled by: C.D.
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	07/08/20	1050	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	4°C	
			7	507, 515, 632, 508, 550, 506, 552	Grab	AQ	1L G	4°C	
			1	547 Glyphosate **(Sub-Out)**	Grab	AQ	1L G	4°C	
			1	548 Endothall **(Sub-Out)**	Grab	AQ	1L G	4°C	
			1	549 Diquat **(Sub-Out)**	Grab	AQ	1L G	4°C	
			1	Dioxin - 2,3,7,8 TCDD **(Sub-Out)**	Grab	AQ	1L G	4°C	

RECEIVED
JUL 08 2020

	Signature	Print Name (Company)	Date	Time
Relinquished by	C.D.	Carlos Alvarez (IPC)	07/08/20	2:30
Received by		Jairo Mena (Mena Inv)	7/8/20	2:30
Relinquished by		Jairo Mena (Mena Inv)	7/8/20	1600
Received by				
Relinquished by				
Received by		JUL 08 2020		1559

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: 21-Jul-20 16:07
Subject: (MCC) Weekly EFF

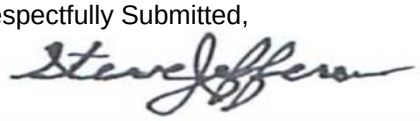
Project/P.O.#: (MCC) Weekly EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0166-01) Collected: 08-Jul-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AG00919	1	09-Jul-20	09-Jul-20	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AG00931	0.10	09-Jul-20	10-Jul-20	**<0.10 mg/l**	
Nitrate as N	EPA 353.2	AG00917	0.02	09-Jul-20	09-Jul-20	**0.38 mg/l**	
Nitrite as N	EPA 353.2	AG00917	0.02	09-Jul-20	09-Jul-20	**0.02 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AG01323	0.10	13-Jul-20	13-Jul-20	**1.14 mg/l**	
EFF (Sample I.D.# : 20G0166-02) Collected: 07-Jul-20 By Carlos A. of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AG00920	2	09-Jul-20	14-Jul-20	**4 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 7/21/2020
Laboratory 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.#: 2060164

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) EFF - Weekly
Address:	9297 Research Drive	Sampled by:	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	07/08/20	1030	1	TSS	Grab	AQ	1L P	4°C	
	"	"	1	Ammonia, TKN	Grab	AQ	500 P	4°C	
	"	"	1	Nitrate, Nitrite	Grab	AQ	250 P	4°C	
	07/07/20	0000	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
JUL 08 2020
By

~~Geotracker EDD:~~
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	07/08/20	2:30
Received by		Jairo Meraz	7/8/20	2:30
Relinquished by		Jairo Meraz	7/8/20	1600
Received by				
Relinquished by				
Received by		JUL 08 2020		1552

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: 26-Jul-20 17:46
Subject: (MCC) Daily EFF

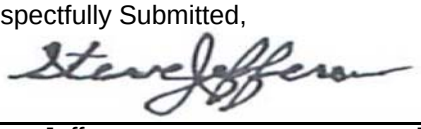
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0184-01) Collected: 09-Jul-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG00921	1.8	09-Jul-20	11-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG00921	1.8	09-Jul-20	11-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG01010	0.1	09-Jul-20	09-Jul-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG00932	0.05	09-Jul-20	09-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 7/26/2020
Laboratory 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.#: 20G0184

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618		Sampled by: C. Alvarez	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	07/09/20	1110	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.56 / 25.0°C
	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUL 09 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Alvarez	Carlos Alvarez (IPC)	07/09/20	12:10
Received by		Hermann Chrisostomo (Pat-Chem)	7/9/20	12:10
Relinquished by		Hermann Chrisostomo (Pat-Chem)	7/9/20	14:40
Received by				
Relinquished by				
Received by	A. Valdez Jr.	JUL 09 2020		1453

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
(G) 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
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-Jul-20 17:51
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0206-01) Collected: 10-Jul-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG01008	1.8	10-Jul-20	12-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG01008	1.8	10-Jul-20	12-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG01106	0.1	10-Jul-20	10-Jul-20	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG01105	0.05	11-Jul-20	11-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 7/26/2020
Laboratory 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.#: 20G0206

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618		**Sampled by:**	**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	07/10/20	11:40	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.84 24.5°C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUL 10 2020
BY

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	07/10/20	11:50
Received by			7/10/20	11:50
Relinquished by			7/10/20	12:40
Received by				
Relinquished by				
Received in lab by		JUL 10 2020		1349

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
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: 27-Jul-20 12:57
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0227-01) Collected: 11-Jul-20 By Mario Aguirre							
Microbiological							
Fecal Coliforms	SM 9221E	AG01104	1.8	11-Jul-20	14-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG01104	1.8	11-Jul-20	14-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG01227	0.1	11-Jul-20	11-Jul-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG01220	0.05	12-Jul-20	12-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 7/27/2020
Laboratory 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.#: 200277

(MCC) EFF - Daily

Customer: IPC - Integrated Performance Consultants, Inc.		Project :	
Address: 9297 Research Drive, Irvine, CA 92618		Sampled by: Maria Aguirre	P.O. #:
		Report Attention: Ric Vardell / 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	7/11/20	9:48	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"		1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Maria Aguirre (IPC)	7/11/20	11:30
Received by		Jairo Menjivar	7/11/20	11:30
Relinquished by		Jairo Menjivar	7/11/20	12:30
Received by				
Relinquished by				
Received in lab by		Jordan Corkey	7/11/20	12:30

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 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	

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: 27-Jul-20 13:01
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0232-01) Collected: 12-Jul-20 By Mario Aguirre							
Microbiological							
Fecal Coliforms	SM 9221E	AG01219	1.8	12-Jul-20	14-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG01219	1.8	12-Jul-20	14-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG01227	0.1	12-Jul-20	12-Jul-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG01228	0.05	12-Jul-20	12-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 7/27/2020
Laboratory 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.#: 2060232

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Daily	
Address: 9297 Research Drive Irvine CA 92618		**Sampled by:** Ben Jaskov	**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	07/12/2020	09:54	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
" "	" "	" "	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD: Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by	Ben Jaskov IPC	07/12/2020	09:58
Received by	Alex Walker Jr.	7/12/20	11:30
Relinquished by	Alex Walker Jr.	7/12/20	13 30
Received by			
Relinquished by			
Received in lab by	RM PCL	7/12/2020	1358

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	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: 27-Jul-20 13:03
Subject: (MCC) Daily EFF

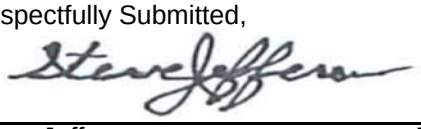
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0253-01) Collected: 13-Jul-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG01329	1.8	13-Jul-20	15-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG01329	1.8	13-Jul-20	15-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG01536	0.1	13-Jul-20	13-Jul-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG01331	0.05	13-Jul-20	13-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 7/27/2020
Laboratory 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.#: 2060253

(MCC) EFF - Daily

Customer: IPC - Integrated Performance Consultants, Inc.

Project :

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	07/13/20	1115	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUL 13 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Olvera (IPC)	07/13/20	1120
Received by		Juan Vasquez (PCL)	7/13/20	12:20
Relinquished by		Juan Vasquez (PCL)	7/13/20	14:00
Received by				
Relinquished by				
Received by Lab by		JUL 13 2020		1533

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 -$CuSO_4$

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: 27-Jul-20 13:05
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0288-01) Collected: 14-Jul-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG01424	1.8	14-Jul-20	16-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG01424	1.8	14-Jul-20	16-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG01536	0.1	14-Jul-20	14-Jul-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG01537	0.05	15-Jul-20	15-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 7/27/2020
Laboratory 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.#: 20G0288

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618	**Sampled by:**	**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	07/14/20	1125	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.37 / 25.5°C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUL 14 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	07/14/20	1130
Received by		Fernando Contreras	7/14/20	12:45
Relinquished by		Fernando Contreras (Pat-Chem)	7/14/20	1305
Received by				
Relinquished by				
Received in lab by				1419

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
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: 27-Jul-20 13:55
Subject: (MCC) Weekly INF

Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20G0313-01) Collected: 14-Jul-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AG01632	1	16-Jul-20	16-Jul-20	**218 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AG01636	2	16-Jul-20	21-Jul-20	**308 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 7/27/2020
Laboratory 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.#: 20G0313

Customer: IPC - Integrated Performance Consultants, Inc.

Project: (MCC) INF - Weekly

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	Preserve	Field Data (pH / Temperature) pH: Field Lab
INF	07/14/20	0000	1	TSS	Comp	AQ	1L P	4°C	7.20/20.5c
			1	BOD	Comp	AQ	1L P	4°C	
1	1	1							

RECEIVED
JUL 15 2020
By EG

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	07/15/20	1330
Received by		Armando Alvarez	7/15/20	13:55
Relinquished by		Armando Alvarez (Pat-Chem)	7/15/20	14:45
Received by				
Relinquished by				
Received in lab by	Evan G	Evan Garcia	7/15/20	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
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: 27-Jul-20 13:07
Subject: (MCC) Daily EFF

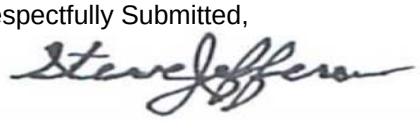
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0309-01) Collected: 15-Jul-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG01530	1.8	15-Jul-20	17-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG01530	1.8	15-Jul-20	17-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG01628	0.1	15-Jul-20	15-Jul-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG01627	0.05	16-Jul-20	16-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 7/27/2020
Laboratory 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.#: 2060309

Customer: IPC - Integrated Performance Consultants, Inc.

Project : **(MCC) EFF - Daily**

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	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	07/15/20	1325	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.68/17.1°C
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUL 15 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	07/15/20	1330
Received by		Fedex	7/15/20	1355
Relinquished by		Armstrong Courier	7/15/20	14:45
Received by				
Relinquished by				
Received in Lab by		JUL 15 2020		1418

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: 27-Jul-20 13:58
Subject: (MCC) Weekly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0333-01) Collected: 15-Jul-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AG01632	1	16-Jul-20	16-Jul-20	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AG01705	0.10	17-Jul-20	17-Jul-20	**0.26 mg/l**	
Nitrate as N	EPA 353.2	AG01623	0.02	16-Jul-20	16-Jul-20	**0.02 mg/l**	
Nitrite as N	EPA 353.2	AG01623	0.02	16-Jul-20	16-Jul-20	**<0.02 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AG02122	0.10	21-Jul-20	22-Jul-20	**1.45 mg/l**	
EFF (Sample I.D.# : 20G0333-02) Collected: 14-Jul-20 By Carlos A. of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AG01636	2	16-Jul-20	21-Jul-20	**5 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 7/27/2020
Laboratory 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.#: 206033

Customer: IPC - Integrated Performance Consultants, Inc.	Project: (MCC) EFF - Weekly
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	07/15/20	1325	1	TSS	Grab	AQ	1L P	4°C	7.68, 27.9°C
	"	"	1	Ammonia, TKN	Grab	AQ	500 P	4°C	
	"	"	1	Nitrate, Nitrite	Grab	AQ	250 P	4°C	
	07/14/20	0000	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
JUL 15 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	07/15/20	1330
Received by		Thomas Cannon (Pat-Chem)	7/15/20	1355
Relinquished by		Armando Ocampo (Pat-Chem)	7/15/20	1445
Received by				
Relinquished by				
Received in lab by		JUL 15 2020		1617

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
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: 27-Jul-20 13:09
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0349-01) Collected: 16-Jul-20 By Golan Kfir of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG01626	1.8	16-Jul-20	18-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG01626	1.8	16-Jul-20	18-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG01709	0.1	16-Jul-20	16-Jul-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG01708	0.05	17-Jul-20	17-Jul-20	**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,

Steve Jefferson 7/27/2020
Laboratory 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.#: 20G0349

Customer: IPC - Integrated Performance Consultants, Inc		**Project :** (MCC) EFF - Daily	
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	7/16/20	11:00	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.56/22.8°C
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

RECEIVED
JUL 16 2020
By Alex Valle Jr.

Signature	Print Name (Company)	Date	Time
Relinquished by: GK	Golan IPC	7/16/20	12:05
Received by:	Alejandro Camarillo	7/16/20	12:05
Relinquished by:	Alejandro Camarillo	7/16/20	15:00
Received by:			
Relinquished by:			
Received in lab by: Alex Valle Jr.	JUL 16 2020		1503

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
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: 27-Jul-20 13:15
Subject: (MCC) Daily EFF

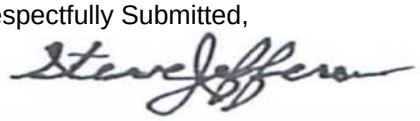
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0367-01) Collected: 17-Jul-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG01707	1.8	17-Jul-20	19-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG01707	1.8	17-Jul-20	19-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG01808	0.1	17-Jul-20	17-Jul-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG01805	0.05	18-Jul-20	18-Jul-20	**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,



Steve Jefferson 7/27/2020
Laboratory 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.#: 2060367

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618		**Sampled by:**	**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	07/17/20	1140	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.61 / 27.0°C
1	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUL 17 2020
by

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Carlos Alvarez (ASC)	07/17/20	1145
Received by	Hermosa Courier Driver	7/17/20	11:45
Relinquished by	Hermosa Courier Driver	7/17/20	14:40
Received by			
Relinquished by			
Received by	JUL 17 2020		1158

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: 27-Jul-20 13:40
Subject: (MCC) Daily EFF

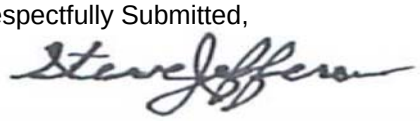
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0385-01) Collected: 18-Jul-20 By Mario Aguirre							
Microbiological							
Fecal Coliforms	SM 9221E	AG01804	1.8	18-Jul-20	22-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG01804	1.8	18-Jul-20	22-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG01923	0.1	18-Jul-20	18-Jul-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG01812	0.05	18-Jul-20	18-Jul-20	**0.12 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 7/27/2020
Laboratory 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.#: 20C0385

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618		Sampled by: Mario Aguirre	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	7/18/20	9:50	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

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JUL 18 2020
By JC

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Mario Aguirre (IPC)	7/18/20	
Received by	Jairo Menjivar	7/18/20	11:40
Relinquished by	Jairo Menjivar	7/18/20	12:54
Received by			
Relinquished by			
Received in lab by	Jordan Corkery	7/18/20	1254

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

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

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

Attention: Ric Vardel
Report Date: 27-Jul-20 13:43
Subject: (MCC) Daily EFF

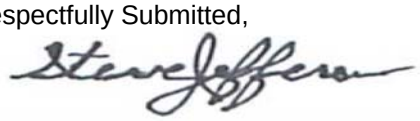
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0389-01) Collected: 19-Jul-20 By IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG01916	1.8	19-Jul-20	22-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG01916	1.8	19-Jul-20	22-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG01923	0.1	19-Jul-20	19-Jul-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG02027	0.05	20-Jul-20	20-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 7/27/2020
Laboratory 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.#: 2000389

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618		**Sampled by:** Jason	**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	7/19/2020	09:43	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

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JUL 19 2020
By JC

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Jason IPC	7/19/2020	09:45
Received by	Alex Walker Jr	7/19/20	09:45
Relinquished by	Alex Walker Jr	7/19/20	12:00 pm
Received by			
Relinquished by			
Received in lab by	Jordan Corkery	7/19/20	1200

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.

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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-20 17:09
Subject: (MCC) Daily EFF

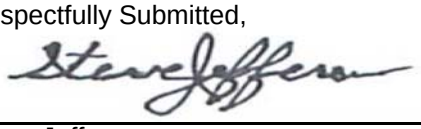
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0410-01) Collected: 20-Jul-20 By IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG02028	1.8	20-Jul-20	22-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG02028	1.8	20-Jul-20	22-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG02930	0.1	20-Jul-20	20-Jul-20	**8.1 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG02130	0.05	21-Jul-20	21-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 8/5/2020
Laboratory 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.#: 20G0410

Customer: IPC - Integrated Performance Consultants, Inc.

Project: (MCC) EFF - Daily

Address: 9297 Research Drive, Irvine, CA 92618

Sampled by: Ric Vardel / 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	07/20/20	1110	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

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JUL 20 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (CAL)	07/20/20	1120
Received by		Juan Vasquez (P/L)	7/20/20	13:26
Relinquished by		Juan Vasquez (P/L)	7/20/20	14:50
Received by				
Relinquished by				
Received by		JUL 20 2020		1509

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: 05-Aug-20 17:12
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0440-01) Collected: 21-Jul-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG02128	1.8	21-Jul-20	24-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG02128	1.8	21-Jul-20	24-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG02930	0.1	21-Jul-20	21-Jul-20	**8.2 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG02230	0.05	22-Jul-20	22-Jul-20	**0.12 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/5/2020
Laboratory 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.#: 2060440

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Daily	
Address: 9297 Research Drive		**Sampled by:** CG	**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	07/21/20	1150	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUL 21 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	CG	Carlos Alvarez (SPC)	07/21/20	1130
Received by	EG	CG	7.21.20	1130
Relinquished by	EG	CG	7.21.20	1300
Received by				
Relinquished by				
Received by		JUL 21 2020		1431

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-Aug-20 16:24
Subject: (MCC) Weekly INF

Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20G0469-01) Collected: 21-Jul-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AG02330	1	23-Jul-20	23-Jul-20	**179 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AG02331	2	23-Jul-20	28-Jul-20	**410 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/11/2020
Laboratory 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.#: 7060469

Customer: IPC - Integrated Performance Consultants, Inc.
Project : (MCC) INF - Weekly

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	Preserve	Field Data (pH / Temperature) pH: Field Lab
INF	07/21/20	0000	1	TSS	Comp	AQ	1L P	4°C	7.22/17.5°C
			1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
JUL 22 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Chris Vargas (IPC)	07/22/20	17:30
Received by		Hannah Cruz (CRL)	7/22/20	17:30
Relinquished by		Armando Cruz (CRL)	7/22/20	14:45
Received by				
Relinquished by				
Received by		JUL 22 2020		1419

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: 05-Aug-20 17:16
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0466-01) Collected: 22-Jul-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG02231	1.8	22-Jul-20	24-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG02231	1.8	22-Jul-20	24-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG02930	0.1	22-Jul-20	22-Jul-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG02336	0.05	23-Jul-20	23-Jul-20	**0.22 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/5/2020
Laboratory 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.#: 2060466

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Daily	
Address: 9297 Research Drive Irvine CA 92618	**Sampled by:**	**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	07/22/20	1020	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.63 / 18.3°C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
1	1	1							

RECEIVED
JUL 22 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	07/22/20	17:30
Received by		Armando Arvizu (IPC)	7/22/20	17:30
Relinquished by		Armando Arvizu (IPC)	7/22/20	14:45
Received by				
Relinquished by				
Received in lab by		JUL 22 2020		1402

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

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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-Aug-20 16:22
Subject: (MCC) Weekly EFF

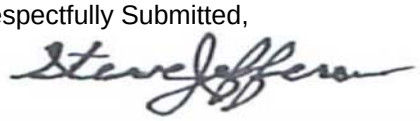
Project/P.O.#: (MCC) Weekly EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0468-01) Collected: 22-Jul-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AG02330	1	23-Jul-20	23-Jul-20	**1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AG02333	0.10	23-Jul-20	23-Jul-20	**0.23 mg/l**	
Nitrate as N	EPA 353.2	AG02335	0.05	23-Jul-20	23-Jul-20	**<0.05 mg/l**	
Nitrite as N	EPA 353.2	AG02335	0.05	23-Jul-20	23-Jul-20	**<0.05 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AG02326	0.10	23-Jul-20	24-Jul-20	**1.19 mg/l**	
EFF (Sample I.D.# : 20G0468-02) Collected: 21-Jul-20 By Carlos A. of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AG02331	2	23-Jul-20	28-Jul-20	**5 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 8/11/2020
Laboratory 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.#: 2060468

Customer: IPC - Integrated Performance Consultants, Inc.

Project: (MCC) EFF - Weekly

Address: 9297 Research Drive, Irvine, CA 92618

Sampled by: C. V.

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	07/22/20	1020	1	TSS	Grab	AQ	1L P	4°C	7.67/18.3°C
			1	Ammonia, TKN	Grab	AQ	500 P	4°C	
			1	Nitrate, Nitrite	Grab	AQ	250 P	4°C	
	07/21/20	0000	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
JUL 22 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (GRD)	07/22/20	17:30
Received by		[illegible]	7/22/20	17:30
Relinquished by		[illegible]	7/22/20	14:45
Received by				
Relinquished by				
Received in lab by		JUL 22 2020		1409

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-20 17:20
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0483-01) Collected: 23-Jul-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG02338	1.8	23-Jul-20	25-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG02338	1.8	23-Jul-20	25-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG02930	0.1	23-Jul-20	23-Jul-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG02410	0.05	24-Jul-20	24-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/5/2020
Laboratory 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.#: 20610483

Customer: IPC - Integrated Performance Consultants, Inc.		**Project:** (MCC) EFF - Daily	
Address: 9297 Research Drive Irvine CA 92618		**Sampled by:**	**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	07/23/20	1115	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD: Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by	Carlos Alvarez (SCE)	07/23/20	12:21
Received by	Juan Vasquez (PCL)	7/23/20	12:21
Relinquished by	Juan Vasquez (PCL)	7/23/20	13:20
Received by			
Relinquished by			
Received in lab by			

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 **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.

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-20 17:24
Subject: (MCC) Daily EFF

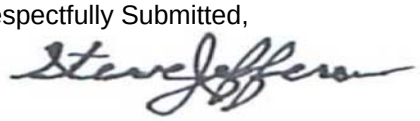
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0498-01) Collected: 24-Jul-20 By JL of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AG02413	1.8	24-Jul-20	26-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG02413	1.8	24-Jul-20	26-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG02930	0.1	24-Jul-20	29-Jul-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG02728	0.05	25-Jul-20	25-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 8/5/2020
Laboratory 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.#: 20G0498

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618		**Sampled by:**	**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	07.24.2012.30		1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

RECEIVED
JUL 24 2020
By

Signature	Print Name (Company)	Date	Time
Relinquished by		7.24.20	1230
Received by	VA	7.24.20	1230
Relinquished by		7.24.20	1305
Received by			
Relinquished by			
Received by	JUL 24 2020		1344

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-20 17:27
Subject: (MCC) Daily EFF

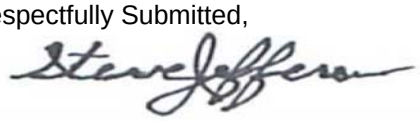
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0519-01) Collected: 25-Jul-20 By MA of PCL							
Microbiological							
Fecal Coliforms	SM 9221E	AG02504	1.8	25-Jul-20	27-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG02504	1.8	25-Jul-20	27-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG02930	0.1	25-Jul-20	25-Jul-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG02728	0.05	26-Jul-20	26-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 8/5/2020
Laboratory 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.#: 20G0519

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618		**Sampled by:** Mario Aguirre	**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	7/25/20	9:48	1	pH, T.Res Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUL 25 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Mario Aguirre (IK)	7/25/20	9:52
Received by	Alex Valk Jr	7/25/20	12:13
Relinquished by			
Received by			
Relinquished by			
Received by	JUL 25 2020		15:30

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: 11-Aug-20 16:00
Subject: (MCC) Daily EFF

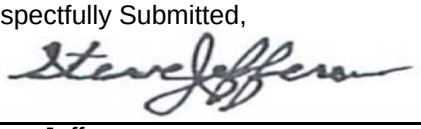
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0524-01) Collected: 26-Jul-20 By JA							
Microbiological							
Fecal Coliforms	SM 9221E	AG02627	1.8	26-Jul-20	28-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG02627	1.8	26-Jul-20	28-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG02930	0.1	26-Jul-20	26-Jul-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG02728	0.05	27-Jul-20	27-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 8/11/2020
Laboratory 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.#: 20G0524

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
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	7-26-20	9:35	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUL 26 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avalos	Jesus Avalos IPC	7-26-20	9:40
Received by: Alex Walka Jr.	Alex Walka Jr.	7/26/20	13:15
Relinquished by:			
Received by:			
Relinquished by:			
Received by Lab by:	JUL 26 2020		15:30

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-Aug-20 16:02
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0545-01) Collected: 27-Jul-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AG02733	1.8	27-Jul-20	29-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG02733	1.8	27-Jul-20	29-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG02930	0.1	27-Jul-20	27-Jul-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG02831	0.05	28-Jul-20	28-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/11/2020
Laboratory 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.#: 20G0545

(MCC) EFF - Daily

Customer: IPC - Integrated Performance Consultants, Inc.

Address: 9297 Research Drive, Irvine, CA 92618

Project :

Sampled by: C. Q.

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	07/27/20	1145	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.3 / 24.2°C
1	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUL 27 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (GA)	07/27/20	1155
Received by		Armando Alvarez	7/27/20	1245
Relinquished by		Armando Alvarez	7/27/20	1430
Received by				
Relinquished by				
Received at lab by		JUL 27 2020		1542

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-Aug-20 16:13
Subject: (MCC) Daily EFF

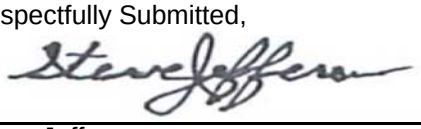
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0567-01) Collected: 28-Jul-20 By Gk							
Microbiological							
Fecal Coliforms	SM 9221E	AG02830	1.8	28-Jul-20	30-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG02830	1.8	28-Jul-20	30-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG02930	0.1	28-Jul-20	28-Jul-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG02929	0.05	29-Jul-20	29-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 8/11/2020
Laboratory 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.#: 2060567

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
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	7/28/20	11:40	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.70/19.1°C
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUL 28 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: GK	Golan IPC	7/28/20	11:40
Received by:	Armando Olmos (Apex)	7/28/20	12:10
Relinquished by:	Armando Olmos (Apex)	7/28/20	14:30
Received by:			
Relinquished by:			
Received in lab:	JUL 28 2020		1400

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-Aug-20 16:15
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0597-01) Collected: 29-Jul-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AG02928	1.8	29-Jul-20	31-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG02928	1.8	29-Jul-20	31-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG03027	0.1	29-Jul-20	29-Jul-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG03026	0.05	30-Jul-20	30-Jul-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/11/2020
Laboratory 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.#: 20G0597

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Daily	
Address: 9297 Research Drive Irvine CA 92618	**Sampled by:**	**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	07/29/20	1155	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.66/25.6°C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

RECEIVED JUL 29 2020 BY

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	07/29/20	17:00
Received by		Armando Olmos (Patchem)	7/29/20	17:00
Relinquished by		Armando Olmos (Patchem)	7/29/20	14:30
Received by				
Relinquished by				
Received in Lab		JUL 29 2020		1501

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
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-Aug-20 16:39
Subject: (MCC) Weekly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0608-01) Collected: 29-Jul-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AG03021	1	30-Jul-20	30-Jul-20	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AG03104	0.10	31-Jul-20	31-Jul-20	**0.41 mg/l**	
Nitrate as N	EPA 353.2	AG03029	0.05	30-Jul-20	31-Jul-20	**0.08 mg/l**	
Nitrite as N	EPA 353.2	AG03029	0.05	30-Jul-20	31-Jul-20	**<0.05 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AH00314	0.50	03-Aug-20	04-Aug-20	**0.86 mg/l**	
EFF (Sample I.D.# : 20G0608-02) Collected: 28-Jul-20 By Carlos A. of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AG03031	2	30-Jul-20	04-Aug-20	**3 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/11/2020
Laboratory 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.#: 20G0608

Customer:	IPC - Integrated Performance Consultants, Inc.	Project:	(MCC) EFF - Weekly
Address:	9297 Research Drive	Sampled by:	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	07/29/20	1155	1	TSS	Grab	AQ	1L P	4°C	7.66/15.6°C
	"	"	1	Ammonia, TKN	Grab	AQ	500 P	4°C	
	"	"	1	Nitrate, Nitrite	Grab	AQ	250 P	4°C	
	07/28/20	0000	1	BOD	Comp	AQ	1L P	4°C	

JUL 29 2020

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (Cafc)	07/29/20	17:00
Received by		[illegible]	7/29/20	13:00
Relinquished by		Armando Olmos (Pat-Chem)	7/29/20	14:30
Received by				
Relinquished by				
Received in lab		JUL 29 2020		1538

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: 11-Aug-20 16:45
Subject: (MCC) Weekly INF

Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20G0610-01) Collected: 29-Jul-20 By JL							
Physical Properties							
Total Suspended Solids	SM2540D	AG03021	1	30-Jul-20	30-Jul-20	**100 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AG03105	2	31-Jul-20	05-Aug-20	**390 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/11/2020
Laboratory 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.#: 20G0610

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) INF - Weekly
Address:	9297 Research Drive	Sampled by:	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
INF	07-29-20	12:15	1	TSS	Comp	AQ	1L P	4°C	7.17 / 17.8
	"	"	1	BOD	Comp	AQ	1L P	4°C	

JUL 29 2020

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Julio Leon	7-29-20	12:00
Received by	[illegible]	7-29-20	12:00
Relinquished by	Armando Olmos (Pat-Chem)	7/29/20	14:30
Received by			
Relinquished by			
Received by	JUL 29 2020		1549

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
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-Aug-20 16:17
Subject: (MCC) Daily EFF

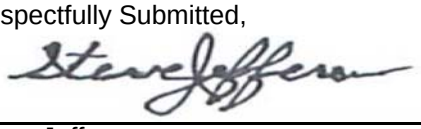
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0634-01) Collected: 30-Jul-20 By GK							
Microbiological							
Fecal Coliforms	SM 9221E	AG03025	1.8	30-Jul-20	01-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG03025	1.8	30-Jul-20	01-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG03036	0.1	30-Jul-20	30-Jul-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG03038	0.05	30-Jul-20	30-Jul-20	**0.18 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 8/11/2020
Laboratory 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.#: 20G0634

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) EFF - Daily
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	7/30/20	11:05	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

JUL 30 2020

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: GK	Golan IPC	7/30/20	12:53
Received by:	Jaird Mesivar	7/30/20	12:53
Relinquished by:	Jaird Mesivar	7/30/20	1:30
Received by:			
Relinquished by:			
Received in lab:	JUL 30 2020		1351

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: 11-Aug-20 16:20
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20G0659-01) Collected: 31-Jul-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AG03109	1.8	31-Jul-20	02-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AG03109	1.8	31-Jul-20	02-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH00106	0.1	31-Jul-20	31-Jul-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH00105	0.05	01-Aug-20	01-Aug-20	**0.10 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/11/2020
Laboratory 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.#: 20G0659

Customer: IPC - Integrated Performance Consultants, Inc.		**Project:** (MCC) EFF - Daily	
Address: 9297 Research Drive Irvine CA 92618	**Sampled by:**	**P.O. #:**	
	Report Attention: Ric Vardei / 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	07/31/20	1105	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
1	1	1							

RECEIVED
JUL 31 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (PCL)	07/31/20	1120
Received by		Juan Vasquez (PCL)	7/31/20	12:50
Relinquished by		Juan Vasquez (PCL)	7/31/20	14:22
Received by				
Relinquished by				
Received in lab by		JUL 31 2020		1352

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: 17-Aug-20 13:21
Subject: (MCC) Daily EFF

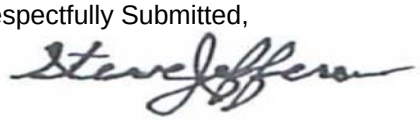
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0002-01) Collected: 01-Aug-20 By MA							
Microbiological							
Fecal Coliforms	SM 9221E	AH00104	1.8	01-Aug-20	03-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH00104	1.8	01-Aug-20	03-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH00112	0.1	01-Aug-20	01-Aug-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH00215	0.05	02-Aug-20	02-Aug-20	**0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 8/17/2020
Laboratory 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.#: 20H0002

Customer: IPC - Integrated Performance Consultants, Inc.		Project: (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618		Sampled by: Mario Aguirre	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	8/1/20	9:48	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	9:48	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
Aug. 01 2020
By JC

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Mario Aguirre (IPC)	8/1/20	9:52
Received by	Jairo Manjivar	8/1/20	10:21
Relinquished by	Jairo Manjivar	8/1/20	12:00
Received by			
Relinquished by			
Received in lab by	Jordan Corkery	8/1/20	1200

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: 17-Aug-20 13:23
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0007-01) Collected: 02-Aug-20 By JA							
Microbiological							
Fecal Coliforms	SM 9221E	AH00216	1.8	02-Aug-20	04-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH00216	1.8	02-Aug-20	04-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH00529	0.1	02-Aug-20	02-Aug-20	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH00320	0.05	03-Aug-20	03-Aug-20	**0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/17/2020
Laboratory 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.#: 20H0007

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
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	8/2/20	9:30	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
〃	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD: Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avalos	Jesus Avalos IPC	8/2/20	9:40
Received by	RM PCL	8/2/20	1440
Relinquished by			
Received by			
Relinquished by			
Received in lab by	RM PCL	8/2/20	1637

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	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 **AA** - Ascorbic Acid
Bottle Type **P** - Plastic **G** - Amber Glass **VOA** - 40 ml Vial **Coli** - bacteria	**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: 17-Aug-20 13:25
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0017-01) Collected: 03-Aug-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AH00322	1.8	03-Aug-20	05-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH00322	1.8	03-Aug-20	05-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH00529	0.1	03-Aug-20	03-Aug-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH00532	0.05	04-Aug-20	04-Aug-20	**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,

Steve Jefferson 8/17/2020
Laboratory 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.#: 20H0017

Customer: IPC - Integrated Performance Consultants, Inc.		Project: (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine CA 92618		Sampled by:	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	08/03/20	11:40	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (GSPL)	08/03/20	12:24
Received by		Juan Vasquez (PCL)	8/03/20	12:24
Relinquished by		Juan Vasquez (PCL)	8/03/20	1743
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	8/3/20	1343

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 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	

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: 17-Aug-20 13:54
Subject: (MCC) Monthly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0029-01) Collected: 03-Aug-20 By CA							
Physical Properties							
Total Dissolved Solids	SM 2540C	AH00634	5	06-Aug-20	07-Aug-20	**972 mg/l**	
Inorganic Constituents							
Chloride	EPA 300.0	AH00713	20.0	07-Aug-20	07-Aug-20	**297 mg/l**	
Sulfate as SO4	EPA 300.0	AH00713	10.0	07-Aug-20	07-Aug-20	**163 mg/l**	
Boron	EPA 200.7	AH00420	0.10	04-Aug-20	05-Aug-20	**0.39 mg/l**	
Phosphorus, Total as P	EPA 365.3	AH01245	0.05	12-Aug-20	13-Aug-20	**1.20 mg/l**	
Aggregate Organic Constituents							
MBAS	SM 5540 C	AH00431	0.20	04-Aug-20	05-Aug-20	**<0.20 mg/l**	
Oil & Grease (HEM)	EPA 1664A	AH00631	5	06-Aug-20	06-Aug-20	**<5 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/17/2020
Laboratory 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.#: 20H0029

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Monthly	
Address: 9297 Research Drive Irvine CA 92618	**Sampled by:**		**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	08/03/20	1140	1	Sulfate, Chloride, TDS	Grab	AQ	1/2 Gal. P	4°C	
			1	MBAS	Grab	AQ	500 P	4°C	
			1	Oil & Grease	Grab	AQ	1L G	HC	
			1	Boron	Grab	AQ	250 P	HN	
			1	T.Phos	Grab	AQ	500 P	4°C	
Geotracker EDD: Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by	Carlos Alvarez (PCL)	08/03/20	1650
Received by	Juan Vasquez (PCL)	8/3/20	12:26
Relinquished by	Juan Vasquez (PCL)	8/3/20	1343
Received by			
Relinquished by			
Received in lab by	MARIO SANTIESTEBAN (PCL)	8/3/20	1343

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.

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PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
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(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: 17-Aug-20 13:28
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0076-01) Collected: 04-Aug-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AH00430	1.8	04-Aug-20	06-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH00430	1.8	04-Aug-20	06-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH00529	0.1	04-Aug-20	04-Aug-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH00532	0.05	05-Aug-20	05-Aug-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/17/2020
Laboratory 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.#: 20H0076

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618		**Sampled by:**	**P.O. #:**
		Report Attention: R. 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	08/04/20	1030	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

RECEIVED
AUG 04 2020
By

Signature	Print Name (Company)	Date	Time
Relinquished by	Carlos Alvarez (IPC)	08/04/20	12:55
Received by	Juan Vasquez (PCL)	8/4/20	12:55
Relinquished by	Juan Vasquez (PCL)	8/4/20	14:05
Received by			
Relinquished by			
Received in lab by	AUG 04 2020		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	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.

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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: 17-Aug-20 13:30
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0113-01) Collected: 05-Aug-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AH00528	1.8	05-Aug-20	07-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH00528	1.8	05-Aug-20	07-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH00539	0.1	05-Aug-20	05-Aug-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH00540	0.05	05-Aug-20	05-Aug-20	**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,

Steve Jefferson 8/17/2020
Laboratory 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.#: 20H0113

Customer: IPC - Integrated Performance Consultants, Inc.		**Project:** (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine CA 92618	**Sampled by:**	**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	08/05/20	1015	1	pH, T.Res Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

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AUG 05 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (PCL)	08/05/20	12:46
Received by		Juan Vasquez (PCL)	8/5/20	12:46
Relinquished by		Juan Vasquez (PCL)	8/5/20	14:20
Received by				
Relinquished by				
Received in Lab by		AUG 05 2020		1446

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: 17-Aug-20 13:58
Subject: (MCC) Weekly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0114-01) Collected: 05-Aug-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AH00635	1	06-Aug-20	06-Aug-20	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AH00707	0.10	07-Aug-20	07-Aug-20	**<0.10 mg/l**	
Nitrate as N	EPA 353.2	AH00629	0.05	06-Aug-20	06-Aug-20	**0.05 mg/l**	
Nitrite as N	EPA 353.2	AH00629	0.05	06-Aug-20	06-Aug-20	**<0.05 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AH01223	0.40	12-Aug-20	13-Aug-20	**0.49 mg/l**	
EFF (Sample I.D.# : 20H0114-02) Collected: 04-Aug-20 By CA							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AH00633	2	06-Aug-20	11-Aug-20	**4 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/17/2020
Laboratory 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.#: 20H0114

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Weekly	
Address: 9297 Research Drive, Irvine, CA 92618		**Sampled by:**	**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	08/05/20	1015	1	TSS	Grab	AQ	1L P	4°C	
			1	Ammonia, TKN	Grab	AQ	500 P	4°C	
			1	Nitrate, Nitrite	Grab	AQ	250 P	4°C	
	08/04/20	0000	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
AUG 05 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Ulloa (Carc)	08/05/20	12:45
Received by		Juan Vasquez (PCL)	8/5/20	12:45
Relinquished by		Juan Vasquez (PCL)	8/5/20	14:20
Received by				
Relinquished by				
Received in Lab		AUG 05 2020		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
(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: 12-Aug-20 17:11
Subject: (MCC) Weekly INF

Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20H0120-01) Collected: 05-Aug-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AH00635	1	06-Aug-20	06-Aug-20	**218 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AH00633	2	06-Aug-20	11-Aug-20	**267 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/12/2020
Laboratory 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.#: 20H0120

Customer:	IPC - Integrated Performance Consultants, Inc.	**Project :**	(MCC) INF - Weekly
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
INF	08/04/20	0000	1	TSS	Comp	AQ	1L P	4°C	
			1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
AUG 05 2020
By

~~Geotracker EDD:~~
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Olivas (IPC)	08/05/20	12:50
Received by		Juan Vasquez (PCL)	8/5/20	12:50
Relinquished by		Juan Vasquez (PCL)	8/5/20	14:20
Received by				
Relinquished by				
Received in Lab by		AUG 05 2020		1503

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: 17-Aug-20 13:32
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0143-01) Collected: 06-Aug-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AH00632	1.8	06-Aug-20	08-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH00632	1.8	06-Aug-20	08-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH00640	0.1	06-Aug-20	06-Aug-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH00643	0.05	06-Aug-20	06-Aug-20	**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,

Steve Jefferson 8/17/2020
Laboratory 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.#: 20H0143

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618		**Sampled by:**	**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	08/06/20	1125	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
AUG 06 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Olvera (GSE)	08/06/20	1130
Received by		Juan Vasquez (PCL)	8/6/20	12:13
Relinquished by		Juan Vasquez (PCL)	8/6/20	13:13
Received by				
Relinquished by				
Received in lab by		AUG 06 2020		1349

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: 17-Aug-20 13:34
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0178-01) Collected: 07-Aug-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AH00708	1.8	07-Aug-20	09-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH00708	1.8	07-Aug-20	09-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH00807	0.1	07-Aug-20	07-Aug-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH00806	0.05	08-Aug-20	08-Aug-20	**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,

Steve Jefferson 8/17/2020
Laboratory 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.#: 20H0178

Customer: IPC - Integrated Performance Consultants, Inc.		**Project:** (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618		**Sampled by:**	**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	08/07/20	1135	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
1	1	1							

RECEIVED
AUG 07 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (ASC)	08/07/20	1140
Received by		Juan Vasquez (PCL)	8/7/20	13:15
Relinquished by		Juan Vasquez (PCL)	8/7/20	14:23
Received by				
Relinquished by				
Received in lab by		AUG 07 2020		1342

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: 17-Aug-20 13:37
Subject: (MCC) Daily EFF

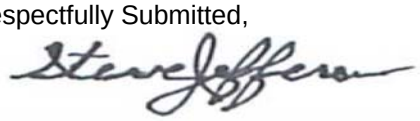
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0192-01) Collected: 08-Aug-20 By MA							
Microbiological							
Fecal Coliforms	SM 9221E	AH00804	1.8	08-Aug-20	10-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH00804	1.8	08-Aug-20	10-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH00807	0.1	08-Aug-20	08-Aug-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH00917	0.05	09-Aug-20	09-Aug-20	**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,



Steve Jefferson 8/17/2020
Laboratory 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.#: 20H0192

Customer: IPC - Integrated Performance Consultants, Inc		**Project :** (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618		**Sampled by:** Mario Aguirre	**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	8/8/20	9.51	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

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AUG 08 2020
By JC

Relinquished by / Received by / Relinquished by / Received by / Relinquished by / Received in lab by	Signature	Print Name (Company)	Date	Time
Relinquished by		Mario Aguirre	8/8/20	9.56
Received by		Jairo Menjivar	8/8/20	10:20
Relinquished by		Jairo Menjivar	8/5/20	11:56
Received by				
Relinquished by				
Received in lab by		Jordan Corkery	8/5/20	1156

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

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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: 17-Aug-20 13:39
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0197-01) Collected: 09-Aug-20 By JA							
Microbiological							
Fecal Coliforms	SM 9221E	AH00916	1.8	09-Aug-20	11-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH00916	1.8	09-Aug-20	11-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH01228	0.1	09-Aug-20	09-Aug-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH01022	0.05	10-Aug-20	10-Aug-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/17/2020
Laboratory 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: 17-Aug-20 13:41
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0210-01) Collected: 10-Aug-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AH01027	1.8	10-Aug-20	12-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH01027	1.8	10-Aug-20	12-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH01228	0.1	10-Aug-20	10-Aug-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH01131	0.05	11-Aug-20	11-Aug-20	**0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/17/2020
Laboratory 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.#: 20H0210

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618		**Sampled by:**	**P.O. #:**
		Report Attention: Rie 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	08/10/20	1140	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.51/24.6°C
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

RECEIVED
AUG 10 2020
By

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Olivas (PCL)	08/10/20	17:10
Received by		Armando Olivas (PCL)	8/10/20	17:10
Relinquished by		Armando Olivas (PatChem)	8/10/20	14:45
Received by				
Relinquished by				
Received in lab by		AUG 10 2020		1503

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.

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San Fernando, CA 91340
(818) 639-5300 ph
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pat-chem.com

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

Attention: Ric Vardel
Report Date: 17-Aug-20 13:44
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0239-01) Collected: 11-Aug-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AH01132	1.8	11-Aug-20	13-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH01132	1.8	11-Aug-20	13-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH01228	0.1	11-Aug-20	11-Aug-20	**7.3 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH01230	0.05	12-Aug-20	12-Aug-20	**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,

Steve Jefferson 8/17/2020
Laboratory 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.#: 20H0239

Customer: IPC - Integrated Performance Consultants, Inc.

Project: **(MCC) EFF - Daily**

Address: 9297 Research Drive, Irvine, CA 92618

Sampled by: Rio 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	08/11/20	1120	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
1	1	1							

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AUG 11 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (SR)	08/11/20	1130
Received by		Juan Vasquez (PCL)	8/11/20	12:21
Relinquished by		Juan Vasquez (PCL)	8/11/20	14:15
Received by				
Relinquished by				
Received by		AUG 11 2020		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
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.

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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-20 13:44
Subject: (MCC) Weekly INF

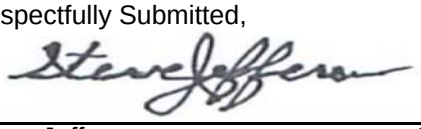
Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20H0278-01) Collected: 11-Aug-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AH01630	1	16-Aug-20	17-Aug-20	**232 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AH01335	2	13-Aug-20	18-Aug-20	**500 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 8/19/2020
Laboratory 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.#: 20H0278

Customer: IPC - Integrated Performance Consultants, Inc.		**Project:** (MCC) INF - Weekly	
Address: 9297 Research Drive		**Sampled by:**	**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
INF	08/11/20	0000	1	TSS	Comp	AQ	1L P	4°C	
"	"	"	1	BOD	Comp	AQ	1L P	4°C	

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AUG 12 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	08/12/20	12:11
Received by		Jairo Manjivar	8/12/20	12:11
Relinquished by		Jairo Manjivar	8/12/20	15:10
Received by				
Relinquished by				
Received by		AUG 12 2020		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~~ 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.

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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: 17-Aug-20 13:46
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0274-01) Collected: 12-Aug-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AH01227	1.8	12-Aug-20	14-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH01227	1.8	12-Aug-20	14-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH01342	0.1	12-Aug-20	12-Aug-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH01341	0.05	13-Aug-20	13-Aug-20	**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,

Steve Jefferson 8/17/2020
Laboratory 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.#: 20H0274

(MCC) EFF - Daily

Customer: IPC - Integrated Performance Consultants, Inc.

Project :

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	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	08/12/20	1130	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
1	1	1							

RECEIVED
AUG 12 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (CARL)	08/12/20	12:11
Received by		Jairo Manjivar	8/12/20	12:11
Relinquished by		Jairo Manjivar	8/12/20	15:10
Received by				
Relinquished by				
Received for Lab by		AUG 12 2020		1413

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

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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-20 22:24
Subject: (MCC) Weekly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0280-01) Collected: 12-Aug-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AH01630	1	16-Aug-20	17-Aug-20	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AH01406	0.10	14-Aug-20	14-Aug-20	**0.20 mg/l**	
Nitrate as N	EPA 353.2	AH01337	0.05	13-Aug-20	13-Aug-20	**0.05 mg/l**	
Nitrite as N	EPA 353.2	AH01337	0.05	13-Aug-20	13-Aug-20	**<0.05 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AH01924	0.20	19-Aug-20	20-Aug-20	**0.27 mg/l**	
EFF (Sample I.D.# : 20H0280-02) Collected: 11-Aug-20 By CA							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AH01335	2	13-Aug-20	18-Aug-20	**4 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/30/2020
Laboratory 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.#: 20H0280

(MCC) EFF - Weekly

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :**	
Address: 9297 Research Drive Irvine CA 92618		**Sampled by:** C. A.	**P.O. #:**
		Report Attention: Ric Wardel / 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	08/12/20	1130	1	TSS	Grab	AQ	1L P	4°C	
"	"	"	1	Ammonia, TKN	Grab	AQ	500 P	4°C	
"	"	"	1	Nitrate, Nitrite	Grab	AQ	250 P	4°C	
"	08/11/20	0000	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
AUG 12 2020

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (GEL)	08/12/20	12:11
Received by		Jaime Manjivar	8/12/20	12:11
Relinquished by		Jaime Manjivar	8/12/20	15:10
Received by				
Relinquished by				
Received in Lab by		AUG 12 2020		1439

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.

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QUALITY ANALYTICAL SERVICES SINCE 1987
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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: 17-Aug-20 13:48
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0298-01) Collected: 13-Aug-20 By C. A.							
Microbiological							
Fecal Coliforms	SM 9221E	AH01340	1.8	13-Aug-20	15-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH01340	1.8	13-Aug-20	15-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH01408	0.1	13-Aug-20	13-Aug-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH01409	0.05	14-Aug-20	14-Aug-20	**0.09 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/17/2020
Laboratory 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.#: 20A0298

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) EFF - Daily
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	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	08/13/20	1140	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
AUG 13 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	08/13/20	11:46
Received by		Juan Vasquez (BCL)	8/13/20	11:46
Relinquished by		Juan Vasquez (BCL)	8/13/20	1347
Received by				
Relinquished by				
Received in lab by		AUG 13 2020		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
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.

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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: 17-Aug-20 13:51
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0324-01) Collected: 14-Aug-20 By C. A.							
Microbiological							
Fecal Coliforms	SM 9221E	AH01407	1.8	14-Aug-20	16-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH01407	1.8	14-Aug-20	16-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH01506	0.1	14-Aug-20	14-Aug-20	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH01505	0.05	15-Aug-20	15-Aug-20	**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,

Steve Jefferson 8/17/2020
Laboratory 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.#: 20H0324

Customer: IPC - Integrated Performance Consultants, Inc.		**Project:** (MCC) EFF - Daily	
Address: 9297 Research Drive	**Sampled by:** C.V.	**P.O. #:**	
Irvine CA 92618	**Report Attention:** Rie 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	08/14/20	1130	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.75 / 28.1°C
1	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

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AUG 14 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	08/14/20	1140
Received by		Armando Olvera (PCL)	8/14/20	17:10
Relinquished by		Armando Olvera (PCL)	8/14/20	17:15
Received by				
Relinquished by				
Received by		AUG 14 2020		1439

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.

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PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
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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-20 13:41
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0335-01) Collected: 15-Aug-20 By Mario Aguirre							
Microbiological							
Fecal Coliforms	SM 9221E	AH01504	1.8	15-Aug-20	19-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH01504	1.8	15-Aug-20	19-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH01629	0.1	15-Aug-20	15-Aug-20	**7.3 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH01623	0.05	16-Aug-20	16-Aug-20	**0.10 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/19/2020
Laboratory 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.#: 20H0335-01

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618		**Sampled by:** Mario Aguirre	**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	8/15/20	9:50	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"		1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
AUG 15 2020
By JC

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Mario Aguirre (IPC)	8/15/20	9:55
Received by	Jairo Menjivar	8/15/20	11:02
Relinquished by	Jairo Menjivar	8/15/20	12:04
Received by			
Relinquished by			
Received in lab by	Jordan Corkery	8/15/20	1204

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.

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

Attention: Ric Vardel
Report Date: 30-Aug-20 21:08
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0340-01) Collected: 16-Aug-20 By JA							
Microbiological							
Fecal Coliforms	SM 9221E	AH01622	1.8	16-Aug-20	19-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH01622	1.8	16-Aug-20	19-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH02107	0.1	16-Aug-20	16-Aug-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH01734	0.05	17-Aug-20	17-Aug-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/30/2020
Laboratory 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.#: 2010340

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Daily	
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	8-16-20	9:35	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avalos	Jesus Avalos IPC	8-16-20	9:45
Received by	RM PCL	8/16/20	1225
Relinquished by			
Received by			
Relinquished by			
Received in lab by	RM PCL	8/16/2020	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 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.

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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-20 21:12
Subject: (MCC) Daily EFF

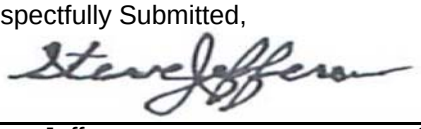
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0353-01) Collected: 17-Aug-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AH01729	1.8	17-Aug-20	21-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH01729	1.8	17-Aug-20	21-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH02107	0.1	17-Aug-20	17-Aug-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH01827	0.05	18-Aug-20	18-Aug-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 8/30/2020
Laboratory 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.#: 20H0353

Customer: IPC - Integrated Performance Consultants, Inc.		Project: (MCC) EFF - Daily	
Address: 9297 Research Drive Irvine CA 92618		Sampled by:	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	08/17/20	1130	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.20 / 7.72
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
AUG 17 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	08/17/20	1140
Received by		Armando Olmos (IPC)	8/17/20	1215
Relinquished by		Armando Olmos (IPC)	8/17/20	1635
Received by				
Relinquished by				
Received by		AUG 17 2020		1353

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.

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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-20 21:14
Subject: (MCC) Daily EFF

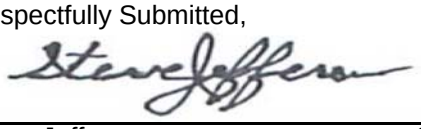
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0389-01) Collected: 18-Aug-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AH01825	1.8	18-Aug-20	21-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH01825	1.8	18-Aug-20	21-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH02107	0.1	18-Aug-20	18-Aug-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH01931	0.05	19-Aug-20	19-Aug-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 8/30/2020
Laboratory 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.#: 20H0389

Customer:	IPC - Integrated Performance Consultants, Inc.	Project:	(MCC) EFF - Daily
Address:	9297 Research Drive Irvine CA 92618	Sampled by:	
		Report Attention:	Rick 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	08/18/20	1115	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
1	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
AUG 18 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	08/18/20	1130
Received by	EG	Evan G pm	8/18/20	1200
Relinquished by	EG	Evan G pm	8/18/20	1430
Received by				
Relinquished by				
Received in Lab by		AUG 18 2020		1448

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
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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: 31-Aug-20 12:51
Subject: (MCC) Weekly INF

Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20H0433-01) Collected: 18-Aug-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AH02037	1	20-Aug-20	20-Aug-20	**222 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AH02038	2	20-Aug-20	25-Aug-20	**350 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/31/2020
Laboratory 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.#: 20H0433

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) INF - Weekly	
Address: 9297 Research Drive, Irvine, CA 92618		**Sampled by:**	**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
INF	08/18/20	0000	1	TSS	Comp	AQ	1L P	4°C	7.20 / 19.2°C
			1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
AUG 19 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (APC)	08/19/20	12:20
Received by		Amee Chen (Pat-Chem)	8/19/20	12:20
Relinquished by		Armando Olmos (Pat-Chem)	8/19/20	14:00
Received by				
Relinquished by				
Received by		AUG 19 2020		1351

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.

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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-20 21:17
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0434-01) Collected: 19-Aug-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AH01936	1.8	19-Aug-20	21-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH01936	1.8	19-Aug-20	21-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH02107	0.1	19-Aug-20	19-Aug-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH02051	0.05	20-Aug-20	20-Aug-20	**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,

Steve Jefferson 8/30/2020
Laboratory 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.#: 20H0434

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) EFF - Daily
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	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	08/19/20	1115	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.91/12.5°C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
AUG 19 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (CAC)	08/19/20	17:20
Received by		Armando Olmos (Patchem)	8/19/20	17:20
Relinquished by		Armando Olmos (Patchem)	8/19/20	14:00
Received by				
Relinquished by				
Received by		AUG 19 2020		1353

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: 30-Aug-20 22:27
Subject: (MCC) Weekly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0436-01) Collected: 19-Aug-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AH02037	1	20-Aug-20	20-Aug-20	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AH02414	0.10	24-Aug-20	24-Aug-20	**<0.10 mg/l**	
Nitrate as N	EPA 353.2	AH02036	0.05	20-Aug-20	20-Aug-20	**0.10 mg/l**	
Nitrite as N	EPA 353.2	AH02036	0.05	20-Aug-20	20-Aug-20	**<0.05 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AH02624	0.10	26-Aug-20	27-Aug-20	**0.12 mg/l**	
EFF (Sample I.D.# : 20H0436-02) Collected: 18-Aug-20 By CA							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AH02038	2	20-Aug-20	25-Aug-20	**7 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/30/2020
Laboratory 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.#: 20H0436

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Weekly	
Address: 9297 Research Drive, Irvine CA 92618		**Sampled by:**	**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	08/19/20	1115	1	TSS	Grab	AQ	1L P	4°C	7.51/27.5
			1	Ammonia, TKN	Grab	AQ	500 P	4°C	
			1	Nitrate, Nitrite	Grab	AQ	250 P	4°C	
	08/18/20	0000	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
AUG 19 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (CPC)	08/19/20	17:10
Received by		Armando Olmos (Pat-Chem)	8/19/20	1720
Relinquished by		Armando Olmos (Pat-Chem)	8/19/20	1800
Received by				
Relinquished by				
Received by		AUG 19 2020		1411

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-20 21:19
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0462-01) Collected: 20-Aug-20 By GK							
Microbiological							
Fecal Coliforms	SM 9221E	AH02045	1.8	20-Aug-20	22-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH02045	1.8	20-Aug-20	22-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH02107	0.1	20-Aug-20	20-Aug-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH02109	0.05	21-Aug-20	21-Aug-20	**0.10 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/30/2020
Laboratory 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.#: 20H0462

Customer: IPC - Integrated Performance Consultants, Inc.		Project: (MCC) EFF - Daily	
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	8/20/20	11:00	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.6 / 17.5°C
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
AUG 20 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: GK	Golan IPC	8/20/20	17:10
Received by:	Amanda Ohnes (Patchem)	8/20/20	12:10
Relinquished by:	Amanda Ohnes (Patchem)	8/20/20	13:45
Received by:			
Relinquished by:			
Received by:	AUG 20 2020		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.

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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-20 22:03
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0497-01) Collected: 21-Aug-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AH02106	1.8	21-Aug-20	23-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH02106	1.8	21-Aug-20	23-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH02205	0.1	21-Aug-20	21-Aug-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH02206	0.05	22-Aug-20	22-Aug-20	**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,

Steve Jefferson 8/30/2020
Laboratory 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.#: 20H0497

Customer: IPC - Integrated Performance Consultants, Inc.		Project: (MCC) EFF - Daily	
Address: 9297 Research Drive		Sampled by:	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	08/21/20	1145	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
AUG 21 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (SPC)	08/21/20	1150
Received by		Yaird Menjivar	8/21/20	12:56
Relinquished by		Yaird Menjivar	8/21/20	14:24
Received by				
Relinquished by				
Received by		AUG 21 2020		1431

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: 30-Aug-20 22:07
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0504-01) Collected: 22-Aug-20 By MA							
Microbiological							
Fecal Coliforms	SM 9221E	AH02204	1.8	22-Aug-20	24-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH02204	1.8	22-Aug-20	24-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH02324	0.1	22-Aug-20	22-Aug-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH02323	0.05	23-Aug-20	23-Aug-20	**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,

Steve Jefferson 8/30/2020
Laboratory 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.#: 2GH0504

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) EFF - Daily
Address:	9297 Research Drive Irvine CA 92618	Sampled by:	Mario Aguirre
		Report Attention:	Ric Vardel / Golan Kfir
		P.O. #:	
		Phone #:	949-382-3067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	8/22/20	6:15	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
AUG 22 2020
BY

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Mario Aguirre (IPC)	8/22/20	6:20
Received by	Alex Walker Jr	8/22/20	1300
Relinquished by			
Received by			
Relinquished by			
Received by	AUG 22 2020		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	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: 30-Aug-20 22:10
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0508-01) Collected: 23-Aug-20 By JA							
Microbiological							
Fecal Coliforms	SM 9221E	AH02322	1.8	23-Aug-20	25-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH02322	1.8	23-Aug-20	25-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH02630	0.1	23-Aug-20	23-Aug-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH02415	0.05	24-Aug-20	24-Aug-20	**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,

Steve Jefferson 8/30/2020
Laboratory 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.#: 20H0508

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) EFF - Daily
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	8-23-20	9:35	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avalos	Jesus Avalos IPC	8-23-20	9:40
Received by	RM PCL	8/23/2020	1420
Relinquished by			
Received by			
Relinquished by			
Received in lab by	RM PCL	8/23/20	1621

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 (PCL) Terms and Conditions

1. Definitions

2. Independent Contractor

3. Orders and Acceptance

4. Limit of Liability

5. Clients Responsibility

6. Cancellation

7. Overriding Agreement

8. Force Majeure

9 Confidentiality

10 Hold Harmless

11. Hazardous Substances

12. Prices/Payments

13. Agreement Modification

14. No Third Party Beneficiaries. No Right of Reliance

15. Rush Analysis

16. Holding Times

17. Sample Retention

18. Sample Pick Up/Field Tech Sampling

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-20 22:13
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0524-01) Collected: 24-Aug-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AH02419	1.8	24-Aug-20	26-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH02419	1.8	24-Aug-20	26-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH02630	0.1	24-Aug-20	24-Aug-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH02423	0.05	24-Aug-20	24-Aug-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/30/2020
Laboratory 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.#: 20H0524

Customer: IPC - Integrated Performance Consultants, Inc.

Project: (MCC) EFF - Daily

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	08/24/20	1130	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
AUG 24 2020

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (Gde)	08/24/20	1140
Received by		(PM)	8/24/20	1140
Relinquished by		(PM)	8/24/20	1400
Received by				
Relinquished by				
Received for Lab by		AUG 24 2020		

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-20 22:15
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0546-01) Collected: 25-Aug-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AH02525	1.8	25-Aug-20	27-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH02525	1.8	25-Aug-20	27-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH02630	0.1	25-Aug-20	25-Aug-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH02631	0.05	26-Aug-20	26-Aug-20	**0.10 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 8/30/2020
Laboratory 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.#: 20H0546

Customer: IPC - Integrated Performance Consultants, Inc.

Project: **(MCC) EFF - Daily**

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	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	08/25/20	1155	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
AUG 25 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	08/25/20	11:58
Received by		Juan Vasquez (PCL)	8/25/20	11:58
Relinquished by		Juan Vasquez (PCL)	8/25/20	13:50
Received by				
Relinquished by				
Received in lab by		AUG 25 2020		1221

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
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-20 17:13
Subject: (MCC) Weekly INF

Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20H0586-01) Collected: 25-Aug-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AH02718	1	27-Aug-20	27-Aug-20	**212 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AH02719	2	27-Aug-20	01-Sep-20	**344 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 9/1/2020
Laboratory 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.#: 20H0586

Customer: IPC - Integrated Performance Consultants, Inc.
Address: 9297 Research Drive Irvine CA 92618
Project : (MCC) INF - Weekly
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
INF	08/25/20	0000	1	TSS	Comp	AQ	1L P	4°C	7.37/21.2°C
			1	BOD	Comp	AQ	1L P	4°C	
1	1	1							

RECEIVED
AUG 26 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Carlos Alvarez (SPC)	08/26/20	12:15
Received by	Brenda Olmos (PCL)	8/26/20	12:15
Relinquished by	Brenda Olmos (PCL)	8/26/20	14:05
Received by			
Relinquished by			
Received in lab by	AUG 26 2020		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
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
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-20 22:17
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0581-01) Collected: 26-Aug-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AH02636	1.8	26-Aug-20	28-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH02636	1.8	26-Aug-20	28-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH02640	0.1	26-Aug-20	26-Aug-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH02641	0.05	26-Aug-20	26-Aug-20	**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,

Steve Jefferson 8/30/2020
Laboratory 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.#: 20H0581

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

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	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	08/26/20	1130	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.47 / 26.4°C
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
AUG 26 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (SPL)	08/26/20	12:15
Received by		Armando Alvarez (Patchem)	8/26/20	12:15
Relinquished by		Armando Alvarez (Patchem)	8/26/20	12:05
Received by				
Relinquished by				
Received in Lab by		AUG 26 2020		1409

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: 10-Sep-20 14:56
Subject: (MCC) Weekly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0582-01) Collected: 26-Aug-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AH02718	1	27-Aug-20	27-Aug-20	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AH03118	0.10	31-Aug-20	31-Aug-20	**0.28 mg/l**	
Nitrate as N	EPA 353.2	AH02717	0.05	27-Aug-20	28-Aug-20	**0.05 mg/l**	
Nitrite as N	EPA 353.2	AH02717	0.05	27-Aug-20	28-Aug-20	**<0.05 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AI00127	0.20	01-Sep-20	02-Sep-20	**1.26 mg/l**	
EFF (Sample I.D.# : 20H0582-02) Collected: 25-Aug-20 By CA							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AH02719	2	27-Aug-20	01-Sep-20	**12 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 9/10/2020
Laboratory 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.#: 20H0582

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Weekly	
Address: 9297 Research Drive, Irvine, CA 92618		**Sampled by:** C-D	**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	08/26/20	1130	1	TSS	Grab	AQ	1L P	4°C	7.47 / 26.4 °C
			1	Ammonia, TKN	Grab	AQ	500 P	4°C	
			1	Nitrate, Nitrite	Grab	AQ	250 P	4°C	
	08/25/20	0000	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
AUG 26 2020

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (CPC)	08/26/20	17:15
Received by		Armando Olmos (IPC)	8/26/20	17:15
Relinquished by		Armando Olmos (IPC)	8/26/20	17:05
Received by				
Relinquished by				
Received in lab by		AUG 26 2020		1411

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-20 22:20
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0598-01) Collected: 27-Aug-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AH02721	1.8	27-Aug-20	29-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH02721	1.8	27-Aug-20	29-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH02808	0.1	27-Aug-20	27-Aug-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH02807	0.05	28-Aug-20	28-Aug-20	**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,

Steve Jefferson 8/30/2020
Laboratory 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.#: 20H0598

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive		Sampled by: C.	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	08/27/20	1025	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
1	1	1							
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by	C.	Carlos Alvarez (IPC)	08/27/20	
Received by	Elo	Guarlo pm	8/27/20	1130
Relinquished by	Elo	Guarlo pm	8/27/20	1210
Received by				
Relinquished by				
Received in lab by	Elo	Carlo pm	8/27/20	1280

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
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 (PCL) Terms and Conditions

1. Definitions

2. Independent Contractor

3. Orders and Acceptance

4. Limit of Liability

5. Clients Responsibility

6. Cancellation

7. Overriding Agreement

8. Force Majeure

9. Confidentiality

10. Hold Harmless

11. Hazardous Substances

12. Prices/Payments

13. Agreement Modification

14. No Third Party Beneficiaries: No Right of Reliance

15. Rush Analysis

16. Holding Times

17. Sample Retention

18. Sample Pick Up/Field Tech Sampling

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-20 17:10
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0621-01) Collected: 28-Aug-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH02806	1.8	28-Aug-20	30-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH02806	1.8	28-Aug-20	30-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AH02906	0.1	28-Aug-20	28-Aug-20	**7.3 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH02905	0.05	29-Aug-20	29-Aug-20	**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,

Steve Jefferson 9/1/2020
Laboratory 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.#: 20H0621

Customer: IPC - Integrated Performance Consultants, Inc.		Project: (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine CA 92618		Sampled by: CV	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	08/28/20	1135	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	"	"	1	Total Coiiform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
AUG 28 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	CV	Caitlin Alvarez (Calx)	08/28/20	1140
Received by	Juan Vasquez	Juan Vasquez (PCL)	8/28/20	1148
Relinquished by	Juan Vasquez	Juan Vasquez (PCL)	8/28/20	13:25
Received by				
Relinquished by				
Received by		AUG 28 2020		1335

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

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-20 16:18
Subject: (MCC) Daily EFF

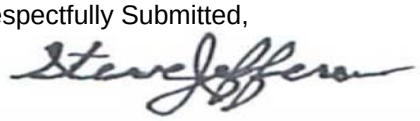
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0629-01) Collected: 29-Aug-20 By Mario Aguirre							
Microbiological							
Fecal Coliforms	SM 9221E	AH02904	1.8	29-Aug-20	31-Aug-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH02904	1.8	29-Aug-20	31-Aug-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI00224	0.1	29-Aug-20	29-Aug-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AH02911	0.05	29-Aug-20	29-Aug-20	**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,



Steve Jefferson 9/2/2020
Laboratory 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.#: 20H0629

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618	Sampled by: Maric Aguirre	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	8/29/20	9:43	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
〃	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Maric Aguirre (IPC)	8/29/20	9:45
Received by	Jairo Manjivar	8/29/20	9:45
Relinquished by	Jairo Manjivar	8/29/20	10:30
Received by			
Relinquished by			
Received in lab by Jordan C.	JC	8/29/20	1036

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: 02-Sep-20 16:20
Subject: (MCC) Daily EFF

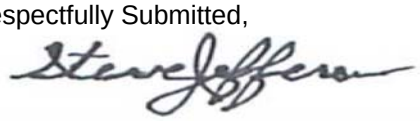
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0634-01) Collected: 30-Aug-20 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH03013	1.8	30-Aug-20	01-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH03013	1.8	30-Aug-20	01-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI00224	0.1	30-Aug-20	30-Aug-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI00136	0.05	31-Aug-20	31-Aug-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 9/2/2020
Laboratory 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.#: 20H0634

(MCC) EFF - Daily

Customer: IPC - Integrated Performance Consultants, Inc.		Project :	
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	8-30-20	9:35	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avalos	Jesus Avalos IPC	8-30-20	9:40
Received by	RM PCL	8/30/20	1055
Relinquished by			
Received by			
Relinquished by			
Received in lab by	RM PCL	8/30/20	1313

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 (PCL) Terms and Conditions

1. Definitions

"Terms and Conditions" and/or "Terms" shall include Terms and Conditions of Sale, including the price schedule, and any addenda or amendments hereto which are agreed to in writing. "Client" means the individual or entity who/which requests laboratory services, consulting or sampling oversight and for its/their successors, assigns and representatives. "Price Schedule" means Pat-Chem Laboratories (PCL) standard price schedule. Any such Schedule may be amended or revised from time to time by PCL.

2. Independent Contractor

PCL acts solely as an independent contractor in performing its 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 modification of the Terms shall be valid and binding unless in writing and signed by an authorized representative of the Client and PCL.

Client may place orders for services by submitting a written Client Purchase Order 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 conditions and 2. an agreement to be bound by these terms and conditions. The Client's delivery of samples to PCL or instructing PCL complete services constitutes the client's express assent to be governed by these terms and conditions. No contrary or additional terms and conditions proposed by a client's purchase order 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), EA Waterboard (TELAP), 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 composition 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 [illegible] and all subsequent orders for [illegible] whether placed in writing or verbally. [illegible] Terms are modified in writing executed by the [illegible] representative of both parties.

8. Force Majeure

PCL shall not be responsible for delays or failures in performance resulting from acts or occurrences beyond the reasonable control of PCL. Such acts or occurrences shall include, but not be limited to, acts of God, acts of civil or military authority, fires, floods, epidemics, quarantine restrictions, riots, strikes, freight embargoes, unusually severe weather, delays in transportation, inability to obtain necessary labor, materials or manufacturing facilities, delays in the performance of PCL's suppliers or subcontractors due to any of the foregoing causes, and any other 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 in the public domain or client has given to you PCL his all services, evidence, or otherwise in breach of the agreement) subject to any disclosure required by law or by a court. PCL shall use the same standard of care it uses in protecting its own confidential data and shall not be responsible for unwillingness disclosure of such data when such standard was observed. PCL reports and information provided thereunder are for the exclusive use and benefit of client and client agrees that it will not to third party furnishers of such reports, data or information. Client will not disclose to any third party any information about our testing, technical information, software programs or other know-how.

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, litigation expenses and experts arising in favor of Client or any third party as a result of, and to the extent caused by, arising out of, or in connection with the performance of services by PCL pursuant to this agreement and/or it amendments, handling, or disposal of client's 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 or causes, arising of every kind and character arising out of or in connection with client negligence or other 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 all 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 by any judicial or administrative authority (collectively, 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 at the time of submissions on the date the services were rendered or as otherwise 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 credit is 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 by law or as may be applicable law, any amount subject to this and of thirty (30) days is subject to interest at the lesser 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 in addition to the amount 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 clients 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 or relied upon, in connection with or as part of, the purchase, sale, underwriting, or distribution of any securities, any periodic or other recurring to the holders of any securities, the issuing, 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 14 days or less samples must arrive within 96 hours to allow PCL to meet holding times without applying a rush surcharge. All short holding times, 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 pick ups or sampling, might be accessed an additional fee.

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-20 16:22
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20H0648-01) Collected: 31-Aug-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AH03119	1.8	31-Aug-20	02-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AH03119	1.8	31-Aug-20	02-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI00224	0.1	31-Aug-20	31-Aug-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI00136	0.05	01-Sep-20	01-Sep-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 9/2/2020
Laboratory 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.#: 20H0648

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) EFF - Daily
Address:	9297 Research Drive Irvine CA 92618	Sampled by:	
		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	08/31/20	1155	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
1	1	1							

RECEIVED
AUG 31 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarado (CA)	08/31/20	1200
Received by			8/31/20	1200 1255
Relinquished by			8/31/20	1300
Received by				
Relinquished by				
Received in lab by		AUG 31 2020		1259

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	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: 08-Sep-20 13:13
Subject: (MCC) Daily EFF

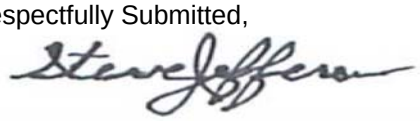
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0024-01) Collected: 01-Sep-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI00128	1.8	01-Sep-20	03-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI00128	1.8	01-Sep-20	03-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI00224	0.1	01-Sep-20	01-Sep-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI00226	0.05	02-Sep-20	02-Sep-20	**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,



Steve Jefferson 9/8/2020
Laboratory 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.#: 20I0024

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) EFF - Daily
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	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	09/01/20	1120	1	pH, T.Res Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
SEP 01 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	09/01/20	12:38
Received by		Juan Vasquez (PCL)	9/01/20	12:38
Relinquished by		Juan Vasquez (PCL)	9/1/20	1350
Received by				
Relinquished by				
Received by		SEP 01 2020		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	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: 08-Sep-20 13:15
Subject: (MCC) Daily EFF

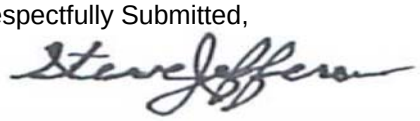
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0077-01) Collected: 02-Sep-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AI00232	1.8	02-Sep-20	04-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI00232	1.8	02-Sep-20	04-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI00330	0.1	02-Sep-20	02-Sep-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI00236	0.05	02-Sep-20	02-Sep-20	**0.10 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 9/8/2020
Laboratory 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.#: 201077

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive		Sampled by:	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	09/02/20	1130	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPC!									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (Cape)	09/02/20	1230
Received by	EG	GG	9.2.20	1230
Relinquished by				
Received by				
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	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 (PCL) Terms and Conditions

1. Definitions

2. Independent Contractor

3. Orders and Acceptance

4. Limit of Liability

5. Clients Responsibility

6. Cancellation

7. Overriding Agreement

8. Force Majeure

9. Confidentiality

10. Hold Harmless

11. Hazardous Substances

12. Prices/Payments

13. Agreement Modification

14. No Third Party Beneficiaries: No Right of Reliance

15. Rush Analysis

16. Holding Times

17. Sample Retention

18. Sample Pick Up/Field Tech Sampling

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-Sep-20 12:39
Subject: (MCC) Monthly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0093-01) Collected: 02-Sep-20 By CA							
Physical Properties							
Total Dissolved Solids	SM 2540C	AI00326	5	03-Sep-20	04-Sep-20	**1180 mg/l**	
Inorganic Constituents							
Chloride	EPA 300.0	AI00512	20.0	05-Sep-20	05-Sep-20	**264 mg/l**	
Sulfate as SO4	EPA 300.0	AI00512	10.0	05-Sep-20	05-Sep-20	**144 mg/l**	
Boron	EPA 200.7	AI00325	0.10	03-Sep-20	14-Sep-20	**0.45 mg/l**	
Phosphorus, Total as P	EPA 365.3	AI00510	0.05	05-Sep-20	05-Sep-20	**0.42 mg/l**	
Aggregate Organic Constituents							
MBAS	SM 5540 C	AI00237	0.08	02-Sep-20	02-Sep-20	**0.09 mg/l**	
Oil & Grease (HEM)	EPA 1664A	AI00416	5	04-Sep-20	14-Sep-20	**<5 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 9/18/2020
Laboratory 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.#: 20I0093

Customer: IPC - Integrated Performance Consultants, Inc.		Project: (MCC) EFF - Monthly	
Address: 9297 Research Drive Irvine CA 92618	Sampled by:	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	09/02/20	1130	1	Sulfate, Chioride, TDS	Grab	AQ	1/2 Gal. P	4°C	
			1	MBAS	Grab	AQ	500 P	4°C	
			1	Oil & Grease	Grab	AQ	1L G	HC	
			1	Boron	Grab	AQ	250 P	HN	
			1	T.Phos	Grab	AQ	500 P	4°C	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

RECEIVED
SEP 02 2020
By

Signature	Print Name (Company)	Date	Time
Relinquished by	Carlos Alvarez (IPC)	09/02/20	1230
Received by		9.2.20	1230
Relinquished by			
Received by			
Relinquished by			
Received in lab by		SEP 02 2020	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: 18-Sep-20 12:45
Subject: (MCC) Weekly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0094-01) Collected: 02-Sep-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AI00414	1	04-Sep-20	04-Sep-20	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AI00818	0.10	08-Sep-20	08-Sep-20	**0.44 mg/l**	
Nitrate as N	EPA 353.2	AI00335	0.05	03-Sep-20	03-Sep-20	**0.06 mg/l**	
Nitrite as N	EPA 353.2	AI00335	0.05	03-Sep-20	03-Sep-20	**<0.05 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AI01025	1.00	10-Sep-20	11-Sep-20	**1.24 mg/l**	
EFF (Sample I.D.# : 20I0094-02) Collected: 01-Sep-20 By CA							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AI00323	2	03-Sep-20	08-Sep-20	**4 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 9/18/2020
Laboratory 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.#: 20I0094

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Weekly	
Address: 9297 Research Drive, Irvine, CA 92618		**Sampled by:**	**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	09/02/20	1130	1	TSS	Grab	AQ	1L P	4°C	
			1	Ammonia, TKN	Grab	AQ	500 P	4°C	
			1	Nitrate, Nitrite	Grab	AQ	250 P	4°C	
	09/01/20	0000	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
SEP 02 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (CPC)	09/02/20	1230
Received by			9.2.20	1230
Relinquished by				
Received by				
Relinquished by				
Received in lab by		SEP 02 2020		1540

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: 08-Sep-20 13:18
Subject: (MCC) Weekly INF

Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20I0092-01) Collected: 02-Sep-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AI00414	1	04-Sep-20	04-Sep-20	**195 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AI00323	2	03-Sep-20	08-Sep-20	**308 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 9/8/2020
Laboratory 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.#: 20I0092

Customer: IPC - Integrated Performance Consultants, Inc.		**Project:** (MCC) INF - Weekly	
Address: 9297 Research Drive, Irvine, CA 92618		**Sampled by:** Julio Leal	**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
INF	09.02.20	11:30	1	TSS	Comp	AQ	1L P	4°C	
			1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
SEP 02 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR i00000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Julio Leal	9.2.20	1530
Received by		9.2.20	1530
Relinquished by			
Received by			
Relinquished by			
Received in lab by		SEP 02 2020	1521

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: 18-Sep-20 12:04
Subject: (MCC) Daily EFF

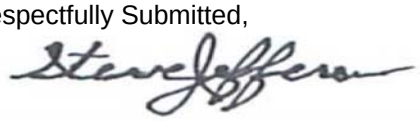
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0124-01) Collected: 03-Sep-20 By Golan Kfir of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI00328	1.8	03-Sep-20	05-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI00328	1.8	03-Sep-20	05-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI00410	0.1	03-Sep-20	03-Sep-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI00409	0.05	04-Sep-20	04-Sep-20	**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,



Steve Jefferson 9/18/2020
Laboratory 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.#: 20I0124

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) EFF - Daily
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	9/3/20	11:15	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
SEP 03 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: GK	Golan IPC	9/3/20	1320
Received by:		9.3.20	1320
Relinquished by:		9.3.20	1415
Received by:			
Relinquished by:			
Received in lab by:	SEP 03 2020		1329

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: 18-Sep-20 12:06
Subject: (MCC) Daily EFF

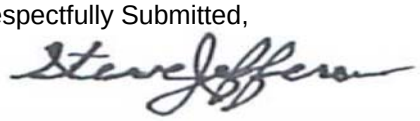
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0144-01) Collected: 04-Sep-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI00408	1.8	04-Sep-20	06-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI00408	1.8	04-Sep-20	06-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI00506	0.1	04-Sep-20	04-Sep-20	**7.3 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI00505	0.05	05-Sep-20	05-Sep-20	**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,



Steve Jefferson 9/18/2020
Laboratory 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.#: 20J0144

Customer:	IPC - Integrated Performance Consultants Inc.	Project :	(MCC) EFF - Daily
Address:	9297 Research Drive Irvine CA 92618	Sampled by:	C D
		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	09/04/20	1150	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.32/17.7 °C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
SEP 04 2020
BY

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (CAR)	09/04/20	12:20
Received by		Armando Olvera (AO)	9/4/20	12:20
Relinquished by		Armando Olvera (AO)	9/4/20	14:20
Received by				
Relinquished by				
Received in lab by		SEP 04 2020		1408

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: 18-Sep-20 12:08
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0151-01) Collected: 05-Sep-20 By Mario Aguirre of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI00504	1.8	05-Sep-20	07-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI00504	1.8	05-Sep-20	07-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI00511	0.1	05-Sep-20	05-Sep-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI00509	0.05	05-Sep-20	05-Sep-20	**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,

Steve Jefferson 9/18/2020
Laboratory 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.#: 20I0151

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618		Sampled by: Mario Aguirre	P.O. #:
		Report Attention: Ric Vardell / 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	9/5/20	9:43	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
SEP 05 2020
By Alex Walker Jr.

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Mario Aguirre (IPC)	9/5/20	9:47
Received by	Alex Walker Jr.	Alex Walker Jr (PCL)	9/5/20	11:20
Relinquished by				
Received by				
Relinquished by				
Received in lab by	Alex Walker Jr.	SEP 05 2020		1305

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 (PCL) Terms and Conditions

1. Definitions

"Terms and Conditions" means these Terms and Conditions of Sale, including the price schedule, and any additional or amended terms to which Client has agreed to in writing. "Client" means the individual or entity who requests laboratory services, consulting or laboratory services and his or its heirs, successors, assigns or representatives. "Price Schedule" means Pat-Chem Laboratories (PCL) standard price schedule as such document may be amended or revised 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 hereinafter) under the following Terms and Conditions (the "Terms"). These Terms shall govern unless 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 (i) an acceptance by the client of PCL's offer to do business with the client under the terms and conditions and (ii) an agreement to be bound by these terms and conditions.

The Client's delivery of samples to PCL or utilization 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 statement shall be deemed to become a part of the contract creating such 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 methodology in which are in substantial conformity with the U.S. Environmental Protection Agency (EPA), CA Water Board (SWRCB), 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 composition 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 hereto, shall not exceed the invoiced amount for said services. Client's acceptance of a Work order and bill 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 conditions 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

Client and the sample material provided by client as part of client's project and the results obtained by PCL (collectively "Confidential Information") shall be kept confidential by PCL, and PCL shall not disclose Confidential Information to any third party without the prior written consent of client, except as required by law or governmental regulation. PCL shall use the same degree of care to protect Confidential Information as it uses to protect its own confidential information of like importance, but in no event less than reasonable care. PCL agrees that Confidential Information shall be used only for the purpose of performing services under this agreement. PCL shall not use Confidential Information for any purpose not expressly permitted by this agreement. PCL shall promptly notify client in the event it becomes aware of any loss or disclosure of Confidential Information.

10. Hold Harmless

Client releases and discharges, indemnifies, defends and holds harmless PCL, its officers, agents, employees, successors, and assigns from any and all claims, demands, causes of action, losses, damages, liabilities, costs and expenses (including attorneys' fees) of any nature whatsoever, known or unknown, fixed or contingent, asserted or unasserted, arising out of or related to any third party claim, cause of action or proceeding (whether or not PCL is a party) relating to or arising out of the performance of services by PCL under this agreement, any breach of this agreement by client, the handling, disposal or use of any client-provided sample, or client's failure to comply with any applicable law or regulation. Client's obligations under this section shall survive the termination of this agreement. Client shall not be liable for any claims, damages, losses, costs, liabilities, or expenses to the extent caused by PCL's gross negligence or willful misconduct. Client shall indemnify, defend, and hold harmless PCL, its officers, agents, employees, successors, and assigns from and against any and all claims, demands, causes of action, losses, damages, liabilities, costs, and expenses (including attorneys' fees) arising out of or related to any third party claim, cause of action, or proceeding (whether or not PCL is a party) relating to or arising out of the performance of services by PCL under this agreement, any breach of this agreement by client, the handling, disposal,

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-Sep-20 12:10
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0156-01) Collected: 06-Sep-20 By JC							
Microbiological							
Fecal Coliforms	SM 9221E	AI00606	1.8	06-Sep-20	08-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI00606	1.8	06-Sep-20	08-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI00923	0.1	06-Sep-20	06-Sep-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI00607	0.05	06-Sep-20	06-Sep-20	**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,

Steve Jefferson 9/18/2020
Laboratory 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.#: 20I0156

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) EFF - Daily
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	9-6-20	9:40	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
〃	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
SEP 06 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avalos	Jesus Avalos (IPC)	9-6-20	9:45
Received by: Alex Walker Jr.	Alex Walker Jr.	9-6-20	10:27
Relinquished by:			
Received by:			
Relinquished by:			
Received by: Alex Walker Jr.	SEP 06 2020		1300

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 (PCL) Terms and Conditions

1. Definitions

"Terms and Conditions" means these Terms and Conditions of Sale, including the price schedule, and any additional or supplemental terms which are agreed to in writing. "Client" means the individual or entity who may request laboratory services, consulting or sampling services and/or its duly authorized employees and representatives. "Price Schedule" means Pat-Chem Laboratories (PCL) standard price schedule as such document may be amended or revised 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 (delivered hereinafter) only under the following Terms. Terms and Conditions (the "Terms"). These Terms are all-inclusive. 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 letter of consent ("LOC") to PCL. Any such order constitutes it's acceptance by the client of PCL's offer to do business with the client under the terms and conditions and Client agrees 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 proposed by client's documents shall be construed 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 US Environmental Protection Agency (EPA), EA Engineering (EEAP), 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 composition 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 to or taken by PCL personnel at the request of Client shall be held in confidence unless such information is generally available to the public, or the public disclosure of which they or you PCL by appropriate authority or is appropriate to perform the agreement subject to the limitations contained herein. Any disclosure by Client, its agents and employees of information or data that is not confidential hereunder shall not be deemed a breach of confidence or violation of this agreement. Client shall not disclose any report or PCL reports and information prepared pursuant to this agreement to any third party, except to Client's agents, employees, consultants, and/or attorneys, and then only on a need to know basis. Client shall not use PCL's name or any officer or employee of PCL in any boilerplate, boilerplate, boilerplate,

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-Sep-20 12:12
Subject: (MCC) Daily EFF

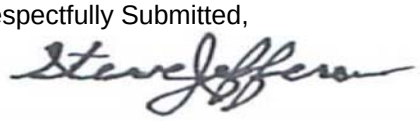
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0161-01) Collected: 07-Sep-20 By BJ of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI00721	1.8	07-Sep-20	09-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI00721	1.8	07-Sep-20	09-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI00923	0.1	07-Sep-20	07-Sep-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI00722	0.05	07-Sep-20	07-Sep-20	**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,



Steve Jefferson 9/18/2020
Laboratory 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.#: 20I0161

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618		Sampled by: Ben Jaxon	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	09/07/2020	1010	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
SEP 07 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Ben Jaxon IPC	09/07/2020	10:50
Received by	Alex Walker Jr	9-7-20	11:06
Relinquished by			
Received by			
Relinquished by			
Received by	SEP 07 2020		1303

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 (PCL) Terms and Conditions

1. Definitions

2. Independent Contractor

3. Orders and Acceptance

4. Limit of Liability

5. Clients Responsibility

6. Cancellation

7. Overriding Agreement

8. Force Majeure

9. Confidentiality

10. Hold Harmless

11. Hazardous Substances

12. Prices/Payments

13. Agreement Modification

14. No Third Party Beneficiaries: No Right of Reliance

15. Rush Analysis

16. Holding Times

17. Sample Retention

18. Sample Pick Up/Field Tech Sampling

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-Sep-20 12:18
Subject: (MCC) Daily EFF

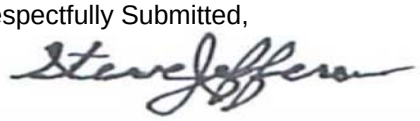
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0175-01) Collected: 08-Sep-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI00826	1.8	08-Sep-20	10-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI00826	1.8	08-Sep-20	10-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI00923	0.1	08-Sep-20	08-Sep-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI00922	0.05	09-Sep-20	09-Sep-20	**0.16 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 9/18/2020
Laboratory 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.#: 20 10175

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) EFF - Daily
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	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	09/08/20	1045	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

RECEIVED
SEP 08 2020
By

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (GRL)	09/08/20	1130
Received by	EL		9.8.20	1130
Relinquished by				
Received by				
Relinquished by				
Received by		SEP 08 2020		1250

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.

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1. Definitions

"Terms and Conditions" means these Terms and conditions of sale, including the price schedule, and any attachments 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 followed from time to time by PCL.

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The client may order services by submitting a written chain of custody (COC) to PCL. Any such order constitutes a acceptance by the client of PCL's offer to do business with the client under the Terms and conditions and is 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.

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4. Limit of Liability

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5. Clients Responsibility

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6. Cancellation

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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 in safeguarding its own confidential data and shall not be responsible for unauthorized disclosure of information unless such standard was violated. PCL reports and information provided thereunder are for the exclusive use and benefit of client and client agrees there shall be no third party beneficiary of PCL's 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 parents harmless from and against any and all liabilities, losses or damages, claims, demands, causes of action, costs 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 pertaining 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 client's 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 claims, causes of 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 an 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 analytes 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 prices in effect in effect at the date 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 clients a history of payment and if 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 as the end of thirty (30) days is subject to interest at the lesser 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 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 reviewed, or shall be used to relied upon, in connection with or as part of, the purchase, sale, underwriting, or distribution of any securities, any periodic or other reporting to the holders of any Masons, 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 14 days or less, samples must arrive within 96 hours to allow PCL to meet holding times without applying a rush surcharge. All short holding times, 7 days, samples must arrive at the lab within 24 hours before expiration to ensure 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/Fieid 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.

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-Sep-20 12:55
Subject: (MCC) Weekly INF

Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20I0208-01) Collected: 08-Sep-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AI01026	1	10-Sep-20	10-Sep-20	**252 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AI01027	2	10-Sep-20	15-Sep-20	**438 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 9/18/2020
Laboratory 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.#: 20I0208

Customer: ~~IPC - Integrated Performance Consultants, Inc.~~		**Project :** ~~(MCC) INF - Weekly~~	
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	09/08/20	0000	1	TSS	Comp	AQ	1L P	4°C	6.91/20.3°C
1	1	1	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
SEP 09 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	09/09/20	12:25
Received by		Amber Ohm (Pat-Chem)	9/9/20	12:25
Relinquished by		Amber Ohm (Pat-Chem)	9/9/20	13:35
Received by				
Relinquished by				
Received in lab by		SEP 09 2020		1419

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 (PCL) Terms and Conditions

1. **Definitions**

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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 conditions and 2. an agreement to be bound by these terms and conditions. The Client's delivery of samples to PCL or instruction to 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 composition 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 execution 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 constants 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/or sample materials provided to client from PCL shall be held in confidence and not disclosed to, or made available to the public or to the public domain or client has failed to pay PCL for its services rendered or another material breach of the agreement subject to this Section as required by law or court process. In any case this party receiving PCL data or samples shall give PCL reasonable notice of any such disclosure so that PCL may seek a protective order or other appropriate remedy and/or waive compliance with the confidentiality provisions of this agreement. In the event such protective order or other remedy is not obtained or PCL waives compliance with the confidentiality provisions of this agreement, client agrees that it will furnish only that portion of the data or samples which is legally required and will exercise its best efforts to obtain reliable assurance that confidential treatment will be accorded to the data or samples.

10. **Hold Harmless**

Client shall and shall cause its officers, agents, employees, PCL its employees, officers, directors, agents, affiliates, successors, assigns and any harmless from and against any and all claims, causes of action, suits and proceedings, liabilities, losses, damages, costs and expenses (including reasonable attorneys' fees and costs) of every kind and nature whatsoever, including, but not limited to, those resulting from, arising out of or in any way connected with the performance of services by PCL pursuant to this agreement and/or the generation, handling or disposal of client's hazardous materials. In event, because of client's breach of any of client's obligations under this agreement, PCL is compelled to incur expenses or render services other than those described above, client agrees to pay PCL its reasonable charges for such services and to indemnify and hold PCL harmless from and against any and all claims, causes of action, suits and proceedings

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-Sep-20 12:21
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0206-01) Collected: 09-Sep-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI00921	1.8	09-Sep-20	11-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI00921	1.8	09-Sep-20	11-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI00930	0.1	09-Sep-20	09-Sep-20	**7.2 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI00929	0.05	09-Sep-20	09-Sep-20	**0.10 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 9/18/2020
Laboratory 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.#: 20I0206

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine CA 92618	Sampled by: C.A.	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	09/09/20	1145	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.1 @ 27.7
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
1	1	1							

RECEIVED
SEP 09 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Olivares (Carc)	09/09/20	12:45
Received by		Armando Olivas (Carc)	9/9/20	12:45
Relinquished by		Armando Olivas (Carc)	9/9/20	13:35
Received by				
Relinquished by				
Received by				1405

SEP 09 2020

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
		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 (PCL) Terms and Conditions

1. Definitions

"Terms and Conditions" means these 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/which requests laboratory services, including all sampling services and the results, documents, analysis and representations. "Price Schedule" means Pat-Chem Laboratories (PCL) standard price schedule as such document may be amended or released 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 or take for granted only (as defined herein) orders under the following Contract 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 author and representative of the client and PCL.

The client may order services by submitting a written, faxed or e-mailed (OCR) or PCL duly quote dated Sept. 5, or acceptance by the client of PCL's offer to do business with the client under the terms and conditions and 2. an agreement to be bound by these terms and conditions. The Client's delivery of samples to PCL or instructing PCL's sampling services constitutes the client's express assent to be governed by these terms and conditions. No contrary or additional terms and conditions proposed by a client's document shall be deemed or become a part of the contract unless such 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 sound, current 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 those methodologies if necessary or appropriate due to the nature or composition 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 the 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 results and analysis provided by PCL to Client's request and for Client's benefit shall not be used or published by PCL in any manner that is unfavorable to the public, or to the public detriment that has to pay PCL for all services rendered or in connection or breach of the agreement to notify any developers created by use of PCL's products, PCL maintains the confidentiality of Client's data by providing to non-confidential data are obtained only as available for creating and processing of PCL's data which was provided and owned by PCL, namely, proprietary information provided by PCL are for the exclusive use and benefit of Client and Client's agents. Client or its third party, hereby waive all claims, costs, or losses against Client will not disclose to any entity, individual or company involving intellectual property.

10. Hold Harmless

Client agrees and shall save, indemnify, defend and hold PCL, its employees, officers, employees, agents, affiliates, successors and their shareholders, owners, directors, contractors and assigns harmless from and against any and all claims, damages, losses, liabilities including, but not limited to, attorneys' fees and costs of suit, arising in favor of Client or any third party as a result of, or to the extent arising in whole or in part out of, or in connection with, the performance of services by PCL pursuant to this agreement and/or any other agreement between Client and PCL, whether actual or alleged, in the performance of services under this agreement. The foregoing indemnity shall apply in addition to any liability or remedy that might otherwise inure to PCL and the other indemnified persons. To the extent necessary under applicable law, Client agrees that its indemnity obligation will be supported by a minimum liability insurance coverage to be maintained by Client, which coverage shall be in the minimum amount of $1,000,000 per occurrence and $2,000,000 annual aggregate combined single limit for bodily injury and property damage. Client agrees to provide PCL with a certificate of insurance evidencing such coverage upon request. Client's insurance shall be primary and non-contributory with any insurance carried by PCL. Client's insurance shall be endorsed to waive all rights of subrogation against PCL and to provide that PCL is an additional insured with respect to the services provided under this agreement.

11. Hazardous Substances

For PCL to perform the services requested by Client, Client will provide and PCL will receive samples containing or suspected to contain hazardous substances, petroleum or petroleum byproducts, or other regulated substances, as defined, determined or identified in such or similar federal, state or local laws, rules, policies or regulations (whether existing at the time of execution of this agreement or any time thereafter) (collectively "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 or prefer a 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 of 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 at the time of each service on the date the services were rendered or such price quoted and confirmed in writing. The price schedules, payment terms of any pre-qualified terms, discounts in advance or work, and/or equipment required for a new service or other terms of payment shall be as set forth in each Client's account with PCL. PCL shall not commence with any additional work, nor furnish the payment of charges for PCL's Client within thirty (30) days from date of invoices. Unless otherwise permitted or set by applicable law, any amount unpaid to the end of thirty (30) days is subject to interest at the lesser of the maximum rate permitted by law or one and one-half percent (1.5%) per month on the unpaid balances. If unpaid accounts are referred to or processed by an attorney, the client will pay reasonable costs and attorney's fees or agents' fees and costs of collection or litigation or actions.

13. Agreement Modification

Changes, modifications or amendments to the terms shall be effective only in writing and executed by an officer of PCL who is duly authorized representative, except that subsequent orders for additional services may be placed orally or in writing.

14. No Third Party Beneficiaries: No Right of Reliance

PCL shall have no responsibility or liability for client's copy of any reports, data, information or reports furnished by PCL. Client is solely responsible for his/her own actions, and not as agent, employee, or any other representative capacity for any other person or entity. It is agreed and understood 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 presented, or shall be used to solicit upon, in connection with or by part of the purchase, sale, underwriting, or syndication of any securities, any interests, or other recourse as the holder of the security, the issuer, amendment, renewal, or extension of any loan from any financial institution or subsidiary 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 advance. 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 received on weekends or after 3:00 P.M. hours without prior notification and acceptance. Standard holding times and storage conditions should be reviewed prior to any samples being received by PCL. A short holding times can be provided to the client if requested. All analyses with holding times of 72 hours or less, samples must arrive within 36 hours to allow PCL to meet holding times without applying a rush surcharge. For short holding times of 2-7 days, samples must arrive at the lab within 24 hours of the expiration to ensure that the holding times can be met. Short Holding Times of 48 hours or less (analysis) it is found 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 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 noted 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.

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-Sep-20 13:14
Subject: (MCC) Weekly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0212-01) Collected: 09-Sep-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AI01026	1	10-Sep-20	10-Sep-20	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AI01423	0.10	14-Sep-20	14-Sep-20	**<0.10 mg/l**	
Nitrate as N	EPA 353.2	AI01028	0.05	10-Sep-20	10-Sep-20	**0.06 mg/l**	
Nitrite as N	EPA 353.2	AI01028	0.05	10-Sep-20	10-Sep-20	**<0.05 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AI01420	1.00	14-Sep-20	15-Sep-20	**1.70 mg/l**	
EFF (Sample I.D.# : 20I0212-02) Collected: 08-Sep-20 By CA							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AI01027	2	10-Sep-20	15-Sep-20	**4 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 9/23/2020
Laboratory 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-Sep-20 12:23
Subject: (MCC) Daily EFF

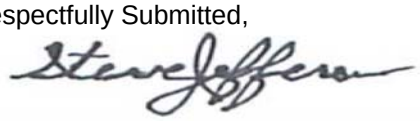
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0245-01) Collected: 10-Sep-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI01031	1.8	10-Sep-20	12-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI01031	1.8	10-Sep-20	12-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI01110	0.1	10-Sep-20	10-Sep-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI01109	0.05	11-Sep-20	11-Sep-20	**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,



Steve Jefferson 9/18/2020
Laboratory 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.#: 20I0245

(MCC) EFF - Daily

Customer: IPC - Integrated Performance Consultants, Inc.

Project :

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	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	09/10/20	1145	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
1	1	1							

RECEIVED
SEP 10 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (SPC)	09/10/20	1230
Received by	Elb Cab		9.10.20	1230
Relinquished by	Elb Cab		9.10.20	1400
Received by				
Relinquished by				
Received in lab by		SEP 10 2020		1319

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: 18-Sep-20 12:25
Subject: (MCC) Daily EFF

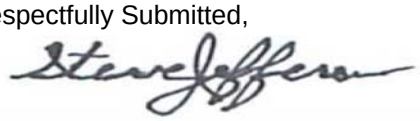
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0269-01) Collected: 11-Sep-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI01108	1.8	11-Sep-20	13-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI01108	1.8	11-Sep-20	13-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI01212	0.1	11-Sep-20	11-Sep-20	**7.3 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI01206	0.05	12-Sep-20	12-Sep-20	**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,



Steve Jefferson 9/18/2020
Laboratory 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.#: 20I0269

Customer: IPC - Integrated Performance Consultants, Inc.
Address: 9297 Research Drive, Irvine, CA 92618
Project: (MCC) EFF - Daily
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	09/11/20	1130	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.76/24.9°C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
1	1	1							

RECEIVED
SEP 11 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (CAPE)	09/11/20	12:10
Received by		Amanda Olmos (Pat-Chem)	9/11/20	12:40
Relinquished by		Amanda Olmos (Pat-Chem)	9/11/20	13:05
Received by				
Relinquished by				
Received by			SEP 11 2020	1334

Sample Received Checklist

Temperature upon receipt: 4C

# 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
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-Sep-20 12:28
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0277-01) Collected: 12-Sep-20 By Mario Aguirre of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI01205	1.8	12-Sep-20	15-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI01205	1.8	12-Sep-20	15-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI01318	0.1	12-Sep-20	12-Sep-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI01317	0.05	13-Sep-20	13-Sep-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 9/18/2020
Laboratory 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.#: 201027

Customer: IPC - Integrated Performance Consultants, Inc.		Project: (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618		Sampled by: Mario Aguirre	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	9/12/20	9:40	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	9:40	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
SEP 12 2020
BY

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Mario Aguirre (IPC)	9/12/20	9:45
Received by		Alex Wallin Sr	9/12/20	11:53
Relinquished by				
Received by				
Relinquished by				
Received in lab by		SEP 12 2020		1446

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: 18-Sep-20 12:30
Subject: (MCC) Daily EFF

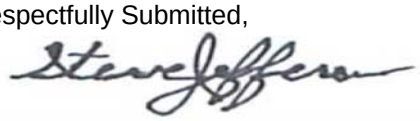
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0281-01) Collected: 13-Sep-20 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI01316	1.8	13-Sep-20	15-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI01316	1.8	13-Sep-20	15-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI01320	0.1	13-Sep-20	13-Sep-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI01321	0.05	13-Sep-20	13-Sep-20	**0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 9/18/2020
Laboratory 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.#: 20F6281

(MCC) EFF - Daily

Customer: IPC - Integrated Performance Consultants, Inc.		Project :	
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	9-13-20	9:40	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
〃	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avalos	Jesus Avalos IPC	9-13-20	9:45
Received by:			
Relinquished by:			
Received by:			
Relinquished by:	Rm PCL	9/13/2020	1250
Received in lab by:	Rm PCL	9/13/2020	1250 1427

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 Comp	HC - HCl 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 (PCL) Terms and Conditions

1. Definitions

2. Independent Contractor

3. Orders and Acceptance

4. Limit of Liability

5. Clients Responsibility

Unless PCL personnel performs the sampling, the client shall be responsible for the conditions 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 to laboratory 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 in the public domain at the time) and not to be disclosed by PCL for whatever reason(s) and in the event of breach of the agreement caused by 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 such data or information. Client agrees that PCL shall not be liable for any claims, losses or damages resulting from the use of any reports, data or information. Client will not disclose any testing methods, software or procedures developed by PCL.

10. Hold Harmless

11. Hazardous Substances

12. Prices/Payments

13. Agreement Modification

14. No Third Party Beneficiaries: No Right of Reliance

15. Rush Analysis

Rush analyses are available for an additional charge and must be arranged in advance. 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 services that are delivered on weekends or after 2pm on weekdays without prior notification and acceptance. Shallow holding times and abusive 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. We will provide holding times of 14 days or less. Samples must arrive within 48 hours to allow PCL to meet holding times without applying a rush surcharge. All short holding times (<7 days, samples must arrive at the lab no later than 24 hours before expiration to insure that the holding times can be met. Short Holding Times of 72 hours or less (preferably 48 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.

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-Sep-20 12:34
Subject: (MCC) Daily EFF

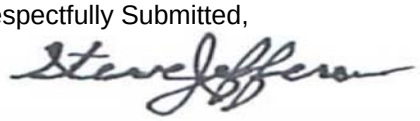
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0294-01) Collected: 14-Sep-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI01426	1.8	14-Sep-20	16-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI01426	1.8	14-Sep-20	16-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI01626	0.1	14-Sep-20	14-Sep-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI01521	0.05	15-Sep-20	15-Sep-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 9/18/2020
Laboratory 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.#: 20I0294

Customer: IPC - Integrated Performance Consultants, Inc.

Project: (MCC) EFF - Daily

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	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	09/14/20	1100	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
	1	1	1						

RECEIVED
SEP 14 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	09/14/20	1110
Received by	Elo Cruz	MM	9/14/20	1130
Relinquished by	Elo Cruz	MM	9/14/20	1200
Received by				
Relinquished by				
Received by		SEP 14 2020		1217

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
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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-Sep-20 12:36
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0331-01) Collected: 15-Sep-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI01533	1.8	15-Sep-20	17-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI01533	1.8	15-Sep-20	17-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI01626	0.1	15-Sep-20	15-Sep-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI01625	0.05	16-Sep-20	16-Sep-20	**0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 9/18/2020
Laboratory 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.#: 20I0331

Customer: IPC - Integrated Performance Consultants, Inc.

Project: **(MCC) EFF - Daily**

Address: 9297 Research Drive, Irvine, CA 92618

Sampled by: Rio 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	09/15/20	1135	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	(	)	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
SEP 15 2020

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (Cpc)	09/15/20	1220
Received by	Eb	Eb Carlo	9.15.20	1230
Relinquished by	Eb	Eb	9.15.20	1330
Received by				
Relinquished by				
Received in lab by		SEP 15 2020		1355

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: 23-Sep-20 13:16
Subject: (MCC) Weekly INF

Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20I0388-01) Collected: 15-Sep-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AI01731	1	17-Sep-20	17-Sep-20	**244 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AI01730	2	17-Sep-20	22-Sep-20	**386 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 9/23/2020
Laboratory 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.#: 20I0388

Customer: IPC - Integrated Performance Consultants, Inc.
Address: 9297 Research Drive, Irvine, CA 92618
Project: (MCC) INF - Weekly
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
INF	09/15/20	0000	1	TSS	Comp	AQ	1L P	4°C	
			1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
SEP 16 2020

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (SPL)	09/16/20	1230
Received by			9.16.20	1230
Relinquished by			9.16.20	1330
Received by				
Relinquished by				
Received lab by		SEP 16 2020		1457

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-Sep-20 12:59
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0376-01) Collected: 16-Sep-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI01624	1.8	16-Sep-20	18-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI01624	1.8	16-Sep-20	18-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI01638	0.1	16-Sep-20	16-Sep-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI01637	0.05	16-Sep-20	16-Sep-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 9/23/2020
Laboratory 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.#: 20I0376

Customer: IPC - Integrated Performance Consultants, Inc.

Project: (MCC) EFF - Daily

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	09/16/20	0935	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
SEP 16 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (SPC)	09/16/20	1230
Received by			9.16.20	1230
Relinquished by			9.16.20	1330
Received by				
Relinquished by				
Received at LCO by		SEP 16 2020		1417

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: 28-Sep-20 15:58
Subject: (MCC) Weekly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0389-01) Collected: 16-Sep-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AI01731	1	17-Sep-20	17-Sep-20	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AI01814	0.10	18-Sep-20	18-Sep-20	**0.24 mg/l**	
Nitrate as N	EPA 353.2	AI01816	0.05	17-Sep-20	17-Sep-20	**<0.05 mg/l**	
Nitrite as N	EPA 353.2	AI01816	0.05	17-Sep-20	17-Sep-20	**<0.05 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AI02322	0.10	23-Sep-20	24-Sep-20	**1.01 mg/l**	
EFF (Sample I.D.# : 20I0389-02) Collected: 15-Sep-20 By CA							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AI01730	2	17-Sep-20	22-Sep-20	**2 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 9/28/2020
Laboratory 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.#: 20I0389

Customer:	IPC - Integrated Performance Consultants, Inc.	**Project :**	(MCC) EFF - Weekly
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	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	09/16/20	0935	1	TSS	Grab	AQ	1L P	4°C	
			1	Ammonia, TKN	Grab	AQ	500 P	4°C	
			1	Nitrate, Nitrite	Grab	AQ	250 P	4°C	
	09/15/20	0000	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
SEP 16 2020

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	09/16/20	1230
Received by			9.16.20	1230
Relinquished by			9.16.20	1330
Received by				
Relinquished by				
Received in lab by		SEP 16 2020		1503

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: 23-Sep-20 13:01
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0429-01) Collected: 17-Sep-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI01732	1.8	17-Sep-20	19-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI01732	1.8	17-Sep-20	19-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI01906	0.1	17-Sep-20	17-Sep-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI01809	0.05	18-Sep-20	18-Sep-20	**0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 9/23/2020
Laboratory 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.#: 20I0429

Customer: IPC - Integrated Performance Consultants, Inc.

Project : (MCC) EFF - Daily

Address: 9297 Research Drive, Irvine, CA 92618

Sampled by: [signature]

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	09/17/20	1130	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform. Fecal Coliform	Grab	AQ	Coli	ST	
1	1	1							

RECEIVED
SEP 17 2020
By [signature]

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	[signature]	Carlos Olivares (SPL)	09/17/20	1330
Received by	[signature]	Jordan Corkery	9/17/20	1330
Relinquished by	[signature]	Jordan Corkery	9/17/20	1430
Received by				
Relinquished by				
Received in lab by	[signature]	SEP 17 2020		1534

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: 23-Sep-20 13:03
Subject: (MCC) Daily EFF

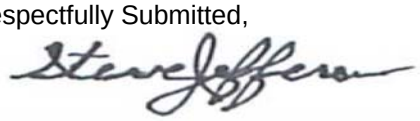
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0456-01) Collected: 18-Sep-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI01807	1.8	18-Sep-20	20-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI01807	1.8	18-Sep-20	20-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI01906	0.1	18-Sep-20	18-Sep-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI01905	0.05	19-Sep-20	19-Sep-20	**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,



Steve Jefferson 9/23/2020
Laboratory 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.#: 20I0456

Customer: IPC - Integrated Performance Consultants, Inc.

Project: (MCC) EFF - Daily

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	09/18/20	1140	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.73/27.7°
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
SEP 18 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	09/18/20	11:45
Received by		Armando Olmos (Patchem)	9/18/20	17:05
Relinquished by		Armando Olmos (Patchem)	9/18/20	13:05
Received by				
Relinquished by				
Received by		SEP 18 2020		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
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-Sep-20 13:06
Subject: (MCC) Daily EFF

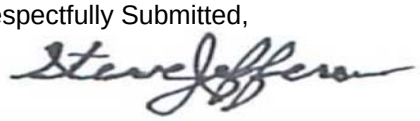
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0466-01) Collected: 19-Sep-20 By Mario Aguirre of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI01904	1.8	19-Sep-20	23-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI01904	1.8	19-Sep-20	23-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI02325	0.1	19-Sep-20	19-Sep-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI02019	0.05	20-Sep-20	20-Sep-20	**0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 9/23/2020
Laboratory 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.#: 20I0466

Customer: ~~IPC - Integrated Performance Consultants, Inc.~~ (MCC) EFF - Daily
Project : <
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	9/19/20	9:45	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

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SEP 19 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Mario Aguirre (IPC)	9/19/20	9:50
Received by		Alex Walker Jr	9/19/20	12:30
Relinquished by				
Received by				
Relinquished by				
Received in lab by		Alex Walker Jr	9/19/20	1400

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-Sep-20 13:08
Subject: (MCC) Daily EFF

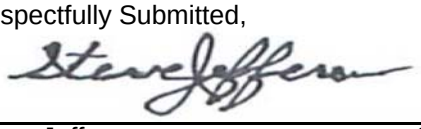
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0470-01) Collected: 20-Sep-20 By JA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI02023	1.8	20-Sep-20	23-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI02023	1.8	20-Sep-20	23-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI02325	0.1	20-Sep-20	20-Sep-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI02118	0.05	21-Sep-20	21-Sep-20	**0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 9/23/2020
Laboratory 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.#: 20E0470

Customer: IPC - Integrated Performance Consultants, Inc
Address: 9297 Research Drive Irvine CA 92618
Project: (MCC) EFF - Daily
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	9-20-20	9:40	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
SEP 20 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avalos	Jesus Avalos IPC	9-20-20	9:45
Received by:	Alex Walkowski	9-20-20	11:30
Relinquished by:			
Received by:			
Relinquished by:			
Received in lab by:	SEP 20 2020		13:45

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
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-Sep-20 13:11
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0478-01) Collected: 21-Sep-20 By Customer							
Microbiological							
Fecal Coliforms	SM 9221E	AI02122	1.8	21-Sep-20	23-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI02122	1.8	21-Sep-20	23-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI02325	0.1	21-Sep-20	21-Sep-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI02227	0.05	22-Sep-20	22-Sep-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 9/23/2020
Laboratory 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.#: 20I0478

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618		Sampled by:	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	9/21/20	1100	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
SEP 21 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Kyle Vardel (IPC)	9/21/20	1405
Received by		Golan G	9.21.20 pd	1230
Relinquished by			9.21.20 pd	1400
Received by				
Relinquished by				
Received in lab by		SEP 21 2020		1246

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
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-20 16:04
Subject: (MCC) Daily EFF

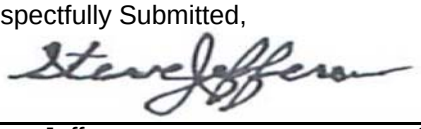
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0509-01) Collected: 22-Sep-20 By GK							
Microbiological							
Fecal Coliforms	SM 9221E	AI02235	1.8	22-Sep-20	24-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI02235	1.8	22-Sep-20	24-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI02325	0.1	22-Sep-20	22-Sep-20	**7.3 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI02324	0.05	23-Sep-20	23-Sep-20	**<0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 9/28/2020
Laboratory 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.#: 20I0509

Customer: IPC - Integrated Performance Consultants, Inc.
Address: 9297 Research Drive, Irvine, CA 92618
Project: (MCC) EFF - Daily
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	9/22/20	11:15	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.39 / 23.4°C
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
SEP 22 2020
By

Geotracker EDD:
Logcode. IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Glc	Golan IPC	9/22/20	12:45
Received by:	Armando Olmos (Patchem)	9/22/20	12.45
Relinquished by:	Armando Olmos (Patchem)	9/22/20	14:20
Received by:			
Relinquished by:			
Received in lab by:	SEP 22 2020		1354

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

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; Al - $AlCl_3$; 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: 30-Sep-20 13:09
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0548-01) Collected: 23-Sep-20 By Golan Kfir of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI02334	1.8	23-Sep-20	26-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI02334	1.8	23-Sep-20	26-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI02433	0.1	23-Sep-20	23-Sep-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI02432	0.05	24-Sep-20	24-Sep-20	**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,

Steve Jefferson 9/30/2020
Laboratory 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.#: 20I0548

Customer: IPC - Integrated Performance Consultants, Inc.

Project : (MCC) EFF - Daily

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	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9/23/20	1200	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
SEP 23 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (PCL)	09/22/20	1315
Received by			9.23.20	1315
Relinquished by			9.23.20	1400
Received by				
Relinquished by				
Received in lab by			SEP 23 2020	1433

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: 06-Oct-20 17:21
Subject: (MCC) Weekly EFF

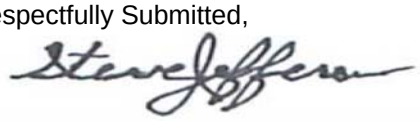
Project/P.O.#: (MCC) Weekly EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0553-01) Collected: 23-Sep-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AI02431	1	24-Sep-20	24-Sep-20	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AI02509	0.10	25-Sep-20	28-Sep-20	**0.20 mg/l**	
Nitrate as N	EPA 353.2	AI02425	0.05	24-Sep-20	24-Sep-20	**<0.05 mg/l**	
Nitrite as N	EPA 353.2	AI02425	0.05	24-Sep-20	24-Sep-20	**<0.05 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AJ00130	0.10	01-Oct-20	06-Oct-20	**0.64 mg/l**	
EFF (Sample I.D.# : 20I0553-02) Collected: 22-Sep-20 By Carlos A. of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AI02430	2	24-Sep-20	29-Sep-20	**3 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 10/6/2020
Laboratory 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.#: 20I0553

Customer:	iPC - Integrated Performance Consultants, Inc.	**Project:**	(MCC) EFF - Weekly
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	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	09/23/20	1200	1	TSS	Grab	AQ	1L P	4°C	
"	"	"	1	Ammonia, TKN	Grab	AQ	500 P	4°C	
"	"	"	1	Nitrate, Nitrite	Grab	AQ	250 P	4°C	
"	09/24/20	0000	1	BOD	Comp	AQ	1L P	4°C	

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SEP 23 2020
BY

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	09/23/20	1315
Received by			9.23.20	1515
Relinquished by			923.20	1400
Received by				
Relinquished by				
Received in lab by		SEP 23 2020		1514

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: 30-Sep-20 13:16
Subject: (MCC) Weekly INF

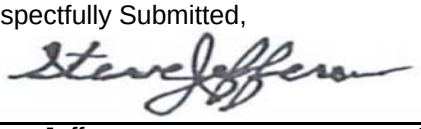
Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20I0551-01) Collected: 23-Sep-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AI02431	1	24-Sep-20	24-Sep-20	**194 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AI02430	2	24-Sep-20	29-Sep-20	**232 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 9/30/2020
Laboratory 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.#: 20I0551

Customer: IPC - Integrated Performance Consultants, Inc.

Project : (MCC) INF - Weekly

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	Preserve	Field Data (pH / Temperature) pH: Field Lab
INF	09/22/20	0000	1	TSS	Comp	AQ	1L P	4°C	
			1	BOD	Comp	AQ	1L P	4°C	
1	1	1							

RECEIVED
SEP 23 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	09/23/20	0915
Received by	EC	Fed Ex	9.23.20	0915
Relinquished by	EC	Fed Ex	9.23.20	1400
Received by				
Relinquished by				
Received in lab by		SEP 23 2020		1503

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-Sep-20 13:12
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0566-01) Collected: 24-Sep-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI02438	1.8	24-Sep-20	26-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI02438	1.8	24-Sep-20	26-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI02607	0.1	24-Sep-20	24-Sep-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI02606	0.05	25-Sep-20	25-Sep-20	**0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 9/30/2020
Laboratory 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.#: 20I0566

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618		Sampled by:	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	09/24/20	1030	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
1	1	1							

RECEIVED
SEP 24 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (CPC)	09/24/20	1035
Received by	EB	EB (CPC)	9.24.20	1215
Relinquished by	EB	EB (CPC)	9.24.20	1300
Received by				
Relinquished by				
Received by (Lab)		SEP 24 2020		1305

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-Sep-20 13:14
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0598-01) Collected: 25-Sep-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI02510	1.8	25-Sep-20	27-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI02510	1.8	25-Sep-20	27-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI02607	0.1	25-Sep-20	25-Sep-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI02606	0.05	26-Sep-20	26-Sep-20	**0.09 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 9/30/2020
Laboratory 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.#: 2010598

Customer: IPC - Integrated Performance Consultants, Inc.

Project: (MCC) EFF - Daily

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	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	09/25/20	1140	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
SEP 25 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID. WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarado (Apex)		
Received by	EG	Evan G.	9.25.20	1215
Relinquished by	EG	Evan G.	9.25.20	1400
Received by				
Relinquished by				
Received in lab by		SEP 25 2020		1301

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: 06-Oct-20 17:23
Subject: (MCC) Daily EFF

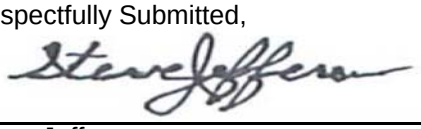
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0607-01) Collected: 26-Sep-20 By Mario Aguirre of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI02605	1.8	26-Sep-20	28-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI02605	1.8	26-Sep-20	28-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI03026	0.1	26-Sep-20	26-Sep-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI02726	0.05	27-Sep-20	27-Sep-20	**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,



Steve Jefferson 10/6/2020
Laboratory 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.#: 20I0607

Customer: IPC - Integrated Performance Consultants, Inc.
Address: 9297 Research Drive, Irvine, CA 92618

Project: (MCC) EFF - Daily

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	9/26/20	9:40	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
SEP 26 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Mario Aguirre (IPC)	9/26/20	9:44
Received by		Alex Walker Sr	9/26/20	12:15
Relinquished by				
Received by				
Relinquished by				
Received in lab by		SEP 26 2020		1433

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: 07-Oct-20 14:01
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0611-01) Collected: 27-Sep-20 By JA							
Microbiological							
Fecal Coliforms	SM 9221E	AI02725	1.8	27-Sep-20	30-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI02725	1.8	27-Sep-20	30-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI03026	0.1	27-Sep-20	27-Sep-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI02823	0.05	28-Sep-20	28-Sep-20	**0.11 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 10/7/2020
Laboratory 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.#: 20I0611

Customer: ~~IPC - Integrated Performance Consultants, Inc.~~		Project: ~~(MCC) EFF - Daily~~	
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	9-27-20	9:40	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Totai Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: Jesus Avalos	Jesus Avalos (IPC)	9/27/20	9:45
Received by:	PCL	9/27/20	1433
Relinquished by:			
Received by:			
Relinquished by:			
Received in lab by:	PCL	9/27/20	1610

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 (PCL) Terms and Conditions

1. Definitions

2. Independent Contractor

3. Orders and Acceptance

4. Limit of Liability

5. Clients Responsibility

6. Cancellation

7. Overriding Agreement

8. Force Majeure

9. Confidentiality

10. Hold Harmless

11. Hazardous Substances

12. Prices/Payments

13. Agreement Modification

14. No Third Party Beneficiaries: No Right of Reliance

15. Rush Analysis

16. Holding Times

17. Sample Retention

18. Sample Pick Up/Field Tech Sampling

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-20 14:06
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0627-01) Collected: 28-Sep-20 By JA							
Microbiological							
Fecal Coliforms	SM 9221E	AI02830	1.8	28-Sep-20	30-Sep-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI02830	1.8	28-Sep-20	30-Sep-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI03026	0.1	28-Sep-20	28-Sep-20	**6.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI02925	0.05	29-Sep-20	29-Sep-20	**0.05 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 10/7/2020
Laboratory 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.#: 2070627

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

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	Preserve	Field Data (pH / Temperature) pH: ~~Field~~ Lab
EFF	9/28/20	1158	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	6.8 / 28.1 °C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
	1	1							

RECEIVED
SEP 28 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID. WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (CPL)	9/28/20	12:44
Received by		Cindy Magsaysay	9/28/20	12:49
Relinquished by		Cindy Magsaysay	9/28/20	13:56
Received by				
Relinquished by				
Received in lab by		SEP 28 2020		13:56

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: 07-Oct-20 14:08
Subject: (MCC) Daily EFF

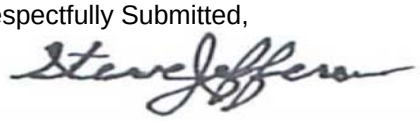
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0654-01) Collected: 29-Sep-20 By JA							
Microbiological							
Fecal Coliforms	SM 9221E	AI02929	1.8	29-Sep-20	01-Oct-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI02929	1.8	29-Sep-20	01-Oct-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AI03026	0.1	29-Sep-20	29-Sep-20	**8.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AI03024	0.05	30-Sep-20	30-Sep-20	**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,



Steve Jefferson 10/7/2020
Laboratory 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.#: 20I0654

Customer: IPC - Integrated Performance Consultants, Inc.		Project: (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618		Sampled by:	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	09/29/30	1125	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	8.4/23.0°C
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (SRL)	~~09/29/30~~	1135
Received by		MARIO SANTIESTEBAN (PCL)	09/29/30	1135
Relinquished by				
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	9/29/20	1350

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.

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(818) 639-5306 fx
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Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 07-Oct-20 14:11
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0682-01) Collected: 30-Sep-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AI03028	1.8	30-Sep-20	02-Oct-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AI03028	1.8	30-Sep-20	02-Oct-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AJ00134	0.1	30-Sep-20	30-Sep-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AJ00133	0.05	01-Oct-20	01-Oct-20	**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,

Steve Jefferson 10/7/2020
Laboratory 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.#: 2010682

Customer: IPC - Integrated Performance Consultants, Inc.
Address: 9297 Research Drive, Irvine, CA 92618
Project: (MCC) EFF - Daily
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	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	09/30/20	1155	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

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SEP 30 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (SPL)	09/30/20	1700
Received by			9.30.20	1300
Relinquished by			9.30.20	1400
Received by				
Relinquished by				
Received by		SEP 30 2020		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.

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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-Oct-20 14:24
Subject: (MCC) Weekly EFF

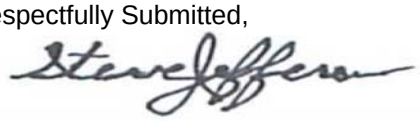
Project/P.O.#: (MCC) Weekly EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20I0684-01) Collected: 30-Sep-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AJ00128	1	01-Oct-20	01-Oct-20	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AJ00213	0.10	02-Oct-20	02-Oct-20	**0.25 mg/l**	
Nitrate as N	EPA 353.2	AJ00125	0.05	01-Oct-20	01-Oct-20	**0.09 mg/l**	
Nitrite as N	EPA 353.2	AJ00125	0.05	01-Oct-20	01-Oct-20	**<0.05 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AJ00723	0.10	07-Oct-20	08-Oct-20	**0.38 mg/l**	
EFF (Sample I.D.# : 20I0684-02) Collected: 29-Sep-20 By Carlos A. of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AJ00127	2	01-Oct-20	06-Oct-20	**10 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 10/8/2020
Laboratory 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.#: 20I0684

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Weekly	
Address: 9297 Research Drive, Irvine, CA 92618		**Sampled by:**	**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	09/30/20	1155	1	TSS	Grab	AQ	1L P	4°C	
			1	Ammonia, TKN	Grab	AQ	500 P	4°C	
			1	Nitrate, Nitrite	Grab	AQ	250 P	4°C	
	09/29/20	0000	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
SEP 30 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (CEP)	09/30/20	1200
Received by	EB	Evan (CEP)	9.30.20	1300
Relinquished by	EB	Evan	9.30.20	1400
Received by				
Relinquished by				
Received in lab by		SEP 30 2020		1327

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

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QUALITY ANALYTICAL SERVICES SINCE 1987
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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-20 17:17
Subject: (MCC) Weekly INF

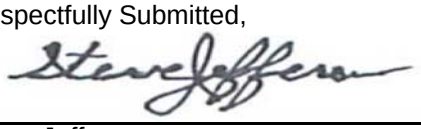
Project/P.O.#: (MCC) Weekly INF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20I0683-01) Collected: 30-Sep-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AJ00128	1	01-Oct-20	01-Oct-20	**232 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AJ00127	2	01-Oct-20	06-Oct-20	**447 mg/l**	

Notes and Definitions

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

Respectfully Submitted,



Steve Jefferson 10/6/2020
Laboratory 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.#: 20I0683

Customer: IPC - Integrated Performance Consultants, Inc.		**Project:** (MCC) INF - Weekly	
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	09/22/20	0000	1	TSS	Comp	AQ	1L P	4°C	
			1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
SEP 30 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	09/30/20	1300
Received by			9.30.20	1300
Relinquished by			9.30.20	1400
Received by				
Relinquished by				
Received in lab by		SEP 30 2020		1323

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

Malibu Civic Center Wastewater Treatment Facility

Third Quarter 2020 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 30, 2020

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 30, 2020
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 2020 Long-Term Groundwater and Surface Water Monitoring Report, Malibu Civic Center Wastewater Treatment Facility – City of Malibu, California

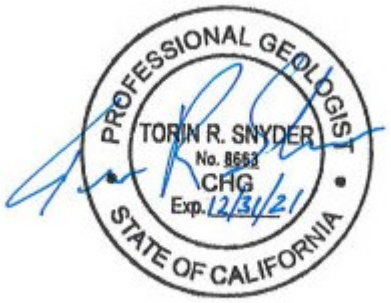
Dear Ms. Bundy:

Rincon Consultants, Inc. has prepared the Third Quarter 2020 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 2020 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 27 day of October 2020 at Malibu, CA

Yolanda Bundy
Signature

Environmental Sustainability Director
Title

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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 2020 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 (9) shallow and deep groundwater wells and monitoring surface water quality at ten (10) 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 (9) shallow and deep groundwater wells and surface water quality at ten (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 (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.

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 sixteen (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 (14) 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 (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 200, Ambrose and Orme 2000, Fugro West, Inc. 2005, Geosyntec Consultants 2007). Depth to groundwater in the alluvium is typically 5 to 13 feet below grade and is deeper in the upland canyon areas.

4 Completed Activities During Third Quarter 2020

The following activities were completed during the third quarter of 2020:

- Rincon measured depth to water in groundwater monitoring wells on July 29, August 17, and September 23, 2020 (Task V)
- Rincon collected and analyzed groundwater samples for WDR/MRP (Task II), SNMP (Task III) and MOU (Task IV) compliance on August 18 through 21, 2020
- Rincon collected and analyzed surface water samples for WDR/MRP (Task II) compliance on August 18, 2020

5 Groundwater Elevations and Gradients

During each month of the quarter, Rincon mobilized to 43 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). Of the 43 groundwater monitoring wells, one well was reported to be buried (GH9-M4), one well has been removed (MBCMW-6), and one well was reported dry (SMBRP-15B). Therefore, groundwater elevations could not be calculated in these groundwater monitoring wells.

Groundwater Monitoring Locations

Shallow Zone (33 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	MBCMW-7	MBCMW-8
MBCMW-9	MBCMW-10	MCWP-MW04S	MCWP-MW07S	MCWP-MW08
MCWP-MW10	P-4	P-9	SMBRP-2	SMBRP-6
SMBRP-7B	SMBRP-8 (EC1-RC-MW01)	SMBRP-9	SMBRP-10C	SMBRP-12
SMBRP-13	SMBRP-15B[2]	SMBRP-16		
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] Two wells have been removed from the original monitoring network; GH9-M4 has been buried as of the September 2018 monitoring event and MBCMW-6 was removed following grading activities in 2019

[2] SMBRP-15B has been dry as of the first monitoring event in August 2015

5.1 Shallow Zone

Groundwater 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 2020, changes in elevation compared to the second quarter of 2020, and historical groundwater elevation range.

Summary of Groundwater Elevations – Shallow Zone

3rd Quarter 2020		2nd Quarter 2020		Average Difference	Historical	
Minimum	**Maximum**	**Minimum**	**Maximum**	**(3Q20-2Q20)**	**Minimum**	**Maximum**
1.78 (MBCMW-5)	24.24 (SMBRP-8)	1.09 (CCPE)	25.02 (SMBRP-8)	Decrease 0.09	1.09 (CCPE, 5/2020)	25.38 (SMBRP-8, 05/2017)
Changes from July to September 2020						
Decrease			**Increase**			
# Observed	**Maximum**	**Average**	**# Observed**	**Maximum**	**Average**	
24	-4.85 (P-9)	-1.77	2	1.22 (SMBRP-7B)	0.66	

Note: Elevations measured in feet above mean sea level

The shallow groundwater gradient was calculated, and flow direction estimated based on the monthly 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	0.0050	South-southeast
August	0.0047	South-southeast
September	0.0045	South-southeast

5.2 Deep Zone

Groundwater 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 2020, changes in elevation compared to the second quarter of 2020, and historical groundwater elevation ranges:

Summary of Groundwater Elevations – Deep Zone

3rd Quarter 2020		2nd Quarter 2020		Average Difference	Historical	
Minimum	Maximum	Minimum	Maximum	(3Q20-2Q20)	Minimum	Maximum
4.16 (MCWP-MW07D)	10.56 (MCWP-MW09)	4.21 (MCWP-MW07D)	9.80 (MCWP-MW09)	Decrease 0.11	4.09 (MCWP-MW07D, 12/2017)	11.55 (MCWP-MW09, 12/2015)
Changes from July to September 2020						
Decrease			**Increase**			
# Observed	Maximum	Average	# Observed	Maximum	Average	
8	-3.40 (MCWP-MW09)	-2.03	0	–	–	

Note: Elevations measured in feet above mean sea level

5.3 Winter Canyon

Groundwater 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 2020, changes in elevation compared to the second quarter of 2020, and historical groundwater elevation ranges.

Summary of Groundwater Elevations – Winter Canyon

3rd Quarter 2020		2nd Quarter 2020		Average Difference	Historical	
Minimum	Maximum	Minimum	Maximum	(3Q20-2Q20)	Minimum	Maximum
9.70 (SMBRP-11)	51.30 (LAMW-5S)	9.59 (SMBRP-11)	52.45 (LAMW-5S)	Decrease 0.66	9.31 (SMBRP-11, 05/2018)	58.65 (LAMW-5S, 03/2019)
Changes from July to September 2020						
Decrease			**Increase**			
# Observed	Maximum	Average	# Observed	Maximum	Average	
1	-0.42 (SMBRP-11)	–	1	0.26 (LAMW-5S)	–	

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 2020 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 2020 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 ten (10) surface water samples were collected on August 18, 2020. 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]

Summary of Detected Concentrations in Surface Water – Near Shore

Constituent	Number of Detections	Minimum Detected	Maximum Detected	Average	Units
Total Coliform	4	2,400 (N-004)	>2,400 (N-001, N-002, N-003)	2,400	MPN/100 mL
Fecal Coliform	3	3.0 (N-001)	29 (N-003)	11	MPN/100 mL
Nitrate as Nitrogen	0	–	–	–	mg/L
Nitrite as Nitrogen	0	–	–	–	mg/L
Organic Nitrogen	3	0.082 (N-003)	0.25 (N-001)	0.17	mg/L
Ammonia Nitrogen	0	–	–	–	mg/L
Total Kjeldahl Nitrogen	3	0.082 (N-003)	0.25 (N-001)	0.13	mg/L
Total Phosphorous	4	0.059 (N-001)	0.88 (N-004)	0.28	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	No. of Detections	Min Detected	Max Detected	Average	Units
Total Coliform	6	-	>2,400 (L-001 to L-006)	2,400	MPN/100 mL
Fecal Coliform	6	870 (L-004)	>2,400 (L-001, L-002, L-003, L-006)	1,978	MPN/100 mL
Nitrate as Nitrogen	0	-	-	-	mg/L
Nitrite as Nitrogen	0	-	-	-	mg/L
Organic Nitrogen	6	0.098 (L-004)	0.83 (L-001)	0.38	mg/L
Ammonia Nitrogen	2	0.20 (L-005)	0.25 (L-006)	0.11	mg/L
Total Kjeldahl Nitrogen	6	0.098 (L-004)	0.83 (L-001)	0.456	mg/L
Total Phosphorous	6	0.020 (L-006)	0.46 (L-005)	0.18	mg/L

[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.

6.2 Groundwater

A total of sixteen (16) groundwater monitoring wells were sampled during the third quarter of 2020 in accordance with the WDR/MRP (Task II), SNMP (Task III) and MOU (Task IV) 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
MCWP-MW10	Shallow	III, IV	Semi-Annually
MCWP-MW05	Deep	III	Semi-Annually
MCWP-MW06	Deep	III	Semi-Annually

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% 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 2020. 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	No. Detected	Minimum Detected	Maximum Detected	Average	Unit
Total Coliform	14	14	1.0 (MCWP-MW04D)	>2,400 (LAMW-5S, SMBRP-13)	754	MPN/ 100 mL
Fecal Coliform	14	6	1.0 (SMBRP-7B, CCPE MCWP-MW07D)	140 (MBCMW-9)	13	MPN/ 100 mL
Nitrate as Nitrogen	16	11	0.65 (MCWP-MW10)	11 (SMBRP-9)	2.25	mg/L
Nitrite as Nitrogen	14	0	–	–	–	mg/L
Organic Nitrogen	7	7	0.070 (SMBRP-7B)	1.4 (MBCMW-9)	0.37	mg/L
Ammonia Nitrogen	14	6	0.051 (CCPE)	10 (MCWP-MW07D)	1.4	mg/L
Total Kjeldahl Nitrogen	14	14	0.18 (SMBRP-13)	13 (MCWP-MW07D)	2.0	mg/L
Total Phosphorous	14	12	0.057 (MCWP-MW10)	1.5 (SMBRP-12)	0.36	mg/L
Total Dissolved Solids	16	16	470 (MCWP-MWO7D)	5,900 (MBCMW-9)	2,144	mg/L

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 Fourth Quarter of 2020

The following activities will be completed during the fourth quarter of 2020:

- Prepare and submit the Third Quarter 2020 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 2020 (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 2020, groundwater elevations decreased in 92 percent of shallow, deep, and Winter Canyon wells, with an average change of -0.54 feet. Increases in groundwater elevations were observed in only two shallow wells (SMBRP-7B and SMBRP-12) and one Winter Canyon well (LAMW-5S).

8.2 Surface Water Quality

Total coliform samples were at or above 2,400 MPN/100 mL in all ten samples collected in the Near Shore and Malibu Lagoon and Creek. Surface water samples showed an overall increase of total coliform compared to the second quarter of 2020, with an average increase of 456 MPN/100 mL.

Fecal coliform concentrations averaged 11 MPN/100 mL across the Near Shore surface water samples, which represents an average decrease of 1.1 MPN/100 mL from the second quarter of 2020. In Malibu Lagoon and Creek locations, all six samples had detected concentrations of fecal coliform, averaging 1,978 MPN/100 mL, which represents an average increase of 1,077 MPN/100 mL from the second quarter of 2020. Four samples, L-001, L-002, L-003, and L-006, had concentrations exceeding the upper detection limit value of 2,400 MPN/100 mL.

Nitrate as nitrogen and nitrite as nitrogen was not detected in any surface water samples. Organic nitrogen averaged 0.17 mg/L in Near Shore samples and 0.38 mg/L in Malibu Lagoon and Creek samples. When compared to the second quarter of 2020, organic nitrogen concentrations had an average decrease of 0.10 mg/L in the Near Shore samples and an average decrease of 0.12 mg/L in the Malibu Lagoon and Creek samples.

Phosphorous concentrations increased with an average concentration of 0.22 mg/L compared to the average concentration of 0.18 mg/L observed in the second quarter of 2020.

8.3 Groundwater Quality

When comparing analytical results from the second quarter of 2020 to the third quarter of 2020, note that sixteen groundwater monitoring wells were sampled during the third quarter of 2020 (Task II, III, IV), and nine wells were sampled during the second quarter of 2020 (Task II). Of the nine wells sampled during these two periods, total coliform increased in three monitoring wells, decreased in four monitoring wells, and remained above the upper detection limit in two wells, with an average decrease of 536 MPN/100 mL compared to the second quarter of 2020. Fecal coliform decreased in three wells and remained below the RDL in six wells, with an average decrease of 159 MPN/100 mL compared to the second quarter of 2020.

Nitrate as nitrogen was detected in all nine groundwater monitoring wells. When compared to the second quarter of 2020, nitrate concentrations increased in two wells and decreased in seven wells.

When compared to the second quarter of 2020, average TDS concentrations in groundwater samples increased from an average of 1,522 mg/L to 2,286 mg/L in the third quarter of 2020.

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

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Tables

Table 1
Groundwater Elevations

Shallow Groundwater Monitoring Wells				
Well ID	**Date**	**TOC Elevation** (ft)	**Depth to Water** (ft bTOC)	**Groundwater Elevation**
C-1	7/29/2020	11.47	4.98	6.49
C-1	8/17/2020	11.47	7.15	4.32
C-1	9/23/2020	11.47	6.94	4.53
C-2	7/29/2020	11.19	4.86	6.33
C-2	8/17/2020	11.19	6.89	4.30
C-2	9/23/2020	11.19	6.77	4.42
CCPE	7/29/2020	12.94	5.46	7.48
CCPE	8/17/2020	12.94	8.57	4.37
CCPE	9/23/2020	12.94	8.39	4.55
CCPNE	7/29/2020	13.68	6.12	7.56
CCPNE	8/17/2020	13.68	9.02	4.66
CCPNE	9/23/2020	13.68	8.96	4.72
CCPSW	7/29/2020	13.67	6.02	7.65
CCPSW	8/17/2020	13.67	8.51	5.16
CCPSW	9/23/2020	13.67	8.59	5.08
CCW-4	7/29/2020	15.77	5.45	10.32
CCW-4	8/17/2020	15.77	5.59	10.18
CCW-4	9/23/2020	15.77	6.00	9.77
GH6-M1	7/29/2020	-	26.43	-
GH6-M1	8/17/2020	-	26.69	-
GH6-M1	9/23/2020	-	27.19	-
GH8-M3	7/29/2020	-	25.85	-
GH8-M3	8/17/2020	-	26.07	-
GH8-M3	9/23/2020	-	26.65	-
M6-1	7/29/2020	-	6.11	-
M6-1	8/17/2020	-	7.20	-
M6-1	9/23/2020	-	7.70	-
M6-2	7/29/2020	-	5.07	-
M6-2	8/17/2020	-	5.35	-
M6-2	9/23/2020	-	5.70	-
M7-1	7/29/2020	-	7.42	-
M7-1	8/17/2020	-	8.00	-
M7-1	9/23/2020	-	8.44	-
M7-2	7/29/2020	-	6.90	-
M7-2	8/17/2020	-	7.13	-
M7-2	9/23/2020	-	7.52	-
MBCMW-5	7/29/2020	19.40	16.94	2.46
MBCMW-5	8/17/2020	19.40	17.10	2.30
MBCMW-5	9/23/2020	19.40	17.62	1.78
MBCMW-7	7/29/2020	16.64	10.89	5.75
MBCMW-7	8/17/2020	16.64	12.58	4.06
MBCMW-7	9/23/2020	16.64	12.95	3.69
MBCMW-8	7/29/2020	16.53	7.47	9.06
MBCMW-8	8/17/2020	16.53	7.60	8.93
MBCMW-8	9/23/2020	16.53	8.44	8.09
MBCMW-9	7/29/2020	17.71	7.37	10.34
MBCMW-9	8/17/2020	17.71	7.60	10.11
MBCMW-9	9/23/2020	17.71	8.07	9.64

Table 1
Groundwater Elevations

Shallow Groundwater Monitoring Wells				
Well ID	**Date**	**TOC Elevation** (ft)	**Depth to Water** (ft bTOC)	**Groundwater Elevation**
MBCMW-10	7/29/2020	17.74	8.27	9.47
MBCMW-10	8/17/2020	17.74	9.87	7.87
MBCMW-10	9/23/2020	17.74	10.46	7.28
MCWP-MW04S	7/29/2020	15.29	6.07	9.22
MCWP-MW04S	8/17/2020	15.29	6.20	9.09
MCWP-MW04S	9/23/2020	15.29	6.95	8.34
MCWP-MW07S	7/29/2020	13.72	5.45	8.27
MCWP-MW07S	8/17/2020	13.72	5.70	8.02
MCWP-MW07S	9/23/2020	13.72	5.72	8.00
MCWP-MW08	7/29/2020	12.21	7.51	4.70
MCWP-MW08	8/17/2020	12.21	8.86	3.35
MCWP-MW08	9/23/2020	12.21	8.90	3.31
MCWP-MW10	7/29/2020	11.11	5.48	5.63
MCWP-MW10	8/17/2020	11.11	8.30	2.81
MCWP-MW10	9/23/2020	11.11	8.23	2.88
P-4	7/29/2020	12.16	4.36	7.80
P-4	8/17/2020	12.16	7.55	4.61
P-4	9/23/2020	12.16	7.14	5.02
P-9	7/29/2020	12.17	4.80	7.37
P-9	8/17/2020	12.17	7.85	4.32
P-9	9/23/2020	12.17	9.65	2.52
SMBRP-2	7/29/2020	13.13	5.73	7.40
SMBRP-2	8/17/2020	13.13	8.80	4.33
SMBRP-2	9/23/2020	13.13	8.68	4.45
SMBRP-6	7/29/2020	26.88	15.86	11.02
SMBRP-6	8/17/2020	26.88	17.60	9.28
SMBRP-6	9/23/2020	26.88	19.02	7.86
SMBRP-7B	7/29/2020	18.99	9.72	9.27
SMBRP-7B	8/17/2020	18.99	10.38	8.61
SMBRP-7B	9/23/2020	18.99	8.50	10.49
SMBRP-8 (EC1-RC-MW01)	7/29/2020	48.69	24.45	24.24
SMBRP-8 (EC1-RC-MW01)	8/17/2020	48.69	24.95	23.74
SMBRP-8 (EC1-RC-MW01)	9/23/2020	48.69	25.94	22.75
SMBRP-9	7/29/2020	50.32	34.85	15.47
SMBRP-9	8/17/2020	50.32	35.06	15.26
SMBRP-9	9/23/2020	50.32	35.59	14.73
SMBRP-10C	7/29/2020	16.25	5.51	10.74
SMBRP-10C	8/17/2020	16.25	5.82	10.43
SMBRP-10C	9/23/2020	16.25	6.35	9.90
SMBRP-12	7/29/2020	12.62	7.15	5.47
SMBRP-12	8/17/2020	12.62	6.94	5.68
SMBRP-12	9/23/2020	12.62	7.06	5.56
SMBRP-13	7/29/2020	13.58	8.53	5.05
SMBRP-13	8/17/2020	13.58	8.55	5.03
SMBRP-13	9/23/2020	13.58	8.77	4.81
SMBRP-15B	7/29/2020	16.77	dry	-
SMBRP-15B	8/17/2020	16.77	dry	-
SMBRP-15B	9/23/2020	16.77	dry	-
SMBRP-16	7/29/2020	14.50	3.84	10.66
SMBRP-16	8/17/2020	14.50	3.95	10.55
SMBRP-16	9/23/2020	14.50	4.65	9.85

Table 1
Groundwater Elevations

Deep Groundwater Monitoring Wells				
Well ID	**Date**	**TOC Elevation** (ft)	**Depth to Water** (ft bTOC)	**Groundwater Elevation**
MCWP-MW01	7/29/2020	17.90	10.06	7.84
MCWP-MW01	8/17/2020	17.90	11.43	6.47
MCWP-MW01	9/23/2020	17.90	11.90	6.00
MCWP-MW02	7/29/2020	18.06	10.05	8.01
MCWP-MW02	8/17/2020	18.06	12.42	5.64
MCWP-MW02	9/23/2020	18.06	12.20	5.86
MCWP-MW03	7/29/2020	15.31	7.83	7.48
MCWP-MW03	8/17/2020	15.31	8.70	6.61
MCWP-MW03	9/23/2020	15.31	9.16	6.15
MCWP-MW04D	7/29/2020	15.43	9.26	6.17
MCWP-MW04D	8/17/2020	15.43	10.53	4.90
MCWP-MW04D	9/23/2020	15.43	11.10	4.33
MCWP-MW05	7/29/2020	13.92	7.33	6.59
MCWP-MW05	8/17/2020	13.92	9.13	4.79
MCWP-MW05	9/23/2020	13.92	9.52	4.40
MCWP-MW06	7/29/2020	16.05	9.58	6.47
MCWP-MW06	8/17/2020	16.05	11.20	4.85
MCWP-MW06	9/23/2020	16.05	11.72	4.33
MCWP-MW07D	7/29/2020	13.21	7.71	5.50
MCWP-MW07D	8/17/2020	13.21	8.60	4.61
MCWP-MW07D	9/23/2020	13.21	9.05	4.16
MCWP-MW09	7/29/2020	16.30	5.74	10.56
MCWP-MW09	8/17/2020	16.30	6.81	9.49
MCWP-MW09	9/23/2020	16.30	9.14	7.16

Table 1
Groundwater Elevations

Winter Canyon Groundwater Monitoring Wells				
Well ID	**Date**	**TOC Elevation** (ft)	**Depth to Water** (ft bTOC)	**Groundwater Elevation**
LAMW-5S	7/29/2020	104.55	53.51	51.04
LAMW-5S	8/17/2020	104.55	53.84	50.71
LAMW-5S	9/23/2020	104.55	53.25	51.30
SMBRP-11	7/29/2020	18.35	8.23	10.12
SMBRP-11	8/17/2020	18.35	8.50	9.85
SMBRP-11	9/23/2020	18.35	8.65	9.70

Notes:

Elevations measured in feet above mean sea level

Two shallow wells have been removed from the original monitoring network; GH9-M4 has been buried as of the September 2018 monitoring event and MBCMW-6 was removed following grading activities in 2019

-: No data available

TOC: Top of well casing

ft bTOC: Feet below top of well casing

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)	✓ (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

✓: 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 Nitrogen	Total Phosphorous
Near Shore	Ankle Depth	N-001	8/18/2020	> **2,400**	= **3.0**	< 1.0	< 1.0	= **0.25**	< 0.10	= **0.25 J**	= **0.25**	= **0.059**
Near Shore	Ankle Depth	N-002	8/18/2020	> **2,400**	= **12**	< 1.0	< 1.0	= **0.18**	< 0.10	= **0.18 J**	= **0.18**	= **0.079**
Near Shore	Ankle Depth	N-003	8/18/2020	> **2,400**	= **29**	< 1.0	< 1.0	= **0.082**	< 0.10	= **0.082 J**	= **0.082**	= **0.10**
Near Shore	Ankle Depth	N-004	8/18/2020	= **2,400**	< 1.0	< 1.0	< 1.0	= **-**	< 0.10	< 0.030	-	= **0.88**
Malibu Lagoon and Creek	1 foot BSW	L-001	8/18/2020	> **2,400**	> **2,400**	< 1.0	< 1.0	= **0.83**	< 0.10	= **0.83**	= **0.83**	= **0.33**
Malibu Lagoon and Creek	1 foot BSW	L-002	8/18/2020	> **2,400**	> **2,400**	< 1.0	< 1.0	= **0.18**	< 0.10	= **0.18**	= **0.18**	= **0.096**
Malibu Lagoon and Creek	1 foot BSW	L-003	8/18/2020	> **2,400**	> **2,400**	< 1.0	< 1.0	= **0.63**	< 0.10	= **0.63**	= **0.63**	= **0.11**
Malibu Lagoon and Creek	1 foot BSW	L-004	8/18/2020	> **2,400**	= **870**	< 1.0	< 1.0	= **0.098**	< 0.10	= **0.098 J**	= **0.098**	= **0.087**
Malibu Lagoon and Creek	1 foot BSW	L-005	8/18/2020	> **2,400**	= **1,400**	< 1.0	< 1.0	= **0.43**	= **0.20**	= **0.63**	= **0.63**	= **0.46**
Malibu Lagoon and Creek	1 foot BSW	L-006	8/18/2020	> **2,400**	> **2,400**	< 1.0	< 1.0	= **0.12**	= **0.25**	= **0.37**	= **0.37**	= **0.020**

Notes:

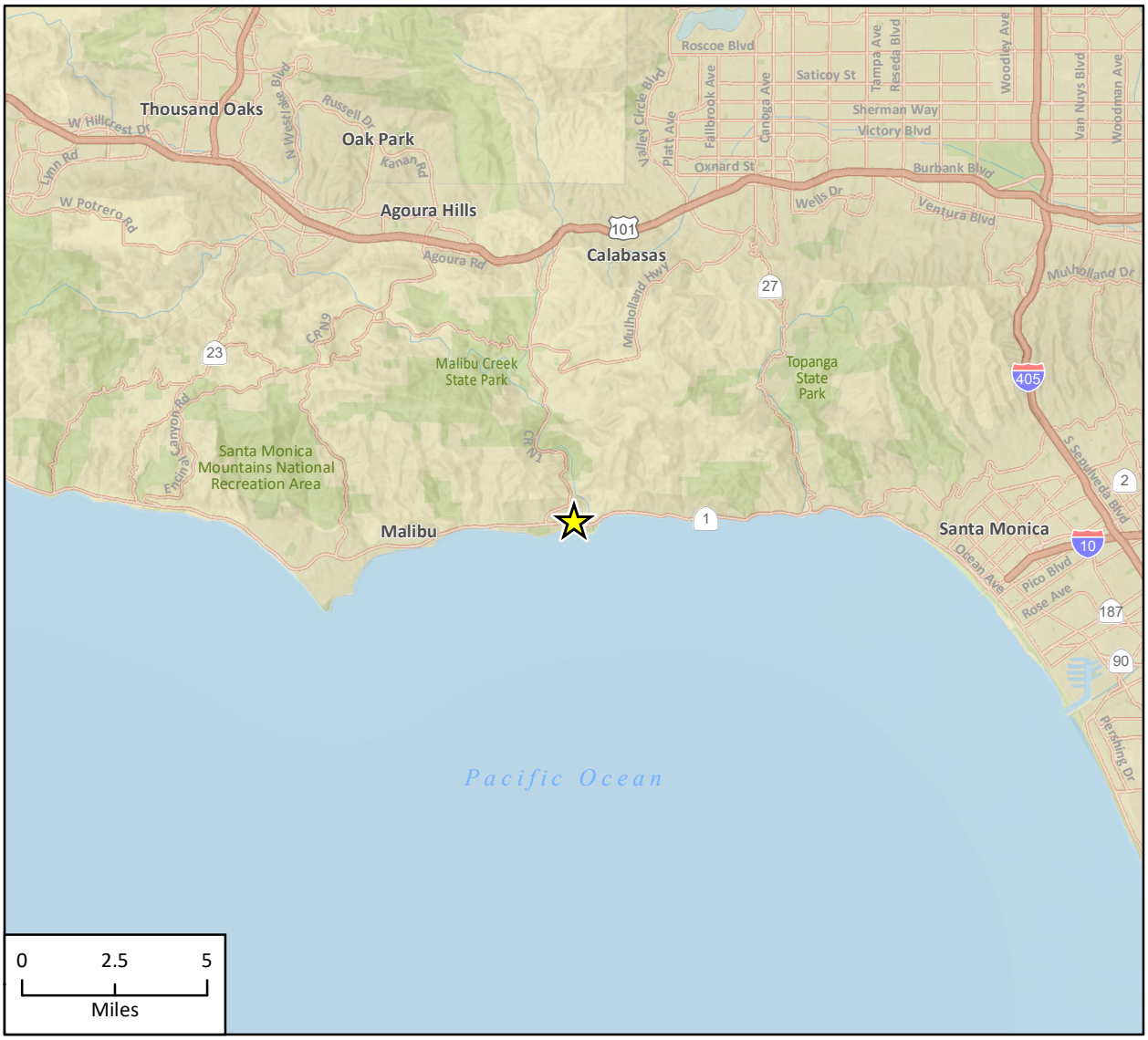
bold: Constituent detected above Reporting Detection Limit (RDL)
=: Constituent detected at reported concentration
<: Constituent not detected above the RDL
>: Constituent detected above the laboratory upper detection limit
BSW: Below surface of water
J: Estimated value; the consituent was detected above 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	Nitrate + Nitrite as N	Organic Nitrogen	Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Nitrogen	Total Phosphorous	Boron	Sulfate	Total Dissolved Solids	Chloride
LAMW-5S	73	8/18/2020	> **2,400**	< 1.0	= **8.8**	< 1.0	= **8.8**	= **0.18**	< 0.10	= **0.18 J**	-	= **1.2**	-	-	= **630**	-
SMBRP-7B	25	8/21/2020	= **1.0**	= **1.0**	= **0.70**	< 0.10	= **0.70**	= **0.070**	= **0.23**	= **0.30 J**	-	= **0.27**	-	-	= **2,700**	-
SMBRP-9	45	8/18/2020	= **280**	< 1.0	= **11**	< 1.0	= **11**	-	< 0.10	= **0.50**	-	= **0.090**	= **0.57**	= **270**	= **1,500**	= **190**
SMBRP-11	20	8/18/2020	= **220**	< 1.0	= **2.2**	< 1.0	= **2.2**	= **0.30**	= **1.0**	= **1.3**	**-**	< 0.020	**-**	-	= **1,600**	**-**
SMBRP-12	25	8/19/2020	= **9.6**	< 1.0	< 1.0	< 1.0	< 1.0	-	= **5.3**	= **6.6**	-	= **1.5**	= **0.85**	= **380**	= **1,800**	= **490**
SMBRP-13	19	8/19/2020	> **2,400**	= **31**	< 1.0	< 1.0	< 1.0	= **0.18**	< 0.10	= **0.18 J**	-	= **0.48**	-	-	= **1,900**	-
MBCMW-9	9.0	8/18/2020	= **140**	= **140**	< 1.0	< 1.0	< 1.0	= **1.4**	< 0.10	= **1.4**	-	= **0.059**	-	-	= **5,900**	-
MCWP-MW04S	20	8/18/2020	= **42**	< 1.0	= **1.0**	< 1.0	= **1.0**	**-**	< 0.10	= **1.3**	**-**	= **0.27**	= **1.8**	= **3,300**	= **5,200**	= **640**
MCWP-MW04D	145	8/20/2020	= **1.0**	< 1.0	= **1.4**	< 0.10	= **1.4**	-	< 0.10	= **0.28 J**	-	= **0.076**	= **0.87**	= **550**	= **1,400**	= **260**
MCWP-MW05	154	8/21/2020	-	-	= **2.0**	-	-	-	-	-	-	-	-	-	= **1,300**	-
MCWP-MW06	138	8/19/2020	-	-	= **1.1**	-	-	-	-	-	-	-	-	-	= **1,000**	-
MCWP-MW07S	20	8/18/2020	= **2,400**	= **5.2**	= **3.3**	< 1.0	= **3.3**	-	< 0.10	= **0.29 J**	-	< 0.020	= **0.35**	= **220**	= **1,200**	= **200**
MCWP-MW07D	134	8/18/2020	= **1,000**	= **1.0**	< 1.0	< 1.0	< 1.0	-	= **10**	= **13**	-	= **0.64**	= **0.17**	= **240**	= **470**	= **300**
MCWP-MW09	89	8/19/2020	= **5.2**	< 1.0	< 1.0	< 1.0	< 1.0	-	= **2.0**	= **2.2**	-	= **0.21**	= **0.81**	= **550**	= **2,000**	= **620**
MCWP-MW10	22	8/20/2020	= **57**	< 1.0	= **0.65**	< 0.10	= **0.65**	= **0.22**	< 0.10	= **0.22 J**	-	= **0.057**	-	-	= **1,900**	-
CCPE	53	8/19/2020	= **1,600**	= **1.0**	= **1.3**	< 1.0	= **1.3**	= **0.23**	= **0.051 J**	= **0.28 J**	-	= **0.13**	-	-	= **3,800**	-

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
mg/L: Milligrams per liter
MPN/100 mL: Most Probable Number per 100 milliliters
J: Estimated value; the consituent was detected above the method detection limit, but below the RDL

Figures



Project Location

N

Vicinity Map

Figure 1

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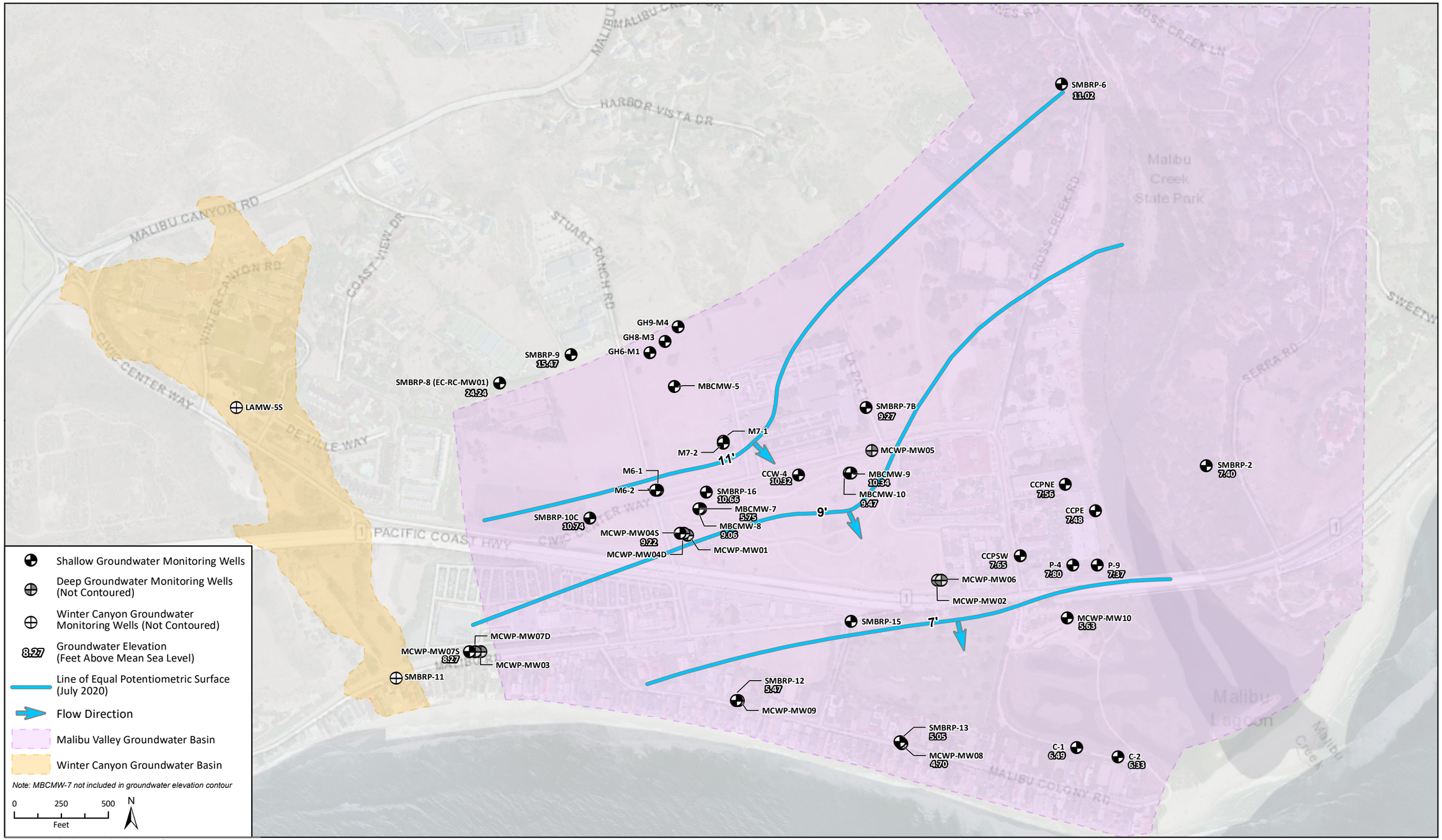
Site Map - Monitoring Network

Figure 2



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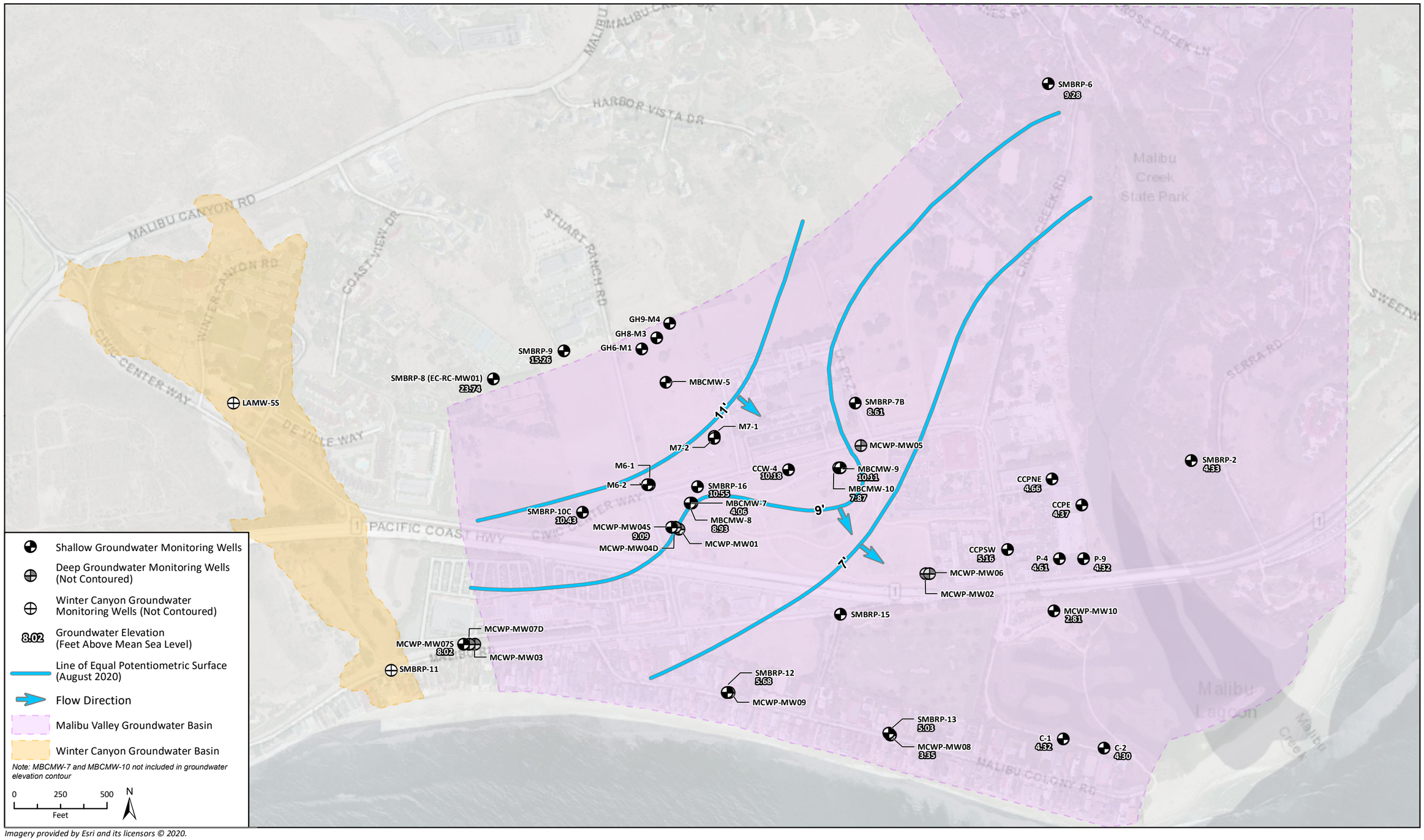
Shallow Groundwater Elevation - July 2020

Figure 3



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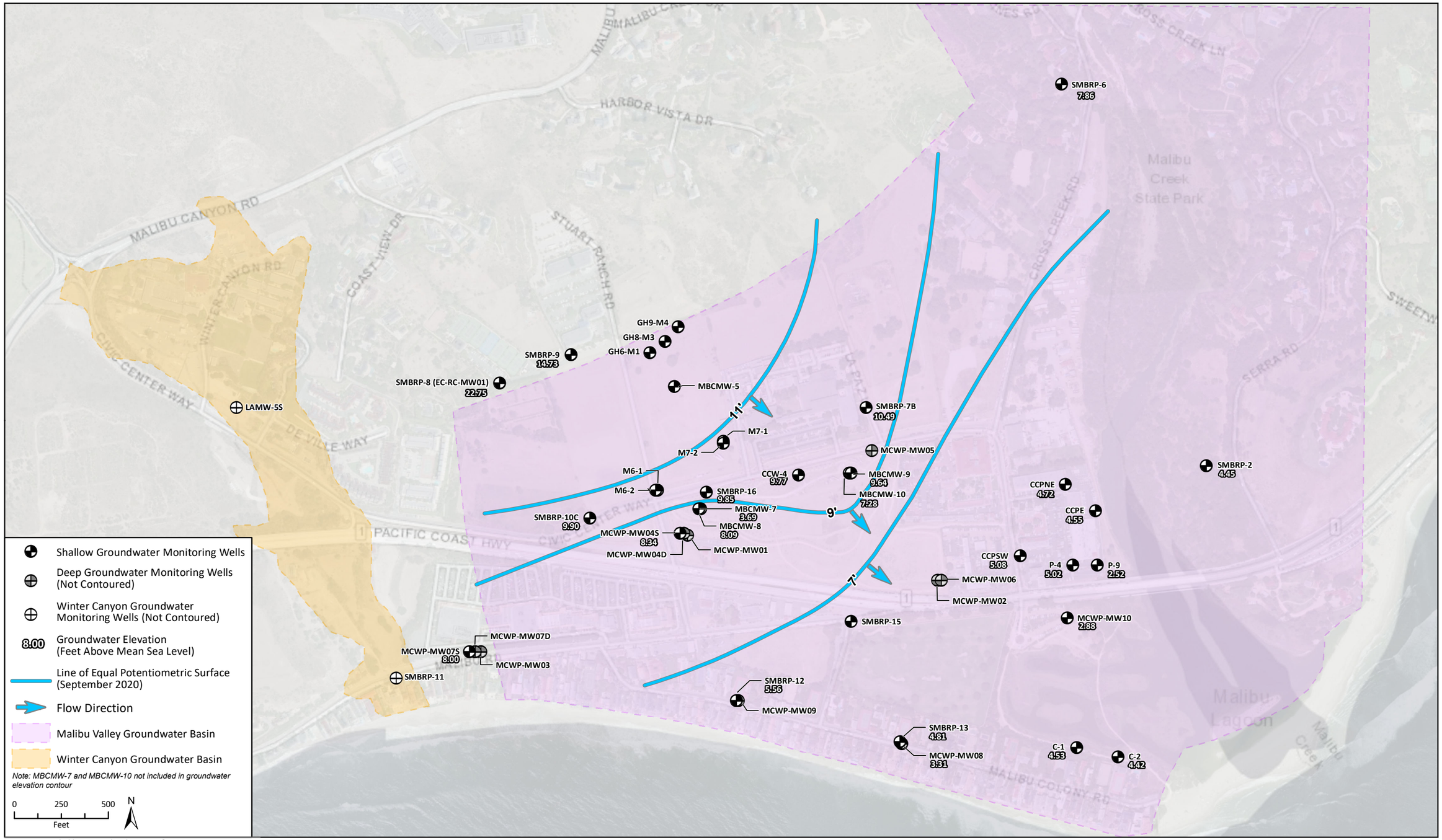
Shallow Groundwater Elevation - August 2020

Figure 4



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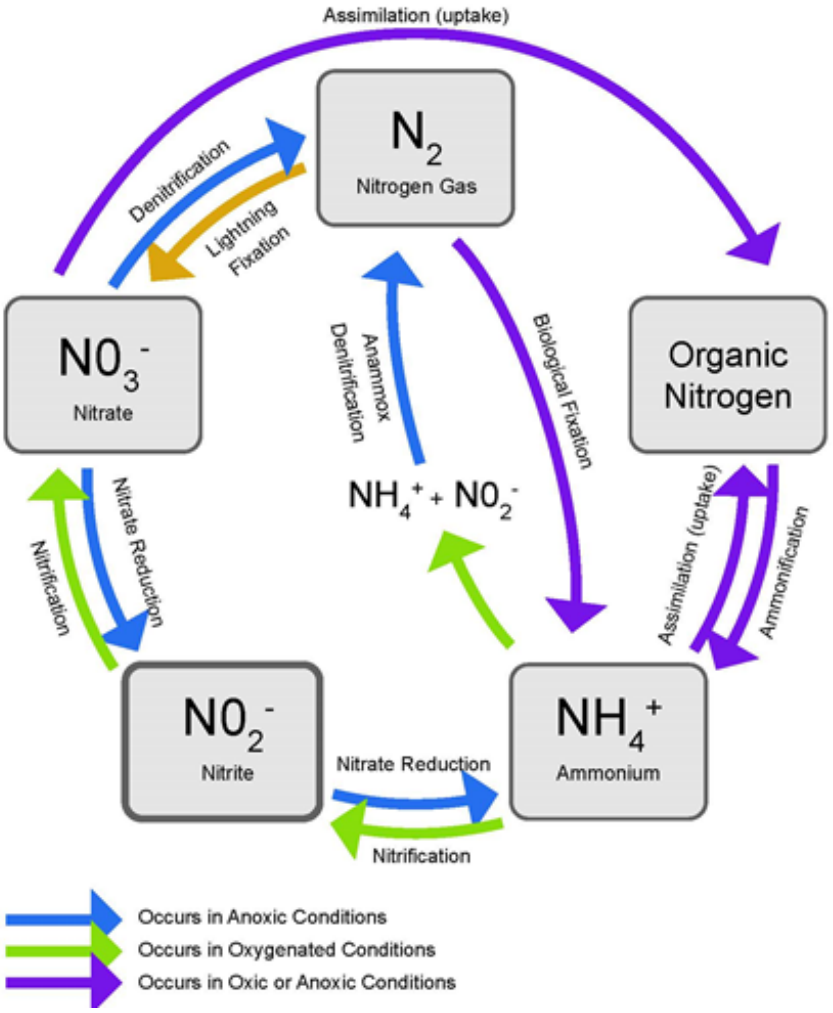
Shallow Groundwater Elevation - September 2020

Figure 5



The Nitrogen Cycle Figure 6

Appendix A

Groundwater and Surface Water Field Sheets

Depth to Groundwater Measurements

Job No:	20-09665	**Event:**	Monthly - July
Project:	Malibu CCWTF	**Date:**	July 29, 2020
Location:	Malibu, CA	**Measured By:**	Peter Doran

Well ID	Total Well Depth (ft bTOC)		Well Diameter	Depth to Water (ft bTOC)	Time	Notes/ Well Condition
	Historical	Measured				
C-1	14.50		N/A	4.98	13:08	
C-2	14.20		2	4.86	13:11	
CCPE	52.70		2	5.46		1/2 tabs missing
CCPNE	24.10		2	6.12	11:26	
CCPSW	19.90		2	6.02	11:32	2/2 tabs missing
CCW-4	12.30		1	5.45	10:35	
GH6-M1	35.20		2	26.43	10:06	
GH8-M3	40.21		2	25.85	10:02	
GH9-M4	44.29	-	2	N/A	-	Well has been buried
Lagoon	N/A	-	N/A	N/A	-	Well has been removed
LAMW-5S	73.43		4	53.51	10:18	1/2 Bolts missing
M6-1	45.30		2	6.11	09:45	
M6-2	19.40		2	5.07	09:44	
M7-1	39.35		2	7.42	09:53	
M7-2	19.60		2	6.90	09:52	
MBCMW-5	19.40	18.22	N/A	16.94	09:57	
MBCMW-6	64.26	-	N/A	N/A	-	Well has been removed
MBCMW-7	52.15		2	10.89	10:30	
MBCMW-8	11.95		2	7.47	10:29	
MBCMW-9	9.25		2	7.37	10:42	
MBCMW-10	51.75		2	8.27	10:41	
MCWP-MW01	152.88		6	10.06	11:56	
MCWP-MW02	148.20		6	10.05	11:42	
MCWP-MW03	136.65		6	7.83	12:07	2/2 bolts missing
MCWP-MW04S	20.45		4	6.07	11:55	
MCWP-MW04D	149.20		4	9.26	11:54	
MCWP-MW05	154.40		4	7.33		
MCWP-MW06	138.15		2	9.58	11:41	
MCWP-MW07S	17.22		2	5.45	12:05	2/2 tabs missing
MCWP-MW07D	129.60		2	7.71	12:06	2/2 tabs missing
MCWP-MW08	79.38		2	7.51	12:27	
MCWP-MW09	89.60		2	5.74	12:25	1/2 tabs missing
MCWP-MW10	22.23		2	5.48	13:00	
P-4	14.57		4	4.36	11:14	2/2 bolts missing
P-9	13.90		4	4.80	11:16	2/2 bolts missing
SMBRP-2	24.88		2	5.73	11:08	
SMBRP-6	23.45		2	15.86	10:58	1/2 bolts missing
SMBRP-7B	25.13		2	9.72	10:46	
SMBRP-8 (EC-RC-MW01)	40.46		4	24.45	09:46	
SMBRP-9	45.40		2	34.85	09:44	
SMBRP-10C	25.00		2	5.51	10:11	Cracked apron
SMBRP-12	24.88		2	7.15	12:24	
SMBRP-13	19.48		2	8.53	12:26	
SMBRP-16	25.00		2	3.84	10:24	2/2 bolts missing
SMBRP-11	20.38		2	8.23	12:14	1/2 tabs missing

Depth to Groundwater Measurements

Job No:	20-09665	**Event:**	Monthly - August (3Q Annual)
Project:	Malibu CCWTF	**Date:**	August 17, 2020
Location:	Malibu, CA	**Measured By:**	Michelle Carter

Well ID	**Total Well Depth** (ft bTOC)		**Well Diameter**	**Depth to Water** (ft bTOC)	**Time**	**Notes/ Well Condition**
	Historical	Measured				
C-1	14.50		N/A	7.15	09:49	
C-2	14.20		2	6.89	09:52	
CCPE	52.70		2	8.57	09:26	
CCPNE	24.10		2	9.02	09:21	
CCPSW	19.90		2	8.51	11:29	
CCW-4	12.30		1	5.59	09:05	
GH6-M1	35.20		2	26.69	11:11	
GH8-M3	40.21		2	26.07	11:12	
GH9-M4	44.29	-	2	N/A	-	Well has been buried
Lagoon	N/A	-	N/A	N/A	-	Well has been removed
LAMW-5S	73.43		4	53.84	09:10	
M6-1	45.30		2	7.20	11:19	
M6-2	19.40		2	5.35	11:20	
M7-1	39.35		2	8.00	10:58	
M7-2	19.60		2	7.13	10:59	
MBCMW-5	19.40		N/A	17.10	11:10	
MBCMW-6	64.26	-	N/A	N/A	-	Well has been removed
MBCMW-7	52.15		2	12.58	09:00	
MBCMW-8	11.95		2	7.60	09:01	
MBCMW-9	9.25		2	7.60	09:11	
MBCMW-10	51.75		2	9.87	09:12	
MCWP-MW01	152.88		6	11.43	08:50	
MCWP-MW02	148.20		6	12.42	10:18	
MCWP-MW03	136.65		6	8.70	10:26	
MCWP-MW04S	20.45		4	6.20	08:45	
MCWP-MW04D	149.20		4	10.53	08:49	
MCWP-MW05	154.40		4	9.13	08:15	
MCWP-MW06	138.15		2	11.2	10:20	
MCWP-MW07S	17.22		2	5.70	10:23	
MCWP-MW07D	129.60		2	8.60	10:25	
MCWP-MW08	79.38		2	8.86	10:45	
MCWP-MW09	89.60		2	6.81	10:37	
MCWP-MW10	22.23		2	8.30	09:40	
P-4	14.57		4	7.55	09:30	
P-9	13.90		4	7.85	09:30	
SMBRP-2	24.88		2	8.80	10:02	
SMBRP-6	23.45		2	17.60	10:09	
SMBRP-7B	25.13		2	10.38	09:16	
SMBRP-8 (EC-RC-MW01)	40.46		4	24.95	08:18	
SMBRP-9	45.40		2	35.06	08:10	
SMBRP-10C	25.00		2	5.82	08:30	
SMBRP-12	24.88		2	6.94	10:36	
SMBRP-13	19.48		2	8.55	10:44	
SMBRP-15B	8.40		1	N/A	10:50	Dry
SMBRP-16	25.00		2	3.95	08:59	
SMBRP-11	20.38		2	8.50	10:45	

Depth to Groundwater Measurements

Job No:	20-09665	**Event:**	Monthly - September
Project:	Malibu CCWTF	**Date:**	September 23, 2020
Location:	Malibu, CA	**Measured By:**	Peter Doran

Well ID	Total Well Depth (ft bTOC)		Well Diameter	Depth to Water (ft bTOC)	Time	Notes/ Well Condition
	Historical	Measured				
C-1	14.50		N/A	6.94	12:22	
C-2	14.20		2	6.77	12:20	
CCPE	52.70		2	8.39	10:57	
CCPNE	24.10		2	8.96	11:00	
CCPSW	19.90		2	8.59	11:04	
CCW-4	12.30		1	6.00	10:12	
GH6-M1	35.20		2	27.19	09:53	
GH8-M3	40.21		2	26.65	09:50	
GH9-M4	44.29	-	2	N/A	-	Well has been buried
Lagoon	N/A	-	N/A	N/A	-	Well has been removed
LAMW-5S	73.43		4	53.25	13:00	
M6-1	45.30		2	7.70	09:33	
M6-2	19.40		2	5.70	09:35	
M7-1	39.35		2	8.44	09:40	
M7-2	19.60		2	7.52	09:42	
MBCMW-5	19.40		N/A	17.62	09:45	
MBCMW-6	64.26	-	N/A	N/A	-	Well has been removed
MBCMW-7	52.15		2	12.95	10:04	
MBCMW-8	11.95		2	8.44	10:05	
MBCMW-9	9.25		2	8.07	10:19	
MBCMW-10	51.75		2	10.46	10:20	
MCWP-MW01	152.88		6	11.9	11:20	
MCWP-MW02	148.20		6	12.2	11:08	
MCWP-MW03	136.65		6	9.16	11:32	
MCWP-MW04S	20.45		4	6.95	11:18	
MCWP-MW04D	149.20		4	11.10	11:19	
MCWP-MW05	154.40		4	9.52	10:17	
MCWP-MW06	138.15		2	11.72	11:10	
MCWP-MW07S	17.22		2	5.72	11:30	
MCWP-MW07D	129.60		2	9.05	11:29	
MCWP-MW08	79.38		2	8.90	11:51	
MCWP-MW09	89.60		2	9.14	11:44	
MCWP-MW10	22.23		2	8.23	12:15	
P-4	14.57		4	7.14	10:48	
P-9	13.90		4	9.65	10:51	
SMBRP-2	24.88		2	8.68	10:42	
SMBRP-6	23.45		2	19.02	10:33	
SMBRP-7B	25.13		2	8.50	10:25	
SMBRP-8 (EC-RC-MW01)	40.46		4	25.94	12:50	
SMBRP-9	45.40		2	35.59	09:22	
SMBRP-10C	25.00		2	6.35	09:58	
SMBRP-12	24.88		2	7.06	11:46	
SMBRP-13	19.48		2	8.77	11:52	
SMBRP-15B	8.40		1	N/A	11:58	Well is dry
SMBRP-16	25.00		2	4.65	10:08	
SMBRP-11	20.38		2	8.65	11:35	

Groundwater Sampling/Purging Data Sheet

Job No: 20-09665	**Event:** Third Quarter
Project/Location: Malibu CCWTF/Malibu, CA	**Date:** August 21, 2020
Observation Period **Start:** 08:18 **Stop:** 10:50	**Well Name:** SMBRP-7B
Sampled By: Peter Doran	**Survey Reference Point:** TOC

Purging Data			
Type of Pump	Hand Bail	Pump Inlet Depth (ft)	23
Well Diameter (in)	2	Depth of Well (ft)	25.1
Initial/Static Depth to Water (ft)	10.46	Length of Water Column (ft)	14.64
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	2.34	Three Casing Volumes (gal)	7.03
Purge Time Start	09:02	Purge Time Stop	09:16
Total Purge Time (min)	14	Purge Rate (gpm)	0.5
Purge Volume (gal)	7	Depth to Water (ft) at Sampling	12.15

Casing or Borehole Volume	
0.5-inch Diameter = 0.010 gal/ft 0.75-inch Diameter = 0.023 gal/ft 1-inch Diameter = 0.041 gal/ft 1.5-inch Diameter = 0.092 gal/ft 2-inch Diameter = 0.16 gal/ft	4-inch Diameter = 0.65 gal/ft 6-inch Diameter = 1.46 gal/ft 9-inch Diameter = 3.30 gal/ft 12-inch Diameter = 5.87 gal/ft 15-inch Diameter = 9.18 gal/ft

Indicator Data						
Volume Pumped	Before Purge	Volume 2 (2.5 gal)	Volume 3 (4.5 gal)	Volume 4	Volume 5	At Sampling
Temperature (C)	22.3	22.5	22.2	22.5		23.8
pH	6.96	6.93	6.95	6.94		6.96
Conductivity (µs)	1239	1502	2797	3122		3292
Dissolved Oxygen (mg/L)	3.59	3.23	3.77	3.52		5.42
Dissolved Oxygen (%)	41	37.1	42.7	39		64.8
TDS (ppm)	849	1025	1919	2122		2192
Turbidity (NTU)	20.12	14.6	36.96	46.25		31

Depth to Water at End of Purge: 19.42	Drawdown: 8.96

Comments:

Miscellaneous Data
Condition of Traffic Box: Good
Drum Identification Labeling: N/A
Water Level Indicator: Solinst Model 101
Weather Conditions: 76°F Clear
Comments:
Sampled Time: 10:45
Well Recovery Calculation Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery 10.46 + 0.2 * 8.96 = 12.25

Groundwater Sampling/Purging Data Sheet

Job No: 20-09665	**Event:** Third Quarter
Project/Location: Malibu CCWTF/Malibu, CA	**Date:** August 19, 2020
Observation Period **Start:** 09:35 **Stop:** 11:00	**Well Name:** MCWP-MW09
Sampled By: Peter Doran	**Survey Reference Point:** TOC

Purging Data			
Type of Pump	Grundfos Redi-Flow 2 Pump	Pump Inlet Depth (ft)	88
Well Diameter (in)	2	Depth of Well (ft)	89.83
Initial/Static Depth to Water (ft)	6.74	Length of Water Column (ft)	83.09
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	13.29	Three Casing Volumes (gal)	39.88
Purge Time Start	09:53	Purge Time Stop	10:15
Total Purge Time (min)	22	Purge Rate (gpm)	1.82
Purge Volume (gal)	40	Depth to Water (ft) at Sampling	6.74

Casing or Borehole Volume	
0.5-inch Diameter = 0.010 gal/ft 0.75-inch Diameter = 0.023 gal/ft 1-inch Diameter = 0.041 gal/ft 1.5-inch Diameter = 0.092 gal/ft 2-inch Diameter = 0.16 gal/ft	4-inch Diameter = 0.65 gal/ft 6-inch Diameter = 1.46 gal/ft 9-inch Diameter = 3.30 gal/ft 12-inch Diameter = 5.87 gal/ft 15-inch Diameter = 9.18 gal/ft

Indicator Data						
Volume Pumped	Before Purge	Volume 2 (13.5 gal)	Volume 3 (27 gal)	Volume 4	Volume 5	At Sampling
Temperature (C)	26.6	24.9	24.5			24.5
pH	7.26	7.18	7.18			7.18
Conductivity (µs)	3653	3635	3597			3597
Dissolved Oxygen (mg/L)	2.64	2.96	2.68			2.37
Dissolved Oxygen (%)	33.3	36.1	32.4			28.4
TDS (ppm)	2290	2365	2361			2361
Turbidity (NTU)	50.8	11.4	2.69			1.63

Depth to Water at End of Purge: 6.78	Drawdown: 0.04

Comments:

Miscellaneous Data
Condition of Traffic Box: Fair
Drum Identification Labeling: N/A
Water Level Indicator: Solinst Model 101
Weather Conditions: 86°F
Comments:
Sampled Time: 10:40
Well Recovery Calculation Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery 6.74 + 0.2 * 0.04 = 6.75

Groundwater Sampling/Purging Data Sheet

Job No: 20-09665	**Event:** Third Quarter
Project/Location: Malibu CCWTF/Malibu, CA	**Date:** August 20, 2020
Observation Period **Start:** 08:07 **Stop:** 08:35	**Well Name:** MCWP-MW10
Sampled By: Peter Doran	**Survey Reference Point:** TOC

Purging Data			
Type of Pump	Electric Submersible Pump	Pump Inlet Depth (ft)	21
Well Diameter (in)	2	Depth of Well (ft)	22.18
Initial/Static Depth to Water (ft)	7.95	Length of Water Column (ft)	14.23
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	2.2768	Three Casing Volumes (gal)	6.8304
Purge Time Start	08:17	Purge Time Stop	08:25
Total Purge Time (min)	7	Purge Rate (gpm)	1
Purge Volume (gal)	7	Depth to Water (ft) at Sampling	7.95

Casing or Borehole Volume	
0.5-inch Diameter = 0.010 gal/ft 0.75-inch Diameter = 0.023 gal/ft 1-inch Diameter = 0.041 gal/ft 1.5-inch Diameter = 0.092 gal/ft 2-inch Diameter = 0.16 gal/ft	4-inch Diameter = 0.65 gal/ft 6-inch Diameter = 1.46 gal/ft 9-inch Diameter = 3.30 gal/ft 12-inch Diameter = 5.87 gal/ft 15-inch Diameter = 9.18 gal/ft

Indicator Data						
Volume Pumped	Before Purge	Volume 2 (2 gal)	Volume 3 (4.5 gal)	Volume 4	Volume 5	At Sampling
Temperature (C)	22.1	21.4	21.3			21.2
pH	6.95	7	7.02			7
Conductivity (µs)	3924	3050	2956			2932
Dissolved Oxygen (mg/L)	3.15	3.3	5.2			4.21
Dissolved Oxygen (%)	36.9	37.6	58.5			48.1
TDS (ppm)	2690	2128	2066			2051
Turbidity (NTU)	32.52	15.79	13.22			10.25

Depth to Water at End of Purge: 7.95	Drawdown: 0

Comments: Water has sulfur odor

Miscellaneous Data
Condition of Traffic Box: Good
Drum Identification Labeling: N/A
Water Level Indicator: Solinst Model 101
Weather Conditions: 72°F
Comments:
Sampled Time: 08:30
Well Recovery Calculation Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery 7.95 + 0.2 * 0 = 7.95

Groundwater Sampling/Purging Data Sheet

Job No: 20-09665	**Event:** Third Quarter
Project/Location: Malibu CCWTF/Malibu, CA	**Date:** August 20, 2020
Observation Period **Start:** 08:45 **Stop:** 11:50	**Well Name:** MCWP-MW04D
Sampled By: Peter Doran	**Survey Reference Point:** TOC

Purging Data			
Type of Pump	Grundfos Redi-Flow 2 Pump	Pump Inlet Depth (ft)	142
Well Diameter (in)	4	Depth of Well (ft)	145.2
Initial/Static Depth to Water (ft)	10.51	Length of Water Column (ft)	134.69
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.65
One Casing Volume (gal)	87.5485	Three Casing Volumes (gal)	262.6455
Purge Time Start	08:54	Purge Time Stop	10:35
Total Purge Time (min)	100	Purge Rate (gpm)	2.63
Purge Volume (gal)	263	Depth to Water (ft) at Sampling	10.51

Casing or Borehole Volume	
0.5-inch Diameter = 0.010 gal/ft 0.75-inch Diameter = 0.023 gal/ft 1-inch Diameter = 0.041 gal/ft 1.5-inch Diameter = 0.092 gal/ft 2-inch Diameter = 0.16 gal/ft	4-inch Diameter = 0.65 gal/ft 6-inch Diameter = 1.46 gal/ft 9-inch Diameter = 3.30 gal/ft 12-inch Diameter = 5.87 gal/ft 15-inch Diameter = 9.18 gal/ft

Indicator Data						
Volume Pumped	Before Purge	Volume 2 (87 gal)	Volume 3 (174 gal)	Volume 4	Volume 5	At Sampling
Temperature (C)	21.6	21.9	22.8			29.9
pH	7.06	6.99	6.95			6.97
Conductivity (µs)	2168	2217	2280			2652
Dissolved Oxygen (mg/L)	4.28	2.81	3.6			2.14
Dissolved Oxygen (%)	48.9	32.3	41.5			28.6
TDS (ppm)	1503	1530	1542			1576
Turbidity (NTU)	3.83	1.06	0.64			4.49

Depth to Water at End of Purge: 10.51	Drawdown: 0

Comments:

Miscellaneous Data
Condition of Traffic Box: Good
Drum Identification Labeling: N/A
Water Level Indicator: Solinst Model 101
Weather Conditions: 74°F
Comments:
Sampled Time: 11:45
Well Recovery Calculation Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery 10.51 + 0.2 * 0 = 10.51

Groundwater Sampling/Purging Data Sheet

Job No: 20-09665	**Event:** Third Quarter
Project/Location: Malibu CCWTF/Malibu, CA	**Date:** August 19, 2020
Observation Period **Start:** 11:14 **Stop:** 11:52	**Well Name:** SMBRP-13
Sampled By: Peter Doran	**Survey Reference Point:** TOC

Purging Data			
Type of Pump	Hand Bail	Pump Inlet Depth (ft)	
Well Diameter (in)	2	Depth of Well (ft)	19.42
Initial/Static Depth to Water (ft)	8.23	Length of Water Column (ft)	11.19
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.79	Three Casing Volumes (gal)	5.37
Purge Time Start	11:30	Purge Time Stop	11:40
Total Purge Time (min)	10	Purge Rate (gpm)	0.55
Purge Volume (gal)	5.5	Depth to Water (ft) at Sampling	8.23

Casing or Borehole Volume	
0.5-inch Diameter = 0.010 gal/ft 0.75-inch Diameter = 0.023 gal/ft 1-inch Diameter = 0.041 gal/ft 1.5-inch Diameter = 0.092 gal/ft 2-inch Diameter = 0.16 gal/ft	4-inch Diameter = 0.65 gal/ft 6-inch Diameter = 1.46 gal/ft 9-inch Diameter = 3.30 gal/ft 12-inch Diameter = 5.87 gal/ft 15-inch Diameter = 9.18 gal/ft

Indicator Data						
Volume Pumped	Before Purge	Volume 2 (2 gal)	Volume 3 (3.5 gal)	Volume 4	Volume 5	At Sampling
Temperature (C)	24.2	21.9	22.3	22.3		22.5
pH	6.87	6.94	7.01	7.02		7.02
Conductivity (µs)	2366	2866	2854	2935		2882
Dissolved Oxygen (mg/L)	4.78	3.52	4.14	3.95		3.99
Dissolved Oxygen (%)	57.7	41.5	48.2	47		46.8
TDS (ppm)	1555	1950	1957	1964		1958
Turbidity (NTU)	4.54	8.01	7.86	8.13		6.9

Depth to Water at End of Purge: 8.23	Drawdown: 0

Comments:

Miscellaneous Data
Condition of Traffic Box: Good
Drum Identification Labeling: N/A
Water Level Indicator: Solinst Model 101
Weather Conditions: 83°F
Comments:
Sampled Time: 11:45
Well Recovery Calculation Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery 8.23 + 0.2 * 0 = 8.23

Groundwater Sampling/Purging Data Sheet

Job No: 20-09665	**Event:** Third Quarter
Project/Location: Malibu CCWTF/Malibu, CA	**Date:** August 19, 2020
Observation Period **Start:** 11:30 **Stop:** 12:15	**Well Name:** CCPE
Sampled By: Peter Doran	**Survey Reference Point:** TOC

Purging Data			
Type of Pump	Grundfos Redi-Flow 2 Pump	Pump Inlet Depth (ft)	50
Well Diameter (in)	2	Depth of Well (ft)	52.18
Initial/Static Depth to Water (ft)	8.04	Length of Water Column (ft)	44.14
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	7.0624	Three Casing Volumes (gal)	21.19
Purge Time Start	11:45	Purge Time Stop	12:05
Total Purge Time (min)	20	Purge Rate (gpm)	1.075
Purge Volume (gal)	21.5	Depth to Water (ft) at Sampling	8.05

Casing or Borehole Volume	
0.5-inch Diameter = 0.010 gal/ft 0.75-inch Diameter = 0.023 gal/ft 1-inch Diameter = 0.041 gal/ft 1.5-inch Diameter = 0.092 gal/ft 2-inch Diameter = 0.16 gal/ft	4-inch Diameter = 0.65 gal/ft 6-inch Diameter = 1.46 gal/ft 9-inch Diameter = 3.30 gal/ft 12-inch Diameter = 5.87 gal/ft 15-inch Diameter = 9.18 gal/ft

Indicator Data						
Volume Pumped	Before Purge	Volume 2 (7 gal)	Volume 3 (14 gal)	Volume 4	Volume 5	At Sampling
Temperature (C)	24.9	24.7	23.8			24
pH	6.82	6.8	6.8			6.8
Conductivity (µs)	6191	5941	6349			6447
Dissolved Oxygen (mg/L)	3.42	3.19	3.91			3.78
Dissolved Oxygen (%)	42	41	46.5			45.1
TDS (ppm)	4021	3859	4226			4279
Turbidity (NTU)	4.93	5.22	5.89			3.78

Depth to Water at End of Purge: 8.51	Drawdown: 0.47

Comments:

Miscellaneous Data
Condition of Traffic Box: Good
Drum Identification Labeling: N/A
Water Level Indicator: Solinst Model 101
Weather Conditions: 86°F
Comments:
Sampled Time: 12:15
Well Recovery Calculation Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery 8.04 + 0.2 * 0.47 = 8.13

Groundwater Sampling/Purging Data Sheet

Job No: 20-09665	**Event:** Third Quarter
Project/Location: Malibu CCWTF/Malibu, CA	**Date:** August 21, 2020
Observation Period **Start:** 07:58 **Stop:** 10:30	**Well Name:** MCWP-MW05
Sampled By: Peter Doran	**Survey Reference Point:** TOC

Purging Data			
Type of Pump	Grundfos Redi-Flow 2 Pump	Pump Inlet Depth (ft)	148
Well Diameter (in)	4	Depth of Well (ft)	150.65
Initial/Static Depth to Water (ft)	9.13	Length of Water Column (ft)	141.52
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.65
One Casing Volume (gal)	91.99	Three Casing Volumes (gal)	275.96
Purge Time Start	08:10	Purge Time Stop	09:40
Total Purge Time (min)	90	Purge Rate (gpm)	3.07
Purge Volume (gal)	276	Depth to Water (ft) at Sampling	8.92

Casing or Borehole Volume	
0.5-inch Diameter = 0.010 gal/ft 0.75-inch Diameter = 0.023 gal/ft 1-inch Diameter = 0.041 gal/ft 1.5-inch Diameter = 0.092 gal/ft 2-inch Diameter = 0.16 gal/ft	4-inch Diameter = 0.65 gal/ft 6-inch Diameter = 1.46 gal/ft 9-inch Diameter = 3.30 gal/ft 12-inch Diameter = 5.87 gal/ft 15-inch Diameter = 9.18 gal/ft

Indicator Data						
Volume Pumped	Before Purge	Volume 2 (92 gal)	Volume 3 (182 gal)	Volume 4	Volume 5	At Sampling
Temperature (C)	20.4	20.4	20.5			21
pH	6.99	6.99	6.9			6.94
Conductivity (µs)	1886	1844	1901			1952
Dissolved Oxygen (mg/L)	3.73	2.68	2.3			2.09
Dissolved Oxygen (%)	41.3	29.9	25			23.5
TDS (ppm)	1344	1312	1342			1372
Turbidity (NTU)	3.53	0	0.8			1.44

Depth to Water at End of Purge: 8.92	Drawdown: -0.21

Comments:

Miscellaneous Data
Condition of Traffic Box: Good
Drum Identification Labeling: N/A
Water Level Indicator: Solinst Model 101
Weather Conditions: 74°F Clear
Comments:
Sampled Time: 09:45
Well Recovery Calculation Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery 9.13 + 0.2 * -0.21 = 9.088

Groundwater Sampling/Purging Data Sheet

Job No: 20-09665	**Event:** Third Quarter
Project/Location: Malibu CCWTF/Malibu, CA	**Date:** August 18, 2020
Observation Period **Start:** 12:16 **Stop:** 12:46	**Well Name:** MBCMW-9
Sampled By: Michelle Carter	**Survey Reference Point:** TOC

Purging Data			
Type of Pump	Hand Bail	Pump Inlet Depth (ft)	
Well Diameter (in)	2	Depth of Well (ft)	9.25
Initial/Static Depth to Water (ft)	7.56	Length of Water Column (ft)	1.69
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	0.27	Three Casing Volumes (gal)	0.81
Purge Time Start	12:22	Purge Time Stop	12:29
Total Purge Time (min)	6	Purge Rate (gpm)	0.14
Purge Volume (gal)	0.82	Depth to Water (ft) at Sampling	7.51

Casing or Borehole Volume	
0.5-inch Diameter = 0.010 gal/ft 0.75-inch Diameter = 0.023 gal/ft 1-inch Diameter = 0.041 gal/ft 1.5-inch Diameter = 0.092 gal/ft 2-inch Diameter = 0.16 gal/ft	4-inch Diameter = 0.65 gal/ft 6-inch Diameter = 1.46 gal/ft 9-inch Diameter = 3.30 gal/ft 12-inch Diameter = 5.87 gal/ft 15-inch Diameter = 9.18 gal/ft

Indicator Data						
Volume Pumped	Before Purge	Volume 2 (0.27 gal)	Volume 3 (0.54 gal)	Volume 4	Volume 5	At Sampling
Temperature (C)		23.1	22.9			23.2
pH		6.68	6.75			6.66
Conductivity (µs)		7339	7222			7273
Dissolved Oxygen (mg/L)		50.6	4.49			4.3
Dissolved Oxygen (%)		49.5	52.8			51.4
TDS (ppm)		4955	4894			4886
Turbidity (NTU)		14.7	95.72			18

Depth to Water at End of Purge: 9.25	Drawdown: 1.69

Comments: Dewatered at ~0.6 gal

Miscellaneous Data
Condition of Traffic Box: Fair
Drum Identification Labeling: N/A
Water Level Indicator: Solinst Model 101
Weather Conditions: 83°F
Comments: Insuf. Water for parameter at sampling
Sampled Time: 11:15
Well Recovery Calculation Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery 7.56 + 0.2 * 1.69 = 7.90

Groundwater Sampling/Purging Data Sheet

Job No: 20-09665	**Event:** Third Quarter
Project/Location: Malibu CCWTF/Malibu, CA	**Date:** August 18, 2020
Observation Period **Start:** 09:20 **Stop:** 10:14	**Well Name:** MCWP-MW07S
Sampled By: PeterDoran	**Survey Reference Point:** TOC

Purging Data			
Type of Pump	Grundfos Redi-Flow 2 Pump	Pump Inlet Depth (ft)	16
Well Diameter (in)	2	Depth of Well (ft)	17.28
Initial/Static Depth to Water (ft)	5.76	Length of Water Column (ft)	11.52
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.84	Three Casing Volumes (gal)	5.53
Purge Time Start	09:25	Purge Time Stop	09:33
Total Purge Time (min)	7	Purge Rate (gpm)	0.57
Purge Volume (gal)	4	Depth to Water (ft) at Sampling	6.2

Casing or Borehole Volume	
0.5-inch Diameter = 0.010 gal/ft 0.75-inch Diameter = 0.023 gal/ft 1-inch Diameter = 0.041 gal/ft 1.5-inch Diameter = 0.092 gal/ft 2-inch Diameter = 0.16 gal/ft	4-inch Diameter = 0.65 gal/ft 6-inch Diameter = 1.46 gal/ft 9-inch Diameter = 3.30 gal/ft 12-inch Diameter = 5.87 gal/ft 15-inch Diameter = 9.18 gal/ft

Indicator Data						
Volume Pumped	Before Purge	Volume 2 (2 gal)	Volume 3 (gal)	Volume 4	Volume 5	At Sampling
Temperature (C)	24.3	24.5				23
pH	7.17	7.19				7.19
Conductivity (µs)	2060	1952				2000
Dissolved Oxygen (mg/L)	3.36	3.9				4.18
Dissolved Oxygen (%)	40.2	46.3				50.1
TDS (ppm)	1354	1281				1302
Turbidity (NTU)	12.76	11.91				16.41

Depth to Water at End of Purge: 17.28	Drawdown: 11.52

Comments: Dewatered at 4 ft

Miscellaneous Data
Condition of Traffic Box: Good
Drum Identification Labeling: N/A
Water Level Indicator: Solinst Model 101
Weather Conditions: 86°F
Comments:
Sampled Time: 10:45
Well Recovery Calculation Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery 5.76 + 0.2 * 11.52 = 8.06

Groundwater Sampling/Purging Data Sheet

Job No: 20-09665	**Event:** Third Quarter
Project/Location: Malibu CCWTF/Malibu, CA	**Date:** August 18, 2020
Observation Period **Start:** 09:40 **Stop:** 12:30	**Well Name:** MCWP-MW07D
Sampled By: Peter Doran	**Survey Reference Point:** TOC

Purging Data			
Type of Pump	Grundfos Redi-Flow 2 Pump	Pump Inlet Depth (ft)	126
Well Diameter (in)	2	Depth of Well (ft)	128.22
Initial/Static Depth to Water (ft)	8.4	Length of Water Column (ft)	119.82
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	19.17	Three Casing Volumes (gal)	57.51
Purge Time Start	09:42	Purge Time Stop	10:11
Total Purge Time (min)	28	Purge Rate (gpm)	2.05
Purge Volume (gal)	57.5	Depth to Water (ft) at Sampling	8.5

Casing or Borehole Volume	
0.5-inch Diameter = 0.010 gal/ft 0.75-inch Diameter = 0.023 gal/ft 1-inch Diameter = 0.041 gal/ft 1.5-inch Diameter = 0.092 gal/ft 2-inch Diameter = 0.16 gal/ft	4-inch Diameter = 0.65 gal/ft 6-inch Diameter = 1.46 gal/ft 9-inch Diameter = 3.30 gal/ft 12-inch Diameter = 5.87 gal/ft 15-inch Diameter = 9.18 gal/ft

Indicator Data						
Volume Pumped	Before Purge	Volume 2 (19.5 gal)	Volume 3 (38.5 gal)	Volume 4	Volume 5	At Sampling
Temperature (C)	24.3	24	23.9	23.9		24.4
pH	7	7	7	7		6.5
Conductivity (µs)	2724	2796	2806	2808		940
Dissolved Oxygen (mg/L)	3.31	3.34	3.5	3.99		2.85
Dissolved Oxygen (%)	40	40.9	42.6	47.7		37.3
TDS (ppm)	1780	1853	1860	1865		564
Turbidity (NTU)	1.4	2.1	2.6	2.4		33

Depth to Water at End of Purge: 8.99	Drawdown: 0.59

Comments: Sulfur odor

Miscellaneous Data
Condition of Traffic Box: Good
Drum Identification Labeling: N/A
Water Level Indicator: Solinst Model 101
Weather Conditions: 86°F
Comments:
Sampled Time: 11:50
Well Recovery Calculation Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery 8.4 + 0.2 * 0.59 = 8.52

Groundwater Sampling/Purging Data Sheet

Job No: 20-09665	**Event:** Third Quarter
Project/Location: Malibu CCWTF/Malibu, CA	**Date:** August 19, 2020
Observation Period **Start:** 08:10 **Stop:** 09:10	**Well Name:** MCWP-MW06
Sampled By: Peter Doran	**Survey Reference Point:** TOC

Purging Data			
Type of Pump	Grundfos Redi-Flow 2 Pump	Pump Inlet Depth (ft)	135
Well Diameter (in)	2	Depth of Well (ft)	137.8
Initial/Static Depth to Water (ft)	11.3	Length of Water Column (ft)	126.5
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	20.24	Three Casing Volumes (gal)	60.72
Purge Time Start	08:23	Purge Time Stop	08:57
Total Purge Time (min)	34	Purge Rate (gpm)	1.79
Purge Volume (gal)	61	Depth to Water (ft) at Sampling	11.2

Casing or Borehole Volume	
0.5-inch Diameter = 0.010 gal/ft 0.75-inch Diameter = 0.023 gal/ft 1-inch Diameter = 0.041 gal/ft 1.5-inch Diameter = 0.092 gal/ft 2-inch Diameter = 0.16 gal/ft	4-inch Diameter = 0.65 gal/ft 6-inch Diameter = 1.46 gal/ft 9-inch Diameter = 3.30 gal/ft 12-inch Diameter = 5.87 gal/ft 15-inch Diameter = 9.18 gal/ft

Indicator Data						
Volume Pumped	Before Purge	Volume 2 (20 gal)	Volume 3 (40 gal)	Volume 4	Volume 5	At Sampling
Temperature (C)	25	22.4	23.3	22.5		23.4
pH	7.31	7.21	7.15	7.21		7.3
Conductivity (µs)	2139	1977	2017	1981		1737
Dissolved Oxygen (mg/L)	5.16	3.5	2.13	3.2		3.59
Dissolved Oxygen (%)	62.9	40	25.2	37		42.3
TDS (ppm)	1388	1347	1353	1347		1163
Turbidity (NTU)	82.3	13.1	11.2	14.54		18.59

Depth to Water at End of Purge: 11.62	Drawdown: 0.32

Comments:

Miscellaneous Data
Condition of Traffic Box: Missing bolt
Drum Identification Labeling: N/A
Water Level Indicator: Solinst Model 101
Weather Conditions: 76°F
Comments:
Sampled Time: 09:05
Well Recovery Calculation Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery 11.3 + 0.2 * 0.32 = 11.364

Groundwater Sampling/Purging Data Sheet

Job No: 20-09665	**Event:** Third Quarter
Project/Location: Malibu CCWTF/Malibu, CA	**Date:** August 18, 2020
Observation Period **Start:** 10:40 **Stop:** 11:15	**Well Name:** SMBRP-11
Sampled By: Peter Doran	**Survey Reference Point:** TOC

Purging Data			
Type of Pump	Grundfos Redi-Flow 2 Pump	Pump Inlet Depth (ft)	19.5
Well Diameter (in)	2	Depth of Well (ft)	20.05
Initial/Static Depth to Water (ft)	8.5	Length of Water Column (ft)	11.55
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.848	Three Casing Volumes (gal)	5.544
Purge Time Start	10:48	Purge Time Stop	10:54
Total Purge Time (min)	6	Purge Rate (gpm)	0.92
Purge Volume (gal)	5.5	Depth to Water (ft) at Sampling	8.51

Casing or Borehole Volume	
0.5-inch Diameter = 0.010 gal/ft 0.75-inch Diameter = 0.023 gal/ft 1-inch Diameter = 0.041 gal/ft 1.5-inch Diameter = 0.092 gal/ft 2-inch Diameter = 0.16 gal/ft	4-inch Diameter = 0.65 gal/ft 6-inch Diameter = 1.46 gal/ft 9-inch Diameter = 3.30 gal/ft 12-inch Diameter = 5.87 gal/ft 15-inch Diameter = 9.18 gal/ft

Indicator Data						
Volume Pumped	Before Purge	Volume 2 (2 gal)	Volume 3 (4 gal)	Volume 4	Volume 5	At Sampling
Temperature (C)	24.2	25.4	25.4	25.4		22.6
pH	6.72	6.73	6.73	6.73		6.81
Conductivity (µs)	2805	2592	2589	2591		2673
Dissolved Oxygen (mg/L)	2.77	3.55	3.28	3.16		4.01
Dissolved Oxygen (%)	33.2	43.3	40.1	38.7		53.6
TDS (ppm)	1823	1686	1683	1684		1604
Turbidity (NTU)	65	99.2	101.2	98.6		29.3

Depth to Water at End of Purge: 19.96	Drawdown: 11.46

Comments: Well dewatered at 6 gallons removed

Miscellaneous Data
Condition of Traffic Box: Good
Drum Identification Labeling: N/A
Water Level Indicator: Solinst Model 101
Weather Conditions: 82°F
Comments:
Sampled Time: 10:45
Well Recovery Calculation Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery 8.5 + 0.2 * 11.46 = 10.792

Groundwater Sampling/Purging Data Sheet

Job No: 20-09665	**Event:** Third Quarter
Project/Location: Malibu CCWTF/Malibu, CA	**Date:** August 18, 2020
Observation Period **Start:** 08:45 **Stop:** 09:45	**Well Name:** LAMW-5S
Sampled By: Peter Doran	**Survey Reference Point:** TOC

Purging Data			
Type of Pump	Grundfos Redi-Flow 2 Pump	Pump Inlet Depth (ft)	72
Well Diameter (in)	4	Depth of Well (ft)	74.12
Initial/Static Depth to Water (ft)	53.84	Length of Water Column (ft)	20.28
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.65
One Casing Volume (gal)	13.18	Three Casing Volumes (gal)	39.55
Purge Time Start	09:10	Purge Time Stop	09:30
Total Purge Time (min)	20	Purge Rate (gpm)	1
Purge Volume (gal)	20	Depth to Water (ft) at Sampling	53.83

Casing or Borehole Volume	
0.5-inch Diameter = 0.010 gal/ft 0.75-inch Diameter = 0.023 gal/ft 1-inch Diameter = 0.041 gal/ft 1.5-inch Diameter = 0.092 gal/ft 2-inch Diameter = 0.16 gal/ft	4-inch Diameter = 0.65 gal/ft 6-inch Diameter = 1.46 gal/ft 9-inch Diameter = 3.30 gal/ft 12-inch Diameter = 5.87 gal/ft 15-inch Diameter = 9.18 gal/ft

Indicator Data						
Volume Pumped	Before Purge	Volume 2 (13.5 gal)	Volume 3 (gal)	Volume 4	Volume 5	At Sampling
Temperature (C)	23.1	23.1				26.9
pH	6.54	6.65				6.9
Conductivity (µs)	1017	1029				1090
Dissolved Oxygen (mg/L)	2.83	2.77				4.85
Dissolved Oxygen (%)	32.6	32.3				61
TDS (ppm)	661	669				683
Turbidity (NTU)	7.2	29.9				8.26

Depth to Water at End of Purge: 72.12	Drawdown: 18.28

Comments: Well dewatered at 20 gallons

Miscellaneous Data
Condition of Traffic Box: Good
Drum Identification Labeling: N/A
Water Level Indicator: Solinst Model 101
Weather Conditions: 86°F
Comments:
Sampled Time: 09:00
Well Recovery Calculation Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery 53.84 + 0.2 * 18.28 = 57.496

Groundwater Sampling/Purging Data Sheet

Job No: 20-09665	**Event:** Third Quarter
Project/Location: Malibu CCWTF/Malibu, CA	**Date:** August 17, 2020
Observation Period **Start:** 09:45 **Stop:** 10:25	**Well Name:** MCWP-MW04S
Sampled By: Peter Doran	**Survey Reference Point:** TOC

Purging Data			
Type of Pump	Grundfos Redi-Flow 2 Pump	Pump Inlet Depth (ft)	20
Well Diameter (in)	4	Depth of Well (ft)	20.27
Initial/Static Depth to Water (ft)	6.18	Length of Water Column (ft)	14.09
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.65
One Casing Volume (gal)	9.16	Three Casing Volumes (gal)	27.48
Purge Time Start	09:55	Purge Time Stop	10:15
Total Purge Time (min)	20	Purge Rate (gpm)	1
Purge Volume (gal)	20	Depth to Water (ft) at Sampling	6.18

Casing or Borehole Volume	
0.5-inch Diameter = 0.010 gal/ft 0.75-inch Diameter = 0.023 gal/ft 1-inch Diameter = 0.041 gal/ft 1.5-inch Diameter = 0.092 gal/ft 2-inch Diameter = 0.16 gal/ft	4-inch Diameter = 0.65 gal/ft 6-inch Diameter = 1.46 gal/ft 9-inch Diameter = 3.30 gal/ft 12-inch Diameter = 5.87 gal/ft 15-inch Diameter = 9.18 gal/ft

Indicator Data						
Volume Pumped	Before Purge	Volume 2 (9.5 gal)	Volume 3 (18.5 gal)	Volume 4	Volume 5	At Sampling
Temperature (C)	23	23.3	23.6			26.5
pH	7.23	7.09	7.02			7.19
Conductivity (µs)	7895	7011	6588			6922
Dissolved Oxygen (mg/L)	1.92	2.15	2.22			4.11
Dissolved Oxygen (%)	22.9	25.9	26.6			52.1
TDS (ppm)	5132	4557	4282			4353
Turbidity (NTU)	7.4	1.7	1.07			7.5

Depth to Water at End of Purge: 19.96	Drawdown: 13.78

Comments: Well dewatered at 20 gallons removed

Miscellaneous Data
Condition of Traffic Box: Fair
Drum Identification Labeling: N/A
Water Level Indicator: Solinst Model 101
Weather Conditions: 86°F
Comments:
Sampled Time: 12:30
Well Recovery Calculation Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery 6.18 + 0.2 * 13.78 = 8.936

Groundwater Sampling/Purging Data Sheet

Job No: 20-09665	**Event:** Third Quarter
Project/Location: Malibu CCWTF/Malibu, CA	**Date:** August 18, 2020
Observation Period **Start:** 08:20 **Stop:** 10:30	**Well Name:** SMBRP-9
Sampled By: Michelle Carter	**Survey Reference Point:** TOC

Purging Data			
Type of Pump	Grundfos Redi-Flow 2 Pump	Pump Inlet Depth (ft)	44
Well Diameter (in)	2	Depth of Well (ft)	44.91
Initial/Static Depth to Water (ft)	35.06	Length of Water Column (ft)	9.85
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.576	Three Casing Volumes (gal)	4.728
Purge Time Start	08:32	Purge Time Stop	08:39
Total Purge Time (min)	7	Purge Rate (gpm)	0.71
Purge Volume (gal)	5	Depth to Water (ft) at Sampling	35.05

Casing or Borehole Volume	
0.5-inch Diameter = 0.010 gal/ft 0.75-inch Diameter = 0.023 gal/ft 1-inch Diameter = 0.041 gal/ft 1.5-inch Diameter = 0.092 gal/ft 2-inch Diameter = 0.16 gal/ft	4-inch Diameter = 0.65 gal/ft 6-inch Diameter = 1.46 gal/ft 9-inch Diameter = 3.30 gal/ft 12-inch Diameter = 5.87 gal/ft 15-inch Diameter = 9.18 gal/ft

Indicator Data						
Volume Pumped	Before Purge	Volume 2 (1.5 gal)	Volume 3 (3 gal)	Volume 4	Volume 5	At Sampling
Temperature (C)	26.4	24.9	25.7	25.7		25.3
pH	6.95	6.99	6.99	7.04		6.99
Conductivity (µs)	2472	2493	2530	2484		2515
Dissolved Oxygen (mg/L)	3.44	5.07	4.89	5.17		5.83
Dissolved Oxygen (%)	43	61.8	60.4	64.7		71.7
TDS (ppm)	1565	1619	1619	1594		1624
Turbidity (NTU)	79.69	47.25	43.06	114.75		45.77

Depth to Water at End of Purge: 44.16	Drawdown: 9.10

Comments:

Miscellaneous Data
Condition of Traffic Box: Good
Drum Identification Labeling: N/A
Water Level Indicator: Solinst Model 101
Weather Conditions: 86°F
Comments:
Sampled Time: 09:05
Well Recovery Calculation Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery 35.06 + 0.2 * 9.10 = 36.88

Groundwater Sampling/Purging Data Sheet

Job No: 20-09665	**Event:** Third Quarter
Project/Location: Malibu CCWTF/Malibu, CA	**Date:** August 19, 2020
Observation Period **Start:** 09:30 **Stop:** 10:30	**Well Name:** SMBRP-12
Sampled By: Michelle Carter	**Survey Reference Point:** TOC

Purging Data			
Type of Pump	Electric Submersible Pump	Pump Inlet Depth (ft)	5
Well Diameter (in)	2	Depth of Well (ft)	24.57
Initial/Static Depth to Water (ft)	6.57	Length of Water Column (ft)	18
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	2.88	Three Casing Volumes (gal)	8.64
Purge Time Start	09:48	Purge Time Stop	09:53
Total Purge Time (min)	5	Purge Rate (gpm)	1.8
Purge Volume (gal)	9	Depth to Water (ft) at Sampling	6.57

Casing or Borehole Volume	
0.5-inch Diameter = 0.010 gal/ft 0.75-inch Diameter = 0.023 gal/ft 1-inch Diameter = 0.041 gal/ft 1.5-inch Diameter = 0.092 gal/ft 2-inch Diameter = 0.16 gal/ft	4-inch Diameter = 0.65 gal/ft 6-inch Diameter = 1.46 gal/ft 9-inch Diameter = 3.30 gal/ft 12-inch Diameter = 5.87 gal/ft 15-inch Diameter = 9.18 gal/ft

Indicator Data						
Volume Pumped	Before Purge	Volume 2 (3 gal)	Volume 3 (6 gal)	Volume 4	Volume 5	At Sampling
Temperature (C)	25.5	25.4	24.9			24.8
pH	6.99	6.98	6.96			6.95
Conductivity (µs)	3227	3169	3197			3180
Dissolved Oxygen (mg/L)	2.76	3.05	3			2.92
Dissolved Oxygen (%)	34.2	37.4	36			35
TDS (ppm)	2064	2044	2080			2072
Turbidity (NTU)	16.63	5.66	3.64			1.29

Depth to Water at End of Purge: 6.6	Drawdown: 0.030

Comments:

Miscellaneous Data
Condition of Traffic Box: Good
Drum Identification Labeling: N/A
Water Level Indicator: Solinst Model 101
Weather Conditions: 86°F
Comments:
Sampled Time: 10:15
Well Recovery Calculation Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery 6.57 + 0.2 * 0.030 = 6.576

Surface Water Sampling

Job No: 20-09665	**Event:** Third Quarter 2020
Project: Malibu CCWTF	**Date:** August 18, 2020
Location: Malibu, CA	**Sampled By:** Jaime McClain

CONDITIONS

Weather: 72-83	**Wind:** <3kts
Estuary Berm: Open	

DAILY TIDES

LOW	Time: 15:17	Feet: 1.8	**HIGH**	Time: 10:17	Feet: 4.3

VISUAL OBSERVATIONS

Location	Time	Sea State	Water Clarity	Water Color	Odors	Floatables	Birds/Wildlife
							Type, # On Land # In Water
N-001	08:37	Rough	Clear	Clear	None	None	N/A , 0, 0
N-002	08:50	Rough	Clear	Clear	None	None	N/A , 0, 0
N-003	09:04	Rough	Clear	Clear	None	None	N/A , 0, 0
N-004	10:04	Rough	Clear	Clear	None	None	N/A , 0, 0
L-001	10:30	N/A	Clear	Brown	None	Sheen	Mallard, 0, 17 Cormorant, 0, 2
L-002	10:53	N/A	Clear	Clear	None	Sheen	N/A , 0, 0
L-003	10:45	N/A	Clear	Clear	Ammonia	Sheen, Garbage	N/A , 0, 0
L-004	09:35	N/A	Clear	Clear	None	None	Terns, 55, 4
L-005	09:15	N/A	Clear	Clear	Rotten Eggs	None	SNPL, 10, 0 Western gull , 35, 0
L-006	09:45	N/A	Clear	Clear	Rotten Eggs	None	Mallard, 7, 0

Appendix B

Analytical Laboratory Reports

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

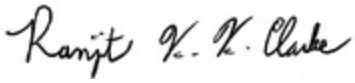
Lab Job Number:	432391
Report Level:	II
Report Date:	09/24/2020

Analytical Report *prepared for:*

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Project: MALIBU - Annual - Long Term GW + SNMP MOU - Partial Report (EPA 1694 pending)

Authorized for release by:



Ranjit K Clarke, Project 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, CDC ELITE Member

ENTHALPY ANALYTICAL

Sample Summary

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #: 432391
Project No: MALIBU
Location: Annual - Long Term GW + SNMP MOU - Partial Report (EPA 1694 pending)
Date Received: 08/18/20

Sample ID	Lab ID	Collected	Matrix
SMBRP-9	432391-001	08/18/20 09:05	Water
MCWP-MW07S	432391-002	08/18/20 10:45	Water
MCWP-MW07D	432391-003	08/18/20 11:50	Water
MCWP-MW04S	432391-004	08/18/20 12:30	Water
LAMW-55	432391-005	08/18/20 09:00	Water
SMBRP-11	432391-006	08/18/20 10:45	Water
MBCMW-9	432391-007	08/18/20 11:15	Water

Case Narrative

Rincon Consultants - Ventura 180 North Ashwood Ave. Ventura, CA 93003 Kiernan Brtalik	Lab Job Number: 432391 Project No: MALIBU Location: Annual - Long Term GW + SNMP MOU Date Received: 08/18/20

This data package contains sample and QC results for seven water samples, requested for the above referenced project on 08/18/20. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 524.2):
Methylene chloride was detected above the RL in the method blank for batch 251342. Methylene chloride was detected above the RL in a number of samples; this analyte is a common laboratory contaminant. No other analytical problems were encountered.

Metals (EPA 200.7, EPA 200.8, EPA 245.1, and EPA 245.1):
High response was observed for mercury in the ICV analyzed 08/19/20 17:53; affected data was qualified with "b". Low recoveries were observed for chromium and selenium in the matrix spike for batch 251263; the parent sample was not a project sample, and the LCS was within limits. Calcium was detected between the MDL and the RL in the method blank for batch 251222; this analyte was detected in samples 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 recoveries were observed for chloride in the MS/MSD for batch 251195; the parent sample was not a project sample. No other analytical problems were encountered.

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No: 432391

Page: 1 of 3

Turn Around Time (rush by advanced notice only)

Standard:		5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

<<< Select a Laboratory >>>

#N/A

#N/A

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	RINCON CONSULTANTS	Name:	MALIBU - ANNUAL
Report To:	Kiernan Brtalik	Number:	20-0965
Email:	Kbrtalik@rinconconsultants.com	P.O. #:	
Address:	180 N. ASHWOOD	Address:	
	Ventura, CA 93003		
Phone:	(805) 644-4455	Global ID:	
Fax:		Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	T/F Coliforms	Metals: 200.7, 200.8, 245.1	300.0: Cl, F, NO2, NO3, SO4; Perchlorate	Cyanide: Total	TKN, NH3, Phosphorus	TOC, BOD, TDS, TSS	MBAS, Turbidity	pH, Residual chlorine, color, odor	Corrosivity	1664, 1613, 624	524.2 - DW	Test Instructions / Comments
1	SMBRP-9	8/18/20	0905	W			X	X	X	X	X	X	X	X	X	X	X	
2	MCWP - MW07S	8/18/20	1045	W			X	X	X	X	X	X	X	X	X	X	X	
3	MCWP - MW07D	8/18/20	1150	W			X	X	X	X	X	X	X	X	X	X	X	
4	MCWP- MW04S	8/18/20	1230	W			X	X	X	X	X	X	X	X	X	X	X	
5																		
6																		
7																		
8																		
9																		
10																		

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Michelle Carter	RINCON CONSULTANTS.	8/18/20 / 1450
1 Received By:		JAIME A	EA	8/18/20 1450
2 Relinquished By:		JAIME A	EA	8/18/20 1646
2 Received By:		Kim	EA	8/18/20 1646
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No:

Page: 2 of 3

Turn Around Time (rush by advanced notice only)

Standard:		5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

<<< Select a Laboratory >>>

#N/A

#N/A

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	RINCON CONSULTANTS	Name:	MALIBU - ANNUAL
Report To:	KIERNAN BRTALIK	Number:	20-0966S
Email:	Kbrtalik@rinconconsultants.com	P.O. #:	
Address:	180 N. ASHWOOD	Address:	
	VENTURA, CA 93003		
Phone:	(805) 644-4455	Global ID:	
Fax:		Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	GROSS ALPHA + BETA, RADIUM 226, RADIUM 228, URANIUM	RADIUM 228 in Drinking water	ASBESTOS	Test Instructions / Comments
1	SMBRP-9	8/18/20	0905	W			X	X	X	
2	MCWP-MW07S	8/18/20	1045	W			X	X	X	
3	MCWP-MW07D	8/18/20	1150	W			X	X	X	
4	MCWP-MW04S	8/18/20	1230	W			X	X	X	
5										
6										
7										
8										
9										
10										

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Michelle Carter	RINCON CONSULTANTS	8/18/20 1450
[1] Received By:		JAIME A	EA	8/18/2020 1450
[2] Relinquished By:		JAIME A	EA	8/18/2020 1646
[2] Received By:		G Kim	EA	8/18/20 1646
[3] Relinquished By:				
[3] Received By:				

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No:

Page: 3 of 3

Turn Around Time (rush by advanced notice only)

Standard:		5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

<<< Select a Laboratory >>>

#N/A

#N/A

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: (lab use only)

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	Address:	
	Ventura, CA 93003		
Phone:	(805) 644-4455	Global ID:	
Fax:		Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	T/F COLIFORMS	300.0: NO2, NO3	TKN, NH3, PHOSPHORUS	TDS	Test Instructions / Comments
1	LAMW-5S	8/18/20	0900	W			X	X	X	X	
2	SMBRP-11	8/18/20	1045	W			X	X	X	X	
3	MBCMW-9	8/18/20	1115	W			X	X	X	X	
4											
5											
6											
7											
8											
9											
10											

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Michelle Carter	Rincon Consultants	8/18/20 1450
1 Received By:		JAIRO A	EA	8/18/2020 1450
2 Relinquished By:		JAIRO A	EA	8/18/2020 1646
2 Received By:		Glen	EA	8/18/20 1640
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Ventura Project: Annual - Malibu

Date Received: 8/18/20 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 9 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 11.0 #2: 9.2 #3: 15.8 #4: 14.2

(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: 8.0 #2: 7.7 #3: 13.6 #4: 13.8

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

Sample/Cooler temperature in °C: 6.7/4.7, 14.2/0.6, 19.2/1.1, 10.1/9.4, 20.2/13.8
Sample 004: "MCWP-MW04S" No container received for EPA 531 and 547.
Not listed on the COC: EPA 500s DW series, EPA1694, EPA 218.7, EPA 300.1, EPA 906
4 containers per sample received for EPA 1613

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: 8/18/20

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
Weck Laboratories, Inc.
14859 Clark Ave.
Hacienda Heights, CA 91745
ATTN: Regina Giancola
PO #: Required, to be sent via email

Enthalpy Order: EO-432391
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	18-AUG-2020 09:05	432391-001	1	Water	EDB and DBCP by GC	
				Water	EPA 508 Chlorinated Pesticides	
				Water	EPA 515.3 Chlorinated Acids	
				Water	EPA 525.2 Semi-Volatile Organics	
				Water	EPA 531.1 Carbamates	
				Water	EPA 547 Glyphosate	
				Water	EPA 548.1 Endothall	
				Water	EPA 549.2 Diquat and Paraquat	
				Water	552.2 Haloacetic Acids	
				Water	Bromate by 300.1 - OUT	
MCWP-MW07S	18-AUG-2020 10:45	432391-002	1	Water	EDB and DBCP by GC	
				Water	EPA 508 Chlorinated Pesticides	
				Water	EPA 515.3 Chlorinated Acids	
				Water	EPA 525.2 Semi-Volatile Organics	
				Water	EPA 531.1 Carbamates	
				Water	EPA 547 Glyphosate	
				Water	EPA 548.1 Endothall	
				Water	EPA 549.2 Diquat and Paraquat	
				Water	552.2 Haloacetic Acids	
				Water	Bromate by 300.1 - OUT	
MCWP-MW07D	18-AUG-2020 11:50	432391-003	1	Water	EDB and DBCP by GC	
				Water	EPA 508 Chlorinated Pesticides	
				Water	EPA 515.3 Chlorinated Acids	
				Water	EPA 525.2 Semi-Volatile Organics	
				Water	EPA 531.1 Carbamates	
				Water	EPA 547 Glyphosate	
				Water	EPA 548.1 Endothall	
				Water	EPA 549.2 Diquat and Paraquat	
				Water	552.2 Haloacetic Acids	
				Water	Bromate by 300.1 - OUT	
MCWP-MW04S	18-AUG-2020 12:30	432391-004	1	Water	EDB and DBCP by GC	
				Water	EPA 508 Chlorinated Pesticides	
				Water	EPA 515.3 Chlorinated Acids	
				Water	EPA 525.2 Semi-Volatile Organics	
				Water	EPA 531.1 Carbamates	
				Water	EPA 547 Glyphosate	
				Water	EPA 548.1 Endothall	
				Water	EPA 549.2 Diquat and Paraquat	
				Water	552.2 Haloacetic Acids	
				Water	Bromate by 300.1 - OUT	

Notes:	Relinquished By:	Received By:
	[signature]	Hector Santos
	Date: 8/20/20 15:13	Date: 8/20/20 1513
	Date:	Date:
	Date:	Date:

ENTHALPY

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
Weck Laboratories, Inc.
14859 Clark Ave.
Hacienda Heights, CA 91745
ATTN: Regina Giancola
PO #: 1055973

Enthalpy Order: EO-432391
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:

Same target list and reporting limits as Weck Report #9H15070.

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
SMBRP-9	18-AUG-2020 09:05	432391-001	1	Water	Hexavalent Chromium by EPA 218.6	
			1	Water	EDB and DBCP by GC	
				Water	EPA 508 Chlorinated Pesticides	
				Water	EPA 515.3 Chlorinated Acids	
				Water	EPA 525.2 Semi-Volatile Organics	
				Water	EPA 531.1 Carbamates	
				Water	EPA 547 Glyphosate	
				Water	EPA 548.1 Endothall	
				Water	EPA 549.2 Diquat and Paraquat	
				Water	552.2 Haloacetic Acids	
				Water	EPA 625 Low Level	
				Water	Bromate by 300.1 - OUT	
				Water	EPA 300.1 for Chlorate by IC	
				Water	Method 1694: Pharmaceuticals and PCPs by HPLC/MS/MS	
				Water	EPA 1625 Isotope Dilution for NDMA	
MCWP-MW07S	18-AUG-2020 10:45	432391-002	1	Water	Hexavalent Chromium by EPA 218.6	
			1	Water	EDB and DBCP by GC	
				Water	EPA 508 Chlorinated Pesticides	
				Water	EPA 515.3 Chlorinated Acids	
				Water	EPA 525.2 Semi-Volatile Organics	
				Water	EPA 531.1 Carbamates	
				Water	EPA 547 Glyphosate	
				Water	EPA 548.1 Endothall	
				Water	EPA 549.2 Diquat and Paraquat	
				Water	552.2 Haloacetic Acids	
				Water	EPA 625 Low Level	
				Water	Bromate by 300.1 - OUT	
				Water	EPA 300.1 for Chlorate by IC	
				Water	Method 1694: Pharmaceuticals and PCPs by HPLC/MS/MS	
				Water	EPA 1625 Isotope Dilution for NDMA	
MCWP-MW07D	18-AUG-2020 11:50	432391-003	1	Water	Hexavalent Chromium by EPA 218.6	
			1	Water	EDB and DBCP by GC	
				Water	EPA 508 Chlorinated Pesticides	
				Water	EPA 515.3 Chlorinated Acids	
				Water	EPA 525.2 Semi-Volatile Organics	
				Water	EPA 531.1 Carbamates	
				Water	EPA 547 Glyphosate	
				Water	EPA 548.1 Endothall	
				Water	EPA 549.2 Diquat and Paraquat	
				Water	552.2 Haloacetic Acids	
				Water	EPA 625 Low Level	
				Water	Bromate by 300.1 - OUT	
				Water	EPA 300.1 for Chlorate by IC	
				Water	Method 1694: Pharmaceuticals and PCPs by HPLC/MS/MS	
				Water	EPA 1625 Isotope Dilution for NDMA	
MCWP-MW04S	18-AUG-2020 12:30	432391-004	1	Water	Hexavalent Chromium by EPA 218.6	
			1	Water	EDB and DBCP by GC	
				Water	EPA 508 Chlorinated Pesticides	
				Water	EPA 515.3 Chlorinated Acids	
				Water	EPA 525.2 Semi-Volatile Organics	
				Water	EPA 531.1 Carbamates	
				Water	EPA 547 Glyphosate	
				Water	EPA 548.1 Endothall	
				Water	EPA 549.2 Diquat and Paraquat	
				Water	552.2 Haloacetic Acids	
				Water	EPA 625 Low Level	
				Water	Bromate by 300.1 - OUT	
				Water	EPA 300.1 for Chlorate by IC	
				Water	Method 1694: Pharmaceuticals and PCPs by HPLC/MS/MS	
				Water	EPA 1625 Isotope Dilution for NDMA	

Notes:	Relinquished By:	Received By:
	[signature]	[signature]
	Date: 8/20/20 15:17	Date: 8-20-20 / 15:17
	Date:	Date:
	Date:	Date:

ENTHALPY ANALYTICAL

Analysis Results for 432391

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #: 432391
Project No: MALIBU
Location: Annual - Long Term GW + SNMP MOU
- Partial Report (EPA 1694 pending)
Date Received: 08/18/20

Sample ID: SMBRP-9 **Lab ID: 432391-001** **Collected: 08/18/20 09:05**
Matrix: Water

432391-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: ALCH 4022 Prep Method: EPA 200.8										
Chromium Trivalent	**16**		ug/L	1.0		1	251263	08/19/20	09/23/20	TTR
Method: EPA 200.7 Prep Method: EPA 200.7										
Boron	**0.57**		mg/L	0.050	0.012	1	251222	08/19/20	08/19/20	SBW
Calcium	**73**		mg/L	0.10	0.033	1	251222	08/19/20	08/19/20	SBW
Iron	**4.5**		mg/L	0.020	0.016	1	251222	08/19/20	08/19/20	SBW
Magnesium	**170**		mg/L	0.10	0.048	1	251222	08/19/20	08/19/20	SBW
Manganese	**0.097**		mg/L	0.010	0.0030	1	251222	08/19/20	08/19/20	SBW
Potassium	**2.5**		mg/L	0.50	0.18	1	251222	08/19/20	08/19/20	SBW
Sodium	**230**		mg/L	0.50	0.061	1	251222	08/19/20	08/19/20	SBW
Method: EPA 200.8 Prep Method: EPA 200.8										
Aluminum	**1,700**		ug/L	10	2.2	1	251263	08/19/20	08/19/20	JCP
Antimony	**44**		ug/L	2.5	0.30	5	251263	08/19/20	08/22/20	JCP
Arsenic	**46**		ug/L	10	1.9	5	251263	08/19/20	08/22/20	JCP
Barium	**110**		ug/L	25	1.4	5	251263	08/19/20	08/22/20	JCP
Beryllium	**22**		ug/L	0.50	0.035	1	251263	08/19/20	08/19/20	JCP
Cadmium	**44**		ug/L	1.0	0.17	5	251263	08/19/20	08/22/20	JCP
Chromium	**21**		ug/L	1.0	0.30	1	251263	08/19/20	08/19/20	JCP
Copper	**52**		ug/L	2.5	0.25	5	251263	08/19/20	08/22/20	JCP
Lead	**46**		ug/L	2.5	0.22	5	251263	08/19/20	08/22/20	JCP
Nickel	**56**		ug/L	5.0	1.0	5	251263	08/19/20	08/22/20	JCP
Selenium	**50**		ug/L	10	1.4	5	251263	08/19/20	08/22/20	JCP
Silver	**46**		ug/L	1.0	0.13	5	251263	08/19/20	08/24/20	JCP
Thallium	**45**		ug/L	5.0	1.2	5	251263	08/19/20	08/22/20	JCP
Zinc	**61**		ug/L	50	21	5	251263	08/19/20	08/22/20	JCP
Method: EPA 245.1 Prep Method: METHOD										
Mercury	ND		ug/L	0.20	0.094	1	251812	08/27/20	08/28/20	KLN
Method: EPA 300.0 Prep Method: METHOD										
Chloride	**190**		mg/L	10	1.4	10	251195	08/19/20 11:30	08/20/20 23:59	RKV
Nitrogen, Nitrite	ND		mg/L	1.0	0.18	10	251195	08/20/20 01:26	08/20/20 01:26	RKV
Nitrogen, Nitrate	**11**		mg/L	1.0	0.45	10	251195	08/20/20 01:26	08/20/20 01:26	RKV

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 432391

432391-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Sulfate	**270**		mg/L	10	2.5	10	251195	08/19/20 11:30	08/20/20 23:59	RKV
Nitrogen, Nitrate/Nitrite	**11**		mg/L	1.0		10	251195	08/20/20 01:26	08/20/20 01:26	RKV
Method: EPA 314.0 Prep Method: METHOD										
Perchlorate	**15**		ug/L	4.0	1.1	2	251376	08/20/20	08/20/20	RKV
Method: EPA 524.2 Prep Method: METHOD										
Acrolein	ND		ug/L	5.0	3.3	1	251342	08/20/20	08/20/20	LYZ
Acrylonitrile	ND		ug/L	2.0	0.8	1	251342	08/20/20	08/20/20	LYZ
1,1-Dichloroethene	ND		ug/L	0.50	0.30	1	251342	08/20/20	08/20/20	LYZ
Benzene	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
Trichloroethene	ND		ug/L	0.50	0.39	1	251342	08/20/20	08/20/20	LYZ
Toluene	ND		ug/L	0.50	0.24	1	251342	08/20/20	08/20/20	LYZ
Chlorobenzene	ND		ug/L	0.50	0.19	1	251342	08/20/20	08/20/20	LYZ
Chloromethane	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
Vinyl Chloride	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
Bromomethane	ND		ug/L	0.68	0.68	1	251342	08/20/20	08/20/20	LYZ
Chloroethane	ND		ug/L	0.50	0.45	1	251342	08/20/20	08/20/20	LYZ
Trichlorofluoromethane	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
Freon 113	ND		ug/L	0.50	0.35	1	251342	08/20/20	08/20/20	LYZ
Methylene Chloride	**2.4**	B	ug/L	0.50	0.16	1	251342	08/20/20	08/20/20	LYZ
MTBE	ND		ug/L	0.50	0.19	1	251342	08/20/20	08/20/20	LYZ
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.33	1	251342	08/20/20	08/20/20	LYZ
1,1-Dichloroethane	ND		ug/L	0.50	0.32	1	251342	08/20/20	08/20/20	LYZ
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
Chloroform	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
1,1,1-Trichloroethane	ND		ug/L	0.50	0.38	1	251342	08/20/20	08/20/20	LYZ
Carbon Tetrachloride	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
1,2-Dichloroethane	ND		ug/L	0.50	0.20	1	251342	08/20/20	08/20/20	LYZ
1,2-Dichloropropane	ND		ug/L	1.0	0.36	1	251342	08/20/20	08/20/20	LYZ
Bromodichloromethane	ND		ug/L	0.50	0.31	1	251342	08/20/20	08/20/20	LYZ
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.23	1	251342	08/20/20	08/20/20	LYZ
1,1,2-Trichloroethane	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
Tetrachloroethene	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
Dibromochloromethane	ND		ug/L	0.50	0.21	1	251342	08/20/20	08/20/20	LYZ
Ethylbenzene	ND		ug/L	0.50	0.21	1	251342	08/20/20	08/20/20	LYZ
m,p-Xylenes	ND		ug/L	1.0	0.45	1	251342	08/20/20	08/20/20	LYZ
Styrene	ND		ug/L	0.50	0.22	1	251342	08/20/20	08/20/20	LYZ
Bromoform	ND		ug/L	0.50	0.20	1	251342	08/20/20	08/20/20	LYZ
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
1,3-Dichlorobenzene	ND		ug/L	0.50	0.34	1	251342	08/20/20	08/20/20	LYZ
1,4-Dichlorobenzene	ND		ug/L	0.50	0.43	1	251342	08/20/20	08/20/20	LYZ
1,2-Dichlorobenzene	ND		ug/L	0.50	0.26	1	251342	08/20/20	08/20/20	LYZ
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
2-Chloroethylvinylether	ND		ug/L	5.0	0.23	1	251342	08/20/20	08/20/20	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432391

432391-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Surrogates				**Limits**						
Bromofluorobenzene	97%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ
1,2-Dichloroethane-d4	96%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ
Dibromofluoromethane	99%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ
Toluene-d8	107%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ
Method: SM 2150B										
Odor	ND	H	TON	1.0		1	251310	08/19/20 14:00	08/19/20 14:00	SGC
Method: SM 2330B										
CCPP	**0.24**		SU			1	251807	08/27/20	08/27/20	SLL
Method: SM 4500-CL-G										
Chlorine, Total Residual	ND	H	mg/L	0.10	0.016	1	251389	08/19/20 15:16	08/19/20 15:16	WWC
Method: SM 4500-CN-E Prep Method: METHOD										
Cyanide	ND		mg/L	0.010	0.0022	1	251800	08/27/20	08/27/20	ATP
Method: SM 4500-F-C										
Fluoride	**1.1**		mg/L	0.10	0.0030	1	251545	08/24/20	08/24/20	NLP
Method: SM 4500-H+ B										
pH	**7.13**	H	SU			1	251235	08/19/20 11:00	08/19/20 11:00	SGC
Temperature	**23.90**	H	deg C	1.00		1	251235	08/19/20 11:00	08/19/20 11:00	SGC
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	251636	08/25/20	08/27/20	ATP
Nitrogen, Total Kjeldahl	**0.50**		mg/L	0.40	0.030	1	251394	08/20/20	08/20/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.090**		mg/L	0.020	0.010	1	251402	08/20/20	08/20/20	SGC
Method: SM 5310B										
Total Organic Carbon	ND		mg/L	1.0	0.091	1	251282	08/18/20	08/19/20	ATP
Method: SM 9223Bb										
Fecal Coliform	<1.0		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Coliform, Total	**280**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Method: SM2120B										
Color	**25**		ColorUnits	5		1	251311	08/19/20 14:00	08/19/20 14:00	SGC
Method: SM2130B										
Turbidity	**30**		NTU	0.10	0.07	1	251308	08/19/20 14:00	08/19/20 14:00	SGC
Method: SM2320B Prep Method: METHOD										
Bicarbonate	**900**		mg/L	13		2.5	251385	08/20/20	08/20/20	WWC
Carbonate	ND		mg/L	13		2.5	251385	08/20/20	08/20/20	WWC
Hydroxide	ND		mg/L	13		2.5	251385	08/20/20	08/20/20	WWC
Alkalinity, Total as CaCO3	**740**		mg/L	13		2.5	251385	08/20/20	08/20/20	WWC
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**1,500**		mg/L	20		2	251390	08/19/20	08/20/20	WWC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432391

432391-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM2540D Prep Method: METHOD										
Total Suspended Solids	**110**		mg/L	1.3		2.5	251461	08/20/20	08/20/20	NLP
Method: SM5540C										
Surfactants (MBAS)	**0.64**		mg/L	0.040	0.027	1	251372	08/19/20 11:00	08/19/20 19:14	NLP

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 432391

Sample ID: MCWP-MW07S	Lab ID: 432391-002	Collected: 08/18/20 10:45
	Matrix: Water	

432391-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: ALCH 4022 Prep Method: EPA 200.8										
Chromium Trivalent	ND		ug/L	1.0		1	251263	08/19/20	09/23/20	TTR
Method: EPA 200.7 Prep Method: EPA 200.7										
Boron	**0.35**		mg/L	0.050	0.012	1	251222	08/19/20	08/19/20	SBW
Calcium	**96**		mg/L	0.10	0.033	1	251222	08/19/20	08/19/20	SBW
Iron	**9.4**		mg/L	0.020	0.016	1	251222	08/19/20	08/19/20	SBW
Magnesium	**81**		mg/L	0.10	0.048	1	251222	08/19/20	08/19/20	SBW
Manganese	**0.58**		mg/L	0.010	0.0030	1	251222	08/19/20	08/19/20	SBW
Potassium	**5.7**		mg/L	0.50	0.18	1	251222	08/19/20	08/19/20	SBW
Sodium	**230**		mg/L	0.50	0.061	1	251222	08/19/20	08/19/20	SBW
Method: EPA 200.8 Prep Method: EPA 200.8										
Aluminum	**910**		ug/L	10	2.2	1	251263	08/19/20	08/19/20	JCP
Antimony	ND		ug/L	2.5	0.30	5	251263	08/19/20	08/22/20	JCP
Arsenic	**7.6**	J	ug/L	10	1.9	5	251263	08/19/20	08/22/20	JCP
Barium	**83**		ug/L	25	1.4	5	251263	08/19/20	08/22/20	JCP
Beryllium	**0.069**	J	ug/L	0.50	0.035	1	251263	08/19/20	08/19/20	JCP
Cadmium	**0.20**	J	ug/L	1.0	0.17	5	251263	08/19/20	08/22/20	JCP
Chromium	ND		ug/L	1.0	0.30	1	251263	08/19/20	08/19/20	JCP
Copper	**8.8**		ug/L	2.5	0.25	5	251263	08/19/20	08/22/20	JCP
Lead	**2.2**	J	ug/L	2.5	0.22	5	251263	08/19/20	08/22/20	JCP
Nickel	**16**		ug/L	5.0	1.0	5	251263	08/19/20	08/22/20	JCP
Selenium	**4.0**	J	ug/L	10	1.4	5	251263	08/19/20	08/22/20	JCP
Silver	ND		ug/L	1.0	0.13	5	251263	08/19/20	08/24/20	JCP
Thallium	ND		ug/L	5.0	1.2	5	251263	08/19/20	08/22/20	JCP
Zinc	ND		ug/L	50	21	5	251263	08/19/20	08/22/20	JCP
Method: EPA 245.1 Prep Method: METHOD										
Mercury	ND		ug/L	0.20	0.094	1	251315	08/19/20	08/19/20	JCP
Method: EPA 300.0 Prep Method: METHOD										
Chloride	**200**		mg/L	10	1.4	10	251195	08/19/20 11:30	08/20/20 23:59	RKV
Nitrogen, Nitrite	ND		mg/L	1.0	0.18	10	251195	08/20/20 01:50	08/20/20 01:50	RKV
Nitrogen, Nitrate	**3.3**		mg/L	1.0	0.45	10	251195	08/20/20 01:50	08/20/20 01:50	RKV
Sulfate	**220**		mg/L	10	2.5	10	251195	08/19/20 11:30	08/20/20 23:59	RKV
Nitrogen, Nitrate/Nitrite	**3.3**		mg/L	1.0		10	251195	08/20/20 01:50	08/20/20 01:50	RKV
Method: EPA 314.0 Prep Method: METHOD										
Perchlorate	ND		ug/L	4.0	1.1	2	251376	08/20/20	08/20/20	RKV

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 432391

432391-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 524.2 Prep Method: METHOD										
Acrolein	ND		ug/L	5.0	3.3	1	251342	08/20/20	08/20/20	LYZ
Acrylonitrile	ND		ug/L	2.0	0.8	1	251342	08/20/20	08/20/20	LYZ
1,1-Dichloroethene	ND		ug/L	0.50	0.30	1	251342	08/20/20	08/20/20	LYZ
Benzene	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
Trichloroethene	ND		ug/L	0.50	0.39	1	251342	08/20/20	08/20/20	LYZ
Toluene	ND		ug/L	0.50	0.24	1	251342	08/20/20	08/20/20	LYZ
Chlorobenzene	ND		ug/L	0.50	0.19	1	251342	08/20/20	08/20/20	LYZ
Chloromethane	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
Vinyl Chloride	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
Bromomethane	ND		ug/L	0.68	0.68	1	251342	08/20/20	08/20/20	LYZ
Chloroethane	ND		ug/L	0.50	0.45	1	251342	08/20/20	08/20/20	LYZ
Trichlorofluoromethane	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
Freon 113	ND		ug/L	0.50	0.35	1	251342	08/20/20	08/20/20	LYZ
Methylene Chloride	**2.2**	B	ug/L	0.50	0.16	1	251342	08/20/20	08/20/20	LYZ
MTBE	ND		ug/L	0.50	0.19	1	251342	08/20/20	08/20/20	LYZ
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.33	1	251342	08/20/20	08/20/20	LYZ
1,1-Dichloroethane	ND		ug/L	0.50	0.32	1	251342	08/20/20	08/20/20	LYZ
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
Chloroform	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
1,1,1-Trichloroethane	ND		ug/L	0.50	0.38	1	251342	08/20/20	08/20/20	LYZ
Carbon Tetrachloride	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
1,2-Dichloroethane	ND		ug/L	0.50	0.20	1	251342	08/20/20	08/20/20	LYZ
1,2-Dichloropropane	ND		ug/L	1.0	0.36	1	251342	08/20/20	08/20/20	LYZ
Bromodichloromethane	ND		ug/L	0.50	0.31	1	251342	08/20/20	08/20/20	LYZ
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.23	1	251342	08/20/20	08/20/20	LYZ
1,1,2-Trichloroethane	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
Tetrachloroethene	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
Dibromochloromethane	ND		ug/L	0.50	0.21	1	251342	08/20/20	08/20/20	LYZ
Ethylbenzene	ND		ug/L	0.50	0.21	1	251342	08/20/20	08/20/20	LYZ
m,p-Xylenes	ND		ug/L	1.0	0.45	1	251342	08/20/20	08/20/20	LYZ
Styrene	ND		ug/L	0.50	0.22	1	251342	08/20/20	08/20/20	LYZ
Bromoform	ND		ug/L	0.50	0.20	1	251342	08/20/20	08/20/20	LYZ
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
1,3-Dichlorobenzene	ND		ug/L	0.50	0.34	1	251342	08/20/20	08/20/20	LYZ
1,4-Dichlorobenzene	ND		ug/L	0.50	0.43	1	251342	08/20/20	08/20/20	LYZ
1,2-Dichlorobenzene	ND		ug/L	0.50	0.26	1	251342	08/20/20	08/20/20	LYZ
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
2-Chloroethylvinylether	ND		ug/L	5.0	0.23	1	251342	08/20/20	08/20/20	LYZ
Surrogates				**Limits**						
Bromofluorobenzene	94%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ
1,2-Dichloroethane-d4	97%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ
Dibromofluoromethane	100%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ
Toluene-d8	112%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432391

432391-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 2150B										
Odor	ND	H	TON	1.0		1	251310	08/19/20 14:00	08/19/20 14:00	SGC
Method: SM 2330B										
CCPP	**0.45**		SU			1	251807	08/27/20	08/27/20	SLL
Method: SM 4500-CL-G										
Chlorine, Total Residual	ND	H	mg/L	0.10	0.016	1	251389	08/19/20 15:16	08/19/20 15:16	WWC
Method: SM 4500-CN-E Prep Method: METHOD										
Cyanide	ND		mg/L	0.010	0.0022	1	251800	08/27/20	08/27/20	ATP
Method: SM 4500-F-C										
Fluoride	**0.45**		mg/L	0.10	0.0030	1	251545	08/24/20	08/24/20	NLP
Method: SM 4500-H+ B										
pH	**7.40**	H	SU			1	251235	08/19/20 11:00	08/19/20 11:00	SGC
Temperature	**23.80**	H	deg C	1.00		1	251235	08/19/20 11:00	08/19/20 11:00	SGC
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	251636	08/25/20	08/27/20	ATP
Nitrogen, Total Kjeldahl	**0.29**	J	mg/L	0.40	0.030	1	251394	08/20/20	08/20/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	ND		mg/L	0.020	0.010	1	251402	08/20/20	08/20/20	SGC
Method: SM 5310B										
Total Organic Carbon	**1.6**		mg/L	1.0	0.091	1	251282	08/18/20	08/19/20	ATP
Method: SM 9223Bb										
Fecal Coliform	**5.2**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Coliform, Total	**2,400**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Method: SM2120B										
Color	**55**		ColorUnits	5		1	251311	08/19/20 14:00	08/19/20 14:00	SGC
Method: SM2130B										
Turbidity	**57**		NTU	0.10	0.07	1	251308	08/19/20 14:00	08/19/20 14:00	SGC
Method: SM2320B Prep Method: METHOD										
Bicarbonate	**540**		mg/L	25		5	251385	08/20/20	08/20/20	WWC
Carbonate	ND		mg/L	25		5	251385	08/20/20	08/20/20	WWC
Hydroxide	ND		mg/L	25		5	251385	08/20/20	08/20/20	WWC
Alkalinity, Total as CaCO3	**440**		mg/L	25		5	251385	08/20/20	08/20/20	WWC
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**1,200**		mg/L	20		2	251390	08/19/20	08/20/20	WWC
Method: SM2540D Prep Method: METHOD										
Total Suspended Solids	**74**		mg/L	1.3		2.5	251461	08/20/20	08/20/20	NLP
Method: SM5540C										
Surfactants (MBAS)	**0.15**		mg/L	0.040	0.027	1	251372	08/19/20 11:00	08/19/20 19:14	NLP

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432391

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 432391

Sample ID: MCWP-MW07D	Lab ID: 432391-003	Collected: 08/18/20 11:50
	Matrix: Water	

432391-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: ALCH 4022 Prep Method: EPA 200.8										
Chromium Trivalent	ND		ug/L	1.0		1	251263	08/19/20	09/23/20	TTR
Method: EPA 200.7 Prep Method: EPA 200.7										
Boron	**0.17**		mg/L	0.050	0.012	1	251222	08/19/20	08/19/20	SBW
Calcium	**35**		mg/L	0.10	0.033	1	251222	08/19/20	08/19/20	SBW
Iron	**1.3**		mg/L	0.020	0.016	1	251222	08/19/20	08/19/20	SBW
Magnesium	**16**		mg/L	0.10	0.048	1	251222	08/19/20	08/19/20	SBW
Manganese	**0.094**		mg/L	0.010	0.0030	1	251222	08/19/20	08/19/20	SBW
Potassium	**12**		mg/L	0.50	0.18	1	251222	08/19/20	08/19/20	SBW
Sodium	**72**		mg/L	0.50	0.061	1	251222	08/19/20	08/19/20	SBW
Method: EPA 200.8 Prep Method: EPA 200.8										
Aluminum	**590**		ug/L	10	2.2	1	251263	08/19/20	08/19/20	JCP
Antimony	**0.91**		ug/L	0.50	0.028	1	251263	08/19/20	08/19/20	JCP
Arsenic	**2.1**		ug/L	2.0	0.38	1	251263	08/19/20	08/19/20	JCP
Barium	**38**		ug/L	25	1.4	5	251263	08/19/20	08/22/20	JCP
Beryllium	ND		ug/L	0.50	0.035	1	251263	08/19/20	08/19/20	JCP
Cadmium	**0.29**		ug/L	0.20	0.012	1	251263	08/19/20	08/19/20	JCP
Chromium	ND		ug/L	1.0	0.30	1	251263	08/19/20	08/19/20	JCP
Copper	**11**		ug/L	0.50	0.023	1	251263	08/19/20	08/19/20	JCP
Lead	**1.4**	J	ug/L	2.5	0.22	5	251263	08/19/20	08/22/20	JCP
Nickel	**7.7**		ug/L	1.0	0.20	1	251263	08/19/20	08/19/20	JCP
Selenium	**1.5**	J	ug/L	2.0	0.24	1	251263	08/19/20	08/19/20	JCP
Silver	**0.14**	B,J	ug/L	0.20	0.014	1	251263	08/19/20	08/19/20	JCP
Thallium	ND		ug/L	5.0	1.2	5	251263	08/19/20	08/22/20	JCP
Zinc	**36**	J	ug/L	50	21	5	251263	08/19/20	08/22/20	JCP
Method: EPA 245.1 Prep Method: METHOD										
Mercury	ND		ug/L	0.20	0.094	1	251315	08/19/20	08/19/20	JCP
Method: EPA 300.0 Prep Method: METHOD										
Chloride	**300**		mg/L	10	1.4	10	251195	08/19/20 11:30	08/20/20 23:59	RKV
Nitrogen, Nitrite	ND		mg/L	1.0	0.18	10	251195	08/20/20 02:15	08/20/20 02:15	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.45	10	251195	08/20/20 02:15	08/20/20 02:15	RKV
Sulfate	**240**		mg/L	10	2.5	10	251195	08/19/20 11:30	08/20/20 23:59	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	251195	08/20/20 02:15	08/20/20 02:15	RKV
Method: EPA 314.0 Prep Method: METHOD										
Perchlorate	ND		ug/L	4.0	1.1	2	251376	08/20/20	08/20/20	RKV

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432391

432391-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 524.2 Prep Method: METHOD										
Acrolein	ND		ug/L	5.0	3.3	1	251342	08/20/20	08/20/20	LYZ
Acrylonitrile	ND		ug/L	2.0	0.8	1	251342	08/20/20	08/20/20	LYZ
1,1-Dichloroethene	ND		ug/L	0.50	0.30	1	251342	08/20/20	08/20/20	LYZ
Benzene	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
Trichloroethene	ND		ug/L	0.50	0.39	1	251342	08/20/20	08/20/20	LYZ
Toluene	ND		ug/L	0.50	0.24	1	251342	08/20/20	08/20/20	LYZ
Chlorobenzene	ND		ug/L	0.50	0.19	1	251342	08/20/20	08/20/20	LYZ
Chloromethane	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
Vinyl Chloride	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
Bromomethane	ND		ug/L	0.68	0.68	1	251342	08/20/20	08/20/20	LYZ
Chloroethane	ND		ug/L	0.50	0.45	1	251342	08/20/20	08/20/20	LYZ
Trichlorofluoromethane	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
Freon 113	ND		ug/L	0.50	0.35	1	251342	08/20/20	08/20/20	LYZ
Methylene Chloride	**2.0**	B	ug/L	0.50	0.16	1	251342	08/20/20	08/20/20	LYZ
MTBE	ND		ug/L	0.50	0.19	1	251342	08/20/20	08/20/20	LYZ
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.33	1	251342	08/20/20	08/20/20	LYZ
1,1-Dichloroethane	ND		ug/L	0.50	0.32	1	251342	08/20/20	08/20/20	LYZ
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
Chloroform	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
1,1,1-Trichloroethane	ND		ug/L	0.50	0.38	1	251342	08/20/20	08/20/20	LYZ
Carbon Tetrachloride	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
1,2-Dichloroethane	ND		ug/L	0.50	0.20	1	251342	08/20/20	08/20/20	LYZ
1,2-Dichloropropane	ND		ug/L	1.0	0.36	1	251342	08/20/20	08/20/20	LYZ
Bromodichloromethane	ND		ug/L	0.50	0.31	1	251342	08/20/20	08/20/20	LYZ
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.23	1	251342	08/20/20	08/20/20	LYZ
1,1,2-Trichloroethane	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
Tetrachloroethene	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
Dibromochloromethane	ND		ug/L	0.50	0.21	1	251342	08/20/20	08/20/20	LYZ
Ethylbenzene	ND		ug/L	0.50	0.21	1	251342	08/20/20	08/20/20	LYZ
m,p-Xylenes	ND		ug/L	1.0	0.45	1	251342	08/20/20	08/20/20	LYZ
Styrene	ND		ug/L	0.50	0.22	1	251342	08/20/20	08/20/20	LYZ
Bromoform	ND		ug/L	0.50	0.20	1	251342	08/20/20	08/20/20	LYZ
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
1,3-Dichlorobenzene	ND		ug/L	0.50	0.34	1	251342	08/20/20	08/20/20	LYZ
1,4-Dichlorobenzene	ND		ug/L	0.50	0.43	1	251342	08/20/20	08/20/20	LYZ
1,2-Dichlorobenzene	ND		ug/L	0.50	0.26	1	251342	08/20/20	08/20/20	LYZ
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
2-Chloroethylvinylether	ND		ug/L	5.0	0.23	1	251342	08/20/20	08/20/20	LYZ
Surrogates				**Limits**						
Bromofluorobenzene	98%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ
1,2-Dichloroethane-d4	94%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ
Dibromofluoromethane	102%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ
Toluene-d8	106%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432391

432391-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 2150B										
Odor	ND	H	TON	1.0		1	251310	08/19/20 14:00	08/19/20 14:00	SGC
Method: SM 2330B										
CCPP	**-1.1**		SU			1	251807	08/27/20	08/27/20	SLL
Method: SM 4500-CL-G										
Chlorine, Total Residual	ND	H	mg/L	0.10	0.016	1	251389	08/19/20 15:16	08/19/20 15:16	WWC
Method: SM 4500-CN-E Prep Method: METHOD										
Cyanide	ND		mg/L	0.010	0.0022	1	251800	08/27/20	08/27/20	ATP
Method: SM 4500-F-C										
Fluoride	**0.84**		mg/L	0.10	0.0030	1	251545	08/24/20	08/24/20	NLP
Method: SM 4500-H+ B										
pH	**6.67**	H	SU			1	251235	08/19/20 11:00	08/19/20 11:00	SGC
Temperature	**9.80**	H	deg C	1.00		1	251235	08/19/20 11:00	08/19/20 11:00	SGC
Method: SM 4500-NH3-G										
Ammonia-N	**10**		mg/L	0.50	0.050	5	251636	08/25/20	08/27/20	ATP
Nitrogen, Total Kjeldahl	**13**		mg/L	2.0	0.15	5	251394	08/20/20	08/20/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.64**		mg/L	0.020	0.010	1	251402	08/20/20	08/20/20	SGC
Method: SM 5310B										
Total Organic Carbon	**7.5**		mg/L	1.0	0.091	1	251282	08/18/20	08/19/20	ATP
Method: SM 9223Bb										
Fecal Coliform	**1.0**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Coliform, Total	**1,000**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Method: SM2120B										
Color	**55**		ColorUnits	5		1	251311	08/19/20 14:00	08/19/20 14:00	SGC
Method: SM2130B										
Turbidity	**60**		NTU	0.10	0.07	1	251308	08/19/20 14:00	08/19/20 14:00	SGC
Method: SM2320B Prep Method: METHOD										
Bicarbonate	**210**		mg/L	13		2.5	251385	08/20/20	08/20/20	WWC
Carbonate	ND		mg/L	13		2.5	251385	08/20/20	08/20/20	WWC
Hydroxide	ND		mg/L	13		2.5	251385	08/20/20	08/20/20	WWC
Alkalinity, Total as CaCO3	**170**		mg/L	13		2.5	251385	08/20/20	08/20/20	WWC
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**470**		mg/L	20		2	251390	08/19/20	08/20/20	WWC
Method: SM2540D Prep Method: METHOD										
Total Suspended Solids	**68**		mg/L	1.3		2.5	251461	08/20/20	08/20/20	NLP
Method: SM5540C										
Surfactants (MBAS)	**1.8**		mg/L	0.10	0.068	2.5	251372	08/19/20 11:00	08/19/20 19:14	NLP

Results for any subcontracted analyses are not included in this section.

Analysis Results for 432391

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432391

Sample ID: MCWP-MW04S	Lab ID: 432391-004	Collected: 08/18/20 12:30
	Matrix: Water	

432391-004 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: ALCH 4022 Prep Method: EPA 200.8										
Chromium Trivalent	ND		ug/L	1.0		1	251263	08/19/20	09/23/20	TTR
Method: EPA 200.7 Prep Method: EPA 200.7										
Boron	**1.8**		mg/L	0.050	0.012	1	251222	08/19/20	08/19/20	SBW
Calcium	**450**		mg/L	0.10	0.033	1	251222	08/19/20	08/19/20	SBW
Iron	**0.46**		mg/L	0.020	0.016	1	251222	08/19/20	08/19/20	SBW
Magnesium	**240**		mg/L	0.10	0.048	1	251222	08/19/20	08/19/20	SBW
Manganese	**0.31**		mg/L	0.010	0.0030	1	251222	08/19/20	08/19/20	SBW
Potassium	**2.2**		mg/L	0.50	0.18	1	251222	08/19/20	08/19/20	SBW
Sodium	**800**		mg/L	0.50	0.061	1	251222	08/19/20	08/19/20	SBW
Method: EPA 200.8 Prep Method: EPA 200.8										
Aluminum	**110**		ug/L	10	2.2	1	251263	08/19/20	08/19/20	JCP
Antimony	**1.0**	J	ug/L	2.5	0.30	5	251263	08/19/20	08/22/20	JCP
Arsenic	**15**		ug/L	10	1.9	5	251263	08/19/20	08/22/20	JCP
Barium	**17**	J	ug/L	25	1.4	5	251263	08/19/20	08/22/20	JCP
Beryllium	ND		ug/L	0.50	0.035	1	251263	08/19/20	08/19/20	JCP
Cadmium	**1.0**		ug/L	1.0	0.17	5	251263	08/19/20	08/22/20	JCP
Chromium	ND		ug/L	1.0	0.30	1	251263	08/19/20	08/19/20	JCP
Copper	**15**		ug/L	2.5	0.25	5	251263	08/19/20	08/22/20	JCP
Lead	**0.29**	J	ug/L	2.5	0.22	5	251263	08/19/20	08/22/20	JCP
Nickel	**28**		ug/L	5.0	1.0	5	251263	08/19/20	08/22/20	JCP
Selenium	**140**		ug/L	10	1.4	5	251263	08/19/20	08/22/20	JCP
Silver	ND		ug/L	1.0	0.13	5	251263	08/19/20	08/24/20	JCP
Thallium	ND		ug/L	5.0	1.2	5	251263	08/19/20	08/22/20	JCP
Zinc	ND		ug/L	50	21	5	251263	08/19/20	08/22/20	JCP
Method: EPA 245.1 Prep Method: METHOD										
Mercury	ND		ug/L	0.20	0.094	1	251315	08/19/20	08/19/20	JCP
Method: EPA 300.0 Prep Method: METHOD										
Chloride	**640**		mg/L	10	1.4	10	251195	08/19/20 11:30	08/20/20 23:59	RKV
Nitrogen, Nitrite	ND		mg/L	1.0	0.18	10	251195	08/20/20 02:39	08/20/20 02:39	RKV
Nitrogen, Nitrate	**1.0**		mg/L	1.0	0.45	10	251195	08/20/20 02:39	08/20/20 02:39	RKV
Sulfate	**3,300**		mg/L	50	13	50	251705	08/26/20 12:00	08/26/20 23:59	RKV
Nitrogen, Nitrate/Nitrite	**1.0**		mg/L	1.0		10	251195	08/20/20 02:39	08/20/20 02:39	RKV
Method: EPA 314.0 Prep Method: METHOD										
Perchlorate	ND		ug/L	10	2.7	5	251376	08/20/20	08/20/20	RKV

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432391

432391-004 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 524.2 Prep Method: METHOD										
1,1-Dichloroethene	ND		ug/L	0.50	0.30	1	251342	08/20/20	08/20/20	LYZ
Benzene	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
Trichloroethene	ND		ug/L	0.50	0.39	1	251342	08/20/20	08/20/20	LYZ
Toluene	ND		ug/L	0.50	0.24	1	251342	08/20/20	08/20/20	LYZ
Chlorobenzene	ND		ug/L	0.50	0.19	1	251342	08/20/20	08/20/20	LYZ
Chloromethane	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
Vinyl Chloride	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
Bromomethane	ND		ug/L	0.68	0.68	1	251342	08/20/20	08/20/20	LYZ
Chloroethane	ND		ug/L	0.50	0.45	1	251342	08/20/20	08/20/20	LYZ
Trichlorofluoromethane	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
Freon 113	ND		ug/L	0.50	0.35	1	251342	08/20/20	08/20/20	LYZ
Methylene Chloride	**2.3**	B	ug/L	0.50	0.16	1	251342	08/20/20	08/20/20	LYZ
MTBE	ND		ug/L	0.50	0.19	1	251342	08/20/20	08/20/20	LYZ
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.33	1	251342	08/20/20	08/20/20	LYZ
1,1-Dichloroethane	ND		ug/L	0.50	0.32	1	251342	08/20/20	08/20/20	LYZ
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
Chloroform	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
1,1,1-Trichloroethane	ND		ug/L	0.50	0.38	1	251342	08/20/20	08/20/20	LYZ
Carbon Tetrachloride	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
1,2-Dichloroethane	ND		ug/L	0.50	0.20	1	251342	08/20/20	08/20/20	LYZ
1,2-Dichloropropane	ND		ug/L	1.0	0.36	1	251342	08/20/20	08/20/20	LYZ
Bromodichloromethane	ND		ug/L	0.50	0.31	1	251342	08/20/20	08/20/20	LYZ
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.23	1	251342	08/20/20	08/20/20	LYZ
1,1,2-Trichloroethane	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
Tetrachloroethene	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
Dibromochloromethane	ND		ug/L	0.50	0.21	1	251342	08/20/20	08/20/20	LYZ
Ethylbenzene	ND		ug/L	0.50	0.21	1	251342	08/20/20	08/20/20	LYZ
m,p-Xylenes	ND		ug/L	1.0	0.45	1	251342	08/20/20	08/20/20	LYZ
Styrene	ND		ug/L	0.50	0.22	1	251342	08/20/20	08/20/20	LYZ
Bromoform	ND		ug/L	0.50	0.20	1	251342	08/20/20	08/20/20	LYZ
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
1,3-Dichlorobenzene	ND		ug/L	0.50	0.34	1	251342	08/20/20	08/20/20	LYZ
1,4-Dichlorobenzene	ND		ug/L	0.50	0.43	1	251342	08/20/20	08/20/20	LYZ
1,2-Dichlorobenzene	ND		ug/L	0.50	0.26	1	251342	08/20/20	08/20/20	LYZ
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
2-Chloroethylvinylether	ND		ug/L	5.0	0.23	1	251342	08/20/20	08/20/20	LYZ
Surrogates				**Limits**						
Bromofluorobenzene	96%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ
1,2-Dichloroethane-d4	97%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ
Dibromofluoromethane	101%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ
Toluene-d8	100%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ
Method: SM 2150B										
Odor	ND	H	TON	50		50	251310	08/19/20 14:00	08/19/20 14:00	SGC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432391

432391-004 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 2330B										
CCPP	**1.2**		SU			1	251807	08/27/20	08/27/20	SLL
Method: SM 4500-CL-G										
Chlorine, Total Residual	ND	H	mg/L	0.10	0.016	1	251389	08/19/20 15:16	08/19/20 15:16	WWC
Method: SM 4500-CN-E Prep Method: METHOD										
Cyanide	ND		mg/L	0.010	0.0022	1	251800	08/27/20	08/27/20	ATP
Method: SM 4500-F-C										
Fluoride	**0.78**		mg/L	0.10	0.0030	1	251545	08/24/20	08/24/20	NLP
Method: SM 4500-H+ B										
pH	**7.53**	H	SU			1	251235	08/19/20 11:00	08/19/20 11:00	SGC
Temperature	**12.30**	H	deg C	1.00		1	251235	08/19/20 11:00	08/19/20 11:00	SGC
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	251636	08/25/20	08/27/20	ATP
Nitrogen, Total Kjeldahl	**1.3**		mg/L	0.40	0.030	1	251394	08/20/20	08/20/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.27**		mg/L	0.020	0.010	1	251402	08/20/20	08/20/20	SGC
Method: SM 5310B										
Total Organic Carbon	**15**		mg/L	1.0	0.091	1	251282	08/18/20	08/19/20	ATP
Method: SM 9223Bb										
Fecal Coliform	<1.0		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Coliform, Total	**42**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Method: SM2120B										
Color	**45**		ColorUnits	5		1	251311	08/19/20 14:00	08/19/20 14:00	SGC
Method: SM2130B										
Turbidity	**20**		NTU	0.10	0.07	1	251308	08/19/20 14:00	08/19/20 14:00	SGC
Method: SM2320B Prep Method: METHOD										
Bicarbonate	**770**		mg/L	13		2.5	251385	08/20/20	08/20/20	WWC
Carbonate	ND		mg/L	13		2.5	251385	08/20/20	08/20/20	WWC
Hydroxide	ND		mg/L	13		2.5	251385	08/20/20	08/20/20	WWC
Alkalinity, Total as CaCO3	**630**		mg/L	13		2.5	251385	08/20/20	08/20/20	WWC
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**5,200**		mg/L	20		2	251390	08/19/20	08/20/20	WWC
Method: SM2540D Prep Method: METHOD										
Total Suspended Solids	**2.2**		mg/L	0.6		1.1	251461	08/20/20	08/20/20	NLP
Method: SM5540C										
Surfactants (MBAS)	**0.085**		mg/L	0.040	0.027	1	251372	08/19/20 11:00	08/19/20 19:14	NLP

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432391

Sample ID: LAMW-55	Lab ID: 432391-005	Collected: 08/18/20 09:00
	Matrix: Water	

432391-005 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	0.18	10	251348	08/20/20 03:04	08/20/20 03:04	RKV
Nitrogen, Nitrate	**8.8**		mg/L	1.0	0.45	10	251348	08/20/20 03:04	08/20/20 03:04	RKV
Nitrogen, Nitrate/Nitrite	**8.8**		mg/L	1.0		10	251348	08/20/20 03:04	08/20/20 03:04	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.18**		mg/L			1	251809	08/27/20	08/27/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	251636	08/25/20	08/27/20	ATP
Nitrogen, Total Kjeldahl	**0.18**	J	mg/L	0.40	0.030	1	251394	08/20/20	08/20/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**1.2**		mg/L	0.040	0.020	2	251402	08/20/20	08/20/20	SGC
Method: SM 9223Bb										
Fecal Coliform	<1.0		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Coliform, Total	**>2,400**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**630**		mg/L	20		2	251390	08/19/20	08/20/20	WWC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432391

Sample ID: SMBRP-11	Lab ID: 432391-006	Collected: 08/18/20 10:45
	Matrix: Water	

432391-006 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	0.18	10	251348	08/20/20 04:17	08/20/20 04:17	RKV
Nitrogen, Nitrate	**2.2**		mg/L	1.0	0.45	10	251348	08/20/20 04:17	08/20/20 04:17	RKV
Nitrogen, Nitrate/Nitrite	**2.2**		mg/L	1.0		10	251348	08/20/20 04:17	08/20/20 04:17	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.30**		mg/L			1	251809	08/27/20	08/27/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	**1.0**		mg/L	0.10	0.010	1	251636	08/25/20	08/27/20	ATP
Nitrogen, Total Kjeldahl	**1.3**		mg/L	0.40	0.030	1	251394	08/20/20	08/20/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	ND		mg/L	0.020	0.010	1	251402	08/20/20	08/20/20	SGC
Method: SM 9223Bb										
Fecal Coliform	<1.0		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Coliform, Total	**220**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**1,600**		mg/L	20		2	251390	08/19/20	08/20/20	WWC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432391

Sample ID: MBCMW-9	Lab ID: 432391-007	Collected: 08/18/20 11:15
	Matrix: Water	

432391-007 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	0.18	10	251348	08/20/20 04:41	08/20/20 04:41	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.45	10	251348	08/20/20 04:41	08/20/20 04:41	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	251348	08/20/20 04:41	08/20/20 04:41	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**1.4**		mg/L			1	251809	08/27/20	08/27/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	251636	08/25/20	08/27/20	ATP
Nitrogen, Total Kjeldahl	**1.4**		mg/L	0.40	0.030	1	251394	08/20/20	08/20/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.059**		mg/L	0.020	0.010	1	251402	08/20/20	08/20/20	SGC
Method: SM 9223Bb										
Fecal Coliform	**140**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Coliform, Total	**140**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**5,900**		mg/L	20		2	251390	08/19/20	08/20/20	WWC

< Value is less than indicated concentration
> Value exceeds indicated concentration
B Contamination found in associated Method Blank
H Holding time was exceeded
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:** QC881788	**Batch:** 251195
Matrix: Drinking Water	**Method:** EPA 300.0	**Prep Method:** METHOD

QC881788 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Chloride	ND		mg/L	1.0	0.14	08/19/20 11:30	08/19/20 23:59
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	08/19/20 11:55	08/19/20 11:55
Nitrogen, Nitrate	ND		mg/L	0.10	0.05	08/19/20 11:55	08/19/20 11:55
Sulfate	ND		mg/L	1.0	0.25	08/19/20 11:30	08/19/20 23:59
Nitrogen, Nitrate/Nitrite	ND		mg/L	0.10		08/19/20 11:55	08/19/20 11:55

Type: Lab Control Sample	**Lab ID:** QC881789	**Batch:** 251195
Matrix: Drinking Water	**Method:** EPA 300.0	**Prep Method:** METHOD

QC881789 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chloride	102.6	100.0	mg/L	103%		90-110
Nitrogen, Nitrite	9.550	9.150	mg/L	104%		90-110
Nitrogen, Nitrate	9.472	9.030	mg/L	105%		90-110
Sulfate	50.62	50.00	mg/L	101%		90-110

Type: Matrix Spike	**Lab ID:** QC881792	**Batch:** 251195
Matrix (Source ID): Water (432451-001)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC881792 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Chloride	234.7	157.5	100.0	mg/L	77%	*	80-120	10
Nitrogen, Nitrite	9.576	0.2060	9.150	mg/L	102%		80-120	1
Nitrogen, Nitrate	13.02	4.070	9.030	mg/L	99%		80-120	1
Sulfate	54.19	4.947	50.00	mg/L	98%		80-120	1

Type: Matrix Spike Duplicate	**Lab ID:** QC881793	**Batch:** 251195
Matrix (Source ID): Water (432451-001)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC881793 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Chloride	234.3	157.5	100.0	mg/L	77%	*	80-120	0	20	10
Nitrogen, Nitrite	9.580	0.2060	9.150	mg/L	102%		80-120	0	20	1
Nitrogen, Nitrate	13.02	4.070	9.030	mg/L	99%		80-120	0	20	1
Sulfate	54.34	4.947	50.00	mg/L	99%		80-120	0	20	1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID: QC881843**	**Batch: 251222**
Matrix: Water	**Method: EPA 200.7**	**Prep Method: EPA 200.7**

QC881843 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Boron	ND		mg/L	0.050	0.012	08/19/20	08/19/20
Calcium	0.048	J	mg/L	0.10	0.033	08/19/20	08/19/20
Iron	ND		mg/L	0.020	0.016	08/19/20	08/19/20
Magnesium	ND		mg/L	0.10	0.048	08/19/20	08/19/20
Manganese	ND		mg/L	0.010	0.0030	08/19/20	08/19/20
Potassium	ND		mg/L	0.50	0.18	08/19/20	08/19/20
Sodium	ND		mg/L	0.50	0.061	08/19/20	08/19/20

Type: Lab Control Sample	**Lab ID: QC881844**	**Batch: 251222**
Matrix: Water	**Method: EPA 200.7**	**Prep Method: EPA 200.7**

QC881844 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Boron	2.040	2.000	mg/L	102%		85-115
Calcium	21.64	20.00	mg/L	108%		85-115
Iron	2.067	2.000	mg/L	103%		85-115
Magnesium	20.03	20.00	mg/L	100%		85-115
Manganese	2.069	2.000	mg/L	103%		85-115
Potassium	39.93	38.00	mg/L	105%		85-115
Sodium	21.16	20.00	mg/L	106%		85-115

Type: Sample Spike	**Lab ID: QC881845**	**Batch: 251222**
Matrix (Source ID): Water (432364-001)	**Method: EPA 200.7**	**Prep Method: EPA 200.7**

QC881845 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Boron	2.075	0.9955	1.000	mg/L	108%		75-125	1
Calcium	82.70	59.85	20.00	mg/L	114%		75-125	1
Iron	1.276	0.2579	1.000	mg/L	102%		75-125	1
Magnesium	20.99	1.101	20.00	mg/L	99%		75-125	1
Manganese	1.037	0.01451	1.000	mg/L	102%		75-125	1
Potassium	40.40	8.550	29.00	mg/L	110%		75-125	1
Sodium	720.7	708.5	20.00	mg/L	61%	NM	75-125	1

ENTHALPY ANALYTICAL

Batch QC

Type:	Sample Spike	Lab ID:	QC881846	Batch:	251222
Matrix (Source ID):	Water (432370-001)	Method:	EPA 200.7	Prep Method:	EPA 200.7

QC881846 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Boron	1.385	0.3904	1.000	mg/L	99%		75-125	1
Calcium	71.46	50.53	20.00	mg/L	105%		75-125	1
Iron	2.565	1.541	1.000	mg/L	102%		75-125	1
Magnesium	34.20	14.22	20.00	mg/L	100%		75-125	1
Manganese	1.076	0.02921	1.000	mg/L	105%		75-125	1
Potassium	38.64	8.119	29.00	mg/L	105%		75-125	1
Sodium	150.3	132.8	20.00	mg/L	88%	NM	75-125	1

Type:	Sample Duplicate	Lab ID:	QC881866	Batch:	251235
Matrix (Source ID):	Sea Water (432379-001)	Method:	SM 4500-H+ B		

QC881866 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
pH	7.630	7.600	SU		0	20	1
Temperature	12.70	12.80	deg C		1	20	1

Type:	Blank	Lab ID:	QC881939	Batch:	251263
Matrix:	Water				

QC881939 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Method: ALCH 4022 Prep Method: EPA 200.8							
Chromium Trivalent	ND		ug/L	1.0		08/19/20	09/23/20
Method: EPA 200.8 Prep Method: EPA 200.8							
Aluminum	ND		ug/L	10	2.2	08/19/20	08/19/20
Antimony	ND		ug/L	0.50	0.028	08/19/20	08/19/20
Arsenic	ND		ug/L	2.0	0.38	08/19/20	08/19/20
Barium	ND		ug/L	5.0	0.069	08/19/20	08/19/20
Beryllium	ND		ug/L	0.50	0.035	08/19/20	08/19/20
Cadmium	ND		ug/L	0.20	0.033	08/19/20	08/22/20
Chromium	ND		ug/L	1.0	0.30	08/19/20	08/19/20
Copper	ND		ug/L	0.50	0.023	08/19/20	08/19/20
Lead	ND		ug/L	0.50	0.027	08/19/20	08/19/20
Nickel	ND		ug/L	1.0	0.20	08/19/20	08/19/20
Selenium	ND		ug/L	2.0	0.24	08/19/20	08/19/20
Silver	ND		ug/L	0.20	0.025	08/19/20	08/24/20
Thallium	ND		ug/L	1.0	0.23	08/19/20	08/22/20
Zinc	ND		ug/L	10	4.2	08/19/20	08/22/20

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	**Lab ID:** QC881940	**Batch:** 251263
Matrix: Water	**Method:** EPA 200.8	**Prep Method:** EPA 200.8

QC881940 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Aluminum	44.96	50.00	ug/L	90%		85-115
Antimony	49.51	50.00	ug/L	99%		85-115
Arsenic	47.59	50.00	ug/L	95%		85-115
Barium	46.37	50.00	ug/L	93%		85-115
Beryllium	47.10	50.00	ug/L	94%		85-115
Cadmium	49.09	50.00	ug/L	98%		85-115
Chromium	49.46	50.00	ug/L	99%		85-115
Copper	49.61	50.00	ug/L	99%		85-115
Lead	49.83	50.00	ug/L	100%		85-115
Nickel	51.20	50.00	ug/L	102%		85-115
Selenium	49.13	50.00	ug/L	98%		85-115
Silver	49.20	50.00	ug/L	98%		85-115
Thallium	49.85	50.00	ug/L	100%		85-115
Zinc	47.86	50.00	ug/L	96%		85-115

Type: Sample Spike	**Lab ID:** QC881942	**Batch:** 251263
Matrix (Source ID): Water (432381-001)	**Method:** EPA 200.8	**Prep Method:** EPA 200.8

QC881942 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Aluminum	94.72	35.72	50.00	ug/L	118%		70-130	5
Antimony	44.03	1.205	50.00	ug/L	86%		70-130	5
Arsenic	45.41	ND	50.00	ug/L	91%		70-130	5
Barium	49.39	11.74	50.00	ug/L	75%		70-130	5
Beryllium	50.11	ND	50.00	ug/L	100%		70-130	5
Cadmium	50.81	ND	50.00	ug/L	102%		70-130	5
Chromium	9.740	ND	50.00	ug/L	19%	*	70-130	5
Copper	44.63	4.830	50.00	ug/L	80%		70-130	5
Lead	37.84	ND	50.00	ug/L	76%		70-130	5
Nickel	51.86	ND	50.00	ug/L	104%		70-130	5
Selenium	18.49	ND	50.00	ug/L	37%	*	70-130	5
Silver	36.58	ND	50.00	ug/L	73%		70-130	5
Thallium	38.52	ND	50.00	ug/L	77%		70-130	5
Zinc	64.27	ND	50.00	ug/L	129%		70-130	5

Type: Blank	**Lab ID:** QC881972	**Batch:** 251282
Matrix: Water	**Method:** SM 5310B	

QC881972 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Organic Carbon	ND		mg/L	1.0	0.091	08/18/20	08/18/20

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample **Lab ID:** QC881973 **Batch:** 251282
Matrix: Water **Method:** SM 5310B

QC881973 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	9.146	10.00	mg/L	91%		80-120

Type: Matrix Spike **Lab ID:** QC881974 **Batch:** 251282
Matrix (Source ID): Water (432391-001) **Method:** SM 5310B

QC881974 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Organic Carbon	40.62	ND	40.00	mg/L	102%		80-120	4

Type: Matrix Spike Duplicate **Lab ID:** QC881975 **Batch:** 251282
Matrix (Source ID): Water (432391-001) **Method:** SM 5310B

QC881975 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	44.05	ND	40.00	mg/L	110%		80-120	8	20	4

Type: Sample Duplicate **Lab ID:** QC881986 **Batch:** 251308
Matrix (Source ID): Water (432381-001) **Method:** SM2130B

QC881986 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Turbidity	1.300	1.320	NTU		2	20	1

Type: Sample Duplicate **Lab ID:** QC881988 **Batch:** 251310
Matrix (Source ID): Water (432391-004) **Method:** SM 2150B

QC881988 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Odor	ND	ND	TON			20	1

Type: Sample Duplicate **Lab ID:** QC881989 **Batch:** 251311
Matrix (Source ID): Water (432391-004) **Method:** SM2120B

QC881989 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Color	45.00	45.00	ColorUnits		0	20	1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC881997	**Batch:** 251315
Matrix: Water	**Method:** EPA 245.1	**Prep Method:** METHOD

QC881997 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Mercury	ND		ug/L	0.20	0.094	08/19/20	08/19/20

Type: Lab Control Sample	**Lab ID:** QC881998	**Batch:** 251315
Matrix: Water	**Method:** EPA 245.1	**Prep Method:** METHOD

QC881998 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Mercury	5.642	5.000	ug/L	113%	b	80-120

Type: Matrix Spike	**Lab ID:** QC881999	**Batch:** 251315
Matrix (Source ID): Water (432217-001)	**Method:** EPA 245.1	**Prep Method:** METHOD

QC881999 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	8.268	2.704	5.000	ug/L	111%	b	75-125	1

Type: Matrix Spike Duplicate	**Lab ID:** QC882000	**Batch:** 251315
Matrix (Source ID): Water (432217-001)	**Method:** EPA 245.1	**Prep Method:** METHOD

QC882000 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	8.320	2.704	5.000	ug/L	112%	b	75-125	1	20	1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC882070		**Batch:** 251342
Matrix: Water	**Method:** EPA 524.2		**Prep Method:** METHOD

QC882070 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Acrolein	ND		ug/L	5.0	3.3	08/20/20	08/20/20
Acrylonitrile	ND		ug/L	2.0	0.8	08/20/20	08/20/20
1,1-Dichloroethene	ND		ug/L	0.50	0.30	08/20/20	08/20/20
Benzene	ND		ug/L	0.50	0.18	08/20/20	08/20/20
Trichloroethene	ND		ug/L	0.50	0.39	08/20/20	08/20/20
Toluene	ND		ug/L	0.50	0.24	08/20/20	08/20/20
Chlorobenzene	ND		ug/L	0.50	0.19	08/20/20	08/20/20
Chloromethane	ND		ug/L	0.50	0.27	08/20/20	08/20/20
Vinyl Chloride	ND		ug/L	0.50	0.18	08/20/20	08/20/20
Bromomethane	ND		ug/L	0.68	0.68	08/20/20	08/20/20
Chloroethane	ND		ug/L	0.50	0.45	08/20/20	08/20/20
Trichlorofluoromethane	ND		ug/L	0.50	0.25	08/20/20	08/20/20
Freon 113	ND		ug/L	0.50	0.35	08/20/20	08/20/20
Methylene Chloride	1.7		ug/L	0.50	0.16	08/20/20	08/20/20
MTBE	ND		ug/L	0.50	0.19	08/20/20	08/20/20
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.33	08/20/20	08/20/20
1,1-Dichloroethane	ND		ug/L	0.50	0.32	08/20/20	08/20/20
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.27	08/20/20	08/20/20
Chloroform	ND		ug/L	0.50	0.18	08/20/20	08/20/20
1,1,1-Trichloroethane	ND		ug/L	0.50	0.38	08/20/20	08/20/20
Carbon Tetrachloride	ND		ug/L	0.50	0.27	08/20/20	08/20/20
1,2-Dichloroethane	ND		ug/L	0.50	0.20	08/20/20	08/20/20
1,2-Dichloropropane	ND		ug/L	1.0	0.36	08/20/20	08/20/20
Bromodichloromethane	ND		ug/L	0.50	0.31	08/20/20	08/20/20
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.25	08/20/20	08/20/20
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.23	08/20/20	08/20/20
1,1,2-Trichloroethane	ND		ug/L	0.50	0.25	08/20/20	08/20/20
Tetrachloroethene	ND		ug/L	0.50	0.18	08/20/20	08/20/20
Dibromochloromethane	ND		ug/L	0.50	0.21	08/20/20	08/20/20
Ethylbenzene	ND		ug/L	0.50	0.21	08/20/20	08/20/20
m,p-Xylenes	ND		ug/L	1.0	0.45	08/20/20	08/20/20
Styrene	ND		ug/L	0.50	0.22	08/20/20	08/20/20
Bromoform	ND		ug/L	0.50	0.20	08/20/20	08/20/20
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.25	08/20/20	08/20/20
1,3-Dichlorobenzene	ND		ug/L	0.50	0.34	08/20/20	08/20/20
1,4-Dichlorobenzene	ND		ug/L	0.50	0.43	08/20/20	08/20/20
1,2-Dichlorobenzene	ND		ug/L	0.50	0.26	08/20/20	08/20/20
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.27	08/20/20	08/20/20
2-Chloroethylvinylether	ND		ug/L	5.0	0.23	08/20/20	08/20/20
Surrogates				**Limits**			
Bromofluorobenzene	98%		%REC	70-140		08/20/20	08/20/20
1,2-Dichloroethane-d4	94%		%REC	70-140		08/20/20	08/20/20

ENTHALPY ANALYTICAL

Batch QC

QC882070 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Dibromofluoromethane	102%		%REC	70-140		08/20/20	08/20/20
Toluene-d8	101%		%REC	70-140		08/20/20	08/20/20

Type: Lab Control Sample **Lab ID:** QC882071 **Batch:** 251342
Matrix: Water **Method:** EPA 524.2 **Prep Method:** METHOD

QC882071 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1-Dichloroethene	41.40	50.00	ug/L	83%		70-135
Benzene	38.38	50.00	ug/L	77%		70-130
Trichloroethene	45.03	50.00	ug/L	90%		70-130
Toluene	43.92	50.00	ug/L	88%		70-130
Chlorobenzene	45.67	50.00	ug/L	91%		70-130
MTBE	36.43	50.00	ug/L	73%		70-130
Surrogates						
Bromofluorobenzene	47.23	50.00	ug/L	94%		70-140
1,2-Dichloroethane-d4	46.98	50.00	ug/L	94%		70-140
Dibromofluoromethane	51.60	50.00	ug/L	103%		70-140
Toluene-d8	53.22	50.00	ug/L	106%		70-140

Type: Lab Control Sample Duplicate **Lab ID:** QC882072 **Batch:** 251342
Matrix: Water **Method:** EPA 524.2 **Prep Method:** METHOD

QC882072 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
1,1-Dichloroethene	42.62	50.00	ug/L	85%		70-135	3	30
Benzene	39.97	50.00	ug/L	80%		70-130	4	30
Trichloroethene	45.13	50.00	ug/L	90%		70-130	0	30
Toluene	45.19	50.00	ug/L	90%		70-130	3	30
Chlorobenzene	47.85	50.00	ug/L	96%		70-130	5	30
MTBE	43.17	50.00	ug/L	86%		70-130	17	30
Surrogates								
Bromofluorobenzene	47.72	50.00	ug/L	95%		70-140		
1,2-Dichloroethane-d4	47.84	50.00	ug/L	96%		70-140		
Dibromofluoromethane	50.77	50.00	ug/L	102%		70-140		
Toluene-d8	52.80	50.00	ug/L	106%		70-140		

Type: Blank **Lab ID:** QC882204 **Batch:** 251348
Matrix: Water **Method:** EPA 300.0 **Prep Method:** METHOD

QC882204 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	08/19/20 22:59	08/19/20 22:59
Nitrogen, Nitrate	ND		mg/L	0.10	0.05	08/19/20 22:59	08/19/20 22:59
Nitrogen, Nitrate/Nitrite	ND		mg/L	0.10		08/19/20 22:59	08/19/20 22:59

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	**Lab ID:** QC882205	**Batch:** 251348
Matrix: Water	**Method:** EPA 300.0	**Prep Method:** METHOD

QC882205 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Nitrite	9.626	9.150	mg/L	105%		90-110
Nitrogen, Nitrate	9.561	9.030	mg/L	106%		90-110

Type: Matrix Spike	**Lab ID:** QC882206	**Batch:** 251348
Matrix (Source ID): Water (432451-002)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC882206 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Nitrite	9.441	ND	9.150	mg/L	103%		80-120	1
Nitrogen, Nitrate	9.146	0.07000	9.030	mg/L	101%		80-120	1

Type: Matrix Spike Duplicate	**Lab ID:** QC882207	**Batch:** 251348
Matrix (Source ID): Water (432451-002)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC882207 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Nitrite	9.522	ND	9.150	mg/L	104%		80-120	1	20	1
Nitrogen, Nitrate	9.279	0.07000	9.030	mg/L	102%		80-120	1	20	1

Type: Blank	**Lab ID:** QC882132	**Batch:** 251372
Matrix: Water	**Method:** SM5540C	

QC882132 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Surfactants (MBAS)	ND		mg/L	0.040	0.027	08/19/20 11:00	08/19/20 19:14

Type: Lab Control Sample	**Lab ID:** QC882133	**Batch:** 251372
Matrix: Water	**Method:** SM5540C	

QC882133 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Surfactants (MBAS)	0.9650	1.000	mg/L	97%		90-110

Type: Matrix Spike	**Lab ID:** QC882134	**Batch:** 251372
Matrix (Source ID): Water (432386-001)	**Method:** SM5540C	

QC882134 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Surfactants (MBAS)	0.9610	ND	1.000	mg/L	96%		80-120	1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC882135**
Matrix (Source ID):	**Water (432386-001)**	**Method:**	**SM5540C**
		Batch:	**251372**

QC882135 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Surfactants (MBAS)	1.006	ND	1.000	mg/L	101%		80-120	5	20	1

Type:	**Blank**	**Lab ID:**	**QC882143**
Matrix:	**Drinking Water**	**Method:**	**EPA 314.0**
		Batch:	**251376**
		Prep Method:	**METHOD**

QC882143 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Perchlorate	ND		ug/L	2.0	0.53	08/20/20	08/20/20

Type:	**Lab Control Sample**	**Lab ID:**	**QC882144**
Matrix:	**Drinking Water**	**Method:**	**EPA 314.0**
		Batch:	**251376**
		Prep Method:	**METHOD**

QC882144 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Perchlorate	43.91	50.00	ug/L	88%		85-115

Type:	**Matrix Spike**	**Lab ID:**	**QC882145**
Matrix (Source ID):	**Drinking Water (432439-001)**	**Method:**	**EPA 314.0**
		Batch:	**251376**
		Prep Method:	**METHOD**

QC882145 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Perchlorate	48.78	1.165	50.00	ug/L	95%		80-120	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC882146**
Matrix (Source ID):	**Drinking Water (432439-001)**	**Method:**	**EPA 314.0**
		Batch:	**251376**
		Prep Method:	**METHOD**

QC882146 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Perchlorate	48.30	1.165	50.00	ug/L	94%		80-120	1	15	1

Type:	**Blank**	**Lab ID:**	**QC882183**
Matrix:	**Water**	**Method:**	**SM2320B**
		Batch:	**251385**
		Prep Method:	**METHOD**

QC882183 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Bicarbonate	ND		mg/L	5.0		08/20/20	08/20/20
Carbonate	ND		mg/L	5.0		08/20/20	08/20/20
Hydroxide	ND		mg/L	5.0		08/20/20	08/20/20
Alkalinity, Total as CaCO3	ND		mg/L	5.0		08/20/20	08/20/20

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	**Lab ID:** QC882184	**Batch:** 251385
Matrix: Water	**Method:** SM2320B	**Prep Method:** METHOD

QC882184 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Alkalinity, Total as CaCO3	94.72	100.0	mg/L	95%		90-110

Type: Sample Duplicate	**Lab ID:** QC882185	**Batch:** 251385
Matrix (Source ID): Water (432173-009)	**Method:** SM2320B	**Prep Method:** METHOD

QC882185 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Bicarbonate	3.290	2.940	mg/L		11	20	0.5
Carbonate	ND	ND	mg/L			20	0.5
Hydroxide	ND	ND	mg/L			20	0.5
Alkalinity, Total as CaCO3	2.700	ND	mg/L		11	20	0.5

Type: Blank	**Lab ID:** QC882192	**Batch:** 251389
Matrix: Water	**Method:** SM 4500-CL-G	

QC882192 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Chlorine, Total Residual	ND		mg/L	0.10	0.016	08/19/20 15:16	08/19/20 15:16

Type: Lab Control Sample	**Lab ID:** QC882193	**Batch:** 251389
Matrix: Water	**Method:** SM 4500-CL-G	

QC882193 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chlorine, Total Residual	0.9680	1.000	mg/L	97%		80-120

Type: Sample Duplicate	**Lab ID:** QC882194	**Batch:** 251389
Matrix (Source ID): Water (432384-001)	**Method:** SM 4500-CL-G	

QC882194 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Chlorine, Total Residual	10.87	10.90	mg/L		0	20	5

Type: Blank	**Lab ID:** QC882195	**Batch:** 251390
Matrix: Water	**Method:** SM2540C	**Prep Method:** METHOD

QC882195 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Dissolved Solids	ND		mg/L	10		08/19/20	08/20/20

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	Lab ID: QC882196	Batch: 251390
Matrix: Water	Method: SM2540C	Prep Method: METHOD

QC882196 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Dissolved Solids	101.0	100.0	mg/L	101%		90-110

Type: Sample Duplicate	Lab ID: QC882197	Batch: 251390
Matrix (Source ID): Water (432429-001)	Method: SM2540C	Prep Method: METHOD

QC882197 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Dissolved Solids	500.0	510.0	mg/L		2	5	2

Type: Blank	Lab ID: QC882212	Batch: 251394
Matrix: Water	Method: SM 4500-NH3-G	

QC882212 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Total Kjeldahl	ND		mg/L	0.20	0.015	08/20/20	08/20/20

Type: Lab Control Sample	Lab ID: QC882213	Batch: 251394
Matrix: Water	Method: SM 4500-NH3-G	

QC882213 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Total Kjeldahl	2.345	2.500	mg/L	94%		80-120

Type: Matrix Spike	Lab ID: QC882214	Batch: 251394
Matrix (Source ID): Water (432391-001)	Method: SM 4500-NH3-G	

QC882214 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Total Kjeldahl	12.90	0.5010	12.50	mg/L	99%		80-120	2.5

Type: Matrix Spike Duplicate	Lab ID: QC882215	Batch: 251394
Matrix (Source ID): Water (432391-001)	Method: SM 4500-NH3-G	

QC882215 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Total Kjeldahl	12.70	0.5010	12.50	mg/L	98%		80-120	2	20	2.5

ENTHALPY ANALYTICAL

Batch QC

Type: Blank **Lab ID: QC882233** **Batch: 251402**
Matrix: Water **Method: SM 4500-P-B5-E**

QC882233 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Phosphorus	ND		mg/L	0.020	0.010	08/20/20	08/20/20

Type: Lab Control Sample **Lab ID: QC882234** **Batch: 251402**
Matrix: Water **Method: SM 4500-P-B5-E**

QC882234 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phosphorus	0.4230	0.4000	mg/L	106%		80-120

Type: Matrix Spike **Lab ID: QC882235** **Batch: 251402**
Matrix (Source ID): Water (432398-007) **Method: SM 4500-P-B5-E**

QC882235 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phosphorus	0.5710	0.1080	0.4000	mg/L	116%		75-125	1

Type: Matrix Spike Duplicate **Lab ID: QC882236** **Batch: 251402**
Matrix (Source ID): Water (432398-007) **Method: SM 4500-P-B5-E**

QC882236 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phosphorus	0.5240	0.1080	0.4000	mg/L	104%		75-125	9	20	1

Type: Blank **Lab ID: QC882405** **Batch: 251461**
Matrix: Water **Method: SM2540D** **Prep Method: METHOD**

QC882405 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Suspended Solids	ND		mg/L	0.5		08/20/20	08/20/20

Type: Sample Duplicate **Lab ID: QC882406** **Batch: 251461**
Matrix (Source ID): Water (432360-001) **Method: SM2540D** **Prep Method: METHOD**

QC882406 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Suspended Solids	179.5	178.5	mg/L		1	5	5

ENTHALPY ANALYTICAL

Batch QC

Type: Blank **Lab ID:** QC882664 **Batch:** 251545
Matrix: Water **Method:** SM 4500-F-C

QC882664 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Fluoride	ND		mg/L	0.10	0.0030	08/24/20	08/24/20

Type: Lab Control Sample **Lab ID:** QC882665 **Batch:** 251545
Matrix: Water **Method:** SM 4500-F-C

QC882665 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Fluoride	1.040	1.000	mg/L	104%		80-120

Type: Matrix Spike **Lab ID:** QC882666 **Batch:** 251545
Matrix (Source ID): Water (432518-001) **Method:** SM 4500-F-C

QC882666 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Fluoride	1.650	0.6120	1.000	mg/L	104%		75-125	1

Type: Matrix Spike Duplicate **Lab ID:** QC882667 **Batch:** 251545
Matrix (Source ID): Water (432518-001) **Method:** SM 4500-F-C

QC882667 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Fluoride	1.650	0.6120	1.000	mg/L	104%		75-125	0	20	1

Type: Blank **Lab ID:** QC882915 **Batch:** 251636
Matrix: Water **Method:** SM 4500-NH3-G

QC882915 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Ammonia-N	ND		mg/L	0.10	0.010	08/25/20	08/27/20

Type: Lab Control Sample **Lab ID:** QC882916 **Batch:** 251636
Matrix: Water **Method:** SM 4500-NH3-G

QC882916 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Ammonia-N	2.700	2.500	mg/L	108%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type: Matrix Spike	Lab ID: QC882917	Batch: 251636
Matrix (Source ID): Water (432398-002)	Method: SM 4500-NH3-G	

QC882917 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Ammonia-N	2.350	ND	2.500	mg/L	94%		80-120	1

Type: Matrix Spike Duplicate	Lab ID: QC882918	Batch: 251636
Matrix (Source ID): Water (432398-002)	Method: SM 4500-NH3-G	

QC882918 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Ammonia-N	2.370	ND	2.500	mg/L	95%		80-120	1	20	1

Type: Blank	Lab ID: QC883063	Batch: 251705
Matrix: Drinking Water	Method: EPA 300.0	Prep Method: METHOD

QC883063 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Sulfate	ND		mg/L	1.0	0.25	08/26/20 12:00	08/26/20 23:59

Type: Lab Control Sample	Lab ID: QC883064	Batch: 251705
Matrix: Drinking Water	Method: EPA 300.0	Prep Method: METHOD

QC883064 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Sulfate	49.28	50.00	mg/L	99%		90-110

Type: Matrix Spike	Lab ID: QC883065	Batch: 251705
Matrix (Source ID): Drinking Water (432768-001)	Method: EPA 300.0	Prep Method: METHOD

QC883065 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Sulfate	50.85	ND	50.00	mg/L	100%		80-120	1

Type: Matrix Spike Duplicate	Lab ID: QC883066	Batch: 251705
Matrix (Source ID): Drinking Water (432768-001)	Method: EPA 300.0	Prep Method: METHOD

QC883066 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Sulfate	51.33	ND	50.00	mg/L	101%		80-120	1	20	1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC883067**	**Batch:**	**251705**
Matrix (Source ID):	**Drinking Water (432768-002)**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC883067 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Sulfate	50.56	1.048	50.00	mg/L	99%		80-120	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC883068**	**Batch:**	**251705**
Matrix (Source ID):	**Drinking Water (432768-002)**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC883068 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Sulfate	50.95	1.048	50.00	mg/L	100%		80-120	1	20	1

Type:	**Blank**	**Lab ID:**	**QC883337**	**Batch:**	**251800**
Matrix:	**Water**	**Method:**	**SM 4500-CN-E**	**Prep Method:**	**METHOD**

QC883337 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Cyanide	ND		mg/L	0.010	0.0022	08/27/20	08/27/20

Type:	**Lab Control Sample**	**Lab ID:**	**QC883338**	**Batch:**	**251800**
Matrix:	**Water**	**Method:**	**SM 4500-CN-E**	**Prep Method:**	**METHOD**

QC883338 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Cyanide	0.2090	0.2000	mg/L	105%		73-123

Type:	**Matrix Spike**	**Lab ID:**	**QC883339**	**Batch:**	**251800**
Matrix (Source ID):	**Water (432391-001)**	**Method:**	**SM 4500-CN-E**	**Prep Method:**	**METHOD**

QC883339 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Cyanide	0.1950	ND	0.2000	mg/L	98%		56-129	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC883340**	**Batch:**	**251800**
Matrix (Source ID):	**Water (432391-001)**	**Method:**	**SM 4500-CN-E**	**Prep Method:**	**METHOD**

QC883340 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Cyanide	0.1950	ND	0.2000	mg/L	98%		56-129	0	37	1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID: QC883370**	**Batch: 251812**
Matrix: Water	**Method: EPA 245.1**	**Prep Method: METHOD**

QC883370 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Mercury	ND		ug/L	0.20	0.094	08/27/20	08/28/20

Type: Lab Control Sample	**Lab ID: QC883371**	**Batch: 251812**
Matrix: Water	**Method: EPA 245.1**	**Prep Method: METHOD**

QC883371 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Mercury	5.287	5.000	ug/L	106%		80-120

Type: Matrix Spike	**Lab ID: QC883372**	**Batch: 251812**
Matrix (Source ID): Water (432794-001)	**Method: EPA 245.1**	**Prep Method: METHOD**

QC883372 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	5.017	ND	5.000	ug/L	100%		75-125	1

Type: Matrix Spike Duplicate	**Lab ID: QC883373**	**Batch: 251812**
Matrix (Source ID): Water (432794-001)	**Method: EPA 245.1**	**Prep Method: METHOD**

QC883373 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	5.221	ND	5.000	ug/L	104%		75-125	4	20	1

* Value is outside QC limits
J Estimated value
ND Not Detected
NM Not Meaningful: Sample concentration > 4X spike concentration
b See narrative

Laboratory Job Number 432391

Subcontracted Products

AmeriSci

Please Reply To:

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

FACSIMILE TELECOPY TRANSMISSION

To:	Project Manager Enthalpy Analytical	**From:**	Lateef McIntosh
		AmeriSci Job #:	920081567
Fax #:		**Subject:**	Water (waste) 5 day Results
		Client Project:	EO-432391
Email:	incomingreports@enthalpy.com,Ranjit.clarke@enthalpy.com		

Date: Tuesday, August 25, 2020
Time: 16:02:33
Comments:

Number of Pages: 3 (including cover sheet)

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AmeriSci Job #: **920081567**
Client Name: Enthalpy Analytical

Table I
Summary of Transmission Electron Microscopy (TEM) Results for Asbestos (Water)

EO-432391

AmeriSci Sample #	Client Sample No./Location	Liquid Filtered (liters)	Temp (Celcius)	Structures Detected* (total)	Structures Detected* (>10 µm)	Analytical Sensitivity (MF/L)	Asbestos Conc (total) (MF/L)	Asbestos Conc (>10 µm) (MF/L)	Asbestos Type
01	432391-001 SMBRP-9	0.005	4	1	NSD	0.21	0.21	<0.21	amphibole
02	432391-002 MCWP-MW07S	0.005	4	NSD	NSD	0.21	<0.21	<0.21	----
03	432391-003 MCWP-MW07D	0.005	4	NSD	NSD	0.21	<0.21	<0.21	----
04	432391-004 MCWP-MW04S	0.003	4	NSD	NSD	0.35	<0.35	<0.35	----

*fiber criteria (>=0.5 microns, 5:1 aspect ratio); NAD/NSD = no asbestos detected, NA = not analyzed, MF/L = million fibers per liter.

NOTE: Drinking water analysis by EPA-600/4-83-043 (100.1), waste water by EPA-600/4-80-005. Analytical sensitivity calculated as though 1 fiber had been detected on the TEM GRID area analyzed. Samples are refrigerated upon receipt when necessary and filtered within four hours.

Reviewed By: _____ ; Analyzed By: _____ Date: 8/24/2020
Lateef McIntosh

9200815G7

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
AmeriSci
24416 S. Main Street
Suite 308
Carson, CA 90745
ATTN: Taylor Brule
PO #: 1055972

Enthalpy Order: EO-432391
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

Results Due: 5 Day TAT
Report Level: II
Report To: MDL
EDDs:

Notes:
EPA 100.1

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
SMBRP-9	18-AUG-2020 09:05	432391-001	1	Water	Asbestos	EPA 100.1
MCWP-MW07S	18-AUG-2020 10:45	432391-002	1	Water	Asbestos	EPA 100.1
MCWP-MW07D	18-AUG-2020 11:50	432391-003	1	Water	Asbestos	EPA 100.1
MCWP-MW04S	18-AUG-2020 12:30	432391-004	1	Water	Asbestos	EPA 100.1

Notes:	Relinquished By:	Received By:
	Sayi Rani	RX
	Date: 8/19/20 1650	Date: 8/19/20 1650 4°C
	Date:	Date:
	Date:	Date:

QC Sample Assignment for AmeriSci Job# 920081567

Analyst/Date: _____ Entered by/Date: _____

Original Sample	Client Sample No	QA Number	Grid	Box

Laboratory Job Number 432391

Subcontracted Products

Eurofins CalScience

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-36294-1
Client Project/Site: 432391

For:
Enthalpy Analytical LLC
931 W. Barkley Ave
Orange, California 92868

Attn: Ranjit Clarke

Authorized for release by:
8/26/2020 2:53:50 PM

Xuan Dang, Project Manager I
(714)895-5494
Xuan.Dang@eurofinset.com

LINKS

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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.

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Definitions/Glossary

Client: Enthalpy Analytical LLC
Project/Site: 432391

Job ID: 570-36294-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
s	Seeded Control Blank (SCB) Recovery High

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: 432391

Job ID: 570-36294-1

Job ID: 570-36294-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-36294-1

Comments
No additional comments.

Receipt
The samples were received on 8/19/2020 5:25 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
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 (MSD) associated with preparation batch 570-89266 and 570-89266. LCS/LCSD was performed to meet QC requirement.

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: 432391

Job ID: 570-36294-1

Client Sample ID: SMBRP-9 — Lab Sample ID: 570-36294-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Biochemical Oxygen Demand	1.68	J	2.08	1.22	mg/L	1		SM5210B	Total/NA

Client Sample ID: MCWP-MW07S — Lab Sample ID: 570-36294-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Biochemical Oxygen Demand	1.92		1.25	0.730	mg/L	1		SM5210B	Total/NA

Client Sample ID: MCWP-MW07D — Lab Sample ID: 570-36294-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Biochemical Oxygen Demand	5.17		1.25	0.730	mg/L	1		SM5210B	Total/NA

Client Sample ID: MCWP-MW04S — Lab Sample ID: 570-36294-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Biochemical Oxygen Demand	1.01	J	1.25	0.730	mg/L	1		SM5210B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Enthalpy Analytical LLC
Project/Site: 432391

Job ID: 570-36294-1

General Chemistry

Client Sample ID: SMBRP-9
Date Collected: 08/18/20 09:05
Date Received: 08/19/20 17:25

Lab Sample ID: 570-36294-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	ND		1.16	0.926	mg/L		08/20/20 15:31	08/20/20 15:31	1
Biochemical Oxygen Demand	**1.68**	**J**	2.08	1.22	mg/L			08/19/20 23:18	1

Client Sample ID: MCWP-MW07S
Date Collected: 08/18/20 10:45
Date Received: 08/19/20 17:25

Lab Sample ID: 570-36294-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	ND		1.15	0.919	mg/L		08/20/20 15:31	08/20/20 15:31	1
Biochemical Oxygen Demand	**1.92**		1.25	0.730	mg/L			08/19/20 23:18	1

Client Sample ID: MCWP-MW07D
Date Collected: 08/18/20 11:50
Date Received: 08/19/20 17:25

Lab Sample ID: 570-36294-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	ND		1.22	0.975	mg/L		08/20/20 15:40	08/20/20 15:40	1
Biochemical Oxygen Demand	**5.17**		1.25	0.730	mg/L			08/19/20 23:18	1

Client Sample ID: MCWP-MW04S
Date Collected: 08/18/20 12:30
Date Received: 08/19/20 17:25

Lab Sample ID: 570-36294-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	ND		1.15	0.920	mg/L		08/20/20 15:40	08/20/20 15:40	1
Biochemical Oxygen Demand	**1.01**	**J**	1.25	0.730	mg/L			08/19/20 23:18	1

Client: Enthalpy Analytical LLC
Project/Site: 432391

Job ID: 570-36294-1

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 570-89266/1-A
Matrix: Water
Analysis Batch: 90001

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	ND		1.00	0.800	mg/L		08/20/20 15:31	08/20/20 15:31	1

Lab Sample ID: LCS 570-89266/2-A
Matrix: Water
Analysis Batch: 90001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM: Oil and Grease	40.0	36.70		mg/L		92	78 - 114

Lab Sample ID: LCSD 570-89266/3-A
Matrix: Water
Analysis Batch: 90001

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 89266

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HEM: Oil and Grease	40.0	37.10		mg/L		93	78 - 114	1	18

Lab Sample ID: 570-35943-A-1-A MS
Matrix: Water
Analysis Batch: 90001

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 89266

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM: Oil and Grease	0.954		38.2	36.16		mg/L		92	78 - 114

Method: SM5210B - BOD, 5 Day

Lab Sample ID: SCB 570-90318/2
Matrix: Water
Analysis Batch: 90318

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

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	1.468	s	0.833	0.487	mg/L			08/19/20 23:18	1

Lab Sample ID: USB 570-90318/1
Matrix: Water
Analysis Batch: 90318

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		0.833	0.487	mg/L			08/19/20 23:18	1

Lab Sample ID: LCS 570-90318/3
Matrix: Water
Analysis Batch: 90318

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	204.1		mg/L		103	84.6 - 115.4

Client: Enthalpy Analytical LLC
Project/Site: 432391

Job ID: 570-36294-1

Method: SM5210B - BOD, 5 Day (Continued)

Lab Sample ID: 570-36212-A-1 DU
Matrix: Water
Analysis Batch: 90318

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Biochemical Oxygen Demand	1660			1693		mg/L				2	25

QC Association Summary

Client: Enthalpy Analytical LLC
Project/Site: 432391

Job ID: 570-36294-1

General Chemistry

Prep Batch: 89266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-36294-1	SMBRP-9	Total/NA	Water	1664A	
570-36294-2	MCWP-MW07S	Total/NA	Water	1664A	
570-36294-3	MCWP-MW07D	Total/NA	Water	1664A	
570-36294-4	MCWP-MW04S	Total/NA	Water	1664A	
MB 570-89266/1-A	Method Blank	Total/NA	Water	1664A	
LCS 570-89266/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 570-89266/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	
570-35943-A-1-A MS	Matrix Spike	Total/NA	Water	1664A	

Analysis Batch: 90001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-36294-1	SMBRP-9	Total/NA	Water	1664A	89266
570-36294-2	MCWP-MW07S	Total/NA	Water	1664A	89266
570-36294-3	MCWP-MW07D	Total/NA	Water	1664A	89266
570-36294-4	MCWP-MW04S	Total/NA	Water	1664A	89266
MB 570-89266/1-A	Method Blank	Total/NA	Water	1664A	89266
LCS 570-89266/2-A	Lab Control Sample	Total/NA	Water	1664A	89266
LCSD 570-89266/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	89266
570-35943-A-1-A MS	Matrix Spike	Total/NA	Water	1664A	89266

Analysis Batch: 90318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-36294-1	SMBRP-9	Total/NA	Water	SM5210B	
570-36294-2	MCWP-MW07S	Total/NA	Water	SM5210B	
570-36294-3	MCWP-MW07D	Total/NA	Water	SM5210B	
570-36294-4	MCWP-MW04S	Total/NA	Water	SM5210B	
SCB 570-90318/2	Method Blank	Total/NA	Water	SM5210B	
USB 570-90318/1	Method Blank	Total/NA	Water	SM5210B	
LCS 570-90318/3	Lab Control Sample	Total/NA	Water	SM5210B	
570-36212-A-1 DU	Duplicate	Total/NA	Water	SM5210B	

Lab Chronicle

Client: Enthalpy Analytical LLC
Project/Site: 432391

Job ID: 570-36294-1

Client Sample ID: SMBRP-9

Date Collected: 08/18/20 09:05
Date Received: 08/19/20 17:25

Lab Sample ID: 570-36294-1

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			864 mL	1000 mL	89266	08/20/20 15:31	UFLU	ECL 1
Total/NA	Analysis	1664A		1			90001	08/20/20 15:31	UFLU	ECL 1
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM5210B		1	120 mL	300 mL	90318		FTO2	ECL 1
	Instrument ID: BOD1							(Start) 08/19/20 23:18		
								(End) 08/24/20 18:24		

Client Sample ID: MCWP-MW07S

Date Collected: 08/18/20 10:45
Date Received: 08/19/20 17:25

Lab Sample ID: 570-36294-2

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			870 mL	1000 mL	89266	08/20/20 15:31	UFLU	ECL 1
Total/NA	Analysis	1664A		1			90001	08/20/20 15:31	UFLU	ECL 1
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM5210B		1	200 mL	300 mL	90318		FTO2	ECL 1
	Instrument ID: BOD1							(Start) 08/19/20 23:18		
								(End) 08/24/20 18:24		

Client Sample ID: MCWP-MW07D

Date Collected: 08/18/20 11:50
Date Received: 08/19/20 17:25

Lab Sample ID: 570-36294-3

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			820 mL	1000 mL	89266	08/20/20 15:40	UFLU	ECL 1
Total/NA	Analysis	1664A		1			90001	08/20/20 15:40	UFLU	ECL 1
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM5210B		1	200 mL	300 mL	90318		FTO2	ECL 1
	Instrument ID: BOD1							(Start) 08/19/20 23:18		
								(End) 08/24/20 18:24		

Client Sample ID: MCWP-MW04S

Date Collected: 08/18/20 12:30
Date Received: 08/19/20 17:25

Lab Sample ID: 570-36294-4

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			869 mL	1000 mL	89266	08/20/20 15:40	UFLU	ECL 1
Total/NA	Analysis	1664A		1			90001	08/20/20 15:40	UFLU	ECL 1
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM5210B		1	200 mL	300 mL	90318		FTO2	ECL 1
	Instrument ID: BOD1							(Start) 08/19/20 23:18		
								(End) 08/24/20 18:24		

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Enthalpy Analytical LLC
Project/Site: 432391

Job ID: 570-36294-1

Laboratory: Eurofins Calscience LLC

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

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

Client: Enthalpy Analytical LLC
Project/Site: 432391

Job ID: 570-36294-1

Method	Method Description	Protocol	Laboratory
1664A	HEM and SGT-HEM	1664A	ECL 1
SM5210B	BOD, 5 Day	SM	ECL 1
1664A	HEM and SGT-HEM (Aqueous)	1664A	ECL 1

Protocol References:

1664A = EPA-821-98-002

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

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: Enthalpy Analytical LLC
Project/Site: 432391

Job ID: 570-36294-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-36294-1	SMBRP-9	Water	08/18/20 09:05	08/19/20 17:25	
570-36294-2	MCWP-MW07S	Water	08/18/20 10:45	08/19/20 17:25	
570-36294-3	MCWP-MW07D	Water	08/18/20 11:50	08/19/20 17:25	
570-36294-4	MCWP-MW04S	Water	08/18/20 12:30	08/19/20 17:25	

ENTHALPY

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
Eurofins CalScience
7440 Lincoln Way
Garden Grove, CA 92841-1432
ATTN: Xuan Dang
PO #: Required, to be sent via email

Enthalpy Order: EO-432391
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:

570-36294 Chain of Custody

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
SMBRP-9	18-AUG-2020 09:05	432391-001	2+1DS	Water	EPA 1664 Oil & Grease (Total) -OUT	
				Water	Carbonaceous BOD	
MCWP-MW07S	18-AUG-2020 10:45	432391-002	2+1DS	Water	EPA 1664 Oil & Grease (Total) -OUT	
				Water	Carbonaceous BOD	
MCWP-MW07D	18-AUG-2020 11:50	432391-003	2+1DS	Water	EPA 1664 Oil & Grease (Total) -OUT	
				Water	Carbonaceous BOD	
MCWP-MW04S	18-AUG-2020 12:30	432391-004	2+1DS	Water	EPA 1664 Oil & Grease (Total) -OUT	
				Water	Carbonaceous BOD	

Notes:	Relinquished By:	Received By:
	Dan Sampson	Dannyle Ez
	Date: 8/19/20 17:25	Date: 8/19/20 17:25
	Date:	Date:
	Date:	Date:

4.0/3.6 SCG

Login Sample Receipt Checklist

Client: Enthalpy Analytical LLC

Job Number: 570-36294-1

Login Number: 36294
List Number: 1
Creator: Le, Danny

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?	False	Not requested on COC.
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 432391

Subcontracted Products

Enthalpy - Wilmington

Enthalpy Analytical - Orange

931 W. Barkley Ave
Orange, CA 92868

Client Project # EO-432391
Sample Received: 08/21/20

Analytical Report
0820-746

EPA Method 1613B

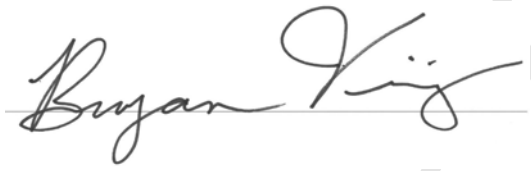
2,3,7,8-TCDD

Enthalpy Analytical, LLC – Ultratrace
Lindsay Boone
O: (910) 212-5855 / F: 910-212-5866
lboone@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 20 pages.



Digitally signed by Bryan Vining
DN: cn=Bryan Vining, o=Enthalpy Analytical Ultratrace, ou, email=bryan.vining@enthalpy.com, c=US
Date: 2020.09.04 17:36:46 -04'00'

Report Issued Date: 09/04/2020

ENTHALPY ANALYTICAL

Summary of Results

ENTHALPY ANALYTICAL

Summary of Results: Totals

Enthalpy Ultratrace Batch # 11107

Method 1613B

Analyte	Method Blank pg/L	SMBPR-9 pg/L	MCWP-MW07S pg/L	MCWP-MW07D pg/L	MCWP-MW04S pg/L
Totals					
TCDDs	(0.312)	(0.395)	(0.358)	(0.451)	(0.405)

ND = (EDL) EMPC = [ ]

Detailed Results

SMBPR-9						Detailed Results - Method 1613B	
Client Details							
Client Sample ID:	SMBPR-9		**Client Name:**	**Enthalpy-Orange**			
Client Project ID:	EO-432391		**Sample Collection Date:**	**8/18/2020**		**RRFs:**	**ICAL**
Lab/Sample Details							
Lab Job #:	**0820-746**	**Matrix:**	**Aqueous**	**Date Received:**	**20-Aug-20**		
Lab Sample ID:	**0820-746_11107_001**	**Weight/Volume:**	**1.00**	**Date Extracted:**	**25-Aug-20**		
QC Batch #:	**11107**	**Split Factor:**	**1**	**Date Analyzed:**	**28-Aug-20**		
Dilution:	**-**			**Time Analyzed:**	**15:30:46**		

Analyte	Conc. (pg/L)	EDL (pg/L)	EMPC (pg/L)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	ND	0.392		U	ES 2,3,7,8-TCDD	68.1	
					CS 37Cl-2378-TCDD	106	
					AS 1368-TCDD	83.9	

MCWP-MW07S						Detailed Results - Method 1613B	
Client Details							
Client Sample ID:	MCWP-MW07S		**Client Name:**	**Enthalpy-Orange**			
Client Project ID:	EO-432391		**Sample Collection Date:**	**8/18/2020**		**RRFs:**	**ICAL**
Lab/Sample Details							
Lab Job #:	**0820-746**	**Matrix:**	**Aqueous**	**Date Received:**	**20-Aug-20**		
Lab Sample ID:	**0820-746_11107_002**	**Weight/Volume:**	**1.02**	**Date Extracted:**	**25-Aug-20**		
QC Batch #:	**11107**	**Split Factor:**	**1**	**Date Analyzed:**	**28-Aug-20**		
Dilution:	**-**			**Time Analyzed:**	**16:19:52**		

Analyte	Conc. (pg/L)	EDL (pg/L)	EMPC (pg/L)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	ND	0.356		U	ES 2,3,7,8-TCDD	69.4	
					CS 37Cl-2378-TCDD	105	
					AS 1368-TCDD	85.5	

MCWP-MW07D						Detailed Results - Method 1613B	
Client Details							
Client Sample ID:	MCWP-MW07D		**Client Name:**	**Enthalpy-Orange**			
Client Project ID:	EO-432391		**Sample Collection Date:**	**8/18/2020**		**RRFs:**	**ICAL**
Lab/Sample Details							
Lab Job #:	**0820-746**	**Matrix:**	**Aqueous**	**Date Received:**	**20-Aug-20**		
Lab Sample ID:	**0820-746_11107_003**	**Weight/Volume:**	**1.03**	**Date Extracted:**	**25-Aug-20**		
QC Batch #:	**11107**	**Split Factor:**	**1**	**Date Analyzed:**	**28-Aug-20**		
Dilution:	**-**			**Time Analyzed:**	**17:08:58**		

Analyte	Conc. (pg/L)	EDL (pg/L)	EMPC (pg/L)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	ND	0.448		U	ES 2,3,7,8-TCDD	66.8	
					CS 37Cl-2378-TCDD	103	
					AS 1368-TCDD	84.6	

MCWP-MW04S						Detailed Results - Method 1613B	
Client Details							
Client Sample ID:	MCWP-MW04S		**Client Name:**	**Enthalpy-Orange**			
Client Project ID:	EO-432391		**Sample Collection Date:**	**8/18/2020**		**RRFs:**	**ICAL**
Lab/Sample Details							
Lab Job #:	**0820-746**	**Matrix:**	**Aqueous**	**Date Received:**	**20-Aug-20**		
Lab Sample ID:	**0820-746_11107_004**	**Weight/Volume:**	**1.01**	**Date Extracted:**	**25-Aug-20**		
QC Batch #:	**11107**	**Split Factor:**	**1**	**Date Analyzed:**	**28-Aug-20**		
Dilution:	**-**			**Time Analyzed:**	**17:58:03**		

Analyte	Conc. (pg/L)	EDL (pg/L)	EMPC (pg/L)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	ND	0.402		U	ES 2,3,7,8-TCDD	67.7	
					CS 37Cl-2378-TCDD	106	
					AS 1368-TCDD	86.5	

QC Data

OPR	Detailed Results - Method 1613B

RRFs: ICAL

Lab/Sample Details

		Matrix:	Aqueous	Date Received:	N/A
Lab Sample ID:	OPR_11107_DF	Final Vol. (uL)	20.0	Date Extracted:	25-Aug-20
QC Batch #:	11107	Split Factor:	1	Date Analyzed:	28-Aug-20
Dilution:	-			Time Analyzed:	13:03:57

Analyte	Conc. (pg/uL)	EDL (pg/uL)	EMPC (pg/uL)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	9.87	0.0375			ES 2,3,7,8-TCDD	82.5	
					CS 37Cl-2378-TCDD	109	
					AS 1368-TCDD	86.2	

Method Blank	Detailed Results - Method 1613B

RRFs: ICAL

Lab/Sample Details

		Matrix:	Aqueous	Date Received:	N/A
Lab Sample ID:	LMB_11107_DF	Weight/Volume:	1.00	Date Extracted:	25-Aug-20
QC Batch #:	11107	Split Factor:	1	Date Analyzed:	28-Aug-20
Dilution:	-			Time Analyzed:	14:41:44

Analyte	Conc. (pg/L)	EDL (pg/L)	EMPC (pg/L)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	ND	0.311		U	ES 2,3,7,8-TCDD	79.4	
					CS 37Cl-2378-TCDD	105	
					AS 1368-TCDD	86.7	

OPR Demonstration Data (TCDD Only)

Batch ID#: 11107 **Method 1613B**

Analyte	Conc. (pg)	Lower Limit	Upper Limit	Acceptable?	Standard	ES Recoveries	Lower Limit	Upper Limit	Acceptable?
2,3,7,8-TCDD	9.9	7.3	14.6	Y	ES 2,3,7,8-TCDD	83	25	141	Y
					CS 2,3,7,8-TCDD	11	3.7	15.8	Y

Narrative Summary

Enthalpy Analytical Narrative Summary

Company	Enthalpy - Orange
Job#	0820-746 EPA Method 1613B
Client Project #	EO-432391

Custody	Caity Hayes of Enthalpy Analytical Wilmington received the sample (via FedEx) on ice on 08/21/20 at 2.4°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 "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 each extract. Each 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	The Totals and Detection Limits have been included in the report. 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 concentration 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. Specific to Dioxin/Furan tests and equivalent to MDL
- EMPC – Estimated Maximum Possible Concentration Specific to Dioxin/Furan tests to indicate the signal/noise ratio wass not sufficient for peak identification (the determined ion-abundance ratio was outside the allowed theoretical range), or where there was a co-eluting interference. Indicates that a peak was identified but did not meet the method specified ion-abundance ratio.
- IR – The ion ratio between the primary and secondary ions was observed to be outside the method criteria therefore the actual analyte concentration cannot be accurately determined as defined by DoD QSM Table B-15.
- 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 Quantiation: 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 LOD 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.

- 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 – The labeled standard recovery is not within method control limits.
- X – Results 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.
- RJ – Indicates a reinjection of the sample extract.
- S – Indicates a sample split. The number that follows the "S" indicates the split factor.
- R – Indicates a re-extraction of the sample.

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 #: 1055974

Enthalpy Order: EO-432391
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

0820-746

Results Due: 10 Day TAT
Report Level: II
Report To: MDL
EDDs:

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
SMBRP-9	18-AUG-2020 09:05	432391-001	1	Water	EPA 1613 - 2,3,7,8-TCDD only	
MCWP-MW07S	18-AUG-2020 10:45	432391-002	1	Water	EPA 1613 - 2,3,7,8-TCDD only	
MCWP-MW07D	18-AUG-2020 11:50	432391-003	1	Water	EPA 1613 - 2,3,7,8-TCDD only	
MCWP-MW04S	18-AUG-2020 12:30	432391-004	1	Water	EPA 1613 - 2,3,7,8-TCDD only	

Notes:	Relinquished By:	Received By:
Fedex, 771314975731, No seals, good condition on ice. CH 8/21/20		FED EX 7713 1497 5731
	Date: 8/21/20 1200	Date: 8/21/20
		Carley Hayes
	Date:	Date: 8/20/20 10:30 2.4T9
	Date:	Date:

This Is The Last Page Of This Report.

Laboratory Job Number 432391

Subcontracted Products

Pace Labs - PA

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

September 15, 2020

Ranjit Clarke
Enthalpy Analytical
806 N. Batavia St.
Orange, CA 92868

RE: Project: EO-432391
Pace Project No.: 30378921

Dear Ranjit Clarke:

Enclosed are the analytical results for sample(s) received by the laboratory on August 21, 2020. 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,

Jacquelyn Collins
jacquelyn.collins@pacelabs.com
(724)850-5612
Project Manager

Enclosures

cc: Incoming Reports, 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-432391
Pace Project No.: 30378921

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: EO-432391
Pace Project No.: 30378921

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30378921001	**SMBRP-9**	Water	08/18/20 09:05	08/21/20 10:20
30378921002	**MCWP-MW07S**	Water	08/18/20 10:45	08/21/20 10:20
30378921003	**MCWP-MW07D**	Water	08/18/20 11:50	08/21/20 10:20
30378921004	**MCWP-MW04S**	Water	08/18/20 12:30	08/21/20 10:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: EO-432391
Pace Project No.: 30378921

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30378921001	**SMBRP-9**	EPA 900.0	CLA	2	PASI-PA
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		ASTM D5811-95	LAL	1	PASI-PA
		EPA 906.0	JAL	1	PASI-PA
		ASTM D5174-97	RMK	1	PASI-PA
30378921002	**MCWP-MW07S**	EPA 900.0	CLA	2	PASI-PA
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		ASTM D5811-95	LAL	1	PASI-PA
		EPA 906.0	JAL	1	PASI-PA
		ASTM D5174-97	RMK	1	PASI-PA
30378921003	**MCWP-MW07D**	EPA 900.0	CLA	2	PASI-PA
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		ASTM D5811-95	LAL	1	PASI-PA
		EPA 906.0	JAL	1	PASI-PA
		ASTM D5174-97	RMK	1	PASI-PA
30378921004	**MCWP-MW04S**	EPA 900.0	CLA	2	PASI-PA
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		ASTM D5811-95	LAL	1	PASI-PA
		EPA 906.0	JAL	1	PASI-PA
		ASTM D5174-97	RMK	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: EO-432391
Pace Project No.: 30378921

Sample: SMBRP-9 **Lab ID: 30378921001** Collected: 08/18/20 09:05 Received: 08/21/20 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • 5.0 mls of nitric acid were added to the sample to meet the sample preservation requirement of pH <2 for radiochemistry analysis on 8/24. The samples were not preserved <2 within the required 5 days of collection. Client notified.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Gross Alpha	EPA 900.0	**39.4 ± 9.80 (5.77) C:NA T:NA**	pCi/L	09/09/20 18:38	12587-46-1	
Gross Beta	EPA 900.0	**11.2 ± 3.56 (4.22) C:NA T:NA**	pCi/L	09/09/20 18:38	12587-47-2	
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.136 ± 0.310 (0.499) C:NA T:86%**	pCi/L	09/08/20 15:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.357 ± 0.379 (0.789) C:71% T:91%**	pCi/L	09/03/20 11:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Strontium-90	ASTM D5811-95	**-0.892 ± 0.634 (1.33) C:108% T:NA**	pCi/L	09/02/20 17:51	10098-97-2	N2
	Pace Analytical Services - Greensburg					
Tritium	EPA 906.0	**-45.0 ± 125 (226) C:NA T:NA**	pCi/L	09/05/20 22:42	10028-17-8	
	Pace Analytical Services - Greensburg					
Total Uranium	ASTM D5174-97	**37.0 ± 1.301 (1.310) C:NA T:NA**	ug/L	09/11/20 12:38	7440-61-1	

Sample: MCWP-MW07S **Lab ID: 30378921002** Collected: 08/18/20 10:45 Received: 08/21/20 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • 5.0 mls of nitric acid were added to the sample to meet the sample preservation requirement of pH <2 for radiochemistry analysis on 8/24. The samples were not preserved <2 within the required 5 days of collection. Client notified.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Gross Alpha	EPA 900.0	**7.33 ± 3.00 (3.32) C:NA T:NA**	pCi/L	09/09/20 19:56	12587-46-1	
Gross Beta	EPA 900.0	**3.63 ± 1.68 (2.58) C:NA T:NA**	pCi/L	09/09/20 19:56	12587-47-2	
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.123 ± 0.282 (0.454) C:NA T:91%**	pCi/L	09/08/20 15:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.954 ± 0.459 (0.794) C:71% T:88%**	pCi/L	09/03/20 11:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Strontium-90	ASTM D5811-95	**-0.221 ± 0.358 (0.732) C:102% T:NA**	pCi/L	09/02/20 17:51	10098-97-2	N2
	Pace Analytical Services - Greensburg					
Tritium	EPA 906.0	**-130 ± 121 (226) C:NA T:NA**	pCi/L	09/05/20 23:43	10028-17-8	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: EO-432391
Pace Project No.: 30378921

Sample: MCWP-MW07S **Lab ID: 30378921002** Collected: 08/18/20 10:45 Received: 08/21/20 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • 5.0 mls of nitric acid were added to the sample to meet the sample preservation requirement of pH <2 for radiochemistry analysis on 8/24. The samples were not preserved <2 within the required 5 days of collection. Client notified.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Total Uranium	ASTM D5174-97	**6.36 ± 0.229 (0.262)** **C:NA T:NA**	ug/L	09/11/20 12:40	7440-61-1	

Sample: MCWP-MW07D **Lab ID: 30378921003** Collected: 08/18/20 11:50 Received: 08/21/20 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • 5.0 mls of nitric acid were added to the sample to meet the sample preservation requirement of pH <2 for radiochemistry analysis on 8/24. The samples were not preserved <2 within the required 5 days of collection. Client notified.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Gross Alpha	EPA 900.0	**2.60 ± 1.14 (1.42)** **C:NA T:NA**	pCi/L	09/09/20 18:38	12587-46-1	
Gross Beta	EPA 900.0	**10.4 ± 2.00 (0.648)** **C:NA T:NA**	pCi/L	09/09/20 18:38	12587-47-2	
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.283 ± 0.341 (0.520)** **C:NA T:83%**	pCi/L	09/08/20 15:11	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.59 ± 0.747 (1.31)** **C:72% T:62%**	pCi/L	09/03/20 11:20	15262-20-1	
		Pace Analytical Services - Greensburg				
Strontium-90	ASTM D5811-95	**1.67 ± 1.40 (2.59)** **C:99% T:NA**	pCi/L	09/02/20 17:51	10098-97-2	N2
		Pace Analytical Services - Greensburg				
Tritium	EPA 906.0	**75.0 ± 133 (226)** **C:NA T:NA**	pCi/L	09/06/20 00:44	10028-17-8	
		Pace Analytical Services - Greensburg				
Total Uranium	ASTM D5174-97	**1.07 ± 0.040 (0.262)** **C:NA T:NA**	ug/L	09/11/20 12:42	7440-61-1	

Sample: MCWP-MW04S **Lab ID: 30378921004** Collected: 08/18/20 12:30 Received: 08/21/20 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • 5.0 mls of nitric acid were added to the sample to meet the sample preservation requirement of pH <2 for radiochemistry analysis on 8/24. The samples were not preserved <2 within the required 5 days of collection. Client notified.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Gross Alpha	EPA 900.0	**71.4 ± 21.9 (20.4)** **C:NA T:NA**	pCi/L	09/09/20 18:38	12587-46-1	
Gross Beta	EPA 900.0	**20.1 ± 9.17 (13.9)** **C:NA T:NA**	pCi/L	09/09/20 18:38	12587-47-2	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: EO-432391
Pace Project No.: 30378921

Sample: MCWP-MW04S **Lab ID: 30378921004** Collected: 08/18/20 12:30 Received: 08/21/20 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • 5.0 mls of nitric acid were added to the sample to meet the sample preservation requirement of pH <2 for radiochemistry analysis on 8/24. The samples were not preserved <2 within the required 5 days of collection. Client notified.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.196 ± 0.339 (0.605) C:NA T:95%**	pCi/L	09/08/20 15:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.473 ± 0.392 (0.794) C:70% T:100%**	pCi/L	09/03/20 11:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Strontium-90	ASTM D5811-95	**-0.621 ± 0.843 (1.77) C:100% T:NA**	pCi/L	09/02/20 17:51	10098-97-2	N2
	Pace Analytical Services - Greensburg					
Tritium	EPA 906.0	**-50.1 ± 125 (227) C:NA T:NA**	pCi/L	09/06/20 01:45	10028-17-8	
	Pace Analytical Services - Greensburg					
Total Uranium	ASTM D5174-97	**99.5 ± 3.495 (5.240) C:NA T:NA**	ug/L	09/11/20 12:54	7440-61-1	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: EO-432391
Pace Project No.: 30378921

QC Batch: 412252
QC Batch Method: ASTM D5174-97
Analysis Method: ASTM D5174-97
Analysis Description: D5174.97 Total Uranium KPA
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30378921001, 30378921002, 30378921003, 30378921004

METHOD BLANK: 1994107 Matrix: Water
Associated Lab Samples: 30378921001, 30378921002, 30378921003, 30378921004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Total Uranium	-0.018 ± -0.002 (0.262) C:NA T:NA	ug/L	09/11/20 12:16	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: EO-432391
Pace Project No.: 30378921

QC Batch: 411447
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: 30378921001, 30378921002, 30378921003, 30378921004

METHOD BLANK: 1990364 Matrix: Water
Associated Lab Samples: 30378921001, 30378921002, 30378921003, 30378921004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0596 ± 0.351 (0.716) C:NA T:91%	pCi/L	09/08/20 14:40	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: EO-432391
Pace Project No.: 30378921

QC Batch: 411821
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: 30378921001, 30378921002, 30378921003, 30378921004

METHOD BLANK: 1992081 Matrix: Water
Associated Lab Samples: 30378921001, 30378921002, 30378921003, 30378921004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Strontium-90	-0.328 ± 0.309 (0.648) C:93% T:NA	pCi/L	09/02/20 17:58	N2

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QUALITY CONTROL - RADIOCHEMISTRY

Project: EO-432391
Pace Project No.: 30378921

QC Batch: 411448
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: 30378921001, 30378921002, 30378921003, 30378921004

METHOD BLANK: 1990368 Matrix: Water
Associated Lab Samples: 30378921001, 30378921002, 30378921003, 30378921004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.377 ± 0.403 (0.842) C:75% T:80%	pCi/L	09/03/20 11:21	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: EO-432391
Pace Project No.: 30378921

QC Batch: 412668
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: 30378921001, 30378921002, 30378921003, 30378921004

METHOD BLANK: 1995867 Matrix: Water
Associated Lab Samples: 30378921001, 30378921002, 30378921003, 30378921004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	0.122 ± 0.208 (0.409) C:NA T:NA	pCi/L	09/09/20 18:41	
Gross Beta	0.358 ± 0.320 (0.589) C:NA T:NA	pCi/L	09/09/20 18:41	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: EO-432391
Pace Project No.: 30378921

QC Batch: 412033
QC Batch Method: EPA 906.0
Analysis Method: EPA 906.0
Analysis Description: 906.0 Tritium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30378921001, 30378921002, 30378921003, 30378921004

METHOD BLANK: 1993027 Matrix: Water
Associated Lab Samples: 30378921001, 30378921002, 30378921003, 30378921004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Tritium	-20.0 ± 127 (226) C:NA T:NA	pCi/L	09/05/20 16:34	

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QUALIFIERS

Project: EO-432391
Pace Project No.: 30378921

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.

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.

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ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
Pace Labs - PA
1638 Roseytown Rd.
Suite 2, 3, 4
Greensburg, PA 15601
ATTN: Jacquelyn Collins
PO #: 1055970

Results Due: Standard TAT
Report Level: II
Report To: MDL
EDDs:

Enthalpy Order: EO-432391
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

WO# : 30378921

30378921

Notes:
Strontium-90: ASTM D5811-95 is o.k. if matrix calls for it instead of EPA 905.0
Uranium: ASTM D5174-97 is o.k. if matrix calls for it instead of EPA 908.0

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
SMBRP-9	18-AUG-2020 09:05	432391-001	1	Water	EPA 900.0 Gross Alpha and Beta	
				Water	EPA 903.1 Radium-226	
				Water	EPA 904.0 Radium-228	
				Water	EPA 905.0 Strontium-90	001
				Water	EPA 906.0 Tritium	
				Water	EPA 908.0 - Uranium in Drinking Water	
MCWP-MW07S	18-AUG-2020 10:45	432391-002	1	Water	EPA 900.0 Gross Alpha and Beta	
				Water	EPA 903.1 Radium-226	
				Water	EPA 904.0 Radium-228	
				Water	EPA 905.0 Strontium-90	002
				Water	EPA 906.0 Tritium	
				Water	EPA 908.0 - Uranium in Drinking Water	
MCWP-MW07D	18-AUG-2020 11:50	432391-003	1	Water	EPA 900.0 Gross Alpha and Beta	
				Water	EPA 903.1 Radium-226	
				Water	EPA 904.0 Radium-228	
				Water	EPA 905.0 Strontium-90	003
				Water	EPA 906.0 Tritium	
				Water	EPA 908.0 - Uranium in Drinking Water	
MCWP-MW04S	18-AUG-2020 12:30	432391-004	1	Water	EPA 900.0 Gross Alpha and Beta	
				Water	EPA 903.1 Radium-226	
				Water	EPA 904.0 Radium-228	
				Water	EPA 905.0 Strontium-90	004
				Water	EPA 906.0 Tritium	
				Water	EPA 908.0 - Uranium in Drinking Water	

30378921

Notes:	Relinquished By:	Received By:
		Fed Ex 7713 1645 9610
	Date: 8/20/20 1200	Date: 8/20/20
	Date:	Date: 8/21/2020 945
		8/21/2020 10:20
	Date:	Date:

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Enthalpy

Project # #30378921

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

Label: MF

Tracking #: 771316459610

LIMS Login: MF

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#: 1085191 Date and Initials of person examining contents: MF 8/24/2020

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. added 5 mL of HNO3 to 4 sample bottle in each sample
All containers meet method preservation requirements.		✓		Initial when completed: MF Date/time of preservation: 8/24/2020 Lot # of added preservative: DL20 0841
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: MF Date: 8/24/2020

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.

Laboratory Job Number 432391

Subcontracted Products

Weck Laboratories, Inc.

WECK LABORATORIES, INC.

Certificate of Analysis

PRELIMINARY REPORT

Work Orders: 0H20067

Project: EO-432391

Attn: Ranjit Clarke

Client: Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Report Date: 9/22/2020
Received Date: 8/20/2020
Turnaround Time: Normal
Phones: (714) 771-6900
Fax: (714) 771-9933
P.O. #: 1055973
Billing Code:

DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH # • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • SCAQMD #93LA1006

This is a preliminary report and is produced for review and guidance purpose only and should not be considered final. Information in this report may be missing or may be changed. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories DOES NOT certify that the test results meet all requirements of TNI. Neither Weck Laboratories, Inc. nor any of its employees, contractors, subcontractors, or their employees make any warrant, expressed or implied, or assume any legal liability or responsibility for use of any information inscribed in this report.

Dear Ranjit Clarke,

Enclosed are the results of analyses for samples received 8/20/20 with the Chain-of-Custody document. The samples were received in good condition, at 3.7 °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:

DRAFT REPORT
DATA SUBJECT TO CHANGE

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Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-432391

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:25

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
SMBRP-9, Alias: 432391-001	Client	0H20067-01	Water	08/18/20 09:05	
SMBRP-9 Travel Blank, Alias: 432391-001	Client	0H20067-02	Water	08/18/20 09:05	
MCWP-MW07S, Alias: 432391-002	Client	0H20067-03	Water	08/18/20 10:45	
MCWP-MW07S Travel Blank, Alias: 432391-002	Client	0H20067-04	Water	08/18/20 10:45	
MCWP-MW07D, Alias: 432391-003	Client	0H20067-05	Water	08/18/20 11:50	
MCWP-MW07D Travel Blank, Alias: 432391-003	Client	0H20067-06	Water	08/18/20 11:50	
MCWP-MW04S, Alias: 432391-004	Client	0H20067-07	Water	08/18/20 12:30	
MCWP-MW04S Travel Blank, Alias: 432391-004	Client	0H20067-08	Water	08/18/20 12:30	

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Enthalpy Analytical - Orange
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Orange, CA 92868

Project Number: EO-432391

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:25

Sample Results

Sample: SMBRP-9, Alias: 432391-001
0H20067-01 (Water)

Sampled: 08/18/20 9:05 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS						
Method: EPA 625.1		**Instr:** GCMS06				
Batch ID: W0H1350 **Preparation:** EPA 625/L-L SF		**Prepared:** 08/25/20 09:10				**Analyst:** rmr
1,2,4-Trichlorobenzene	ND	1.0	ug/l	1	09/15/20	
1,2-Dichlorobenzene	ND	1.0	ug/l	1	09/15/20	
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	ug/l	1	09/15/20	
1,3-Dichlorobenzene	ND	1.0	ug/l	1	09/15/20	
1,4-Dichlorobenzene	ND	1.0	ug/l	1	09/15/20	
2,4,6-Trichlorophenol	ND	1.0	ug/l	1	09/15/20	
2,4-Dichlorophenol	ND	1.0	ug/l	1	09/15/20	
2,4-Dimethylphenol	ND	1.0	ug/l	1	09/15/20	
2,4-Dinitrophenol	ND	5.0	ug/l	1	09/15/20	
2,4-Dinitrotoluene	ND	1.0	ug/l	1	09/15/20	
2,6-Dinitrotoluene	ND	1.0	ug/l	1	09/15/20	
2-Chloronaphthalene	ND	1.0	ug/l	1	09/15/20	
2-Chlorophenol	ND	1.0	ug/l	1	09/15/20	
2-Methyl-4,6-dinitrophenol	ND	1.0	ug/l	1	09/15/20	
2-Nitrophenol	ND	1.0	ug/l	1	09/15/20	
3,3'-Dichlorobenzidine	ND	1.0	ug/l	1	09/15/20	
4-Bromophenyl phenyl ether	ND	1.0	ug/l	1	09/15/20	
4-Chloro-3-methylphenol	ND	1.0	ug/l	1	09/15/20	
4-Chlorophenyl phenyl ether	ND	1.0	ug/l	1	09/15/20	
4-Nitrophenol	ND	2.0	ug/l	1	09/15/20	
Acenaphthene	ND	1.0	ug/l	1	09/15/20	
Acenaphthylene	ND	1.0	ug/l	1	09/15/20	
Anthracene	ND	1.0	ug/l	1	09/15/20	
Benzidine	ND	10	ug/l	1	09/15/20	
Benzo (a) anthracene	ND	1.0	ug/l	1	09/15/20	
Benzo (a) pyrene	ND	1.0	ug/l	1	09/15/20	
Benzo (b) fluoranthene	ND	1.0	ug/l	1	09/15/20	
Benzo (g,h,i) perylene	ND	1.0	ug/l	1	09/15/20	
Benzo (k) fluoranthene	ND	1.0	ug/l	1	09/15/20	
Bis(2-chloroethoxy)methane	ND	1.0	ug/l	1	09/15/20	
Bis(2-chloroethyl)ether	ND	1.0	ug/l	1	09/15/20	
Bis(2-chloroisopropyl)ether	ND	1.0	ug/l	1	09/15/20	
Bis(2-ethylhexyl)phthalate	ND	2.0	ug/l	1	09/15/20	
Butyl benzyl phthalate	ND	1.0	ug/l	1	09/15/20	
Chrysene	ND	1.0	ug/l	1	09/15/20	

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-432391

Project Manager: Ranjit Clarke

Reported: 09/22/2020 09:25

Sample Results

(Continued)

Sample: SMBRP-9, Alias: 432391-001
0H20067-01 (Water)

Sampled: 08/18/20 9:05 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS (Continued)						
Method: EPA 625.1		**Instr:** GCMS06				
Batch ID: W0H1350 **Preparation:** EPA 625/L-L SF		**Prepared:** 08/25/20 09:10				**Analyst:** rmr
Dibenzo (a,h) anthracene	ND	1.0	ug/l	1	09/15/20	
Diethyl phthalate	ND	1.0	ug/l	1	09/15/20	
Dimethyl phthalate	ND	1.0	ug/l	1	09/15/20	
Di-n-butyl phthalate	ND	1.0	ug/l	1	09/15/20	
Di-n-octyl phthalate	ND	1.0	ug/l	1	09/15/20	
Fluoranthene	ND	1.0	ug/l	1	09/15/20	
Fluorene	ND	1.0	ug/l	1	09/15/20	
Hexachlorobenzene	ND	1.0	ug/l	1	09/15/20	
Hexachlorobutadiene	ND	1.0	ug/l	1	09/15/20	
Hexachlorocyclopentadiene	ND	5.0	ug/l	1	09/15/20	
Hexachloroethane	ND	1.0	ug/l	1	09/15/20	
Indeno (1,2,3-cd) pyrene	ND	1.0	ug/l	1	09/15/20	
Isophorone	ND	1.0	ug/l	1	09/15/20	
Naphthalene	ND	1.0	ug/l	1	09/15/20	
Nitrobenzene	ND	1.0	ug/l	1	09/15/20	
N-Nitrosodimethylamine	ND	1.0	ug/l	1	09/15/20	
N-Nitrosodi-n-propylamine	ND	1.0	ug/l	1	09/15/20	
N-Nitrosodiphenylamine	ND	1.0	ug/l	1	09/15/20	
Pentachlorophenol	ND	1.0	ug/l	1	09/15/20	
Phenanthrene	ND	1.0	ug/l	1	09/15/20	
Phenol	ND	1.0	ug/l	1	09/15/20	
Pyrene	ND	1.0	ug/l	1	09/15/20	
Surrogate(s)						
2,4,6-Tribromophenol	*59%*	*Conc: 29.6*	*25-120*		*09/15/20*	
2-Fluorobiphenyl	*63%*	*Conc: 15.7*	*22-120*		*09/15/20*	
2-Fluorophenol	*49%*	*Conc: 24.3*	*17-120*		*09/15/20*	
Nitrobenzene-d5	*66%*	*Conc: 16.4*	*47-120*		*09/15/20*	
Phenol-d5	*30%*	*Conc: 14.9*	*12-120*		*09/15/20*	
Terphenyl-d14	*73%*	*Conc: 18.2*	*44-129*		*09/15/20*	
Carbamates and Urea Pesticides						
Method: EPA 531.2		**Instr:** LC10				
Batch ID: W0I0178 **Preparation:** _NONE (LC)		**Prepared:** 09/02/20 15:04				**Analyst:** jan
3-Hydroxycarbofuran	ND	2.0	ug/l	1	09/09/20	
Aldicarb	ND	2.0	ug/l	1	09/09/20	
Aldicarb sulfone	ND	2.0	ug/l	1	09/09/20	

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Project Number: EO-432391

Project Manager: Ranjit Clarke

Reported: 09/22/2020 09:25

Sample Results

(Continued)

Sample: SMBRP-9, Alias: 432391-001
0H20067-01 (Water)

Sampled: 08/18/20 9:05 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Carbamates and Urea Pesticides (Continued)						
Method: EPA 531.2		**Instr:** LC10				
Batch ID: W0I0178 **Preparation:** _NONE (LC)		**Prepared:** 09/02/20 15:04			**Analyst:** jan	
Aldicarb sulfoxide	ND	2.0	ug/l	1	09/09/20	
Carbaryl	ND	2.0	ug/l	1	09/09/20	
Carbofuran	ND	2.0	ug/l	1	09/09/20	
Methiocarb	ND	2.0	ug/l	1	09/09/20	
Methomyl	ND	2.0	ug/l	1	09/09/20	
Oxamyl	ND	2.0	ug/l	1	09/09/20	
Propoxur (Baygon)	ND	2.0	ug/l	1	09/09/20	
Surrogate(s)						
BDMC	*97%*	*Conc: 9.73*	*70-130*		*09/09/20*	
Chlorinated Acids Herbicides by GC/ECD						
Method: EPA 515.4		**Instr:** GC08				
Batch ID: W0I0008 **Preparation:** EPA 515.4/Micro Ext. Drtz		**Prepared:** 09/01/20 08:17			**Analyst:** amw	
2,4,5-T	ND	0.20	ug/l	1	09/02/20	
2,4,5-TP (Silvex)	ND	0.20	ug/l	1	09/02/20	
2,4-D	ND	0.40	ug/l	1	09/02/20	
2,4-DB	ND	2.0	ug/l	1	09/02/20	
3,5-Dichlorobenzoic acid	ND	1.0	ug/l	1	09/02/20	
Acifluorfen	ND	0.40	ug/l	1	09/02/20	
Bentazon	ND	2.0	ug/l	1	09/02/20	
Dalapon	ND	1.0	ug/l	1	09/02/20	R-01
DCPA	ND	0.10	ug/l	1	09/02/20	
Dicamba	ND	0.60	ug/l	1	09/02/20	
Dichloroprop	ND	0.30	ug/l	1	09/02/20	
Dinoseb	ND	0.40	ug/l	1	09/02/20	
Pentachlorophenol	ND	0.20	ug/l	1	09/02/20	
Picloram	ND	0.60	ug/l	1	09/02/20	
Surrogate(s)						
2,4-DCAA	*118%*	*Conc: 11.8*	*70-130*		*09/02/20*	
Chlorinated Pesticides and/or PCBs by GC/ECD						
Method: EPA 508		**Instr:** GC07				
Batch ID: W0H1227 **Preparation:** EPA 508/L-L SF		**Prepared:** 08/21/20 12:21			**Analyst:** AMW	
4,4´-DDD	ND	0.10	ug/l	1	09/03/20	M-02
4,4´-DDE	ND	0.10	ug/l	1	09/03/20	M-02
4,4´-DDT	ND	0.10	ug/l	1	09/03/20	M-02
Aldrin	ND	0.10	ug/l	1	09/03/20	M-02
alpha-BHC	ND	0.10	ug/l	1	09/03/20	M-02

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Orange, CA 92868

Project Number: EO-432391

Project Manager: Ranjit Clarke

Reported: 09/22/2020 09:25

Sample Results

(Continued)

Sample: SMBRP-9, Alias: 432391-001
0H20067-01 (Water)

Sampled: 08/18/20 9:05 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)						
Method: EPA 508		**Instr:** GC07				
Batch ID: W0H1227 **Preparation:** EPA 508/L-L SF		**Prepared:** 08/21/20 12:21			**Analyst:** AMW	
Aroclor 1016	ND	1.0	ug/l	1	09/03/20	M-02
Aroclor 1221	ND	1.0	ug/l	1	09/03/20	M-02
Aroclor 1232	ND	1.0	ug/l	1	09/03/20	M-02
Aroclor 1242	ND	1.0	ug/l	1	09/03/20	M-02
Aroclor 1248	ND	1.0	ug/l	1	09/03/20	M-02
Aroclor 1254	ND	1.0	ug/l	1	09/03/20	M-02
Aroclor 1260	ND	1.0	ug/l	1	09/03/20	M-02
beta-BHC	ND	0.10	ug/l	1	09/03/20	M-02
Chlordane (tech)	ND	1.0	ug/l	1	09/03/20	M-02
Chlorothalonil	ND	0.50	ug/l	1	09/03/20	M-02
delta-BHC	ND	0.10	ug/l	1	09/03/20	M-02
Dieldrin	ND	0.10	ug/l	1	09/03/20	M-02
Endosulfan I	ND	0.10	ug/l	1	09/03/20	M-02
Endosulfan II	ND	0.10	ug/l	1	09/03/20	M-02
Endosulfan sulfate	ND	0.10	ug/l	1	09/03/20	M-02
Endrin	ND	0.10	ug/l	1	09/03/20	M-02
Endrin aldehyde	ND	0.10	ug/l	1	09/03/20	M-02
gamma-BHC (Lindane)	ND	0.10	ug/l	1	09/03/20	M-02
Heptachlor	ND	0.10	ug/l	1	09/03/20	M-02
Heptachlor epoxide	ND	0.10	ug/l	1	09/03/20	M-02
Hexachlorobenzene	ND	0.50	ug/l	1	09/03/20	M-02
Hexachlorocyclopentadiene	ND	0.50	ug/l	1	09/03/20	M-02
Methoxychlor	ND	0.10	ug/l	1	09/03/20	M-02
PCBs, Total	ND	5.0	ug/l	1	09/03/20	M-02
Propachlor	ND	0.50	ug/l	1	09/03/20	M-02
Toxaphene	ND	5.0	ug/l	1	09/03/20	M-02
Trifluralin	ND	0.10	ug/l	1	09/03/20	M-02
Surrogate(s)						
Decachlorobiphenyl	*73%*	*Conc: 0.728*	*70-130*		*09/03/20*	*M-02*
Tetrachloro-meta-xylene	*84%*	*Conc: 0.843*	*70-130*		*09/03/20*	*M-02*
Diquat and Paraquat by EPA 549.2						
Method: EPA 549.2		**Instr:** LC11				
Batch ID: W0H1195 **Preparation:** EPA 549.2/SPE		**Prepared:** 08/21/20 08:20			**Analyst:** jna	
Diquat	ND	4.0	ug/l	1	08/31/20	
Paraquat	ND	4.0	ug/l	1	08/31/20	

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931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-432391

Project Manager: Ranjit Clarke

Reported: 09/22/2020 09:25

Sample Results

(Continued)

Sample: SMBRP-9, Alias: 432391-001
0H20067-01 (Water)

Sampled: 08/18/20 9:05 by Client

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Endothall By EPA 548.1						
Method: EPA 548.1		**Instr:** GCMS06				
Batch ID: W0H1346 **Preparation:** EPA 548.1/SPE		**Prepared:** 08/25/20 08:03				**Analyst:** rmr
Endothall	ND	40	ug/l	1	08/27/20	
Glyphosate by EPA 547						
Method: EPA 547		**Instr:** LC10				
Batch ID: W0H1697 **Preparation:** _NONE (LC)		**Prepared:** 08/31/20 16:20				**Analyst:** jan
Glyphosate	ND	5.0	ug/l	1	08/31/20	
Haloacetic Acids (HAAs) by GC/ECD						
Method: EPA 552.3		**Instr:** GC05				
Batch ID: W0H1510 **Preparation:** EPA 552.3/Micro Ext. Drtz		**Prepared:** 08/27/20 08:26				**Analyst:** rjg
Dibromoacetic acid (dbaa)	ND	1.0	ug/l	1	08/29/20	
Dichloroacetic acid (dcaa)	ND	1.0	ug/l	1	08/29/20	
HAA5, Total	ND	1.0	ug/l	1	08/29/20	
Monobromoacetic acid (mbaa)	ND	1.0	ug/l	1	08/29/20	
Monochloroacetic acid (mcaa)	ND	2.0	ug/l	1	08/29/20	
Trichloroacetic acid (tcaa)	ND	1.0	ug/l	1	08/29/20	
Surrogate(s)						
2-Bromobutyric acid	*96%*	*Conc: 9.60*	*70-130*		*08/29/20*	
Hexavalent Chromium by IC						
Method: EPA 218.6		**Instr:** LC13				
Batch ID: W0I0002 **Preparation:** _NONE (LC)		**Prepared:** 09/01/20 00:27				**Analyst:** jan
Chromium 6+	**4.8**	0.020	ug/l	1	09/01/20	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 525.2		**Instr:** GCMS16				
Batch ID: W0H1512 **Preparation:** EPA 525.2/SPE		**Prepared:** 08/28/20 09:08				**Analyst:** rmr
Alachlor	ND	0.50	ug/l	1	09/01/20	M-02
Atrazine	ND	0.50	ug/l	1	09/01/20	M-02
Benzo (a) pyrene	ND	0.50	ug/l	1	09/01/20	M-02
Bis(2-ethylhexyl)adipate	ND	2.5	ug/l	1	09/01/20	M-02
Bis(2-ethylhexyl)phthalate	ND	2.5	ug/l	1	09/01/20	M-02
Bromacil	ND	2.5	ug/l	1	09/01/20	M-02
Butachlor	ND	0.50	ug/l	1	09/01/20	M-02
Captan	ND	5.0	ug/l	1	09/01/20	M-02
Chlorpropham	ND	0.50	ug/l	1	09/01/20	M-02
Cyanazine	ND	0.50	ug/l	1	09/01/20	M-02
Diazinon	ND	0.50	ug/l	1	09/01/20	M-02
Dimethoate	ND	1.0	ug/l	1	09/01/20	M-02
Diphenamid	ND	0.50	ug/l	1	09/01/20	M-02

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Sample Results

(Continued)

Sample: SMBRP-9, Alias: 432391-001
0H20067-01 (Water)

Sampled: 08/18/20 9:05 by Client

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organic Compounds by GC/MS (Continued)						
Method: EPA 525.2		**Instr:** GCMS16				
Batch ID: W0H1512 **Preparation:** EPA 525.2/SPE		**Prepared:** 08/28/20 09:08				**Analyst:** rmr
Disulfoton	ND	0.50	ug/l	1	09/01/20	M-02
EPTC	ND	0.50	ug/l	1	09/01/20	M-02
Metolachlor	ND	0.50	ug/l	1	09/01/20	M-02
Metribuzin	ND	0.50	ug/l	1	09/01/20	M-02
Molinate	ND	0.50	ug/l	1	09/01/20	M-02
Prometon	ND	0.50	ug/l	1	09/01/20	M-02
Prometryn	ND	0.50	ug/l	1	09/01/20	M-02
Simazine	ND	0.50	ug/l	1	09/01/20	M-02
Terbacil	ND	10	ug/l	1	09/01/20	M-02
Thiobencarb	ND	0.50	ug/l	1	09/01/20	M-02
Trithion	ND	0.50	ug/l	1	09/01/20	M-02
Surrogate(s)						
1,3-Dimethyl-2-nitrobenzene	*104%*	*Conc: 26.0*	*70-130*		*09/01/20*	*M-02*
Perylene-d12	*32%*	*Conc: 7.89*	*50-120*		*09/01/20*	*M-02, S-GC*
Triphenyl phosphate	*93%*	*Conc: 23.2*	*70-130*		*09/01/20*	*M-02*
Volatile Organics by P&T and GC/MS						
Method: EPA 524.3		**Instr:** GCMS04				
Batch ID: W0H1345 **Preparation:** EPA 524.2 P&T		**Prepared:** 08/25/20 07:48				**Analyst:** adm
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l	1	08/25/20	
1,2-Dibromoethane (EDB)	ND	0.020	ug/l	1	08/25/20	

Sample: SMBRP-9, Alias: 432391-001
0H20067-01RE1 (Water)

Sampled: 08/18/20 9:05 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Anions by IC, EPA Method 300.1						
Method: EPA 300.1		**Instr:** LC08_Channel2				
Batch ID: W0H1446 **Preparation:** _NONE (LC)		**Prepared:** 08/26/20 09:34				**Analyst:** jan
Bromate	ND	50	ug/l	10	08/27/20	M-05
Chlorite	ND	100	ug/l	10	08/27/20	M-05
Surrogate(s)						
Dichloroacetate	*104%*	*Conc: 519*	*90-115*		*08/27/20*	
Nitrosamines by isotopic dilution GC/MS CI Mode						
Method: EPA 1625M		**Instr:** GCMS09				
Batch ID: W0H1369 **Preparation:** EPA 3535/SPE		**Prepared:** 08/25/20 10:29				**Analyst:** mld
N-Nitrosodimethylamine	ND	2.0	ng/l	1	08/31/20	

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Project Number: EO-432391

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:25

Sample Results

(Continued)

Sample: SMBRP-9 Travel Blank, Alias: 432391-001
0H20067-02 (Water)

Sampled: 08/18/20 9:05 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organics by P&T and GC/MS						
Method: EPA 524.3		**Instr:** GCMS04				
Batch ID: W0H1345 **Preparation:** EPA 524.2 P&T		**Prepared:** 08/25/20 07:48				**Analyst:** adm
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l	1	08/25/20	
1,2-Dibromoethane (EDB)	ND	0.020	ug/l	1	08/25/20	

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Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:25

Sample Results

(Continued)

Sample: MCWP-MW07S, Alias: 432391-002
0H20067-03 (Water)

Sampled: 08/18/20 10:45 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS						
Method: EPA 625.1		**Instr:** GCMS06				
Batch ID: W0H1350 **Preparation:** EPA 625/L-L SF		**Prepared:** 08/25/20 09:10				**Analyst:** rmr
1,2,4-Trichlorobenzene	ND	1.0	ug/l	1	09/15/20	
1,2-Dichlorobenzene	ND	1.0	ug/l	1	09/15/20	
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	ug/l	1	09/15/20	
1,3-Dichlorobenzene	ND	1.0	ug/l	1	09/15/20	
1,4-Dichlorobenzene	ND	1.0	ug/l	1	09/15/20	
2,4,6-Trichlorophenol	ND	1.0	ug/l	1	09/15/20	
2,4-Dichlorophenol	ND	1.0	ug/l	1	09/15/20	
2,4-Dimethylphenol	ND	1.0	ug/l	1	09/15/20	
2,4-Dinitrophenol	ND	5.0	ug/l	1	09/15/20	
2,4-Dinitrotoluene	ND	1.0	ug/l	1	09/15/20	
2,6-Dinitrotoluene	ND	1.0	ug/l	1	09/15/20	
2-Chloronaphthalene	ND	1.0	ug/l	1	09/15/20	
2-Chlorophenol	ND	1.0	ug/l	1	09/15/20	
2-Methyl-4,6-dinitrophenol	ND	1.0	ug/l	1	09/15/20	
2-Nitrophenol	ND	1.0	ug/l	1	09/15/20	
3,3'-Dichlorobenzidine	ND	1.0	ug/l	1	09/15/20	
4-Bromophenyl phenyl ether	ND	1.0	ug/l	1	09/15/20	
4-Chloro-3-methylphenol	ND	1.0	ug/l	1	09/15/20	
4-Chlorophenyl phenyl ether	ND	1.0	ug/l	1	09/15/20	
4-Nitrophenol	ND	2.0	ug/l	1	09/15/20	
Acenaphthene	ND	1.0	ug/l	1	09/15/20	
Acenaphthylene	ND	1.0	ug/l	1	09/15/20	
Anthracene	ND	1.0	ug/l	1	09/15/20	
Benzidine	ND	10	ug/l	1	09/15/20	
Benzo (a) anthracene	ND	1.0	ug/l	1	09/15/20	
Benzo (a) pyrene	ND	1.0	ug/l	1	09/15/20	
Benzo (b) fluoranthene	ND	1.0	ug/l	1	09/15/20	
Benzo (g,h,i) perylene	ND	1.0	ug/l	1	09/15/20	
Benzo (k) fluoranthene	ND	1.0	ug/l	1	09/15/20	
Bis(2-chloroethoxy)methane	ND	1.0	ug/l	1	09/15/20	
Bis(2-chloroethyl)ether	ND	1.0	ug/l	1	09/15/20	
Bis(2-chloroisopropyl)ether	ND	1.0	ug/l	1	09/15/20	
Bis(2-ethylhexyl)phthalate	ND	2.0	ug/l	1	09/15/20	
Butyl benzyl phthalate	ND	1.0	ug/l	1	09/15/20	
Chrysene	ND	1.0	ug/l	1	09/15/20	

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Project Number: EO-432391

Project Manager: Ranjit Clarke

Reported:
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Sample Results

(Continued)

Sample: MCWP-MW07S, Alias: 432391-002
0H20067-03 (Water)

Sampled: 08/18/20 10:45 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS (Continued)						
Method: EPA 625.1		**Instr:** GCMS06				
Batch ID: W0H1350 **Preparation:** EPA 625/L-L SF		**Prepared:** 08/25/20 09:10				**Analyst:** rmr
Dibenzo (a,h) anthracene	ND	1.0	ug/l	1	09/15/20	
Diethyl phthalate	ND	1.0	ug/l	1	09/15/20	
Dimethyl phthalate	ND	1.0	ug/l	1	09/15/20	
Di-n-butyl phthalate	ND	1.0	ug/l	1	09/15/20	
Di-n-octyl phthalate	ND	1.0	ug/l	1	09/15/20	
Fluoranthene	ND	1.0	ug/l	1	09/15/20	
Fluorene	ND	1.0	ug/l	1	09/15/20	
Hexachlorobenzene	ND	1.0	ug/l	1	09/15/20	
Hexachlorobutadiene	ND	1.0	ug/l	1	09/15/20	
Hexachlorocyclopentadiene	ND	5.0	ug/l	1	09/15/20	
Hexachloroethane	ND	1.0	ug/l	1	09/15/20	
Indeno (1,2,3-cd) pyrene	ND	1.0	ug/l	1	09/15/20	
Isophorone	ND	1.0	ug/l	1	09/15/20	
Naphthalene	ND	1.0	ug/l	1	09/15/20	
Nitrobenzene	ND	1.0	ug/l	1	09/15/20	
N-Nitrosodimethylamine	ND	1.0	ug/l	1	09/15/20	
N-Nitrosodi-n-propylamine	ND	1.0	ug/l	1	09/15/20	
N-Nitrosodiphenylamine	ND	1.0	ug/l	1	09/15/20	
Pentachlorophenol	ND	1.0	ug/l	1	09/15/20	
Phenanthrene	ND	1.0	ug/l	1	09/15/20	
Phenol	ND	1.0	ug/l	1	09/15/20	
Pyrene	ND	1.0	ug/l	1	09/15/20	
Surrogate(s)						
2,4,6-Tribromophenol	*65%*	*Conc: 32.6*	*25-120*		*09/15/20*	
2-Fluorobiphenyl	*64%*	*Conc: 16.0*	*22-120*		*09/15/20*	
2-Fluorophenol	*49%*	*Conc: 24.4*	*17-120*		*09/15/20*	
Nitrobenzene-d5	*68%*	*Conc: 16.9*	*47-120*		*09/15/20*	
Phenol-d5	*31%*	*Conc: 15.5*	*12-120*		*09/15/20*	
Terphenyl-d14	*80%*	*Conc: 20.0*	*44-129*		*09/15/20*	
Carbamates and Urea Pesticides						
Method: EPA 531.2		**Instr:** LC10				
Batch ID: W0I0178 **Preparation:** _NONE (LC)		**Prepared:** 09/02/20 15:04				**Analyst:** jan
3-Hydroxycarbofuran	ND	2.0	ug/l	1	09/09/20	
Aldicarb	ND	2.0	ug/l	1	09/09/20	
Aldicarb sulfone	ND	2.0	ug/l	1	09/09/20	

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Sample Results

(Continued)

Sample: MCWP-MW07S, Alias: 432391-002
0H20067-03 (Water)

Sampled: 08/18/20 10:45 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Carbamates and Urea Pesticides (Continued)						
Method: EPA 531.2		**Instr:** LC10				
Batch ID: W0I0178 **Preparation:** _NONE (LC)		**Prepared:** 09/02/20 15:04			**Analyst:** jan	
Aldicarb sulfoxide	ND	2.0	ug/l	1	09/09/20	
Carbaryl	ND	2.0	ug/l	1	09/09/20	
Carbofuran	ND	2.0	ug/l	1	09/09/20	
Methiocarb	ND	2.0	ug/l	1	09/09/20	
Methomyl	ND	2.0	ug/l	1	09/09/20	
Oxamyl	ND	2.0	ug/l	1	09/09/20	
Propoxur (Baygon)	ND	2.0	ug/l	1	09/09/20	
Surrogate(s)						
BDMC	*100%*	*Conc: 9.97*	*70-130*		*09/09/20*	
Chlorinated Acids Herbicides by GC/ECD						
Method: EPA 515.4		**Instr:** GC08				
Batch ID: W0I0008 **Preparation:** EPA 515.4/Micro Ext. Drtz		**Prepared:** 09/01/20 08:17			**Analyst:** amw	
2,4,5-T	ND	0.20	ug/l	1	09/02/20	
2,4,5-TP (Silvex)	ND	0.20	ug/l	1	09/02/20	
2,4-D	ND	0.40	ug/l	1	09/02/20	
2,4-DB	ND	2.0	ug/l	1	09/02/20	
3,5-Dichlorobenzoic acid	ND	1.0	ug/l	1	09/02/20	
Acifluorfen	ND	0.40	ug/l	1	09/02/20	
Bentazon	ND	2.0	ug/l	1	09/02/20	
Dalapon	ND	0.60	ug/l	1	09/02/20	R-01
DCPA	ND	0.10	ug/l	1	09/02/20	
Dicamba	ND	0.60	ug/l	1	09/02/20	
Dichloroprop	ND	0.30	ug/l	1	09/02/20	
Dinoseb	ND	0.40	ug/l	1	09/02/20	
Pentachlorophenol	ND	0.20	ug/l	1	09/02/20	
Picloram	ND	0.60	ug/l	1	09/02/20	
Surrogate(s)						
2,4-DCAA	*129%*	*Conc: 12.9*	*70-130*		*09/02/20*	
Chlorinated Pesticides and/or PCBs by GC/ECD						
Method: EPA 508		**Instr:** GC07				
Batch ID: W0H1227 **Preparation:** EPA 508/L-L SF		**Prepared:** 08/21/20 12:21			**Analyst:** AMW	
4,4´-DDD	ND	0.10	ug/l	1	09/03/20	M-02
4,4´-DDE	ND	0.10	ug/l	1	09/03/20	M-02
4,4´-DDT	ND	0.10	ug/l	1	09/03/20	M-02
Aldrin	ND	0.10	ug/l	1	09/03/20	M-02
alpha-BHC	ND	0.10	ug/l	1	09/03/20	M-02

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Sample Results

(Continued)

Sample: MCWP-MW07S, Alias: 432391-002
0H20067-03 (Water)

Sampled: 08/18/20 10:45 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)						
Method: EPA 508		**Instr:** GC07				
Batch ID: W0H1227 **Preparation:** EPA 508/L-L SF		**Prepared:** 08/21/20 12:21				**Analyst:** AMW
Aroclor 1016	ND	1.0	ug/l	1	09/03/20	M-02
Aroclor 1221	ND	1.0	ug/l	1	09/03/20	M-02
Aroclor 1232	ND	1.0	ug/l	1	09/03/20	M-02
Aroclor 1242	ND	1.0	ug/l	1	09/03/20	M-02
Aroclor 1248	ND	1.0	ug/l	1	09/03/20	M-02
Aroclor 1254	ND	1.0	ug/l	1	09/03/20	M-02
Aroclor 1260	ND	1.0	ug/l	1	09/03/20	M-02
beta-BHC	ND	0.10	ug/l	1	09/03/20	M-02
Chlordane (tech)	ND	1.0	ug/l	1	09/03/20	M-02
Chlorothalonil	ND	0.50	ug/l	1	09/03/20	M-02
delta-BHC	ND	0.10	ug/l	1	09/03/20	M-02
Dieldrin	ND	0.10	ug/l	1	09/03/20	M-02
Endosulfan I	ND	0.10	ug/l	1	09/03/20	M-02
Endosulfan II	ND	0.10	ug/l	1	09/03/20	M-02
Endosulfan sulfate	ND	0.10	ug/l	1	09/03/20	M-02
Endrin	ND	0.10	ug/l	1	09/03/20	M-02
Endrin aldehyde	ND	0.10	ug/l	1	09/03/20	M-02
gamma-BHC (Lindane)	ND	0.10	ug/l	1	09/03/20	M-02
Heptachlor	ND	0.10	ug/l	1	09/03/20	M-02
Heptachlor epoxide	ND	0.10	ug/l	1	09/03/20	M-02
Hexachlorobenzene	ND	0.50	ug/l	1	09/03/20	M-02
Hexachlorocyclopentadiene	ND	0.50	ug/l	1	09/03/20	M-02
Methoxychlor	ND	0.10	ug/l	1	09/03/20	M-02
PCBs, Total	ND	5.0	ug/l	1	09/03/20	M-02
Propachlor	ND	0.50	ug/l	1	09/03/20	M-02
Toxaphene	ND	5.0	ug/l	1	09/03/20	M-02
Trifluralin	ND	0.10	ug/l	1	09/03/20	M-02
Surrogate(s)						
Decachlorobiphenyl	*85%*	*Conc: 0.849*	*70-130*		*09/03/20*	*M-02*
Tetrachloro-meta-xylene	*79%*	*Conc: 0.792*	*70-130*		*09/03/20*	*M-02*
Diquat and Paraquat by EPA 549.2						
Method: EPA 549.2		**Instr:** LC11				
Batch ID: W0H1195 **Preparation:** EPA 549.2/SPE		**Prepared:** 08/21/20 08:20				**Analyst:** jna
Diquat	ND	4.0	ug/l	1	08/31/20	
Paraquat	ND	4.0	ug/l	1	08/31/20	

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Project Number: EO-432391

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Sample Results

(Continued)

Sample: MCWP-MW07S, Alias: 432391-002
0H20067-03 (Water)

Sampled: 08/18/20 10:45 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Endothall By EPA 548.1						
Method: EPA 548.1		**Instr:** GCMS06				
Batch ID: W0H1346 **Preparation:** EPA 548.1/SPE		**Prepared:** 08/25/20 08:03				**Analyst:** rmr
Endothall	ND	40	ug/l	1	08/27/20	
Glyphosate by EPA 547						
Method: EPA 547		**Instr:** LC10				
Batch ID: W0H1697 **Preparation:** _NONE (LC)		**Prepared:** 08/31/20 16:20				**Analyst:** jan
Glyphosate	ND	5.0	ug/l	1	08/31/20	
Haloacetic Acids (HAAs) by GC/ECD						
Method: EPA 552.3		**Instr:** GC05				
Batch ID: W0H1510 **Preparation:** EPA 552.3/Micro Ext. Drtz		**Prepared:** 08/27/20 08:26				**Analyst:** rjg
Dibromoacetic acid (dbaa)	ND	1.0	ug/l	1	08/29/20	
Dichloroacetic acid (dcaa)	ND	1.0	ug/l	1	08/29/20	
HAA5, Total	ND	1.0	ug/l	1	08/29/20	
Monobromoacetic acid (mbaa)	ND	1.0	ug/l	1	08/29/20	
Monochloroacetic acid (mcaa)	ND	2.0	ug/l	1	08/29/20	
Trichloroacetic acid (tcaa)	ND	1.0	ug/l	1	08/29/20	
Surrogate(s)						
2-Bromobutyric acid	*94%*	*Conc: 9.43*	*70-130*		*08/29/20*	
Hexavalent Chromium by IC						
Method: EPA 218.6		**Instr:** LC13				
Batch ID: W0I0002 **Preparation:** _NONE (LC)		**Prepared:** 09/01/20 00:27				**Analyst:** jan
Chromium 6+	**0.086**	0.020	ug/l	1	09/01/20	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 525.2		**Instr:** GCMS16				
Batch ID: W0H1512 **Preparation:** EPA 525.2/SPE		**Prepared:** 08/28/20 09:08				**Analyst:** rmr
Alachlor	ND	0.50	ug/l	1	09/01/20	M-02
Atrazine	ND	0.50	ug/l	1	09/01/20	M-02
Benzo (a) pyrene	ND	0.50	ug/l	1	09/01/20	M-02
Bis(2-ethylhexyl)adipate	ND	2.5	ug/l	1	09/01/20	M-02
Bis(2-ethylhexyl)phthalate	ND	2.5	ug/l	1	09/01/20	M-02
Bromacil	ND	2.5	ug/l	1	09/01/20	M-02
Butachlor	ND	0.50	ug/l	1	09/01/20	M-02
Captan	ND	5.0	ug/l	1	09/01/20	M-02
Chlorpropham	ND	0.50	ug/l	1	09/01/20	M-02
Cyanazine	ND	0.50	ug/l	1	09/01/20	M-02
Diazinon	ND	0.50	ug/l	1	09/01/20	M-02
Dimethoate	ND	1.0	ug/l	1	09/01/20	M-02
Diphenamid	ND	0.50	ug/l	1	09/01/20	M-02

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Sample Results

(Continued)

Sample: MCWP-MW07S, Alias: 432391-002
0H20067-03 (Water)

Sampled: 08/18/20 10:45 by Client

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organic Compounds by GC/MS (Continued)						
Method: EPA 525.2		**Instr:** GCMS16				
Batch ID: W0H1512 **Preparation:** EPA 525.2/SPE		**Prepared:** 08/28/20 09:08				**Analyst:** rmr
Disulfoton	ND	0.50	ug/l	1	09/01/20	M-02
EPTC	ND	0.50	ug/l	1	09/01/20	M-02
Metolachlor	ND	0.50	ug/l	1	09/01/20	M-02
Metribuzin	ND	0.50	ug/l	1	09/01/20	M-02
Molinate	ND	0.50	ug/l	1	09/01/20	M-02
Prometon	ND	0.50	ug/l	1	09/01/20	M-02
Prometryn	ND	0.50	ug/l	1	09/01/20	M-02
Simazine	ND	0.50	ug/l	1	09/01/20	M-02
Terbacil	ND	10	ug/l	1	09/01/20	M-02
Thiobencarb	ND	0.50	ug/l	1	09/01/20	M-02
Trithion	ND	0.50	ug/l	1	09/01/20	M-02
Surrogate(s)						
1,3-Dimethyl-2-nitrobenzene	*103%*	*Conc: 25.7*	*70-130*		*09/01/20*	*M-02*
Perylene-d12	*45%*	*Conc: 11.2*	*50-120*		*09/01/20*	*M-02, S-GC*
Triphenyl phosphate	*91%*	*Conc: 22.8*	*70-130*		*09/01/20*	*M-02*
Volatile Organics by P&T and GC/MS						
Method: EPA 524.3		**Instr:** GCMS04				
Batch ID: W0H1345 **Preparation:** EPA 524.2 P&T		**Prepared:** 08/25/20 07:48				**Analyst:** adm
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l	1	08/25/20	
1,2-Dibromoethane (EDB)	ND	0.020	ug/l	1	08/25/20	

Sample: MCWP-MW07S, Alias: 432391-002
0H20067-03RE1 (Water)

Sampled: 08/18/20 10:45 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Anions by IC, EPA Method 300.1						
Method: EPA 300.1		**Instr:** LC08_Channel2				
Batch ID: W0H1446 **Preparation:** _NONE (LC)		**Prepared:** 08/26/20 09:34				**Analyst:** jan
Bromate	ND	50	ug/l	10	08/27/20	M-05
Chlorite	ND	100	ug/l	10	08/27/20	M-05
Surrogate(s)						
Dichloroacetate	*94%*	*Conc: 470*	*90-115*		*08/27/20*	
Nitrosamines by isotopic dilution GC/MS CI Mode						
Method: EPA 1625M		**Instr:** GCMS09				
Batch ID: W0H1369 **Preparation:** EPA 3535/SPE		**Prepared:** 08/25/20 10:29				**Analyst:** mld
N-Nitrosodimethylamine	ND	2.0	ng/l	1	08/31/20	

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-432391

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:25

Sample Results

(Continued)

Sample: MCWP-MW07S Travel Blank, Alias: 432391-002
0H20067-04 (Water)

Sampled: 08/18/20 10:45 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organics by P&T and GC/MS						
Method: EPA 524.3		**Instr:** GCMS04				
Batch ID: W0H1345 **Preparation:** EPA 524.2 P&T		**Prepared:** 08/25/20 07:48				**Analyst:** adm
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l	1	08/25/20	
1,2-Dibromoethane (EDB)	ND	0.020	ug/l	1	08/25/20	

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Project Number: EO-432391

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:25

Sample Results

(Continued)

Sample: MCWP-MW07D, Alias: 432391-003
0H20067-05 (Water)

Sampled: 08/18/20 11:50 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS						
Method: EPA 625.1		**Instr:** GCMS06				
Batch ID: W0H1350 **Preparation:** EPA 625/L-L SF		**Prepared:** 08/25/20 09:10				**Analyst:** rmr
1,2,4-Trichlorobenzene	ND	1.0	ug/l	1	09/15/20	
1,2-Dichlorobenzene	ND	1.0	ug/l	1	09/15/20	
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	ug/l	1	09/15/20	
1,3-Dichlorobenzene	ND	1.0	ug/l	1	09/15/20	
1,4-Dichlorobenzene	ND	1.0	ug/l	1	09/15/20	
2,4,6-Trichlorophenol	ND	1.0	ug/l	1	09/15/20	
2,4-Dichlorophenol	ND	1.0	ug/l	1	09/15/20	
2,4-Dimethylphenol	ND	1.0	ug/l	1	09/15/20	
2,4-Dinitrophenol	ND	5.0	ug/l	1	09/15/20	
2,4-Dinitrotoluene	ND	1.0	ug/l	1	09/15/20	
2,6-Dinitrotoluene	ND	1.0	ug/l	1	09/15/20	
2-Chloronaphthalene	ND	1.0	ug/l	1	09/15/20	
2-Chlorophenol	ND	1.0	ug/l	1	09/15/20	
2-Methyl-4,6-dinitrophenol	ND	1.0	ug/l	1	09/15/20	
2-Nitrophenol	ND	1.0	ug/l	1	09/15/20	
3,3'-Dichlorobenzidine	ND	1.0	ug/l	1	09/15/20	
4-Bromophenyl phenyl ether	ND	1.0	ug/l	1	09/15/20	
4-Chloro-3-methylphenol	ND	1.0	ug/l	1	09/15/20	
4-Chlorophenyl phenyl ether	ND	1.0	ug/l	1	09/15/20	
4-Nitrophenol	ND	2.0	ug/l	1	09/15/20	
Acenaphthene	ND	1.0	ug/l	1	09/15/20	
Acenaphthylene	ND	1.0	ug/l	1	09/15/20	
Anthracene	ND	1.0	ug/l	1	09/15/20	
Benzidine	ND	10	ug/l	1	09/15/20	
Benzo (a) anthracene	ND	1.0	ug/l	1	09/15/20	
Benzo (a) pyrene	ND	1.0	ug/l	1	09/15/20	
Benzo (b) fluoranthene	ND	1.0	ug/l	1	09/15/20	
Benzo (g,h,i) perylene	ND	1.0	ug/l	1	09/15/20	
Benzo (k) fluoranthene	ND	1.0	ug/l	1	09/15/20	
Bis(2-chloroethoxy)methane	ND	1.0	ug/l	1	09/15/20	
Bis(2-chloroethyl)ether	ND	1.0	ug/l	1	09/15/20	
Bis(2-chloroisopropyl)ether	ND	1.0	ug/l	1	09/15/20	
Bis(2-ethylhexyl)phthalate	ND	2.0	ug/l	1	09/15/20	
Butyl benzyl phthalate	ND	1.0	ug/l	1	09/15/20	
Chrysene	ND	1.0	ug/l	1	09/15/20	

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Project Number: EO-432391

Project Manager: Ranjit Clarke

Reported:
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Sample Results

(Continued)

Sample: MCWP-MW07D, Alias: 432391-003
0H20067-05 (Water)

Sampled: 08/18/20 11:50 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS (Continued)						
Method: EPA 625.1		**Instr:** GCMS06				
Batch ID: W0H1350 **Preparation:** EPA 625/L-L SF		**Prepared:** 08/25/20 09:10				**Analyst:** rmr
Dibenzo (a,h) anthracene	ND	1.0	ug/l	1	09/15/20	
Diethyl phthalate	ND	1.0	ug/l	1	09/15/20	
Dimethyl phthalate	ND	1.0	ug/l	1	09/15/20	
Di-n-butyl phthalate	ND	1.0	ug/l	1	09/15/20	
Di-n-octyl phthalate	ND	1.0	ug/l	1	09/15/20	
Fluoranthene	ND	1.0	ug/l	1	09/15/20	
Fluorene	ND	1.0	ug/l	1	09/15/20	
Hexachlorobenzene	ND	1.0	ug/l	1	09/15/20	
Hexachlorobutadiene	ND	1.0	ug/l	1	09/15/20	
Hexachlorocyclopentadiene	ND	5.0	ug/l	1	09/15/20	
Hexachloroethane	ND	1.0	ug/l	1	09/15/20	
Indeno (1,2,3-cd) pyrene	ND	1.0	ug/l	1	09/15/20	
Isophorone	ND	1.0	ug/l	1	09/15/20	
Naphthalene	ND	1.0	ug/l	1	09/15/20	
Nitrobenzene	ND	1.0	ug/l	1	09/15/20	
N-Nitrosodimethylamine	ND	1.0	ug/l	1	09/15/20	
N-Nitrosodi-n-propylamine	ND	1.0	ug/l	1	09/15/20	
N-Nitrosodiphenylamine	ND	1.0	ug/l	1	09/15/20	
Pentachlorophenol	ND	1.0	ug/l	1	09/15/20	
Phenanthrene	ND	1.0	ug/l	1	09/15/20	
Phenol	ND	1.0	ug/l	1	09/15/20	
Pyrene	ND	1.0	ug/l	1	09/15/20	
Surrogate(s)						
2,4,6-Tribromophenol	*70%*	*Conc: 34.8*	*25-120*		*09/15/20*	
2-Fluorobiphenyl	*66%*	*Conc: 16.5*	*22-120*		*09/15/20*	
2-Fluorophenol	*50%*	*Conc: 24.9*	*17-120*		*09/15/20*	
Nitrobenzene-d5	*67%*	*Conc: 16.6*	*47-120*		*09/15/20*	
Phenol-d5	*33%*	*Conc: 16.5*	*12-120*		*09/15/20*	
Terphenyl-d14	*88%*	*Conc: 21.9*	*44-129*		*09/15/20*	
Anions by IC, EPA Method 300.1						
Method: EPA 300.1		**Instr:** LC08_Channel2				
Batch ID: W0H1446 **Preparation:** _NONE (LC)		**Prepared:** 08/26/20 09:34				**Analyst:** jan
Bromate	ND	5.0	ug/l	1	08/26/20	
Surrogate(s)						
Dichloroacetate	*106%*	*Conc: 531*	*90-115*		*08/26/20*	

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Project Number: EO-432391

Project Manager: Ranjit Clarke

Reported: 09/22/2020 09:25

Sample Results

(Continued)

Sample: MCWP-MW07D, Alias: 432391-003
0H20067-05 (Water)

Sampled: 08/18/20 11:50 by Client
(Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Carbamates and Urea Pesticides							
Method: EPA 531.2			**Instr:** LC10				
Batch ID: W0I0178 **Preparation:** _NONE (LC)			**Prepared:** 09/02/20 15:04				**Analyst:** jan
3-Hydroxycarbofuran	ND		2.0	ug/l	1	09/09/20	
Aldicarb	ND		2.0	ug/l	1	09/09/20	
Aldicarb sulfone	ND		2.0	ug/l	1	09/09/20	
Aldicarb sulfoxide	ND		2.0	ug/l	1	09/09/20	
Carbaryl	ND		2.0	ug/l	1	09/09/20	
Carbofuran	ND		2.0	ug/l	1	09/09/20	
Methiocarb	ND		2.0	ug/l	1	09/09/20	
Methomyl	ND		2.0	ug/l	1	09/09/20	
Oxamyl	ND		2.0	ug/l	1	09/09/20	
Propoxur (Baygon)	ND		2.0	ug/l	1	09/09/20	
Surrogate(s)							
BDMC	*102%*	*Conc: 10.2*	*70-130*			*09/09/20*	
Chlorinated Acids Herbicides by GC/ECD							
Method: EPA 515.4			**Instr:** GC08				
Batch ID: W0I0008 **Preparation:** EPA 515.4/Micro Ext. Drtz			**Prepared:** 09/01/20 08:17				**Analyst:** amw
2,4,5-T	ND		0.20	ug/l	1	09/02/20	
2,4,5-TP (Silvex)	ND		0.20	ug/l	1	09/02/20	
2,4-D	ND		0.40	ug/l	1	09/02/20	
2,4-DB	ND		2.0	ug/l	1	09/02/20	
3,5-Dichlorobenzoic acid	ND		1.0	ug/l	1	09/02/20	
Acifluorfen	ND		0.40	ug/l	1	09/02/20	
Bentazon	ND		2.0	ug/l	1	09/02/20	
Dalapon	ND		0.40	ug/l	1	09/02/20	
DCPA	ND		0.10	ug/l	1	09/02/20	
Dicamba	ND		0.60	ug/l	1	09/02/20	
Dichloroprop	ND		0.30	ug/l	1	09/02/20	
Dinoseb	ND		0.40	ug/l	1	09/02/20	
Pentachlorophenol	ND		0.20	ug/l	1	09/02/20	
Picloram	ND		0.60	ug/l	1	09/02/20	
Surrogate(s)							
2,4-DCAA	*128%*	*Conc: 12.8*	*70-130*			*09/02/20*	
Chlorinated Pesticides and/or PCBs by GC/ECD							
Method: EPA 508			**Instr:** GC07				
Batch ID: W0H1227 **Preparation:** EPA 508/L-L SF			**Prepared:** 08/21/20 12:21				**Analyst:** AMW
4,4´-DDD	ND		0.50	ug/l	50	09/03/20	M-04
4,4´-DDE	ND		0.50	ug/l	50	09/03/20	M-04

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Sample Results

(Continued)

Sample: MCWP-MW07D, Alias: 432391-003
0H20067-05 (Water)

Sampled: 08/18/20 11:50 by Client

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)						
Method: EPA 508		**Instr:** GC07				
Batch ID: W0H1227 **Preparation:** EPA 508/L-L SF		**Prepared:** 08/21/20 12:21			**Analyst:** AMW	
4,4´-DDT	ND	0.50	ug/l	50	09/03/20	M-04
Aldrin	ND	0.50	ug/l	50	09/03/20	M-04
alpha-BHC	ND	0.50	ug/l	50	09/03/20	M-04
Aroclor 1016	ND	50	ug/l	50	09/03/20	M-04, R-01
Aroclor 1221	ND	50	ug/l	50	09/03/20	M-04, R-01
Aroclor 1232	ND	50	ug/l	50	09/03/20	M-04, R-01
Aroclor 1242	ND	50	ug/l	50	09/03/20	M-04, R-01
Aroclor 1248	ND	50	ug/l	50	09/03/20	M-04, R-01
Aroclor 1254	ND	50	ug/l	50	09/03/20	M-04, R-01
Aroclor 1260	ND	50	ug/l	50	09/03/20	M-04, R-01
beta-BHC	ND	0.50	ug/l	50	09/03/20	M-04
Chlordane (tech)	ND	5.0	ug/l	50	09/03/20	M-04, R-01
Chlorothalonil	ND	2.5	ug/l	50	09/03/20	M-04
delta-BHC	ND	0.50	ug/l	50	09/03/20	M-04
Dieldrin	ND	0.50	ug/l	50	09/03/20	M-04
Endosulfan I	ND	0.50	ug/l	50	09/03/20	M-04
Endosulfan II	ND	0.50	ug/l	50	09/03/20	M-04
Endosulfan sulfate	ND	0.50	ug/l	50	09/03/20	M-04
Endrin	ND	0.50	ug/l	50	09/03/20	M-04
Endrin aldehyde	ND	0.50	ug/l	50	09/03/20	M-04
gamma-BHC (Lindane)	ND	0.50	ug/l	50	09/03/20	M-04
Heptachlor	ND	0.50	ug/l	50	09/03/20	M-04
Heptachlor epoxide	ND	0.50	ug/l	50	09/03/20	M-04
Hexachlorobenzene	ND	2.5	ug/l	50	09/03/20	M-04
Hexachlorocyclopentadiene	ND	2.5	ug/l	50	09/03/20	M-04
Methoxychlor	ND	0.50	ug/l	50	09/03/20	M-04
PCBs, Total	ND	25	ug/l	50	09/03/20	M-04
Propachlor	ND	2.5	ug/l	50	09/03/20	M-04
Toxaphene	ND	25	ug/l	50	09/03/20	M-04, R-01
Trifluralin	ND	0.50	ug/l	50	09/03/20	M-04
Surrogate(s)						
Decachlorobiphenyl	*82%*	*Conc: 0.0822*	*70-130*		*09/03/20*	*M-04*
Tetrachloro-meta-xylene	*163%*	*Conc: 0.163*	*70-130*		*09/03/20*	*M-04, S-GC*
Diquat and Paraquat by EPA 549.2						

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Project Manager: Ranjit Clarke

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Sample Results

(Continued)

Sample: MCWP-MW07D, Alias: 432391-003
0H20067-05 (Water)

Sampled: 08/18/20 11:50 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Diquat and Paraquat by EPA 549.2 (Continued)						
Method: EPA 549.2		**Instr:** LC11				
Batch ID: W0H1195 **Preparation:** EPA 549.2/SPE		**Prepared:** 08/21/20 08:20				**Analyst:** jna
Diquat	ND	4.0	ug/l	1	09/01/20	
Paraquat	ND	4.0	ug/l	1	09/01/20	
Endothall By EPA 548.1						
Method: EPA 548.1		**Instr:** GCMS06				
Batch ID: W0H1346 **Preparation:** EPA 548.1/SPE		**Prepared:** 08/25/20 08:03				**Analyst:** rmr
Endothall	ND	40	ug/l	1	08/27/20	
Glyphosate by EPA 547						
Method: EPA 547		**Instr:** LC10				
Batch ID: W0H1697 **Preparation:** _NONE (LC)		**Prepared:** 08/31/20 16:20				**Analyst:** jan
Glyphosate	ND	5.0	ug/l	1	08/31/20	
Haloacetic Acids (HAAs) by GC/ECD						
Method: EPA 552.3		**Instr:** GC05				
Batch ID: W0H1510 **Preparation:** EPA 552.3/Micro Ext. Drtz		**Prepared:** 08/27/20 08:26				**Analyst:** rjg
Dibromoacetic acid (dbaa)	ND	1.0	ug/l	1	08/29/20	
Dichloroacetic acid (dcaa)	ND	1.0	ug/l	1	08/29/20	
HAA5, Total	ND	1.0	ug/l	1	08/29/20	
Monobromoacetic acid (mbaa)	ND	1.0	ug/l	1	08/29/20	
Monochloroacetic acid (mcaa)	ND	2.0	ug/l	1	08/29/20	
Trichloroacetic acid (tcaa)	ND	1.0	ug/l	1	08/29/20	
Surrogate(s)						
2-Bromobutyric acid	*101%*	*Conc: 10.1*	*70-130*		*08/29/20*	
Hexavalent Chromium by IC						
Method: EPA 218.6		**Instr:** LC13				
Batch ID: W0I0002 **Preparation:** _NONE (LC)		**Prepared:** 09/01/20 00:27				**Analyst:** jan
Chromium 6+	**0.034**	0.020	ug/l	1	09/01/20	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 525.2		**Instr:** GCMS16				
Batch ID: W0I0009 **Preparation:** EPA 525.2/SPE		**Prepared:** 09/01/20 08:54				**Analyst:** rmr
Alachlor	ND	2.0	ug/l	1	09/04/20	M-02
Atrazine	ND	2.0	ug/l	1	09/04/20	M-02
Benzo (a) pyrene	ND	2.0	ug/l	1	09/04/20	M-02
Bis(2-ethylhexyl)adipate	ND	40	ug/l	1	09/04/20	M-02
Bis(2-ethylhexyl)phthalate	ND	40	ug/l	1	09/04/20	M-02
Bromacil	ND	10	ug/l	1	09/04/20	M-02
Butachlor	ND	2.0	ug/l	1	09/04/20	M-02
Captan	ND	20	ug/l	1	09/04/20	BS-04, M-02

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Reported: 09/22/2020 09:25

Sample Results

(Continued)

Sample: MCWP-MW07D, Alias: 432391-003
0H20067-05 (Water)

Sampled: 08/18/20 11:50 by Client

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organic Compounds by GC/MS (Continued)						
Method: EPA 525.2		**Instr:** GCMS16				
Batch ID: W0I0009 **Preparation:** EPA 525.2/SPE		**Prepared:** 09/01/20 08:54				**Analyst:** rmr
Chlorpropham	ND	2.0	ug/l	1	09/04/20	M-02
Cyanazine	ND	2.0	ug/l	1	09/04/20	BS-04, M-02
Diazinon	ND	2.0	ug/l	1	09/04/20	M-02
Dimethoate	ND	4.0	ug/l	1	09/04/20	BS-04, M-02
Diphenamid	ND	2.0	ug/l	1	09/04/20	M-02
Disulfoton	ND	2.0	ug/l	1	09/04/20	M-02
EPTC	ND	2.0	ug/l	1	09/04/20	M-02
Metolachlor	ND	2.0	ug/l	1	09/04/20	M-02
Metribuzin	ND	2.0	ug/l	1	09/04/20	M-02
Molinate	ND	2.0	ug/l	1	09/04/20	M-02
Prometon	ND	2.0	ug/l	1	09/04/20	M-02
Prometryn	ND	2.0	ug/l	1	09/04/20	M-02
Simazine	ND	2.0	ug/l	1	09/04/20	M-02
Terbacil	ND	40	ug/l	1	09/04/20	BS-04, M-02
Thiobencarb	ND	2.0	ug/l	1	09/04/20	M-02
Trithion	ND	2.0	ug/l	1	09/04/20	BS-04, M-02
Surrogate(s)						
1,3-Dimethyl-2-nitrobenzene	*96%*	*Conc: 96.4*	*70-130*		*09/04/20*	*M-02*
Perylene-d12	*94%*	*Conc: 94.5*	*50-120*		*09/04/20*	*M-02*
Triphenyl phosphate	*100%*	*Conc: 100*	*70-130*		*09/04/20*	*M-02*
Volatile Organics by P&T and GC/MS						
Method: EPA 524.3		**Instr:** GCMS04				
Batch ID: W0H1345 **Preparation:** EPA 524.2 P&T		**Prepared:** 08/25/20 07:48				**Analyst:** adm
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l	1	08/25/20	
1,2-Dibromoethane (EDB)	ND	0.020	ug/l	1	08/25/20	

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Project Number: EO-432391

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:25

Sample Results

(Continued)

Sample: MCWP-MW07D, Alias: 432391-003
0H20067-05RE1 (Water)

Sampled: 08/18/20 11:50 by Client

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Anions by IC, EPA Method 300.1							
Method: EPA 300.1			**Instr:** LC08_Channel2				
Batch ID: W0H1446 **Preparation:** _NONE (LC)			**Prepared:** 08/26/20 09:34				**Analyst:** jan
Chlorite	ND		100	ug/l	10	08/27/20	M-05
Surrogate(s)							
Dichloroacetate	*105%*	*Conc: 526*	*90-115*			*08/27/20*	
Nitrosamines by isotopic dilution GC/MS CI Mode							
Method: EPA 1625M			**Instr:** GCMS09				
Batch ID: W0H1369 **Preparation:** EPA 3535/SPE			**Prepared:** 08/25/20 10:29				**Analyst:** mld
N-Nitrosodimethylamine	ND		2.0	ng/l	1	08/31/20	

Sample: MCWP-MW07D Travel Blank, Alias: 432391-003
0H20067-06 (Water)

Sampled: 08/18/20 11:50 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organics by P&T and GC/MS						
Method: EPA 524.3		**Instr:** GCMS04				
Batch ID: W0H1345 **Preparation:** EPA 524.2 P&T		**Prepared:** 08/25/20 07:48				**Analyst:** adm
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l	1	08/25/20	
1,2-Dibromoethane (EDB)	ND	0.020	ug/l	1	08/25/20	

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Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-432391

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:25

Sample Results

(Continued)

Sample: MCWP-MW04S, Alias: 432391-004
0H20067-07 (Water)

Sampled: 08/18/20 12:30 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS						
Method: EPA 625.1		**Instr:** GCMS06				
Batch ID: W0H1350 **Preparation:** EPA 625/L-L SF		**Prepared:** 08/25/20 09:10				**Analyst:** rmr
1,2,4-Trichlorobenzene	ND	1.0	ug/l	1	09/15/20	
1,2-Dichlorobenzene	ND	1.0	ug/l	1	09/15/20	
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	ug/l	1	09/15/20	
1,3-Dichlorobenzene	ND	1.0	ug/l	1	09/15/20	
1,4-Dichlorobenzene	ND	1.0	ug/l	1	09/15/20	
2,4,6-Trichlorophenol	ND	1.0	ug/l	1	09/15/20	
2,4-Dichlorophenol	ND	1.0	ug/l	1	09/15/20	
2,4-Dimethylphenol	ND	1.0	ug/l	1	09/15/20	
2,4-Dinitrophenol	ND	5.0	ug/l	1	09/15/20	
2,4-Dinitrotoluene	ND	1.0	ug/l	1	09/15/20	
2,6-Dinitrotoluene	ND	1.0	ug/l	1	09/15/20	
2-Chloronaphthalene	ND	1.0	ug/l	1	09/15/20	
2-Chlorophenol	ND	1.0	ug/l	1	09/15/20	
2-Methyl-4,6-dinitrophenol	ND	1.0	ug/l	1	09/15/20	
2-Nitrophenol	ND	1.0	ug/l	1	09/15/20	
3,3'-Dichlorobenzidine	ND	1.0	ug/l	1	09/15/20	
4-Bromophenyl phenyl ether	ND	1.0	ug/l	1	09/15/20	
4-Chloro-3-methylphenol	ND	1.0	ug/l	1	09/15/20	
4-Chlorophenyl phenyl ether	ND	1.0	ug/l	1	09/15/20	
4-Nitrophenol	ND	2.0	ug/l	1	09/15/20	
Acenaphthene	ND	1.0	ug/l	1	09/15/20	
Acenaphthylene	ND	1.0	ug/l	1	09/15/20	
Anthracene	ND	1.0	ug/l	1	09/15/20	
Benzidine	ND	10	ug/l	1	09/15/20	
Benzo (a) anthracene	ND	1.0	ug/l	1	09/15/20	
Benzo (a) pyrene	ND	1.0	ug/l	1	09/15/20	
Benzo (b) fluoranthene	ND	1.0	ug/l	1	09/15/20	
Benzo (g,h,i) perylene	ND	1.0	ug/l	1	09/15/20	
Benzo (k) fluoranthene	ND	1.0	ug/l	1	09/15/20	
Bis(2-chloroethoxy)methane	ND	1.0	ug/l	1	09/15/20	
Bis(2-chloroethyl)ether	ND	1.0	ug/l	1	09/15/20	
Bis(2-chloroisopropyl)ether	ND	1.0	ug/l	1	09/15/20	
Bis(2-ethylhexyl)phthalate	ND	2.0	ug/l	1	09/15/20	
Butyl benzyl phthalate	ND	1.0	ug/l	1	09/15/20	
Chrysene	ND	1.0	ug/l	1	09/15/20	

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Project Number: EO-432391

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Reported: 09/22/2020 09:25

Sample Results

(Continued)

Sample: MCWP-MW04S, Alias: 432391-004
0H20067-07 (Water)

Sampled: 08/18/20 12:30 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS (Continued)						
Method: EPA 625.1		**Instr:** GCMS06				
Batch ID: W0H1350 **Preparation:** EPA 625/L-L SF		**Prepared:** 08/25/20 09:10				**Analyst:** rmr
Dibenzo (a,h) anthracene	ND	1.0	ug/l	1	09/15/20	
Diethyl phthalate	ND	1.0	ug/l	1	09/15/20	
Dimethyl phthalate	ND	1.0	ug/l	1	09/15/20	
Di-n-butyl phthalate	ND	1.0	ug/l	1	09/15/20	
Di-n-octyl phthalate	ND	1.0	ug/l	1	09/15/20	
Fluoranthene	ND	1.0	ug/l	1	09/15/20	
Fluorene	ND	1.0	ug/l	1	09/15/20	
Hexachlorobenzene	ND	1.0	ug/l	1	09/15/20	
Hexachlorobutadiene	ND	1.0	ug/l	1	09/15/20	
Hexachlorocyclopentadiene	ND	5.0	ug/l	1	09/15/20	
Hexachloroethane	ND	1.0	ug/l	1	09/15/20	
Indeno (1,2,3-cd) pyrene	ND	1.0	ug/l	1	09/15/20	
Isophorone	ND	1.0	ug/l	1	09/15/20	
Naphthalene	ND	1.0	ug/l	1	09/15/20	
Nitrobenzene	ND	1.0	ug/l	1	09/15/20	
N-Nitrosodimethylamine	ND	1.0	ug/l	1	09/15/20	
N-Nitrosodi-n-propylamine	ND	1.0	ug/l	1	09/15/20	
N-Nitrosodiphenylamine	ND	1.0	ug/l	1	09/15/20	
Pentachlorophenol	ND	1.0	ug/l	1	09/15/20	
Phenanthrene	ND	1.0	ug/l	1	09/15/20	
Phenol	ND	1.0	ug/l	1	09/15/20	
Pyrene	ND	1.0	ug/l	1	09/15/20	
Surrogate(s)						
2,4,6-Tribromophenol	*65%*	*Conc: 32.3*	*25-120*		*09/15/20*	
2-Fluorobiphenyl	*73%*	*Conc: 18.3*	*22-120*		*09/15/20*	
2-Fluorophenol	*50%*	*Conc: 25.0*	*17-120*		*09/15/20*	
Nitrobenzene-d5	*74%*	*Conc: 18.6*	*47-120*		*09/15/20*	
Phenol-d5	*34%*	*Conc: 17.2*	*12-120*		*09/15/20*	
Terphenyl-d14	*81%*	*Conc: 20.3*	*44-129*		*09/15/20*	
Carbamates and Urea Pesticides						
Method: EPA 531.2		**Instr:** LC10				
Batch ID: W0I0178 **Preparation:** _NONE (LC)		**Prepared:** 09/02/20 15:04				**Analyst:** jan
3-Hydroxycarbofuran	ND	2.0	ug/l	1	09/10/20	
Aldicarb	ND	2.0	ug/l	1	09/10/20	
Aldicarb sulfone	ND	2.0	ug/l	1	09/10/20	

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Project Number: EO-432391

Project Manager: Ranjit Clarke

Reported: 09/22/2020 09:25

Sample Results

(Continued)

Sample: MCWP-MW04S, Alias: 432391-004
0H20067-07 (Water)

Sampled: 08/18/20 12:30 by Client
(Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Carbamates and Urea Pesticides (Continued)							
Method: EPA 531.2			**Instr:** LC10				
Batch ID: W0I0178 **Preparation:** _NONE (LC)			**Prepared:** 09/02/20 15:04			**Analyst:** jan	
Aldicarb sulfoxide	ND		2.0	ug/l	1	09/10/20	
Carbaryl	ND		2.0	ug/l	1	09/10/20	
Carbofuran	ND		2.0	ug/l	1	09/10/20	
Methiocarb	ND		2.0	ug/l	1	09/10/20	
Methomyl	ND		2.0	ug/l	1	09/10/20	
Oxamyl	ND		2.0	ug/l	1	09/10/20	
Propoxur (Baygon)	ND		2.0	ug/l	1	09/10/20	
Surrogate(s)							
BDMC	*88%*	*Conc: 8.78*	*70-130*			*09/10/20*	
Chlorinated Acids Herbicides by GC/ECD							
Method: EPA 515.4			**Instr:** GC08				
Batch ID: W0I0008 **Preparation:** EPA 515.4/Micro Ext. Drtz			**Prepared:** 09/01/20 08:17			**Analyst:** amw	
2,4,5-T	ND		0.20	ug/l	1	09/02/20	
2,4,5-TP (Silvex)	ND		0.20	ug/l	1	09/02/20	
2,4-D	ND		0.40	ug/l	1	09/02/20	
2,4-DB	ND		2.0	ug/l	1	09/02/20	
3,5-Dichlorobenzoic acid	ND		1.0	ug/l	1	09/02/20	
Acifluorfen	ND		0.40	ug/l	1	09/02/20	
Bentazon	ND		2.0	ug/l	1	09/02/20	
Dalapon	ND		0.40	ug/l	1	09/02/20	
DCPA	ND		0.10	ug/l	1	09/02/20	
Dicamba	ND		0.60	ug/l	1	09/02/20	
Dichloroprop	ND		0.30	ug/l	1	09/02/20	
Dinoseb	ND		0.40	ug/l	1	09/02/20	
Pentachlorophenol	ND		0.20	ug/l	1	09/02/20	
Picloram	ND		0.60	ug/l	1	09/02/20	
Surrogate(s)							
2,4-DCAA	*98%*	*Conc: 9.80*	*70-130*			*09/02/20*	
Chlorinated Pesticides and/or PCBs by GC/ECD							
Method: EPA 508			**Instr:** GC07				
Batch ID: W0H1227 **Preparation:** EPA 508/L-L SF			**Prepared:** 08/21/20 12:21			**Analyst:** AMW	
4,4´-DDD	ND		0.010	ug/l	1	09/03/20	
4,4´-DDE	ND		0.010	ug/l	1	09/03/20	
4,4´-DDT	ND		0.010	ug/l	1	09/03/20	
Aldrin	ND		0.010	ug/l	1	09/03/20	
alpha-BHC	ND		0.010	ug/l	1	09/03/20	

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Project Number: EO-432391

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:25

Sample Results

(Continued)

Sample: MCWP-MW04S, Alias: 432391-004
0H20067-07 (Water)

Sampled: 08/18/20 12:30 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)						
Method: EPA 508		**Instr:** GC07				
Batch ID: W0H1227 **Preparation:** EPA 508/L-L SF		**Prepared:** 08/21/20 12:21				**Analyst:** AMW
Aroclor 1016	ND	0.50	ug/l	1	09/03/20	R-01
Aroclor 1221	ND	0.50	ug/l	1	09/03/20	R-01
Aroclor 1232	ND	0.50	ug/l	1	09/03/20	R-01
Aroclor 1242	ND	0.50	ug/l	1	09/03/20	R-01
Aroclor 1248	ND	0.50	ug/l	1	09/03/20	R-01
Aroclor 1254	ND	0.50	ug/l	1	09/03/20	R-01
Aroclor 1260	ND	0.50	ug/l	1	09/03/20	R-01
beta-BHC	ND	0.010	ug/l	1	09/03/20	
Chlordane (tech)	ND	0.10	ug/l	1	09/03/20	
Chlorothalonil	ND	0.050	ug/l	1	09/03/20	
delta-BHC	ND	0.010	ug/l	1	09/03/20	
Dieldrin	ND	0.010	ug/l	1	09/03/20	
Endosulfan I	ND	0.010	ug/l	1	09/03/20	
Endosulfan II	ND	0.010	ug/l	1	09/03/20	
Endosulfan sulfate	ND	0.010	ug/l	1	09/03/20	
Endrin	ND	0.010	ug/l	1	09/03/20	
Endrin aldehyde	ND	0.010	ug/l	1	09/03/20	
gamma-BHC (Lindane)	ND	0.010	ug/l	1	09/03/20	
Heptachlor	ND	0.010	ug/l	1	09/03/20	
Heptachlor epoxide	ND	0.010	ug/l	1	09/03/20	
Hexachlorobenzene	ND	0.050	ug/l	1	09/03/20	
Hexachlorocyclopentadiene	ND	0.050	ug/l	1	09/03/20	
Methoxychlor	ND	0.010	ug/l	1	09/03/20	
PCBs, Total	ND	0.50	ug/l	1	09/03/20	
Propachlor	ND	0.050	ug/l	1	09/03/20	
Toxaphene	ND	0.50	ug/l	1	09/03/20	R-01
Trifluralin	ND	0.010	ug/l	1	09/03/20	
Surrogate(s)						
Decachlorobiphenyl	*44%*	*Conc: 0.0435*	*70-130*		*09/03/20*	*S-GC*
Tetrachloro-meta-xylene	*81%*	*Conc: 0.0806*	*70-130*		*09/03/20*	
Diquat and Paraquat by EPA 549.2						
Method: EPA 549.2		**Instr:** LC11				
Batch ID: W0H1195 **Preparation:** EPA 549.2/SPE		**Prepared:** 08/21/20 08:20				**Analyst:** jna
Diquat	ND	4.0	ug/l	1	09/01/20	
Paraquat	ND	4.0	ug/l	1	09/01/20	

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Project Number: EO-432391

Project Manager: Ranjit Clarke

Reported: 09/22/2020 09:25

Sample Results

(Continued)

Sample: MCWP-MW04S, Alias: 432391-004
0H20067-07 (Water)

Sampled: 08/18/20 12:30 by Client

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Endothall By EPA 548.1						
Method: EPA 548.1		**Instr:** GCMS06				
Batch ID: W0H1346 **Preparation:** EPA 548.1/SPE		**Prepared:** 08/25/20 08:03				**Analyst:** rmr
Endothall	ND	40	ug/l	1	08/27/20	
Glyphosate by EPA 547						
Method: EPA 547		**Instr:** LC10				
Batch ID: W0H1697 **Preparation:** _NONE (LC)		**Prepared:** 08/31/20 16:20				**Analyst:** jan
Glyphosate	ND	5.0	ug/l	1	09/01/20	
Haloacetic Acids (HAAs) by GC/ECD						
Method: EPA 552.3		**Instr:** GC05				
Batch ID: W0H1510 **Preparation:** EPA 552.3/Micro Ext. Drtz		**Prepared:** 08/27/20 08:26				**Analyst:** rjg
Dibromoacetic acid (dbaa)	ND	1.0	ug/l	1	08/29/20	
Dichloroacetic acid (dcaa)	ND	1.0	ug/l	1	08/29/20	
HAA5, Total	ND	1.0	ug/l	1	08/29/20	
Monobromoacetic acid (mbaa)	ND	1.0	ug/l	1	08/29/20	
Monochloroacetic acid (mcaa)	ND	2.0	ug/l	1	08/29/20	
Trichloroacetic acid (tcaa)	ND	1.0	ug/l	1	08/29/20	
Surrogate(s)						
2-Bromobutyric acid	*98%*	*Conc: 9.83*	*70-130*		*08/29/20*	
Hexavalent Chromium by IC						
Method: EPA 218.6		**Instr:** LC13				
Batch ID: W0I0002 **Preparation:** _NONE (LC)		**Prepared:** 09/01/20 00:27				**Analyst:** jan
Chromium 6+	ND	0.020	ug/l	1	09/01/20	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 525.2		**Instr:** GCMS16				
Batch ID: W0I0009 **Preparation:** EPA 525.2/SPE		**Prepared:** 09/01/20 08:54				**Analyst:** rmr
Alachlor	ND	0.10	ug/l	1	09/04/20	
Atrazine	ND	0.10	ug/l	1	09/04/20	
Benzo (a) pyrene	ND	0.10	ug/l	1	09/04/20	
Bis(2-ethylhexyl)adipate	ND	2.0	ug/l	1	09/04/20	
Bis(2-ethylhexyl)phthalate	ND	2.0	ug/l	1	09/04/20	
Bromacil	ND	0.50	ug/l	1	09/04/20	
Butachlor	ND	0.10	ug/l	1	09/04/20	
Captan	ND	1.0	ug/l	1	09/04/20	BS-04
Chlorpropham	ND	0.10	ug/l	1	09/04/20	
Cyanazine	ND	0.10	ug/l	1	09/04/20	BS-04
Diazinon	ND	0.10	ug/l	1	09/04/20	
Dimethoate	ND	0.20	ug/l	1	09/04/20	BS-04
Diphenamid	ND	0.10	ug/l	1	09/04/20	

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Reported: 09/22/2020 09:25

Sample Results

(Continued)

Sample: MCWP-MW04S, Alias: 432391-004
0H20067-07 (Water)

Sampled: 08/18/20 12:30 by Client
(Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organic Compounds by GC/MS (Continued)							
Method: EPA 525.2			**Instr:** GCMS16				
Batch ID: W0I0009 **Preparation:** EPA 525.2/SPE			**Prepared:** 09/01/20 08:54				**Analyst:** rmr
Disulfoton	ND		0.10	ug/l	1	09/04/20	
EPTC	ND		0.10	ug/l	1	09/04/20	
Metolachlor	ND		0.10	ug/l	1	09/04/20	
Metribuzin	ND		0.10	ug/l	1	09/04/20	
Molinate	ND		0.10	ug/l	1	09/04/20	
Prometon	ND		0.10	ug/l	1	09/04/20	
Prometryn	ND		0.10	ug/l	1	09/04/20	
Simazine	ND		0.10	ug/l	1	09/04/20	
Terbacil	ND		2.0	ug/l	1	09/04/20	BS-04
Thiobencarb	ND		0.10	ug/l	1	09/04/20	
Trithion	ND		0.10	ug/l	1	09/04/20	BS-04
Surrogate(s)							
1,3-Dimethyl-2-nitrobenzene	*95%*	*Conc: 4.73*	*70-130*			*09/04/20*	
Perylene-d12	*92%*	*Conc: 4.60*	*50-120*			*09/04/20*	
Triphenyl phosphate	*112%*	*Conc: 5.60*	*70-130*			*09/04/20*	
Volatile Organics by P&T and GC/MS							
Method: EPA 524.3			**Instr:** GCMS04				
Batch ID: W0H1345 **Preparation:** EPA 524.2 P&T			**Prepared:** 08/25/20 07:48				**Analyst:** adm
1,2-Dibromo-3-chloropropane	ND		0.010	ug/l	1	08/25/20	
1,2-Dibromoethane (EDB)	ND		0.020	ug/l	1	08/25/20	

Sample: MCWP-MW04S, Alias: 432391-004
0H20067-07RE1 (Water)

Sampled: 08/18/20 12:30 by Client

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Anions by IC, EPA Method 300.1							
Method: EPA 300.1			**Instr:** LC08_Channel2				
Batch ID: W0H1446 **Preparation:** _NONE (LC)			**Prepared:** 08/26/20 09:34				**Analyst:** jan
Bromate	ND		120	ug/l	25	08/27/20	M-05
Chlorite	ND		250	ug/l	25	08/27/20	M-05
Surrogate(s)							
Dichloroacetate	*105%*	*Conc: 526*	*90-115*			*08/27/20*	
Nitrosamines by isotopic dilution GC/MS CI Mode							
Method: EPA 1625M			**Instr:** GCMS09				
Batch ID: W0H1369 **Preparation:** EPA 3535/SPE			**Prepared:** 08/25/20 10:29				**Analyst:** mld
N-Nitrosodimethylamine	ND		2.0	ng/l	1	08/31/20	

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Project Number: EO-432391

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Reported:
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Sample Results

(Continued)

Sample: MCWP-MW04S Travel Blank, Alias: 432391-004
0H20067-08 (Water)

Sampled: 08/18/20 12:30 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organics by P&T and GC/MS						
Method: EPA 524.3		**Instr:** GCMS04				
Batch ID: W0H1345 **Preparation:** EPA 524.2 P&T		**Prepared:** 08/25/20 07:48				**Analyst:** adm
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l	1	08/26/20	
1,2-Dibromoethane (EDB)	ND	0.020	ug/l	1	08/26/20	

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Orange, CA 92868

Project Number: EO-432391

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:25

Quality Control Results

Acid and Base/Neutral Extractables by GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1350 - EPA 625.1										
Blank (W0H1350-BLK1)				**Prepared: 08/25/20 Analyzed: 09/15/20**						
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
2,4,6-Trichlorophenol	ND	1.0	ug/l							
2,4-Dichlorophenol	ND	1.0	ug/l							
2,4-Dimethylphenol	ND	1.0	ug/l							
2,4-Dinitrophenol	ND	5.0	ug/l							
2,4-Dinitrotoluene	ND	1.0	ug/l							
2,6-Dinitrotoluene	ND	1.0	ug/l							
2-Chloronaphthalene	ND	1.0	ug/l							
2-Chlorophenol	ND	1.0	ug/l							
2-Methyl-4,6-dinitrophenol	ND	1.0	ug/l							
2-Nitrophenol	ND	1.0	ug/l							
3,3'-Dichlorobenzidine	ND	1.0	ug/l							
4-Bromophenyl phenyl ether	ND	1.0	ug/l							
4-Chloro-3-methylphenol	ND	1.0	ug/l							
4-Chlorophenyl phenyl ether	ND	1.0	ug/l							
4-Nitrophenol	ND	2.0	ug/l							
Acenaphthene	ND	1.0	ug/l							
Acenaphthylene	ND	1.0	ug/l							
Anthracene	ND	1.0	ug/l							
Benzidine	ND	10	ug/l							
Benzo (a) anthracene	ND	1.0	ug/l							
Benzo (a) pyrene	ND	1.0	ug/l							
Benzo (b) fluoranthene	ND	1.0	ug/l							
Benzo (g,h,i) perylene	ND	1.0	ug/l							
Benzo (k) fluoranthene	ND	1.0	ug/l							
Bis(2-chloroethoxy)methane	ND	1.0	ug/l							
Bis(2-chloroethyl)ether	ND	1.0	ug/l							
Bis(2-chloroisopropyl)ether	ND	1.0	ug/l							
Bis(2-ethylhexyl)phthalate	ND	2.0	ug/l							
Butyl benzyl phthalate	ND	1.0	ug/l							
Chrysene	ND	1.0	ug/l							
Dibenzo (a,h) anthracene	ND	1.0	ug/l							
Diethyl phthalate	ND	1.0	ug/l							
Dimethyl phthalate	ND	1.0	ug/l							
Di-n-butyl phthalate	ND	1.0	ug/l							

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Project Number: EO-432391

Project Manager: Ranjit Clarke

Reported:
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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1350 - EPA 625.1 (Continued)										
Blank (W0H1350-BLK1)				**Prepared: 08/25/20 Analyzed: 09/15/20**						
Di-n-octyl phthalate	ND	1.0	ug/l							
Fluoranthene	ND	1.0	ug/l							
Fluorene	ND	1.0	ug/l							
Hexachlorobenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Hexachlorocyclopentadiene	ND	5.0	ug/l							
Hexachloroethane	ND	1.0	ug/l							
Indeno (1,2,3-cd) pyrene	ND	1.0	ug/l							
Isophorone	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
Nitrobenzene	ND	1.0	ug/l							
N-Nitrosodimethylamine	ND	1.0	ug/l							
N-Nitrosodi-n-propylamine	ND	1.0	ug/l							
N-Nitrosodiphenylamine	ND	1.0	ug/l							
Pentachlorophenol	ND	1.0	ug/l							
Phenanthrene	ND	1.0	ug/l							
Phenol	ND	1.0	ug/l							
Pyrene	ND	1.0	ug/l							
Surrogate(s)										
2,4,6-Tribromophenol	*36.9*		*ug/l*	*50.0*		*74*	*25-120*			
2-Fluorobiphenyl	*19.1*		*ug/l*	*25.0*		*77*	*22-120*			
2-Fluorophenol	*30.1*		*ug/l*	*50.0*		*60*	*17-120*			
Nitrobenzene-d5	*19.9*		*ug/l*	*25.0*		*79*	*47-120*			
Phenol-d5	*19.3*		*ug/l*	*50.0*		*39*	*12-120*			
Terphenyl-d14	*22.9*		*ug/l*	*25.0*		*92*	*44-129*			
LCS (W0H1350-BS1)				**Prepared: 08/25/20 Analyzed: 09/14/20**						
1,2,4-Trichlorobenzene	20.0	1.0	ug/l	25.0		80	57-130			
1,2-Dichlorobenzene	19.2	1.0	ug/l	25.0		77	57-120			
1,3-Dichlorobenzene	19.1	1.0	ug/l	25.0		76	55-120			
1,4-Dichlorobenzene	18.7	1.0	ug/l	25.0		75	55-120			
2,4,6-Trichlorophenol	21.3	1.0	ug/l	25.0		85	52-129			
2,4-Dichlorophenol	22.3	1.0	ug/l	25.0		89	53-122			
2,4-Dimethylphenol	14.9	1.0	ug/l	25.0		59	42-120			
2,4-Dinitrophenol	25.5	5.0	ug/l	25.0		102	0.1-173			
2,4-Dinitrotoluene	19.3	1.0	ug/l	25.0		77	48-127			
2,6-Dinitrotoluene	21.4	1.0	ug/l	25.0		85	68-137			
2-Chloronaphthalene	20.5	1.0	ug/l	25.0		82	65-120			
2-Chlorophenol	20.6	1.0	ug/l	25.0		82	36-120			
2-Methyl-4,6-dinitrophenol	20.3	1.0	ug/l	25.0		81	53-130			

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Project Number: EO-432391

Project Manager: Ranjit Clarke

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1350 - EPA 625.1 (Continued)										
LCS (W0H1350-BS1)				**Prepared: 08/25/20**	**Analyzed: 09/14/20**					
2-Nitrophenol	20.6	1.0	ug/l	25.0		82	45-167			
3,3'-Dichlorobenzidine	18.8	1.0	ug/l	25.0		75	8-213			
4-Bromophenyl phenyl ether	20.5	1.0	ug/l	25.0		82	65-120			
4-Chloro-3-methylphenol	20.9	1.0	ug/l	25.0		84	41-128			
4-Chlorophenyl phenyl ether	19.1	1.0	ug/l	25.0		76	38-145			
4-Nitrophenol	7.61	2.0	ug/l	25.0		30	13-129			
Acenaphthene	21.2	1.0	ug/l	25.0		85	60-132			
Acenaphthylene	22.6	1.0	ug/l	25.0		91	54-126			
Anthracene	21.7	1.0	ug/l	25.0		87	43-120			
Benzo (a) anthracene	18.7	1.0	ug/l	25.0		75	42-133			
Benzo (a) pyrene	23.3	1.0	ug/l	25.0		93	32-148			
Benzo (b) fluoranthene	23.1	1.0	ug/l	25.0		92	42-140			AN-IP
Benzo (g,h,i) perylene	24.2	1.0	ug/l	25.0		97	0.1-195			
Benzo (k) fluoranthene	24.4	1.0	ug/l	25.0		98	25-146			AN-IP
Bis(2-chloroethoxy)methane	21.0	1.0	ug/l	25.0		84	49-165			
Bis(2-chloroethyl)ether	19.0	1.0	ug/l	25.0		76	43-126			
Bis(2-chloroisopropyl)ether	20.1	1.0	ug/l	25.0		80	63-139			
Bis(2-ethylhexyl)phthalate	20.3	2.0	ug/l	25.0		81	29-137			
Butyl benzyl phthalate	20.3	1.0	ug/l	25.0		81	0.1-140			
Chrysene	23.7	1.0	ug/l	25.0		95	44-140			
Dibenzo (a,h) anthracene	23.4	1.0	ug/l	25.0		94	0.1-200			
Diethyl phthalate	20.7	1.0	ug/l	25.0		83	0.1-120			
Dimethyl phthalate	20.5	1.0	ug/l	25.0		82	0.1-120			
Di-n-butyl phthalate	22.9	1.0	ug/l	25.0		92	8-120			
Di-n-octyl phthalate	23.7	1.0	ug/l	25.0		95	19-132			
Fluoranthene	20.8	1.0	ug/l	25.0		83	43-121			
Fluorene	20.7	1.0	ug/l	25.0		83	70-120			
Hexachlorobenzene	20.2	1.0	ug/l	25.0		81	8-142			
Hexachlorobutadiene	21.4	1.0	ug/l	25.0		86	38-120			
Hexachlorocyclopentadiene	13.7	5.0	ug/l	25.0		55	10-120			
Hexachloroethane	20.2	1.0	ug/l	25.0		81	55-120			
Indeno (1,2,3-cd) pyrene	22.8	1.0	ug/l	25.0		91	0.1-151			
Isophorone	20.0	1.0	ug/l	25.0		80	47-180			
Naphthalene	20.6	1.0	ug/l	25.0		82	36-120			
Nitrobenzene	20.0	1.0	ug/l	25.0		80	54-158			
N-Nitrosodimethylamine	13.5	1.0	ug/l	25.0		54	22-120			
N-Nitrosodi-n-propylamine	21.8	1.0	ug/l	25.0		87	14-198			
N-Nitrosodiphenylamine	16.6	1.0	ug/l	25.0		67	47-120			
Pentachlorophenol	20.0	1.0	ug/l	25.0		80	41-120			

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1350 - EPA 625.1 (Continued)										
LCS (W0H1350-BS1)				**Prepared: 08/25/20**	**Analyzed: 09/14/20**					
Phenanthrene	22.5	1.0	ug/l	25.0		90	65-120			
Phenol	8.85	1.0	ug/l	25.0		35	17-120			
Pyrene	21.5	1.0	ug/l	25.0		86	70-120			
Surrogate(s)										
2,4,6-Tribromophenol	*40.7*		*ug/l*	*50.0*		*81*	*25-120*			
2-Fluorobiphenyl	*21.2*		*ug/l*	*25.0*		*85*	*22-120*			
2-Fluorophenol	*29.6*		*ug/l*	*50.0*		*59*	*17-120*			
Nitrobenzene-d5	*20.7*		*ug/l*	*25.0*		*83*	*47-120*			
Phenol-d5	*19.2*		*ug/l*	*50.0*		*38*	*12-120*			
Terphenyl-d14	*24.9*		*ug/l*	*25.0*		*99*	*44-129*			
Duplicate (W0H1350-DUP1)	**Source: 0H19013-01**			**Prepared: 08/25/20**	**Analyzed: 09/15/20**					
1,2,4-Trichlorobenzene	ND	4.0	ug/l		ND				30	M-02, M-04
1,2-Dichlorobenzene	ND	4.0	ug/l		ND				30	M-02, M-04
1,3-Dichlorobenzene	ND	4.0	ug/l		ND				30	M-02, M-04
1,4-Dichlorobenzene	ND	4.0	ug/l		ND				30	M-02, M-04
2,4,6-Trichlorophenol	4.77	4.0	ug/l		4.23			12	30	M-04, M-02
2,4-Dichlorophenol	ND	4.0	ug/l		ND				30	M-02, M-04
2,4-Dimethylphenol	ND	4.0	ug/l		ND				30	M-02, M-04
2,4-Dinitrophenol	ND	20	ug/l		ND				30	M-02, M-04
2,4-Dinitrotoluene	ND	4.0	ug/l		ND				30	M-02, M-04
2,6-Dinitrotoluene	ND	4.0	ug/l		ND				30	M-02, M-04
2-Chloronaphthalene	ND	4.0	ug/l		ND				30	M-02, M-04
2-Chlorophenol	ND	4.0	ug/l		ND				30	M-02, M-04
2-Methyl-4,6-dinitrophenol	ND	4.0	ug/l		ND				30	M-02, M-04
2-Nitrophenol	ND	4.0	ug/l		ND				30	M-02, M-04
3,3'-Dichlorobenzidine	ND	4.0	ug/l		ND				30	M-04, M-02
4-Bromophenyl phenyl ether	ND	4.0	ug/l		ND				30	M-02, M-04
4-Chloro-3-methylphenol	ND	4.0	ug/l		ND				30	M-02, M-04
4-Chlorophenyl phenyl ether	ND	4.0	ug/l		ND				30	M-02, M-04
4-Nitrophenol	ND	8.0	ug/l		ND				30	M-02, M-04, R-01
Acenaphthene	ND	4.0	ug/l		ND				30	M-02, M-04
Acenaphthylene	ND	4.0	ug/l		ND				30	M-02, M-04
Anthracene	ND	4.0	ug/l		ND				30	M-04, M-02
Benzo (a) anthracene	ND	4.0	ug/l		ND				30	M-02, M-04
Benzo (a) pyrene	ND	4.0	ug/l		ND				30	M-02, M-04
Benzo (b) fluoranthene	ND	4.0	ug/l		ND				30	M-02, M-04
Benzo (g,h,i) perylene	ND	4.0	ug/l		ND				30	M-02, M-04
Benzo (k) fluoranthene	ND	4.0	ug/l		ND				30	M-02, M-04
Bis(2-chloroethoxy)methane	ND	4.0	ug/l		ND				30	M-02, M-04

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1350 - EPA 625.1 (Continued)										
Duplicate (W0H1350-DUP1)	**Source: 0H19013-01**			**Prepared: 08/25/20**	**Analyzed: 09/15/20**					
Bis(2-chloroethyl)ether	ND	4.0	ug/l		ND				30	M-02, M-04
Bis(2-chloroisopropyl)ether	ND	4.0	ug/l		ND				30	M-02, M-04
Bis(2-ethylhexyl)phthalate	14.4	8.0	ug/l		12.1			17	30	M-02, M-04
Butyl benzyl phthalate	ND	4.0	ug/l		ND				30	M-02, M-04
Chrysene	ND	4.0	ug/l		ND				30	M-02, M-04
Dibenzo (a,h) anthracene	ND	4.0	ug/l		ND				30	M-02, M-04
Diethyl phthalate	6.82	4.0	ug/l		5.72			18	30	M-02, M-04
Dimethyl phthalate	ND	4.0	ug/l		ND				30	M-02, M-04
Di-n-butyl phthalate	80.6	4.0	ug/l		68.0			17	30	M-02, M-04
Di-n-octyl phthalate	ND	4.0	ug/l		ND				30	M-02, M-04
Fluoranthene	ND	4.0	ug/l		ND				30	M-02, M-04
Fluorene	ND	4.0	ug/l		ND				30	M-04, M-02
Hexachlorobenzene	ND	4.0	ug/l		ND				30	M-02, M-04
Hexachlorobutadiene	ND	4.0	ug/l		ND				30	M-02, M-04
Hexachlorocyclopentadiene	ND	20	ug/l		ND				30	M-02, M-04
Hexachloroethane	ND	4.0	ug/l		ND				30	M-02, M-04
Indeno (1,2,3-cd) pyrene	ND	4.0	ug/l		ND				30	M-02, M-04
Isophorone	ND	4.0	ug/l		ND				30	M-02, M-04
Naphthalene	ND	4.0	ug/l		ND				30	M-02, M-04
Nitrobenzene	ND	4.0	ug/l		ND				30	M-02, M-04
N-Nitrosodimethylamine	ND	4.0	ug/l		ND				30	M-04, M-02
N-Nitrosodi-n-propylamine	ND	4.0	ug/l		ND				30	M-02, M-04
N-Nitrosodiphenylamine	ND	4.0	ug/l		ND				30	M-02, M-04
Pentachlorophenol	ND	4.0	ug/l		ND				30	M-02, M-04
Phenanthrene	ND	4.0	ug/l		ND				30	M-02, M-04
Phenol	1.84	4.0	ug/l		1.99			8	30	M-02, M-04
Pyrene	ND	4.0	ug/l		ND				30	M-02, M-04
Surrogate(s)										
2,4,6-Tribromophenol	*107*		*ug/l*	*100*		*107*	*25-120*			*M-02, M-04*
2-Fluorobiphenyl	*28.5*		*ug/l*	*50.0*		*57*	*22-120*			*M-02, M-04*
2-Fluorophenol	*50.2*		*ug/l*	*100*		*50*	*17-120*			*M-02, M-04*
Nitrobenzene-d5	*36.5*		*ug/l*	*50.0*		*73*	*47-120*			*M-02, M-04*
Phenol-d5	*37.0*		*ug/l*	*100*		*37*	*12-120*			*M-04, M-02*
Terphenyl-d14	*46.2*		*ug/l*	*50.0*		*92*	*44-129*			*M-02, M-04*
Duplicate (W0H1350-DUP2)	**Source: 0H19013-02**			**Prepared: 08/25/20**	**Analyzed: 09/15/20**					
1,2,4-Trichlorobenzene	ND	10	ug/l		ND				30	M-02
1,2-Dichlorobenzene	ND	10	ug/l		ND				30	M-02
1,3-Dichlorobenzene	ND	10	ug/l		ND				30	M-02
1,4-Dichlorobenzene	ND	10	ug/l		ND				30	M-02

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1350 - EPA 625.1 (Continued)										
Duplicate (W0H1350-DUP2)	**Source: 0H19013-02**			**Prepared: 08/25/20**	**Analyzed: 09/15/20**					
2,4,6-Trichlorophenol	15.2	10	ug/l		15.4			2	30	M-02
2,4-Dichlorophenol	ND	10	ug/l		ND				30	M-02
2,4-Dimethylphenol	ND	10	ug/l		ND				30	M-02
2,4-Dinitrophenol	ND	50	ug/l		ND				30	M-02
2,4-Dinitrotoluene	ND	10	ug/l		19.1				30	M-02
2,6-Dinitrotoluene	ND	10	ug/l		ND				30	M-02
2-Chloronaphthalene	ND	10	ug/l		ND				30	M-02
2-Chlorophenol	ND	10	ug/l		ND				30	M-02
2-Methyl-4,6-dinitrophenol	ND	10	ug/l		ND				30	M-02
2-Nitrophenol	ND	10	ug/l		ND				30	M-02
3,3'-Dichlorobenzidine	ND	10	ug/l		ND				30	M-02
4-Bromophenyl phenyl ether	ND	10	ug/l		ND				30	M-02
4-Chloro-3-methylphenol	ND	10	ug/l		ND				30	M-02
4-Chlorophenyl phenyl ether	ND	10	ug/l		ND				30	M-02
4-Nitrophenol	ND	20	ug/l		ND				30	M-02, R-01
Acenaphthene	ND	10	ug/l		ND				30	M-02
Acenaphthylene	ND	10	ug/l		ND				30	M-02
Anthracene	ND	10	ug/l		ND				30	M-02
Benzo (a) anthracene	ND	10	ug/l		ND				30	M-02
Benzo (a) pyrene	ND	10	ug/l		ND				30	M-02
Benzo (b) fluoranthene	ND	10	ug/l		ND				30	M-02
Benzo (g,h,i) perylene	ND	10	ug/l		ND				30	M-02
Benzo (k) fluoranthene	ND	10	ug/l		ND				30	M-02
Bis(2-chloroethoxy)methane	ND	10	ug/l		ND				30	M-02
Bis(2-chloroethyl)ether	ND	10	ug/l		ND				30	M-02
Bis(2-chloroisopropyl)ether	ND	10	ug/l		ND				30	M-02
Bis(2-ethylhexyl)phthalate	34.7	20	ug/l		39.5			13	30	M-02
Butyl benzyl phthalate	ND	10	ug/l		ND				30	M-02
Chrysene	ND	10	ug/l		ND				30	M-02
Dibenzo (a,h) anthracene	ND	10	ug/l		ND				30	M-02
Diethyl phthalate	ND	10	ug/l		ND				30	M-02
Dimethyl phthalate	ND	10	ug/l		ND				30	M-02
Di-n-butyl phthalate	1.34	10	ug/l		1.71			24	30	M-02
Di-n-octyl phthalate	ND	10	ug/l		ND				30	M-02
Fluoranthene	ND	10	ug/l		ND				30	M-02
Fluorene	ND	10	ug/l		ND				30	M-02
Hexachlorobenzene	ND	10	ug/l		ND				30	M-02
Hexachlorobutadiene	ND	10	ug/l		ND				30	M-02
Hexachlorocyclopentadiene	ND	50	ug/l		ND				30	M-02

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Quality Control Results

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Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1350 - EPA 625.1 (Continued)										
Duplicate (W0H1350-DUP2)	**Source: 0H19013-02**			**Prepared: 08/25/20**	**Analyzed: 09/15/20**					
Hexachloroethane	ND	10	ug/l		ND				30	M-02
Indeno (1,2,3-cd) pyrene	ND	10	ug/l		ND				30	M-02
Isophorone	ND	10	ug/l		ND				30	M-02
Naphthalene	ND	10	ug/l		ND				30	M-02
Nitrobenzene	ND	10	ug/l		ND				30	M-02
N-Nitrosodimethylamine	ND	10	ug/l		ND				30	M-02
N-Nitrosodi-n-propylamine	ND	10	ug/l		ND				30	M-02
N-Nitrosodiphenylamine	ND	10	ug/l		ND				30	M-02
Pentachlorophenol	ND	10	ug/l		ND				30	M-02
Phenanthrene	ND	10	ug/l		ND				30	M-02
Phenol	3.10	10	ug/l		3.20			3	30	M-02
Pyrene	ND	10	ug/l		ND				30	M-02
Surrogate(s)										
2,4,6-Tribromophenol	*313*		*ug/l*	*500*		*63*	*25-120*			*M-02*
2-Fluorobiphenyl	*159*		*ug/l*	*250*		*64*	*22-120*			*M-02*
2-Fluorophenol	*280*		*ug/l*	*500*		*56*	*17-120*			*M-02*
Nitrobenzene-d5	*172*		*ug/l*	*250*		*69*	*47-120*			*M-02*
Phenol-d5	*190*		*ug/l*	*500*		*38*	*12-120*			*M-02*
Terphenyl-d14	*179*		*ug/l*	*250*		*72*	*44-129*			*M-02*
Matrix Spike (W0H1350-MS1)	**Source: 0H19013-01**			**Prepared: 08/25/20**	**Analyzed: 09/14/20**					
1,2,4-Trichlorobenzene	32.7	4.0	ug/l	50.0	ND	65	44-142			M-02, M-04
1,2-Dichlorobenzene	32.5	4.0	ug/l	50.0	ND	65	51-120			M-02, M-04
1,3-Dichlorobenzene	29.6	4.0	ug/l	50.0	ND	59	37-120			M-02, M-04
1,4-Dichlorobenzene	30.2	4.0	ug/l	50.0	ND	60	39-120			M-02, M-04
2,4,6-Trichlorophenol	41.9	4.0	ug/l	50.0	4.23	75	37-144			M-02, M-04
2,4-Dichlorophenol	47.1	4.0	ug/l	50.0	ND	94	39-135			M-02, M-04
2,4-Dimethylphenol	41.1	4.0	ug/l	50.0	ND	82	32-120			M-02, M-04
2,4-Dinitrophenol	10.9	20	ug/l	50.0	ND	22	0.1-191			M-02, M-04
2,4-Dinitrotoluene	ND	4.0	ug/l	50.0	ND		39-139			M-04, MS-07, M-02
2,6-Dinitrotoluene	50.4	4.0	ug/l	50.0	ND	101	50-158			M-02, M-04
2-Chloronaphthalene	30.0	4.0	ug/l	50.0	ND	60	60-120			M-02, M-04
2-Chlorophenol	34.3	4.0	ug/l	50.0	ND	69	23-134			M-02, M-04
2-Methyl-4,6-dinitrophenol	55.2	4.0	ug/l	50.0	ND	110	0.1-181			M-02, M-04
2-Nitrophenol	38.8	4.0	ug/l	50.0	ND	78	29-182			M-02, M-04
3,3'-Dichlorobenzidine	0.591	4.0	ug/l	50.0	ND	100	0.1-262			M-02, M-04
4-Bromophenyl phenyl ether	45.8	4.0	ug/l	50.0	ND	92	53-127			M-02, M-04
4-Chloro-3-methylphenol	45.9	4.0	ug/l	50.0	ND	92	22-147			M-02, M-04
4-Chlorophenyl phenyl ether	40.1	4.0	ug/l	50.0	ND	80	25-158			M-02, M-04

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-432391

Project Manager: Ranjit Clarke

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1350 - EPA 625.1 (Continued)										
Matrix Spike (W0H1350-MS1)	**Source: 0H19013-01**			**Prepared: 08/25/20**	**Analyzed: 09/14/20**					
4-Nitrophenol	41.8	8.0	ug/l	50.0	64.3	NR	0.1-132			M-02, M-04
Acenaphthene	36.4	4.0	ug/l	50.0	ND	73	47-145			M-02, M-04
Acenaphthylene	38.3	4.0	ug/l	50.0	ND	77	33-145			M-02, M-04
Anthracene	41.9	4.0	ug/l	50.0	ND	84	27-133			M-04, M-02
Benzo (a) anthracene	41.4	4.0	ug/l	50.0	ND	83	33-143			M-02, M-04
Benzo (a) pyrene	31.7	4.0	ug/l	50.0	ND	63	17-163			M-02, M-04
Benzo (b) fluoranthene	35.6	4.0	ug/l	50.0	ND	71	24-159			M-02, M-04, AN-IP
Benzo (g,h,i) perylene	26.4	4.0	ug/l	50.0	ND	53	0.1-219			M-02, M-04
Benzo (k) fluoranthene	35.7	4.0	ug/l	50.0	ND	71	11-162			M-02, M-04, AN-IP
Bis(2-chloroethoxy)methane	34.3	4.0	ug/l	50.0	ND	69	33-184			M-02, M-04
Bis(2-chloroethyl)ether	31.1	4.0	ug/l	50.0	ND	62	12-158			M-02, M-04
Bis(2-chloroisopropyl)ether	33.6	4.0	ug/l	50.0	ND	67	36-166			M-02, M-04
Bis(2-ethylhexyl)phthalate	59.1	8.0	ug/l	50.0	12.1	94	8-158			M-02, M-04
Butyl benzyl phthalate	43.1	4.0	ug/l	50.0	ND	86	0.1-152			M-02, M-04
Chrysene	43.7	4.0	ug/l	50.0	ND	87	17-168			M-02, M-04
Dibenzo (a,h) anthracene	26.8	4.0	ug/l	50.0	ND	54	0.1-227			M-02, M-04
Diethyl phthalate	51.4	4.0	ug/l	50.0	5.72	91	0.1-120			M-04, M-02
Dimethyl phthalate	40.3	4.0	ug/l	50.0	ND	81	0.1-120			M-02, M-04
Di-n-butyl phthalate	123	4.0	ug/l	50.0	68.0	109	1-120			M-02, M-04
Di-n-octyl phthalate	46.9	4.0	ug/l	50.0	ND	94	4-146			M-02, M-04
Fluoranthene	43.1	4.0	ug/l	50.0	ND	86	26-137			M-02, M-04
Fluorene	43.5	4.0	ug/l	50.0	ND	87	59-121			M-02, M-04
Hexachlorobenzene	42.6	4.0	ug/l	50.0	ND	85	0.1-152			M-02, M-04
Hexachlorobutadiene	33.0	4.0	ug/l	50.0	ND	66	24-120			M-02, M-04
Hexachlorocyclopentadiene	27.2	20	ug/l	50.0	ND	54	10-120			M-02, M-04
Hexachloroethane	30.5	4.0	ug/l	50.0	ND	61	40-120			M-02, M-04
Indeno (1,2,3-cd) pyrene	28.9	4.0	ug/l	50.0	ND	58	0.1-171			M-04, M-02
Isophorone	22.8	4.0	ug/l	50.0	ND	46	21-196			M-02, M-04
Naphthalene	32.5	4.0	ug/l	50.0	ND	65	21-133			M-02, M-04
Nitrobenzene	34.2	4.0	ug/l	50.0	ND	68	35-180			M-02, M-04
N-Nitrosodimethylamine	15.2	4.0	ug/l	50.0	ND	30	18-120			M-02, M-04
N-Nitrosodi-n-propylamine	36.0	4.0	ug/l	50.0	ND	72	0.1-230			M-02, M-04
N-Nitrosodiphenylamine	30.2	4.0	ug/l	50.0	ND	60	49-120			M-02, M-04
Pentachlorophenol	61.2	4.0	ug/l	50.0	ND	122	0.1-133			M-02, M-04
Phenanthrene	43.4	4.0	ug/l	50.0	ND	87	54-120			M-02, M-04
Phenol	18.6	4.0	ug/l	50.0	1.99	33	5-120			M-02, M-04
Pyrene	43.6	4.0	ug/l	50.0	ND	87	52-120			M-04, M-02

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931 West Barkley Avenue
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Project Number: EO-432391

Project Manager: Ranjit Clarke

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1350 - EPA 625.1 (Continued)										
Matrix Spike (W0H1350-MS1)	**Source: 0H19013-01**			**Prepared: 08/25/20**	**Analyzed: 09/14/20**					
Surrogate(s)										
2,4,6-Tribromophenol	*107*		*ug/l*	*100*		*107*	*25-120*			*M-02, M-04*
2-Fluorobiphenyl	*28.5*		*ug/l*	*50.0*		*57*	*22-120*			*M-02, M-04*
2-Fluorophenol	*47.4*		*ug/l*	*100*		*47*	*17-120*			*M-02, M-04*
Nitrobenzene-d5	*33.7*		*ug/l*	*50.0*		*67*	*47-120*			*M-02, M-04*
Phenol-d5	*36.0*		*ug/l*	*100*		*36*	*12-120*			*M-02, M-04*
Terphenyl-d14	*50.3*		*ug/l*	*50.0*		*101*	*44-129*			*M-02, M-04*
Matrix Spike (W0H1350-MS2)	**Source: 0H19013-02**			**Prepared: 08/25/20**	**Analyzed: 09/14/20**					
1,2,4-Trichlorobenzene	172	10	ug/l	250	ND	69	44-142			M-02
1,2-Dichlorobenzene	161	10	ug/l	250	ND	64	51-120			M-02
1,3-Dichlorobenzene	157	10	ug/l	250	ND	63	37-120			M-02
1,4-Dichlorobenzene	159	10	ug/l	250	ND	64	39-120			M-02
2,4,6-Trichlorophenol	192	10	ug/l	250	15.4	71	37-144			M-02
2,4-Dichlorophenol	225	10	ug/l	250	ND	90	39-135			M-02
2,4-Dimethylphenol	234	10	ug/l	250	ND	94	32-120			M-02
2,4-Dinitrophenol	294	50	ug/l	250	ND	118	0.1-191			M-02
2,4-Dinitrotoluene	165	10	ug/l	250	19.1	58	39-139			M-02
2,6-Dinitrotoluene	166	10	ug/l	250	ND	66	50-158			M-02
2-Chloronaphthalene	177	10	ug/l	250	ND	71	60-120			M-02
2-Chlorophenol	185	10	ug/l	250	ND	74	23-134			M-02
2-Methyl-4,6-dinitrophenol	205	10	ug/l	250	ND	82	0.1-181			M-02
2-Nitrophenol	201	10	ug/l	250	ND	81	29-182			M-02
3,3'-Dichlorobenzidine	70.3	10	ug/l	250	ND	28	0.1-262			M-02
4-Bromophenyl phenyl ether	171	10	ug/l	250	ND	68	53-127			M-02
4-Chloro-3-methylphenol	181	10	ug/l	250	ND	72	22-147			M-02
4-Chlorophenyl phenyl ether	150	10	ug/l	250	ND	60	25-158			M-02
4-Nitrophenol	86.8	20	ug/l	250	31.3	22	0.1-132			M-02
Acenaphthene	161	10	ug/l	250	ND	64	47-145			M-02
Acenaphthylene	194	10	ug/l	250	ND	78	33-145			M-02
Anthracene	184	10	ug/l	250	ND	74	27-133			M-02
Benzo (a) anthracene	163	10	ug/l	250	ND	65	33-143			M-02
Benzo (a) pyrene	125	10	ug/l	250	ND	50	17-163			M-02
Benzo (b) fluoranthene	145	10	ug/l	250	ND	58	24-159			M-02, AN-IP
Benzo (g,h,i) perylene	123	10	ug/l	250	ND	49	0.1-219			M-02
Benzo (k) fluoranthene	144	10	ug/l	250	ND	57	11-162			M-02, AN-IP
Bis(2-chloroethoxy)methane	184	10	ug/l	250	ND	74	33-184			M-02
Bis(2-chloroethyl)ether	163	10	ug/l	250	ND	65	12-158			M-02
Bis(2-chloroisopropyl)ether	172	10	ug/l	250	ND	69	36-166			M-02

Enthalpy Analytical - Orange
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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1350 - EPA 625.1 (Continued)										
Matrix Spike (W0H1350-MS2)	**Source: 0H19013-02**			**Prepared: 08/25/20**	**Analyzed: 09/14/20**					
Bis(2-ethylhexyl)phthalate	203	20	ug/l	250	39.5	65	8-158			M-02
Butyl benzyl phthalate	172	10	ug/l	250	ND	69	0.1-152			M-02
Chrysene	180	10	ug/l	250	ND	72	17-168			M-02
Dibenzo (a,h) anthracene	126	10	ug/l	250	ND	50	0.1-227			M-02
Diethyl phthalate	159	10	ug/l	250	ND	64	0.1-120			M-02
Dimethyl phthalate	157	10	ug/l	250	ND	63	0.1-120			M-02
Di-n-butyl phthalate	199	10	ug/l	250	1.71	79	1-120			M-02
Di-n-octyl phthalate	202	10	ug/l	250	ND	81	4-146			M-02
Fluoranthene	185	10	ug/l	250	ND	74	26-137			M-02
Fluorene	161	10	ug/l	250	ND	64	59-121			M-02
Hexachlorobenzene	168	10	ug/l	250	ND	67	0.1-152			M-02
Hexachlorobutadiene	179	10	ug/l	250	ND	72	24-120			M-02
Hexachlorocyclopentadiene	124	50	ug/l	250	ND	50	10-120			M-02
Hexachloroethane	167	10	ug/l	250	ND	67	40-120			M-02
Indeno (1,2,3-cd) pyrene	133	10	ug/l	250	ND	53	0.1-171			M-02
Isophorone	171	10	ug/l	250	ND	69	21-196			M-02
Naphthalene	171	10	ug/l	250	ND	68	21-133			M-02
Nitrobenzene	172	10	ug/l	250	ND	69	35-180			M-02
N-Nitrosodimethylamine	111	10	ug/l	250	ND	44	18-120			M-02
N-Nitrosodi-n-propylamine	190	10	ug/l	250	ND	76	0.1-230			M-02
N-Nitrosodiphenylamine	85.4	10	ug/l	250	ND	34	49-120			MS-07, M-02
Pentachlorophenol	220	10	ug/l	250	ND	88	0.1-133			M-02
Phenanthrene	196	10	ug/l	250	ND	78	54-120			M-02
Phenol	94.3	10	ug/l	250	3.20	36	5-120			M-02
Pyrene	187	10	ug/l	250	ND	75	52-120			M-02
Surrogate(s)										
2,4,6-Tribromophenol	*357*		*ug/l*	*500*		*71*	*25-120*			*M-02*
2-Fluorobiphenyl	*170*		*ug/l*	*250*		*68*	*22-120*			*M-02*
2-Fluorophenol	*268*		*ug/l*	*500*		*54*	*17-120*			*M-02*
Nitrobenzene-d5	*171*		*ug/l*	*250*		*68*	*47-120*			*M-02*
Phenol-d5	*189*		*ug/l*	*500*		*38*	*12-120*			*M-02*
Terphenyl-d14	*215*		*ug/l*	*250*		*86*	*44-129*			*M-02*
Matrix Spike Dup (W0H1350-MSD1)	**Source: 0H19013-01**			**Prepared: 08/25/20**	**Analyzed: 09/14/20**					
1,2,4-Trichlorobenzene	39.7	4.0	ug/l	50.0	ND	79	44-142	19	30	M-02, M-04
1,2-Dichlorobenzene	39.8	4.0	ug/l	50.0	ND	80	51-120	20	30	M-02, M-04
1,3-Dichlorobenzene	36.8	4.0	ug/l	50.0	ND	74	37-120	22	30	M-02, M-04
1,4-Dichlorobenzene	37.1	4.0	ug/l	50.0	ND	74	39-120	21	30	M-02, M-04
2,4,6-Trichlorophenol	40.5	4.0	ug/l	50.0	4.23	73	37-144	3	30	M-02, M-04
2,4-Dichlorophenol	41.0	4.0	ug/l	50.0	ND	82	39-135	14	30	M-02, M-04

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1350 - EPA 625.1 (Continued)										
Matrix Spike Dup (W0H1350-MSD1)	**Source: 0H19013-01**			**Prepared: 08/25/20**	**Analyzed: 09/14/20**					
2,4-Dimethylphenol	40.6	4.0	ug/l	50.0	ND	81	32-120	1	30	M-02, M-04
2,4-Dinitrophenol	6.60	20	ug/l	50.0	ND	13	0.1-191	49	30	M-02, M-04, R-02
2,4-Dinitrotoluene	ND	4.0	ug/l	50.0	ND		39-139		30	M-02, M-04, MS-07
2,6-Dinitrotoluene	47.4	4.0	ug/l	50.0	ND	95	50-158	6	30	M-02, M-04
2-Chloronaphthalene	33.3	4.0	ug/l	50.0	ND	67	60-120	11	30	M-02, M-04
2-Chlorophenol	41.5	4.0	ug/l	50.0	ND	83	23-134	19	30	M-02, M-04
2-Methyl-4,6-dinitrophenol	49.8	4.0	ug/l	50.0	ND	100	0.1-181	10	30	M-02, M-04
2-Nitrophenol	45.2	4.0	ug/l	50.0	ND	90	29-182	15	30	M-02, M-04
3,3'-Dichlorobenzidine	0.263	4.0	ug/l	50.0	ND	0.5	0.1-262	200	30	M-02, M-04, R-02
4-Bromophenyl phenyl ether	43.2	4.0	ug/l	50.0	ND	86	53-127	6	30	M-02, M-04
4-Chloro-3-methylphenol	42.3	4.0	ug/l	50.0	ND	85	22-147	8	30	M-02, M-04
4-Chlorophenyl phenyl ether	39.0	4.0	ug/l	50.0	ND	78	25-158	3	30	M-02, M-04
4-Nitrophenol	40.2	8.0	ug/l	50.0	64.3	NR	0.1-132	200	30	M-04, M-02
Acenaphthene	36.1	4.0	ug/l	50.0	ND	72	47-145	0.7	30	M-02, M-04
Acenaphthylene	39.3	4.0	ug/l	50.0	ND	79	33-145	3	30	M-02, M-04
Anthracene	38.3	4.0	ug/l	50.0	ND	77	27-133	9	30	M-02, M-04
Benzo (a) anthracene	36.4	4.0	ug/l	50.0	ND	73	33-143	13	30	M-02, M-04
Benzo (a) pyrene	26.1	4.0	ug/l	50.0	ND	52	17-163	19	30	M-02, M-04
Benzo (b) fluoranthene	29.1	4.0	ug/l	50.0	ND	58	24-159	20	30	M-02, M-04, AN-IP
Benzo (g,h,i) perylene	23.6	4.0	ug/l	50.0	ND	47	0.1-219	11	30	M-04, M-02
Benzo (k) fluoranthene	30.2	4.0	ug/l	50.0	ND	60	11-162	17	30	M-02, M-04, AN-IP
Bis(2-chloroethoxy)methane	33.5	4.0	ug/l	50.0	ND	67	33-184	3	30	M-02, M-04
Bis(2-chloroethyl)ether	37.6	4.0	ug/l	50.0	ND	75	12-158	19	30	M-02, M-04
Bis(2-chloroisopropyl)ether	39.7	4.0	ug/l	50.0	ND	79	36-166	17	30	M-02, M-04
Bis(2-ethylhexyl)phthalate	50.6	8.0	ug/l	50.0	12.1	77	8-158	15	30	M-02, M-04
Butyl benzyl phthalate	37.1	4.0	ug/l	50.0	ND	74	0.1-152	15	30	M-02, M-04
Chrysene	36.5	4.0	ug/l	50.0	ND	73	17-168	18	30	M-02, M-04
Dibenzo (a,h) anthracene	24.4	4.0	ug/l	50.0	ND	49	0.1-227	9	30	M-02, M-04
Diethyl phthalate	46.7	4.0	ug/l	50.0	5.72	82	0.1-120	10	30	M-02, M-04
Dimethyl phthalate	37.7	4.0	ug/l	50.0	ND	75	0.1-120	7	30	M-02, M-04
Di-n-butyl phthalate	113	4.0	ug/l	50.0	68.0	91	1-120	8	30	M-02, M-04
Di-n-octyl phthalate	40.8	4.0	ug/l	50.0	ND	82	4-146	14	30	M-02, M-04
Fluoranthene	38.6	4.0	ug/l	50.0	ND	77	26-137	11	30	M-02, M-04
Fluorene	42.2	4.0	ug/l	50.0	ND	84	59-121	3	30	M-02, M-04
Hexachlorobenzene	41.7	4.0	ug/l	50.0	ND	83	0.1-152	2	30	M-02, M-04

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Project Manager: Ranjit Clarke

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1350 - EPA 625.1 (Continued)										
Matrix Spike Dup (W0H1350-MSD1)	**Source: 0H19013-01**			**Prepared: 08/25/20**	**Analyzed: 09/14/20**					
Hexachlorobutadiene	39.6	4.0	ug/l	50.0	ND	79	24-120	18	30	M-02, M-04
Hexachlorocyclopentadiene	30.7	20	ug/l	50.0	ND	61	10-120	12	30	M-02, M-04
Hexachloroethane	38.7	4.0	ug/l	50.0	ND	77	40-120	24	30	M-02, M-04
Indeno (1,2,3-cd) pyrene	25.1	4.0	ug/l	50.0	ND	50	0.1-171	14	30	M-02, M-04
Isophorone	27.5	4.0	ug/l	50.0	ND	55	21-196	19	30	M-02, M-04
Naphthalene	38.1	4.0	ug/l	50.0	ND	76	21-133	16	30	M-02, M-04
Nitrobenzene	39.5	4.0	ug/l	50.0	ND	79	35-180	14	30	M-02, M-04
N-Nitrosodimethylamine	22.3	4.0	ug/l	50.0	ND	45	18-120	38	30	M-02, M-04, R-02
N-Nitrosodi-n-propylamine	44.8	4.0	ug/l	50.0	ND	90	0.1-230	22	30	M-02, M-04
N-Nitrosodiphenylamine	25.9	4.0	ug/l	50.0	ND	52	49-120	15	30	M-02, M-04
Pentachlorophenol	53.6	4.0	ug/l	50.0	ND	107	0.1-133	13	30	M-04, M-02
Phenanthrene	39.1	4.0	ug/l	50.0	ND	78	54-120	11	30	M-02, M-04
Phenol	21.1	4.0	ug/l	50.0	1.99	38	5-120	12	30	M-02, M-04
Pyrene	38.8	4.0	ug/l	50.0	ND	78	52-120	12	30	M-02, M-04
Surrogate(s)										
2,4,6-Tribromophenol	*96.7*		*ug/l*	*100*		*97*	*25-120*			*M-02, M-04*
2-Fluorobiphenyl	*31.7*		*ug/l*	*50.0*		*63*	*22-120*			*M-02, M-04*
2-Fluorophenol	*58.4*		*ug/l*	*100*		*58*	*17-120*			*M-02, M-04*
Nitrobenzene-d5	*38.7*		*ug/l*	*50.0*		*77*	*47-120*			*M-02, M-04*
Phenol-d5	*40.7*		*ug/l*	*100*		*41*	*12-120*			*M-02, M-04*
Terphenyl-d14	*43.8*		*ug/l*	*50.0*		*88*	*44-129*			*M-02, M-04*
Matrix Spike Dup (W0H1350-MSD2)	**Source: 0H19013-02**			**Prepared: 08/25/20**	**Analyzed: 09/15/20**					
1,2,4-Trichlorobenzene	178	10	ug/l	250	ND	71	44-142	3	30	M-02
1,2-Dichlorobenzene	162	10	ug/l	250	ND	65	51-120	0.4	30	M-02
1,3-Dichlorobenzene	158	10	ug/l	250	ND	63	37-120	0.7	30	M-02
1,4-Dichlorobenzene	159	10	ug/l	250	ND	63	39-120	0.2	30	M-02
2,4,6-Trichlorophenol	188	10	ug/l	250	15.4	69	37-144	2	30	M-02
2,4-Dichlorophenol	238	10	ug/l	250	ND	95	39-135	6	30	M-02
2,4-Dimethylphenol	246	10	ug/l	250	ND	98	32-120	5	30	M-02
2,4-Dinitrophenol	289	50	ug/l	250	ND	116	0.1-191	2	30	M-02
2,4-Dinitrotoluene	165	10	ug/l	250	19.1	58	39-139	0.06	30	M-02
2,6-Dinitrotoluene	161	10	ug/l	250	ND	64	50-158	3	30	M-02
2-Chloronaphthalene	182	10	ug/l	250	ND	73	60-120	3	30	M-02
2-Chlorophenol	199	10	ug/l	250	ND	79	23-134	7	30	M-02
2-Methyl-4,6-dinitrophenol	205	10	ug/l	250	ND	82	0.1-181	0.1	30	M-02
2-Nitrophenol	209	10	ug/l	250	ND	83	29-182	4	30	M-02
3,3'-Dichlorobenzidine	69.7	10	ug/l	250	ND	28	0.1-262	0.9	30	M-02
4-Bromophenyl phenyl ether	168	10	ug/l	250	ND	67	53-127	2	30	M-02
4-Chloro-3-methylphenol	181	10	ug/l	250	ND	72	22-147	0.01	30	M-02

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Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1350 - EPA 625.1 (Continued)										
Matrix Spike Dup (W0H1350-MSD2)	**Source: 0H19013-02**			**Prepared: 08/25/20**	**Analyzed: 09/15/20**					
4-Chlorophenyl phenyl ether	148	10	ug/l	250	ND	59	25-158	1	30	M-02
4-Nitrophenol	87.1	20	ug/l	250	31.3	22	0.1-132	0.4	30	M-02
Acenaphthene	161	10	ug/l	250	ND	64	47-145	0.3	30	M-02
Acenaphthylene	197	10	ug/l	250	ND	79	33-145	1	30	M-02
Anthracene	192	10	ug/l	250	ND	77	27-133	4	30	M-02
Benzo (a) anthracene	163	10	ug/l	250	ND	65	33-143	0.2	30	M-02
Benzo (a) pyrene	130	10	ug/l	250	ND	52	17-163	4	30	M-02
Benzo (b) fluoranthene	156	10	ug/l	250	ND	62	24-159	7	30	M-02, AN-IP
Benzo (g,h,i) perylene	130	10	ug/l	250	ND	52	0.1-219	6	30	M-02
Benzo (k) fluoranthene	142	10	ug/l	250	ND	57	11-162	0.7	30	M-02, AN-IP
Bis(2-chloroethoxy)methane	195	10	ug/l	250	ND	78	33-184	5	30	M-02
Bis(2-chloroethyl)ether	169	10	ug/l	250	ND	68	12-158	3	30	M-02
Bis(2-chloroisopropyl)ether	177	10	ug/l	250	ND	71	36-166	3	30	M-02
Bis(2-ethylhexyl)phthalate	214	20	ug/l	250	39.5	70	8-158	5	30	M-02
Butyl benzyl phthalate	177	10	ug/l	250	ND	71	0.1-152	2	30	M-02
Chrysene	191	10	ug/l	250	ND	76	17-168	6	30	M-02
Dibenzo (a,h) anthracene	132	10	ug/l	250	ND	53	0.1-227	5	30	M-02
Diethyl phthalate	158	10	ug/l	250	ND	63	0.1-120	0.3	30	M-02
Dimethyl phthalate	152	10	ug/l	250	ND	61	0.1-120	3	30	M-02
Di-n-butyl phthalate	203	10	ug/l	250	1.71	81	1-120	2	30	M-02
Di-n-octyl phthalate	202	10	ug/l	250	ND	81	4-146	0.1	30	M-02
Fluoranthene	192	10	ug/l	250	ND	77	26-137	3	30	M-02
Fluorene	156	10	ug/l	250	ND	63	59-121	3	30	M-02
Hexachlorobenzene	165	10	ug/l	250	ND	66	0.1-152	2	30	M-02
Hexachlorobutadiene	183	10	ug/l	250	ND	73	24-120	2	30	M-02
Hexachlorocyclopentadiene	131	50	ug/l	250	ND	52	10-120	5	30	M-02
Hexachloroethane	167	10	ug/l	250	ND	67	40-120	0.4	30	M-02
Indeno (1,2,3-cd) pyrene	139	10	ug/l	250	ND	56	0.1-171	5	30	M-02
Isophorone	182	10	ug/l	250	ND	73	21-196	6	30	M-02
Naphthalene	173	10	ug/l	250	ND	69	21-133	1	30	M-02
Nitrobenzene	179	10	ug/l	250	ND	72	35-180	4	30	M-02
N-Nitrosodimethylamine	114	10	ug/l	250	ND	46	18-120	3	30	M-02
N-Nitrosodi-n-propylamine	197	10	ug/l	250	ND	79	0.1-230	4	30	M-02
N-Nitrosodiphenylamine	84.9	10	ug/l	250	ND	34	49-120	0.5	30	M-02, MS-07
Pentachlorophenol	225	10	ug/l	250	ND	90	0.1-133	3	30	M-02
Phenanthrene	201	10	ug/l	250	ND	81	54-120	3	30	M-02
Phenol	105	10	ug/l	250	3.20	41	5-120	11	30	M-02
Pyrene	191	10	ug/l	250	ND	77	52-120	2	30	M-02

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Quality Control Results

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Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1350 - EPA 625.1 (Continued)										
Matrix Spike Dup (W0H1350-MSD2)	**Source: 0H19013-02**			**Prepared: 08/25/20 Analyzed: 09/15/20**						
Surrogate(s)										
2,4,6-Tribromophenol	*361*		*ug/l*	*500*		*72*	*25-120*			*M-02*
2-Fluorobiphenyl	*178*		*ug/l*	*250*		*71*	*22-120*			*M-02*
2-Fluorophenol	*292*		*ug/l*	*500*		*58*	*17-120*			*M-02*
Nitrobenzene-d5	*179*		*ug/l*	*250*		*71*	*47-120*			*M-02*
Phenol-d5	*213*		*ug/l*	*500*		*43*	*12-120*			*M-02*
Terphenyl-d14	*226*		*ug/l*	*250*		*90*	*44-129*			*M-02*

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Quality Control Results

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Anions by IC, EPA Method 300.1

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1446 - EPA 300.1										
Blank (W0H1446-BLK1)				**Prepared & Analyzed: 08/26/20**						
Bromate	ND	5.0	ug/l							
Chlorite	ND	10	ug/l							
Surrogate(s)										
Dichloroacetate	*513*		*ug/l*	*500*		*103*	*90-115*			
Dichloroacetate	*513*		*ug/l*	*500*		*103*	*90-115*			
LCS (W0H1446-BS1)				**Prepared & Analyzed: 08/26/20**						
Bromate	97.8	5.0	ug/l	100		98	85-115			
Chlorite	98.4	10	ug/l	100		98	85-115			
Surrogate(s)										
Dichloroacetate	*569*		*ug/l*	*500*		*114*	*90-115*			
Dichloroacetate	*569*		*ug/l*	*500*		*114*	*90-115*			
Matrix Spike (W0H1446-MS1)	**Source: 0H14013-01**			**Prepared & Analyzed: 08/26/20**						
Bromate	95.8	5.0	ug/l	100	ND	96	64-133			
Chlorite	96.0	10	ug/l	100	ND	96	78-129			
Surrogate(s)										
Dichloroacetate	*546*		*ug/l*	*500*		*109*	*90-115*			
Dichloroacetate	*546*		*ug/l*	*500*		*109*	*90-115*			
Matrix Spike (W0H1446-MS2)	**Source: 0H25036-01**			**Prepared & Analyzed: 08/26/20**						
Bromate	121	5.0	ug/l	100	ND	121	64-133			
Chlorite	102	10	ug/l	100	ND	102	78-129			
Surrogate(s)										
Dichloroacetate	*525*		*ug/l*	*500*		*105*	*90-115*			
Dichloroacetate	*525*		*ug/l*	*500*		*105*	*90-115*			
Matrix Spike Dup (W0H1446-MSD1)	**Source: 0H14013-01**			**Prepared & Analyzed: 08/26/20**						
Bromate	100	5.0	ug/l	100	ND	100	64-133	5	20	
Chlorite	93.4	10	ug/l	100	ND	93	78-129	3	20	
Surrogate(s)										
Dichloroacetate	*538*		*ug/l*	*500*		*108*	*90-115*			
Dichloroacetate	*538*		*ug/l*	*500*		*108*	*90-115*			
Matrix Spike Dup (W0H1446-MSD2)	**Source: 0H25036-01**			**Prepared & Analyzed: 08/26/20**						
Bromate	100	5.0	ug/l	100	ND	100	64-133	18	20	
Chlorite	95.4	10	ug/l	100	ND	95	78-129	7	20	
Surrogate(s)										
Dichloroacetate	*561*		*ug/l*	*500*		*112*	*90-115*			
Dichloroacetate	*561*		*ug/l*	*500*		*112*	*90-115*			

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Quality Control Results

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Carbamates and Urea Pesticides

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0178 - EPA 531.2										
Blank (W0I0178-BLK1)				**Prepared: 09/02/20**	**Analyzed: 09/09/20**					
3-Hydroxycarbofuran	ND	2.0	ug/l							
Aldicarb	ND	2.0	ug/l							
Aldicarb sulfone	ND	2.0	ug/l							
Aldicarb sulfoxide	ND	2.0	ug/l							
Carbaryl	ND	2.0	ug/l							
Carbofuran	ND	2.0	ug/l							
Methiocarb	ND	2.0	ug/l							
Methomyl	ND	2.0	ug/l							
Oxamyl	ND	2.0	ug/l							
Propoxur (Baygon)	ND	2.0	ug/l							
Surrogate(s)										
BDMC	*8.65*		*ug/l*	*10.0*		*87*	*70-130*			
LCS (W0I0178-BS1)				**Prepared: 09/02/20**	**Analyzed: 09/09/20**					
3-Hydroxycarbofuran	10.8	2.0	ug/l	10.0		108	70-130			
Aldicarb	9.56	2.0	ug/l	10.0		96	70-130			
Aldicarb sulfone	12.3	2.0	ug/l	10.0		123	70-130			
Aldicarb sulfoxide	11.1	2.0	ug/l	10.0		111	70-130			
Carbaryl	10.6	2.0	ug/l	10.0		106	70-130			
Carbofuran	12.4	2.0	ug/l	10.0		124	70-130			
Methiocarb	11.4	2.0	ug/l	10.0		114	70-130			
Methomyl	12.6	2.0	ug/l	10.0		126	70-130			
Oxamyl	11.9	2.0	ug/l	10.0		119	70-130			
Propoxur (Baygon)	12.5	2.0	ug/l	10.0		125	70-130			
Surrogate(s)										
BDMC	*10.7*		*ug/l*	*10.0*		*107*	*70-130*			
Matrix Spike (W0I0178-MS1)	**Source: 0H18001-01**			**Prepared: 09/02/20**	**Analyzed: 09/09/20**					
3-Hydroxycarbofuran	11.6	2.0	ug/l	10.0	ND	116	70-130			
Aldicarb	10.4	2.0	ug/l	10.0	ND	104	70-130			
Aldicarb sulfone	11.6	2.0	ug/l	10.0	ND	116	70-130			
Aldicarb sulfoxide	12.0	2.0	ug/l	10.0	ND	120	70-130			
Carbaryl	10.5	2.0	ug/l	10.0	ND	105	70-130			
Carbofuran	11.1	2.0	ug/l	10.0	ND	111	70-130			
Methiocarb	11.2	2.0	ug/l	10.0	ND	112	70-130			
Methomyl	11.5	2.0	ug/l	10.0	ND	115	70-130			
Oxamyl	10.7	2.0	ug/l	10.0	ND	107	70-130			
Propoxur (Baygon)	11.2	2.0	ug/l	10.0	ND	112	70-130			
Surrogate(s)										
BDMC	*10.4*		*ug/l*	*10.0*		*104*	*70-130*			
Matrix Spike Dup (W0I0178-MSD1)	**Source: 0H18001-01**			**Prepared: 09/02/20**	**Analyzed: 09/09/20**					
3-Hydroxycarbofuran	11.0	2.0	ug/l	10.0	ND	110	70-130	5	30	

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Quality Control Results

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Carbamates and Urea Pesticides (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0178 - EPA 531.2 (Continued)										
Matrix Spike Dup (W0I0178-MSD1)	**Source: 0H18001-01**			**Prepared: 09/02/20**	**Analyzed: 09/09/20**					
Aldicarb	11.1	2.0	ug/l	10.0	ND	111	70-130	6	30	
Aldicarb sulfone	10.7	2.0	ug/l	10.0	ND	107	70-130	8	30	
Aldicarb sulfoxide	11.3	2.0	ug/l	10.0	ND	113	70-130	6	30	
Carbaryl	10.4	2.0	ug/l	10.0	ND	104	70-130	0.6	30	
Carbofuran	11.2	2.0	ug/l	10.0	ND	112	70-130	0.9	30	
Methiocarb	11.5	2.0	ug/l	10.0	ND	115	70-130	3	30	
Methomyl	11.5	2.0	ug/l	10.0	ND	115	70-130	0.1	30	
Oxamyl	13.0	2.0	ug/l	10.0	ND	130	70-130	19	30	
Propoxur (Baygon)	12.2	2.0	ug/l	10.0	ND	122	70-130	9	30	
Surrogate(s)										
BDMC	*10.2*		*ug/l*	*10.0*		*102*	*70-130*			

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Quality Control Results

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Chlorinated Acids Herbicides by GC/ECD

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0008 - EPA 515.4										
Blank (W0I0008-BLK1)				**Prepared: 09/01/20 Analyzed: 09/02/20**						
2,4,5-T	ND	0.20	ug/l							
2,4,5-TP (Silvex)	ND	0.20	ug/l							
2,4-D	ND	0.40	ug/l							
2,4-DB	ND	2.0	ug/l							
3,5-Dichlorobenzoic acid	ND	1.0	ug/l							
Acifluorfen	ND	0.40	ug/l							
Bentazon	ND	2.0	ug/l							
Dalapon	ND	0.40	ug/l							
DCPA	ND	0.10	ug/l							
Dicamba	ND	0.60	ug/l							
Dichloroprop	ND	0.30	ug/l							
Dinoseb	ND	0.40	ug/l							
Pentachlorophenol	ND	0.20	ug/l							
Picloram	ND	0.60	ug/l							
Surrogate(s)										
2,4-DCAA	*11.1*		*ug/l*	*10.0*		*111*	*70-130*			
LCS (W0I0008-BS1)				**Prepared: 09/01/20 Analyzed: 09/02/20**						
2,4,5-T	4.22	0.20	ug/l	4.00		106	70-130			
2,4,5-TP (Silvex)	4.19	0.20	ug/l	4.00		105	70-130			
2,4-D	8.75	0.40	ug/l	8.00		109	70-130			
2,4-DB	19.4	2.0	ug/l	16.0		121	70-130			
3,5-Dichlorobenzoic acid	8.55	1.0	ug/l	8.00		107	70-130			
Acifluorfen	4.33	0.40	ug/l	4.00		108	70-130			
Bentazon	16.5	2.0	ug/l	16.0		103	70-130			
Dalapon	9.60	0.40	ug/l	8.00		120	70-130			
DCPA	4.70	0.10	ug/l	4.00		118	70-130			
Dicamba	8.29	0.60	ug/l	8.00		104	70-130			
Dichloroprop	8.60	0.30	ug/l	8.00		107	70-130			
Dinoseb	4.15	0.40	ug/l	4.00		104	70-130			
Pentachlorophenol	4.78	0.20	ug/l	4.00		120	70-130			
Picloram	4.71	0.60	ug/l	4.00		118	70-130			
Surrogate(s)										
2,4-DCAA	*12.1*		*ug/l*	*10.0*		*121*	*70-130*			
Matrix Spike (W0I0008-MS1)	**Source: 0H25012-01**			**Prepared: 09/01/20 Analyzed: 09/02/20**						
2,4,5-T	4.23	0.20	ug/l	4.00	ND	106	70-130			
2,4,5-TP (Silvex)	4.29	0.20	ug/l	4.00	ND	107	70-130			
2,4-D	8.65	0.40	ug/l	8.00	ND	108	70-130			
2,4-DB	23.0	2.0	ug/l	16.0	ND	144	70-130			MS-07
3,5-Dichlorobenzoic acid	8.78	1.0	ug/l	8.00	ND	110	70-130			

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Project Number: EO-432391

Project Manager: Ranjit Clarke

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09/22/2020 09:25

Quality Control Results

(Continued)

Chlorinated Acids Herbicides by GC/ECD (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0008 - EPA 515.4 (Continued)										
Matrix Spike (W0I0008-MS1)	**Source: 0H25012-01**			**Prepared: 09/01/20**	**Analyzed: 09/02/20**					
Acifluorfen	4.31	0.40	ug/l	4.00	ND	108	70-130			
Bentazon	16.5	2.0	ug/l	16.0	ND	103	70-130			
Dalapon	8.80	0.40	ug/l	8.00	ND	110	70-130			
DCPA	4.59	0.10	ug/l	4.00	ND	115	70-130			
Dicamba	8.34	0.60	ug/l	8.00	ND	104	70-130			
Dichloroprop	8.70	0.30	ug/l	8.00	ND	109	70-130			
Dinoseb	4.08	0.40	ug/l	4.00	ND	102	70-130			
Pentachlorophenol	4.76	0.20	ug/l	4.00	ND	119	70-130			
Picloram	4.62	0.60	ug/l	4.00	ND	116	70-130			
Surrogate(s)										
2,4-DCAA	*12.3*		*ug/l*	*10.0*		*123*	*70-130*			
Matrix Spike Dup (W0I0008-MSD1)	**Source: 0H25012-01**			**Prepared: 09/01/20**	**Analyzed: 09/02/20**					
2,4,5-T	4.18	0.20	ug/l	4.00	ND	104	70-130	1	30	
2,4,5-TP (Silvex)	4.22	0.20	ug/l	4.00	ND	106	70-130	1	30	
2,4-D	8.59	0.40	ug/l	8.00	ND	107	70-130	0.8	30	
2,4-DB	23.1	2.0	ug/l	16.0	ND	144	70-130	0.4	30	MS-07
3,5-Dichlorobenzoic acid	8.73	1.0	ug/l	8.00	ND	109	70-130	0.6	30	
Acifluorfen	4.19	0.40	ug/l	4.00	ND	105	70-130	3	30	
Bentazon	16.4	2.0	ug/l	16.0	ND	103	70-130	0.2	30	
Dalapon	8.87	0.40	ug/l	8.00	ND	111	70-130	0.8	30	
DCPA	4.55	0.10	ug/l	4.00	ND	114	70-130	1	30	
Dicamba	8.25	0.60	ug/l	8.00	ND	103	70-130	1	30	
Dichloroprop	8.61	0.30	ug/l	8.00	ND	108	70-130	1	30	
Dinoseb	3.98	0.40	ug/l	4.00	ND	100	70-130	2	30	
Pentachlorophenol	4.72	0.20	ug/l	4.00	ND	118	70-130	0.9	30	
Picloram	4.57	0.60	ug/l	4.00	ND	114	70-130	1	30	
Surrogate(s)										
2,4-DCAA	*12.3*		*ug/l*	*10.0*		*123*	*70-130*			

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Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1227 - EPA 508										
Blank (W0H1227-BLK1)				**Prepared: 08/21/20 Analyzed: 09/02/20**						
4,4´-DDD	ND	0.010	ug/l							
4,4´-DDE	ND	0.010	ug/l							
4,4´-DDT	ND	0.010	ug/l							
Aldrin	ND	0.010	ug/l							
alpha-BHC	ND	0.010	ug/l							
Aroclor 1016	ND	0.10	ug/l							
Aroclor 1221	ND	0.10	ug/l							
Aroclor 1232	ND	0.10	ug/l							
Aroclor 1242	ND	0.10	ug/l							
Aroclor 1248	ND	0.10	ug/l							
Aroclor 1254	ND	0.10	ug/l							
Aroclor 1260	ND	0.10	ug/l							
beta-BHC	ND	0.010	ug/l							
Chlordane (tech)	ND	0.10	ug/l							
Chlorothalonil	ND	0.050	ug/l							
delta-BHC	ND	0.010	ug/l							
Dieldrin	ND	0.010	ug/l							
Endosulfan I	ND	0.010	ug/l							
Endosulfan II	ND	0.010	ug/l							
Endosulfan sulfate	ND	0.010	ug/l							
Endrin	ND	0.010	ug/l							
Endrin aldehyde	ND	0.010	ug/l							
gamma-BHC (Lindane)	ND	0.010	ug/l							
Heptachlor	ND	0.010	ug/l							
Heptachlor epoxide	ND	0.010	ug/l							
Hexachlorobenzene	ND	0.050	ug/l							
Hexachlorocyclopentadiene	ND	0.050	ug/l							
Methoxychlor	ND	0.010	ug/l							
PCBs, Total	ND	0.50	ug/l							
Propachlor	ND	0.050	ug/l							
Toxaphene	ND	0.50	ug/l							
Trifluralin	ND	0.010	ug/l							
Surrogate(s)										
Decachlorobiphenyl	*0.0882*		*ug/l*	*0.100*		*88*	*70-130*			
Tetrachloro-meta-xylene	*0.0713*		*ug/l*	*0.100*		*71*	*70-130*			
LCS (W0H1227-BS1)				**Prepared: 08/21/20 Analyzed: 09/02/20**						
4,4´-DDD	0.0862	0.010	ug/l	0.100		86	77-137			
4,4´-DDE	0.0898	0.010	ug/l	0.100		90	69-129			
4,4´-DDT	0.102	0.010	ug/l	0.100		102	82-142			

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Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1227 - EPA 508 (Continued)										
LCS (W0H1227-BS1)				**Prepared: 08/21/20 Analyzed: 09/02/20**						
Aldrin	0.0791	0.010	ug/l	0.100		79	56-116			
alpha-BHC	0.0848	0.010	ug/l	0.100		85	62-122			
beta-BHC	0.0924	0.010	ug/l	0.100		92	65-125			
delta-BHC	0.101	0.010	ug/l	0.100		101	72-132			
Dieldrin	0.0860	0.010	ug/l	0.100		86	57-117			
Endosulfan I	0.0728	0.010	ug/l	0.100		73	57-117			
Endosulfan II	0.0840	0.010	ug/l	0.100		84	62-122			
Endosulfan sulfate	0.0978	0.010	ug/l	0.100		98	72-132			
Endrin	0.0949	0.010	ug/l	0.100		95	58-118			
Endrin aldehyde	0.103	0.010	ug/l	0.100		103	58-118			
gamma-BHC (Lindane)	0.0867	0.010	ug/l	0.100		87	59-119			
Heptachlor	0.0874	0.010	ug/l	0.100		87	68-128			
Heptachlor epoxide	0.0866	0.010	ug/l	0.100		87	57-117			
Methoxychlor	0.0991	0.010	ug/l	0.100		99	75-135			
Surrogate(s)										
Decachlorobiphenyl	*0.0963*		*ug/l*	*0.100*		*96*	*70-130*			
Tetrachloro-meta-xylene	*0.0759*		*ug/l*	*0.100*		*76*	*70-130*			
LCS Dup (W0H1227-BSD1)				**Prepared: 08/21/20 Analyzed: 09/02/20**						
4,4´-DDD	0.0913	0.010	ug/l	0.100		91	77-137	6	20	
4,4´-DDE	0.0925	0.010	ug/l	0.100		92	69-129	3	20	
4,4´-DDT	0.109	0.010	ug/l	0.100		109	82-142	6	20	
Aldrin	0.0778	0.010	ug/l	0.100		78	56-116	2	20	
alpha-BHC	0.0906	0.010	ug/l	0.100		91	62-122	7	20	
beta-BHC	0.0990	0.010	ug/l	0.100		99	65-125	7	20	
delta-BHC	0.107	0.010	ug/l	0.100		107	72-132	6	20	
Dieldrin	0.0915	0.010	ug/l	0.100		92	57-117	6	20	
Endosulfan I	0.0773	0.010	ug/l	0.100		77	57-117	6	20	
Endosulfan II	0.0894	0.010	ug/l	0.100		89	62-122	6	20	
Endosulfan sulfate	0.103	0.010	ug/l	0.100		103	72-132	5	20	
Endrin	0.100	0.010	ug/l	0.100		100	58-118	6	20	
Endrin aldehyde	0.102	0.010	ug/l	0.100		102	58-118	1	20	
gamma-BHC (Lindane)	0.0925	0.010	ug/l	0.100		93	59-119	7	20	
Heptachlor	0.0853	0.010	ug/l	0.100		85	68-128	2	20	
Heptachlor epoxide	0.0903	0.010	ug/l	0.100		90	57-117	4	20	
Methoxychlor	0.107	0.010	ug/l	0.100		107	75-135	8	20	
Surrogate(s)										
Decachlorobiphenyl	*0.0970*		*ug/l*	*0.100*		*97*	*70-130*			
Tetrachloro-meta-xylene	*0.0763*		*ug/l*	*0.100*		*76*	*70-130*			

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Quality Control Results (Continued)

Diquat and Paraquat by EPA 549.2

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1195 - EPA 549.2										
Blank (W0H1195-BLK1)				**Prepared: 08/21/20**	**Analyzed: 08/31/20**					
Diquat	ND	4.0	ug/l							
Paraquat	ND	4.0	ug/l							
LCS (W0H1195-BS1)				**Prepared: 08/21/20**	**Analyzed: 08/31/20**					
Diquat	17.3	4.0	ug/l	20.0		86	70-130			
Paraquat	15.9	4.0	ug/l	20.0		80	70-130			
Matrix Spike (W0H1195-MS1)	**Source: 0G21010-02**			**Prepared: 08/21/20**	**Analyzed: 08/31/20**					
Diquat	15.2	4.0	ug/l	20.0	ND	76	46-122			
Paraquat	17.2	4.0	ug/l	20.0	ND	86	38-129			
Matrix Spike (W0H1195-MS2)	**Source: 0G21010-01**			**Prepared: 08/21/20**	**Analyzed: 08/31/20**					
Diquat	13.5	4.0	ug/l	20.0	ND	68	46-122			
Paraquat	16.8	4.0	ug/l	20.0	ND	84	38-129			
Matrix Spike Dup (W0H1195-MSD1)	**Source: 0G21010-02**			**Prepared: 08/21/20**	**Analyzed: 08/31/20**					
Diquat	13.5	4.0	ug/l	20.0	ND	68	46-122	12	30	
Paraquat	15.5	4.0	ug/l	20.0	ND	78	38-129	11	30	
Matrix Spike Dup (W0H1195-MSD2)	**Source: 0G21010-01**			**Prepared: 08/21/20**	**Analyzed: 08/31/20**					
Diquat	13.9	4.0	ug/l	20.0	ND	70	46-122	3	30	
Paraquat	17.2	4.0	ug/l	20.0	ND	86	38-129	2	30	

Quality Control Results (Continued)

Endothall By EPA 548.1

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1346 - EPA 548.1										
Blank (W0H1346-BLK1)				**Prepared: 08/25/20**	**Analyzed: 08/27/20**					
Endothall	ND	40	ug/l							
LCS (W0H1346-BS1)				**Prepared: 08/25/20**	**Analyzed: 08/27/20**					
Endothall	73.7	40	ug/l	100		74	31-117			
Matrix Spike (W0H1346-MS1)	**Source: 0H20013-05**			**Prepared: 08/25/20**	**Analyzed: 08/27/20**					
Endothall	19.2	80	ug/l	200	ND	10	0.1-109			
Matrix Spike Dup (W0H1346-MSD1)	**Source: 0H20013-05**			**Prepared: 08/25/20**	**Analyzed: 08/27/20**					
Endothall	18.0	80	ug/l	200	ND	9	0.1-109	7	30	

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Quality Control Results

(Continued)

Glyphosate by EPA 547

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1697 - EPA 547										
Blank (W0H1697-BLK1)				**Prepared: 08/31/20**	**Analyzed: 09/01/20**					
Glyphosate	ND	5.0	ug/l							
LCS (W0H1697-BS1)				**Prepared: 08/31/20**	**Analyzed: 09/01/20**					
Glyphosate	22.1	5.0	ug/l	25.0		88	70-130			
Matrix Spike (W0H1697-MS1)	**Source: 0H17059-01**			**Prepared: 08/31/20**	**Analyzed: 09/01/20**					
Glyphosate	21.3	5.0	ug/l	25.0	ND	85	41-149			
Matrix Spike (W0H1697-MS2)	**Source: 0H24043-01**			**Prepared: 08/31/20**	**Analyzed: 09/01/20**					
Glyphosate	23.0	5.0	ug/l	25.0	ND	92	41-149			
Matrix Spike Dup (W0H1697-MSD1)	**Source: 0H17059-01**			**Prepared: 08/31/20**	**Analyzed: 09/01/20**					
Glyphosate	21.8	5.0	ug/l	25.0	ND	87	41-149	2	30	
Matrix Spike Dup (W0H1697-MSD2)	**Source: 0H24043-01**			**Prepared: 08/31/20**	**Analyzed: 09/01/20**					
Glyphosate	22.8	5.0	ug/l	25.0	ND	91	41-149	0.6	30	

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Quality Control Results

(Continued)

Haloacetic Acids (HAAs) by GC/ECD

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1510 - EPA 552.3										
Blank (W0H1510-BLK1)				**Prepared: 08/27/20**	**Analyzed: 08/28/20**					
Dibromoacetic acid (dbaa)	ND	1.0	ug/l							
Dichloroacetic acid (dcaa)	ND	1.0	ug/l							
HAA5, Total	ND	1.0	ug/l							
Monobromoacetic acid (mbaa)	ND	1.0	ug/l							
Monochloroacetic acid (mcaa)	ND	2.0	ug/l							
Trichloroacetic acid (tcaa)	ND	1.0	ug/l							
Surrogate(s)										
2-Bromobutyric acid	*9.76*		*ug/l*	*10.0*		*98*	*70-130*			
LCS (W0H1510-BS1)				**Prepared: 08/27/20**	**Analyzed: 08/28/20**					
Dibromoacetic acid (dbaa)	9.81	1.0	ug/l	10.0		98	70-130			
Dichloroacetic acid (dcaa)	9.56	1.0	ug/l	10.0		96	70-130			
Monobromoacetic acid (mbaa)	9.60	1.0	ug/l	10.0		96	70-130			
Monochloroacetic acid (mcaa)	10.2	2.0	ug/l	10.0		102	70-130			
Trichloroacetic acid (tcaa)	9.92	1.0	ug/l	10.0		99	70-130			
Surrogate(s)										
2-Bromobutyric acid	*9.97*		*ug/l*	*10.0*		*100*	*70-130*			
Matrix Spike (W0H1510-MS1)	**Source: 0G21009-01**			**Prepared: 08/27/20**	**Analyzed: 08/29/20**					
Dibromoacetic acid (dbaa)	10.0	1.0	ug/l	10.0	ND	100	70-130			
Dichloroacetic acid (dcaa)	9.78	1.0	ug/l	10.0	ND	98	70-130			
Monobromoacetic acid (mbaa)	9.51	1.0	ug/l	10.0	ND	95	70-130			
Monochloroacetic acid (mcaa)	9.14	2.0	ug/l	10.0	ND	91	70-130			
Trichloroacetic acid (tcaa)	10.1	1.0	ug/l	10.0	ND	101	70-130			
Surrogate(s)										
2-Bromobutyric acid	*9.68*		*ug/l*	*10.0*		*97*	*70-130*			
Matrix Spike Dup (W0H1510-MSD1)	**Source: 0G21009-01**			**Prepared: 08/27/20**	**Analyzed: 08/29/20**					
Dibromoacetic acid (dbaa)	10.1	1.0	ug/l	10.0	ND	101	70-130	0.3	30	
Dichloroacetic acid (dcaa)	9.69	1.0	ug/l	10.0	ND	97	70-130	1	30	
Monobromoacetic acid (mbaa)	8.58	1.0	ug/l	10.0	ND	86	70-130	10	30	
Monochloroacetic acid (mcaa)	9.27	2.0	ug/l	10.0	ND	93	70-130	1	30	
Trichloroacetic acid (tcaa)	10.4	1.0	ug/l	10.0	ND	104	70-130	3	30	
Surrogate(s)										
2-Bromobutyric acid	*9.73*		*ug/l*	*10.0*		*97*	*70-130*			

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Quality Control Results (Continued)

Hexavalent Chromium by IC

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0002 - EPA 218.6										
Blank (W0I0002-BLK1)				**Prepared & Analyzed: 09/01/20**						
Chromium 6+	ND	0.020	ug/l							
LCS (W0I0002-BS1)				**Prepared & Analyzed: 09/01/20**						
Chromium 6+	4.70	0.020	ug/l	5.00		94	90-110			
Matrix Spike (W0I0002-MS1)	**Source: 0H18001-01**			**Prepared & Analyzed: 09/01/20**						
Chromium 6+	12.2	0.020	ug/l	5.00	7.37	96	88-112			
Matrix Spike (W0I0002-MS2)	**Source: 0H19008-01**			**Prepared & Analyzed: 09/01/20**						
Chromium 6+	8.70	0.020	ug/l	5.00	3.90	96	88-112			
Matrix Spike Dup (W0I0002-MSD1)	**Source: 0H18001-01**			**Prepared & Analyzed: 09/01/20**						
Chromium 6+	12.2	0.020	ug/l	5.00	7.37	97	88-112	0.5	10	
Matrix Spike Dup (W0I0002-MSD2)	**Source: 0H19008-01**			**Prepared & Analyzed: 09/01/20**						
Chromium 6+	8.76	0.020	ug/l	5.00	3.90	97	88-112	0.6	10	

Quality Control Results (Continued)

Nitrosamines by isotopic dilution GC/MS CI Mode

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1369 - EPA 1625M										
Blank (W0H1369-BLK1)				**Prepared: 08/25/20 Analyzed: 08/31/20**						
N-Nitrosodimethylamine	ND	2.0	ng/l							
LCS (W0H1369-BS1)				**Prepared: 08/25/20 Analyzed: 08/31/20**						
N-Nitrosodimethylamine	2.62	2.0	ng/l	2.00		131	50-150			
LCS Dup (W0H1369-BSD1)				**Prepared: 08/25/20 Analyzed: 08/31/20**						
N-Nitrosodimethylamine	2.01	2.0	ng/l	2.00		100	50-150	26	50	

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Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1512 - EPA 525.2										
Blank (W0H1512-BLK1)				**Prepared: 08/27/20 Analyzed: 09/01/20**						
Alachlor	ND	0.10	ug/l							
Atrazine	ND	0.10	ug/l							
Benzo (a) pyrene	ND	0.10	ug/l							
Bis(2-ethylhexyl)adipate	ND	2.0	ug/l							
Bis(2-ethylhexyl)phthalate	ND	2.0	ug/l							
Bromacil	ND	0.50	ug/l							
Butachlor	ND	0.10	ug/l							
Captan	ND	1.0	ug/l							
Chlorpropham	ND	0.10	ug/l							
Cyanazine	ND	0.10	ug/l							
Diazinon	ND	0.10	ug/l							
Dimethoate	ND	0.20	ug/l							
Diphenamid	ND	0.10	ug/l							
Disulfoton	ND	0.10	ug/l							
EPTC	ND	0.10	ug/l							
Metolachlor	ND	0.10	ug/l							
Metribuzin	ND	0.10	ug/l							
Molinate	ND	0.10	ug/l							
Prometon	ND	0.10	ug/l							
Prometryn	ND	0.10	ug/l							
Simazine	ND	0.10	ug/l							
Terbacil	ND	2.0	ug/l							
Thiobencarb	ND	0.10	ug/l							
Trithion	ND	0.10	ug/l							
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.85*		*ug/l*	*5.00*		*97*	*70-130*			
Perylene-d12	*3.94*		*ug/l*	*5.00*		*79*	*50-120*			
Triphenyl phosphate	*3.94*		*ug/l*	*5.00*		*79*	*70-130*			
LCS (W0H1512-BS1)				**Prepared: 08/27/20 Analyzed: 09/01/20**						
Alachlor	4.60	0.10	ug/l	5.00		92	70-130			
Atrazine	5.43	0.10	ug/l	5.00		109	70-130			
Benzo (a) pyrene	4.09	0.10	ug/l	5.00		82	60-130			
Bis(2-ethylhexyl)adipate	4.29	2.0	ug/l	5.00		86	70-130			
Bis(2-ethylhexyl)phthalate	4.51	2.0	ug/l	5.00		90	70-130			
Bromacil	4.19	0.50	ug/l	5.00		84	70-130			
Butachlor	4.69	0.10	ug/l	5.00		94	70-130			
Captan	3.23	1.0	ug/l	5.00		65	70-130			Q-ME
Chlorpropham	4.78	0.10	ug/l	5.00		96	70-130			
Cyanazine	5.30	0.10	ug/l	5.00		106	70-130			

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Project Number: EO-432391

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:25

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1512 - EPA 525.2 (Continued)										
LCS (W0H1512-BS1)				**Prepared: 08/27/20 Analyzed: 09/01/20**						
Diazinon	3.81	0.10	ug/l	5.00		76	50-120			
Dimethoate	3.41	0.20	ug/l	5.00		68	50-120			
Diphenamid	5.47	0.10	ug/l	5.00		109	70-130			
Disulfoton	4.57	0.10	ug/l	5.00		91	50-120			
EPTC	5.57	0.10	ug/l	5.00		111	70-130			
Metolachlor	5.03	0.10	ug/l	5.00		101	60-130			
Metribuzin	3.71	0.10	ug/l	5.00		74	50-120			
Molinate	5.13	0.10	ug/l	5.00		103	70-130			
Prometon	2.01	0.10	ug/l	5.00		40	15-120			
Prometryn	3.56	0.10	ug/l	5.00		71	30-120			
Simazine	4.87	0.10	ug/l	5.00		97	60-130			
Terbacil	5.31	2.0	ug/l	5.00		106	70-130			
Thiobencarb	5.46	0.10	ug/l	5.00		109	70-130			
Trithion	4.25	0.10	ug/l	5.00		85	70-130			
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.64*		*ug/l*	*5.00*		*93*	*70-130*			
Perylene-d12	*4.48*		*ug/l*	*5.00*		*90*	*50-120*			
Triphenyl phosphate	*4.47*		*ug/l*	*5.00*		*89*	*70-130*			
LCS Dup (W0H1512-BSD1)				**Prepared: 08/27/20 Analyzed: 09/01/20**						
Alachlor	5.11	0.10	ug/l	5.00		102	70-130	10	30	
Atrazine	5.78	0.10	ug/l	5.00		116	70-130	6	30	
Benzo (a) pyrene	4.29	0.10	ug/l	5.00		86	60-130	5	30	
Bis(2-ethylhexyl)adipate	4.53	2.0	ug/l	5.00		91	70-130	5	30	
Bis(2-ethylhexyl)phthalate	4.67	2.0	ug/l	5.00		93	70-130	4	30	
Bromacil	4.44	0.50	ug/l	5.00		89	70-130	6	30	
Butachlor	4.86	0.10	ug/l	5.00		97	70-130	3	30	
Captan	3.52	1.0	ug/l	5.00		70	70-130	8	30	
Chlorpropham	5.27	0.10	ug/l	5.00		105	70-130	10	30	
Cyanazine	5.51	0.10	ug/l	5.00		110	70-130	4	30	
Diazinon	4.13	0.10	ug/l	5.00		83	50-120	8	30	
Dimethoate	3.94	0.20	ug/l	5.00		79	50-120	15	30	
Diphenamid	5.92	0.10	ug/l	5.00		118	70-130	8	30	
Disulfoton	4.88	0.10	ug/l	5.00		98	50-120	6	30	
EPTC	5.96	0.10	ug/l	5.00		119	70-130	7	30	
Metolachlor	5.41	0.10	ug/l	5.00		108	60-130	7	30	
Metribuzin	4.36	0.10	ug/l	5.00		87	50-120	16	30	
Molinate	5.52	0.10	ug/l	5.00		110	70-130	7	30	
Prometon	2.29	0.10	ug/l	5.00		46	15-120	13	30	
Prometryn	3.88	0.10	ug/l	5.00		78	30-120	9	30	

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Project Number: EO-432391

Project Manager: Ranjit Clarke

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Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1512 - EPA 525.2 (Continued)										
LCS Dup (W0H1512-BSD1)				**Prepared: 08/27/20 Analyzed: 09/01/20**						
Simazine	5.21	0.10	ug/l	5.00		104	60-130	7	30	
Terbacil	5.60	2.0	ug/l	5.00		112	70-130	5	30	
Thiobencarb	5.65	0.10	ug/l	5.00		113	70-130	3	30	
Trithion	4.80	0.10	ug/l	5.00		96	70-130	12	30	
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.89*		*ug/l*	*5.00*		*98*	*70-130*			
Perylene-d12	*4.44*		*ug/l*	*5.00*		*89*	*50-120*			
Triphenyl phosphate	*4.62*		*ug/l*	*5.00*		*92*	*70-130*			
Batch: W0I0009 - EPA 525.2										
Blank (W0I0009-BLK1)				**Prepared: 09/01/20 Analyzed: 09/04/20**						
Alachlor	ND	0.10	ug/l							
Atrazine	ND	0.10	ug/l							
Benzo (a) pyrene	ND	0.10	ug/l							
Bis(2-ethylhexyl)adipate	ND	2.0	ug/l							
Bis(2-ethylhexyl)phthalate	ND	2.0	ug/l							
Bromacil	ND	0.50	ug/l							
Butachlor	ND	0.10	ug/l							
Captan	ND	1.0	ug/l							
Chlorpropham	ND	0.10	ug/l							
Cyanazine	ND	0.10	ug/l							
Diazinon	ND	0.10	ug/l							
Dimethoate	ND	0.20	ug/l							
Diphenamid	ND	0.10	ug/l							
Disulfoton	ND	0.10	ug/l							
EPTC	ND	0.10	ug/l							
Metolachlor	ND	0.10	ug/l							
Metribuzin	ND	0.10	ug/l							
Molinate	ND	0.10	ug/l							
Naphthalene	0.000295		ug/l							
Prometon	ND	0.10	ug/l							
Prometryn	ND	0.10	ug/l							
Propachlor	ND		ug/l							
Simazine	ND	0.10	ug/l							
Terbacil	ND	2.0	ug/l							
Thiobencarb	ND	0.10	ug/l							
Trithion	ND	0.10	ug/l							
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.82*		*ug/l*	*5.00*		*96*	*70-130*			
Perylene-d12	*3.70*		*ug/l*	*5.00*		*74*	*50-120*			

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Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0009 - EPA 525.2 (Continued)										
Blank (W0I0009-BLK1)				**Prepared: 09/01/20**	**Analyzed: 09/04/20**					
Surrogate(s)										
Triphenyl phosphate	*4.69*		*ug/l*	*5.00*		*94*	*70-130*			
Blank (W0I0009-BLK2)				**Prepared: 09/01/20**	**Analyzed: 09/08/20**					
Atrazine	ND	0.10	ug/l							QC-2
Molinate	ND	0.10	ug/l							QC-2
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.84*		*ug/l*	*5.00*		*97*	*70-130*			QC-2
Perylene-d12	*3.66*		*ug/l*	*5.00*		*73*	*50-120*			QC-2
Triphenyl phosphate	*4.77*		*ug/l*	*5.00*		*95*	*70-130*			QC-2
LCS (W0I0009-BS1)				**Prepared: 09/01/20**	**Analyzed: 09/04/20**					
Alachlor	5.08	0.10	ug/l	5.00		102	70-130			
Atrazine	5.80	0.10	ug/l	5.00		116	70-130			
Benzo (a) pyrene	4.65	0.10	ug/l	5.00		93	60-130			
Bis(2-ethylhexyl)adipate	5.34	2.0	ug/l	5.00		107	70-130			
Bis(2-ethylhexyl)phthalate	5.35	2.0	ug/l	5.00		107	70-130			
Bromacil	4.89	0.50	ug/l	5.00		98	70-130			
Butachlor	5.18	0.10	ug/l	5.00		104	70-130			
Captan	4.59	1.0	ug/l	5.00		92	70-130			
Chlorpropham	5.59	0.10	ug/l	5.00		112	70-130			
Cyanazine	5.87	0.10	ug/l	5.00		117	70-130			
Diazinon	4.30	0.10	ug/l	5.00		86	50-120			
Dimethoate	4.40	0.20	ug/l	5.00		88	50-120			
Diphenamid	6.15	0.10	ug/l	5.00		123	70-130			
Disulfoton	4.93	0.10	ug/l	5.00		99	50-120			
EPTC	5.98	0.10	ug/l	5.00		120	70-130			
Metolachlor	5.51	0.10	ug/l	5.00		110	60-130			
Metribuzin	4.70	0.10	ug/l	5.00		94	50-120			
Molinate	5.42	0.10	ug/l	5.00		108	70-130			
Naphthalene	5.14		ug/l	5.00		103	70-130			
Prometon	2.39	0.10	ug/l	5.00		48	15-120			
Prometryn	3.87	0.10	ug/l	5.00		77	30-120			
Simazine	5.38	0.10	ug/l	5.00		108	60-130			
Terbacil	6.17	2.0	ug/l	5.00		123	70-130			
Thiobencarb	5.60	0.10	ug/l	5.00		112	70-130			
Trithion	4.90	0.10	ug/l	5.00		98	70-130			
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.77*		*ug/l*	*5.00*		*95*	*70-130*			
Perylene-d12	*4.86*		*ug/l*	*5.00*		*97*	*50-120*			
Triphenyl phosphate	*5.43*		*ug/l*	*5.00*		*109*	*70-130*			

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Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0009 - EPA 525.2 (Continued)										
LCS (W0I0009-BS2)				**Prepared: 09/01/20 Analyzed: 09/04/20**						
Propachlor	5.30		ug/l	5.00		106	70-130			
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.99*		*ug/l*	*5.00*		*100*	*70-130*			
Perylene-d12	*3.92*		*ug/l*	*5.00*		*78*	*50-120*			
Triphenyl phosphate	*5.21*		*ug/l*	*5.00*		*104*	*70-130*			
LCS (W0I0009-BS3)				**Prepared: 09/01/20 Analyzed: 09/08/20**						
Atrazine	5.74	0.10	ug/l	5.00		115	70-130			QC-2
Molinate	5.44	0.10	ug/l	5.00		109	70-130			QC-2
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.82*		*ug/l*	*5.00*		*96*	*70-130*			*QC-2*
Perylene-d12	*4.79*		*ug/l*	*5.00*		*96*	*50-120*			*QC-2*
Triphenyl phosphate	*5.43*		*ug/l*	*5.00*		*109*	*70-130*			*QC-2*
LCS Dup (W0I0009-BSD1)				**Prepared: 09/01/20 Analyzed: 09/04/20**						
Alachlor	4.58	0.10	ug/l	5.00		92	70-130	11	30	
Atrazine	5.68	0.10	ug/l	5.00		114	70-130	2	30	
Benzo (a) pyrene	3.82	0.10	ug/l	5.00		76	60-130	20	30	
Bis(2-ethylhexyl)adipate	5.14	2.0	ug/l	5.00		103	70-130	4	30	
Bis(2-ethylhexyl)phthalate	5.30	2.0	ug/l	5.00		106	70-130	0.9	30	
Bromacil	5.08	0.50	ug/l	5.00		102	70-130	4	30	
Butachlor	4.69	0.10	ug/l	5.00		94	70-130	10	30	
Captan	2.92	1.0	ug/l	5.00		58	70-130	45	30	BS-04
Chlorpropham	5.52	0.10	ug/l	5.00		110	70-130	1	30	
Cyanazine	2.49	0.10	ug/l	5.00		50	70-130	81	30	BS-04
Diazinon	3.94	0.10	ug/l	5.00		79	50-120	9	30	
Dimethoate	2.47	0.20	ug/l	5.00		49	50-120	56	30	BS-04
Diphenamid	6.17	0.10	ug/l	5.00		123	70-130	0.4	30	
Disulfoton	4.53	0.10	ug/l	5.00		91	50-120	9	30	
EPTC	5.84	0.10	ug/l	5.00		117	70-130	2	30	
Metolachlor	5.50	0.10	ug/l	5.00		110	60-130	0.2	30	
Metribuzin	4.29	0.10	ug/l	5.00		86	50-120	9	30	
Molinate	5.27	0.10	ug/l	5.00		105	70-130	3	30	
Naphthalene	5.00		ug/l	5.00		100	70-130	3	30	
Prometon	1.96	0.10	ug/l	5.00		39	15-120	20	30	
Prometryn	4.00	0.10	ug/l	5.00		80	30-120	3	30	
Simazine	5.26	0.10	ug/l	5.00		105	60-130	2	30	
Terbacil	0.425	2.0	ug/l	5.00		8	70-130	174	30	BS-04
Thiobencarb	5.57	0.10	ug/l	5.00		111	70-130	0.5	30	
Trithion	3.07	0.10	ug/l	5.00		61	70-130	46	30	BS-04
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.84*		*ug/l*	*5.00*		*97*	*70-130*			

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Quality Control Results (Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0009 - EPA 525.2 (Continued)										
LCS Dup (W0I0009-BSD1)				**Prepared: 09/01/20**	**Analyzed: 09/04/20**					
Surrogate(s)										
Perylene-d12	*3.88*		*ug/l*	*5.00*		*78*	*50-120*			
Triphenyl phosphate	*5.56*		*ug/l*	*5.00*		*111*	*70-130*			
LCS Dup (W0I0009-BSD2)				**Prepared: 09/01/20**	**Analyzed: 09/04/20**					
Propachlor	4.99		ug/l	5.00		100	70-130	6	30	
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.88*		*ug/l*	*5.00*		*98*	*70-130*			
Perylene-d12	*4.51*		*ug/l*	*5.00*		*90*	*50-120*			
Triphenyl phosphate	*4.70*		*ug/l*	*5.00*		*94*	*70-130*			
LCS Dup (W0I0009-BSD3)				**Prepared: 09/01/20**	**Analyzed: 09/08/20**					
Atrazine	5.70	0.10	ug/l	5.00		114	70-130	0.8	30	QC-2
Molinate	5.31	0.10	ug/l	5.00		106	70-130	2	30	QC-2
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.76*		*ug/l*	*5.00*		*95*	*70-130*			*QC-2*
Perylene-d12	*4.21*		*ug/l*	*5.00*		*84*	*50-120*			*QC-2*
Triphenyl phosphate	*5.64*		*ug/l*	*5.00*		*113*	*70-130*			*QC-2*

Quality Control Results (Continued)

Volatile Organics by P&T and GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1345 - EPA 524.3										
Blank (W0H1345-BLK1)				**Prepared & Analyzed: 08/25/20**						
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l							
1,2-Dibromoethane (EDB)	ND	0.020	ug/l							
LCS (W0H1345-BS1)				**Prepared & Analyzed: 08/25/20**						
1,2-Dibromo-3-chloropropane	0.0616	0.010	ug/l	0.0500		123	70-130			
1,2-Dibromoethane (EDB)	0.0536	0.020	ug/l	0.0500		107	70-130			
LCS Dup (W0H1345-BSD1)				**Prepared & Analyzed: 08/25/20**						
1,2-Dibromo-3-chloropropane	0.0510	0.010	ug/l	0.0500		102	70-130	19	30	
1,2-Dibromoethane (EDB)	0.0501	0.020	ug/l	0.0500		100	70-130	7	30	
Duplicate (W0H1345-DUP1)	**Source: 0H20067-07**			**Prepared & Analyzed: 08/25/20**						
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l		ND				30	
1,2-Dibromoethane (EDB)	ND	0.020	ug/l		ND				30	

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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.
M-02	Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution.
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.
MS-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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 Reporting Limit 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.
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
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

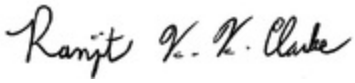
Lab Job Number: 432398
Report Level: II
Report Date: 09/03/2020

Analytical Report *prepared for:*

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Project: MALIBU - Annual - Surface Water

Authorized for release by:



Ranjit K Clarke, Project 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, CDC ELITE Member

ENTHALPY ANALYTICAL

Sample Summary

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #:	432398
Project No:	MALIBU
Location:	Annual - Surface Water
Date Received:	08/18/20

Sample ID	Lab ID	Collected	Matrix
N-001	432398-001	08/18/20 08:37	Water
N-002	432398-002	08/18/20 08:50	Water
N-003	432398-003	08/18/20 09:04	Water
N-004	432398-004	08/18/20 10:04	Water
L-001	432398-005	08/18/20 10:30	Water
L-002	432398-006	08/18/20 10:53	Water
L-003	432398-007	08/18/20 10:45	Water
L-004	432398-008	08/18/20 09:35	Water
L-005	432398-009	08/18/20 09:15	Water
L-006	432398-010	08/18/20 09:45	Water

432398

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
931 W. Barkley Ave., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714) 538-1209	Lab No: 432398 8/18/20 Page: 1 of 1	Standard: X 4 Day: 3 Day: 2 Day: 1 Day: Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**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

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:	(805) 644-4455	Global ID:	
Cell:		Sampled By:	Jaime Mcclain

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	8/18/20	0837	SEA water	4		X	X	X	X						
N-002		0850				X	X	X	X						
N-003		0904				X	X	X	X						
N-004		1004				X	X	X	X						
L-001		1030				X	X	X	X						
L-002		1053				X	X	X	X						
L-003		1045				X	X	X	X						
L-004		0935				X	X	X	X						
L-005		0915				X	X	X	X						
L-006		0945				X	X	X	X						

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Jaime Mcclain	Rincon / Biologist	8/18/20 / 1450
[1] Received By:		JAIME A	EA	8/18/2020 1450
[2] Relinquished By:		JAIME A	EA	8/18/2020 1646
[2] Received By:		G Kim	EA	8/18/20 1646
[3] Relinquished By:				
[3] Received By:				

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Ventura Project: Annual - Malibu

Date Received: 8/18/20 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: 18.6 #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: 0.7 #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: 8/18/20

ENTHALPY ANALYTICAL

Analysis Results for 432398

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #: 432398
Project No: MALIBU
Location: Annual - Surface Water
Date Received: 08/18/20

Sample ID: N-001 **Lab ID: 432398-001** **Collected: 08/18/20 08:37**
Matrix: Water

432398-001 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	0.18	10	251195	08/19/20 20:32	08/19/20 20:32	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.45	10	251195	08/19/20 20:32	08/19/20 20:32	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	251195	08/19/20 20:32	08/19/20 20:32	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.25**		mg/L			1	251809	08/27/20	08/27/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	251636	08/25/20	08/27/20	ATP
Nitrogen, Total Kjeldahl	**0.25**	J	mg/L	0.40	0.030	1	251394	08/20/20	08/20/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.059**		mg/L	0.020	0.010	1	251402	08/20/20	08/20/20	SGC
Method: SM 9223Bb										
Fecal Coliform	**3.0**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Coliform, Total	**>2,400**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Method: TOTAL NITROGEN										
Total Nitrogen	**0.25**		mg/L			1	251810	08/27/20	08/27/20	SLL

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432398

Sample ID: N-002	Lab ID: 432398-002	Collected: 08/18/20 08:50
	Matrix: Water	

432398-002 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	0.18	10	251195	08/19/20 20:57	08/19/20 20:57	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.45	10	251195	08/19/20 20:57	08/19/20 20:57	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	251195	08/19/20 20:57	08/19/20 20:57	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.18**		mg/L			1	251809	08/27/20	08/27/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	251636	08/25/20	08/27/20	ATP
Nitrogen, Total Kjeldahl	**0.18**	J	mg/L	0.40	0.030	1	251394	08/20/20	08/20/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.079**		mg/L	0.020	0.010	1	251402	08/20/20	08/20/20	SGC
Method: SM 9223Bb										
Fecal Coliform	**12**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Coliform, Total	**>2,400**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Method: TOTAL NITROGEN										
Total Nitrogen	**0.18**		mg/L			1	251810	08/27/20	08/27/20	SLL

Sample ID: N-003	Lab ID: 432398-003	Collected: 08/18/20 09:04
	Matrix: Water	

432398-003 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	0.18	10	251195	08/19/20 21:21	08/19/20 21:21	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.45	10	251195	08/19/20 21:21	08/19/20 21:21	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	251195	08/19/20 21:21	08/19/20 21:21	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.082**		mg/L			1	251809	08/27/20	08/27/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	251636	08/25/20	08/27/20	ATP
Nitrogen, Total Kjeldahl	**0.082**	J	mg/L	0.40	0.030	1	251394	08/20/20	08/20/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.10**		mg/L	0.020	0.010	1	251402	08/20/20	08/20/20	SGC
Method: SM 9223Bb										
Fecal Coliform	**29**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Coliform, Total	**>2,400**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Method: TOTAL NITROGEN										
Total Nitrogen	**0.082**		mg/L			1	251810	08/27/20	08/27/20	SLL

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432398

Sample ID: N-004	Lab ID: 432398-004	Collected: 08/18/20 10:04
	Matrix: Water	

432398-004 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	0.18	10	251195	08/19/20 21:46	08/19/20 21:46	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.45	10	251195	08/19/20 21:46	08/19/20 21:46	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	251195	08/19/20 21:46	08/19/20 21:46	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	ND		mg/L			1	251809	08/27/20	08/27/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	251636	08/25/20	08/27/20	ATP
Nitrogen, Total Kjeldahl	ND		mg/L	0.40	0.030	1	251394	08/20/20	08/20/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.88**		mg/L	0.020	0.010	1	251404	08/20/20	08/20/20	SGC
Method: SM 9223Bb										
Fecal Coliform	<1.0		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Coliform, Total	**2,400**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Method: TOTAL NITROGEN										
Total Nitrogen	ND		mg/L			1	251810	08/27/20	08/27/20	SLL

Sample ID: L-001	Lab ID: 432398-005	Collected: 08/18/20 10:30
	Matrix: Water	

432398-005 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	0.18	10	251195	08/19/20 22:10	08/19/20 22:10	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.45	10	251195	08/19/20 22:10	08/19/20 22:10	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	251195	08/19/20 22:10	08/19/20 22:10	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.83**		mg/L			1	251809	08/27/20	08/27/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	251636	08/25/20	08/27/20	ATP
Nitrogen, Total Kjeldahl	**0.83**		mg/L	0.40	0.030	1	251394	08/20/20	08/20/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.33**		mg/L	0.020	0.010	1	251404	08/20/20	08/20/20	SGC
Method: SM 9223Bb										
Fecal Coliform	**>2,400**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Coliform, Total	**>2,400**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Method: TOTAL NITROGEN										
Total Nitrogen	**0.83**		mg/L			1	251810	08/27/20	08/27/20	SLL

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432398

Sample ID: L-002 **Lab ID: 432398-006** **Collected: 08/18/20 10:53**
Matrix: Water

432398-006 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	0.18	10	251195	08/19/20 23:23	08/19/20 23:23	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.45	10	251195	08/19/20 23:23	08/19/20 23:23	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	251195	08/19/20 23:23	08/19/20 23:23	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.18**		mg/L			1	251809	08/27/20	08/27/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	251636	08/25/20	08/27/20	ATP
Nitrogen, Total Kjeldahl	**0.18**	J	mg/L	0.40	0.030	1	251394	08/20/20	08/20/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.096**		mg/L	0.020	0.010	1	251404	08/20/20	08/20/20	SGC
Method: SM 9223Bb										
Fecal Coliform	**>2,400**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Coliform, Total	**>2,400**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Method: TOTAL NITROGEN										
Total Nitrogen	**0.18**		mg/L			1	251810	08/27/20	08/27/20	SLL

Sample ID: L-003 **Lab ID: 432398-007** **Collected: 08/18/20 10:45**
Matrix: Water

432398-007 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	0.18	10	251195	08/19/20 23:48	08/19/20 23:48	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.45	10	251195	08/19/20 23:48	08/19/20 23:48	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	251195	08/19/20 23:48	08/19/20 23:48	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.63**		mg/L			1	251809	08/27/20	08/27/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	251636	08/25/20	08/27/20	ATP
Nitrogen, Total Kjeldahl	**0.63**		mg/L	0.40	0.030	1	251394	08/20/20	08/20/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.11**		mg/L	0.020	0.010	1	251402	08/20/20	08/20/20	SGC
Method: SM 9223Bb										
Fecal Coliform	**>2,400**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Coliform, Total	**>2,400**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Method: TOTAL NITROGEN										
Total Nitrogen	**0.63**		mg/L			1	251810	08/27/20	08/27/20	SLL

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432398

Sample ID: L-004 **Lab ID: 432398-008** **Collected: 08/18/20 09:35**
Matrix: Water

432398-008 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	0.18	10	251195	08/20/20 00:12	08/20/20 00:12	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.45	10	251195	08/20/20 00:12	08/20/20 00:12	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	251195	08/20/20 00:12	08/20/20 00:12	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.098**		mg/L			1	251809	08/27/20	08/27/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	251636	08/25/20	08/27/20	ATP
Nitrogen, Total Kjeldahl	**0.098**	J	mg/L	0.40	0.030	1	251394	08/20/20	08/20/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.087**		mg/L	0.020	0.010	1	251404	08/20/20	08/20/20	SGC
Method: SM 9223Bb										
Fecal Coliform	**870**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Coliform, Total	**>2,400**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Method: TOTAL NITROGEN										
Total Nitrogen	**0.098**		mg/L			1	251810	08/27/20	08/27/20	SLL

Sample ID: L-005 **Lab ID: 432398-009** **Collected: 08/18/20 09:15**
Matrix: Water

432398-009 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	0.18	10	251195	08/20/20 00:37	08/20/20 00:37	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.45	10	251195	08/20/20 00:37	08/20/20 00:37	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	251195	08/20/20 00:37	08/20/20 00:37	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.43**		mg/L			1	251809	08/27/20	08/27/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	**0.20**		mg/L	0.10	0.010	1	251636	08/25/20	08/27/20	ATP
Nitrogen, Total Kjeldahl	**0.63**		mg/L	0.40	0.030	1	251394	08/20/20	08/20/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.46**		mg/L	0.020	0.010	1	251404	08/20/20	08/20/20	SGC
Method: SM 9223Bb										
Fecal Coliform	**1,400**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Coliform, Total	**>2,400**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Method: TOTAL NITROGEN										
Total Nitrogen	**0.63**		mg/L			1	251810	08/27/20	08/27/20	SLL

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432398

Sample ID: L-006	Lab ID: 432398-010	Collected: 08/18/20 09:45
	Matrix: Water	

432398-010 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	0.18	10	251195	08/20/20 01:01	08/20/20 01:01	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.45	10	251195	08/20/20 01:01	08/20/20 01:01	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	251195	08/20/20 01:01	08/20/20 01:01	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.12**		mg/L			1	251809	08/27/20	08/27/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	**0.25**		mg/L	0.10	0.010	1	251636	08/25/20	08/27/20	ATP
Nitrogen, Total Kjeldahl	**0.37**	J	mg/L	0.40	0.030	1	251394	08/20/20	08/20/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.020**		mg/L	0.020	0.010	1	251404	08/20/20	08/20/20	SGC
Method: SM 9223Bb										
Fecal Coliform	**>2,400**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Coliform, Total	**>2,400**		MPN/100ml	1.0		1	251200	08/18/20 17:55	08/19/20 16:15	LXH
Method: TOTAL NITROGEN										
Total Nitrogen	**0.37**		mg/L			1	251810	08/27/20	08/27/20	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:** QC881788	**Batch:** 251195
Matrix: Drinking Water	**Method:** EPA 300.0	**Prep Method:** METHOD

QC881788 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	08/19/20 11:55	08/19/20 11:55
Nitrogen, Nitrate	ND		mg/L	0.10	0.05	08/19/20 11:55	08/19/20 11:55
Nitrogen, Nitrate/Nitrite	ND		mg/L	0.10		08/19/20 11:55	08/19/20 11:55

Type: Lab Control Sample	**Lab ID:** QC881789	**Batch:** 251195
Matrix: Drinking Water	**Method:** EPA 300.0	**Prep Method:** METHOD

QC881789 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Nitrite	9.550	9.150	mg/L	104%		90-110
Nitrogen, Nitrate	9.472	9.030	mg/L	105%		90-110

Type: Matrix Spike	**Lab ID:** QC881792	**Batch:** 251195
Matrix (Source ID): Water (432451-001)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC881792 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Nitrite	9.576	0.2060	9.150	mg/L	102%		80-120	1
Nitrogen, Nitrate	13.02	4.070	9.030	mg/L	99%		80-120	1

Type: Matrix Spike Duplicate	**Lab ID:** QC881793	**Batch:** 251195
Matrix (Source ID): Water (432451-001)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC881793 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Nitrite	9.580	0.2060	9.150	mg/L	102%		80-120	0	20	1
Nitrogen, Nitrate	13.02	4.070	9.030	mg/L	99%		80-120	0	20	1

Type: Blank	**Lab ID:** QC882212	**Batch:** 251394
Matrix: Water	**Method:** SM 4500-NH3-G	

QC882212 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Total Kjeldahl	ND		mg/L	0.20	0.015	08/20/20	08/20/20

Type: Lab Control Sample	**Lab ID:** QC882213	**Batch:** 251394
Matrix: Water	**Method:** SM 4500-NH3-G	

QC882213 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Total Kjeldahl	2.345	2.500	mg/L	94%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type: Matrix Spike | **Lab ID:** QC882214 | **Batch:** 251394
Matrix (Source ID): Water (432391-001) | **Method:** SM 4500-NH3-G

QC882214 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Total Kjeldahl	12.90	0.5010	12.50	mg/L	99%		80-120	2.5

Type: Matrix Spike Duplicate | **Lab ID:** QC882215 | **Batch:** 251394
Matrix (Source ID): Water (432391-001) | **Method:** SM 4500-NH3-G

QC882215 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Total Kjeldahl	12.70	0.5010	12.50	mg/L	98%		80-120	2	20	2.5

Type: Blank | **Lab ID:** QC882233 | **Batch:** 251402
Matrix: Water | **Method:** SM 4500-P-B5-E

QC882233 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Phosphorus	ND		mg/L	0.020	0.010	08/20/20	08/20/20

Type: Lab Control Sample | **Lab ID:** QC882234 | **Batch:** 251402
Matrix: Water | **Method:** SM 4500-P-B5-E

QC882234 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phosphorus	0.4230	0.4000	mg/L	106%		80-120

Type: Matrix Spike | **Lab ID:** QC882235 | **Batch:** 251402
Matrix (Source ID): Water (432398-007) | **Method:** SM 4500-P-B5-E

QC882235 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phosphorus	0.5710	0.1080	0.4000	mg/L	116%		75-125	1

Type: Matrix Spike Duplicate | **Lab ID:** QC882236 | **Batch:** 251402
Matrix (Source ID): Water (432398-007) | **Method:** SM 4500-P-B5-E

QC882236 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phosphorus	0.5240	0.1080	0.4000	mg/L	104%		75-125	9	20	1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank **Lab ID: QC882241** **Batch: 251404**
Matrix: Water **Method: SM 4500-P-B5-E**

QC882241 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Phosphorus	ND		mg/L	0.020	0.010	08/20/20	08/20/20

Type: Lab Control Sample **Lab ID: QC882242** **Batch: 251404**
Matrix: Water **Method: SM 4500-P-B5-E**

QC882242 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phosphorus	0.4100	0.4000	mg/L	103%		80-120

Type: Matrix Spike **Lab ID: QC882243** **Batch: 251404**
Matrix (Source ID): Water (432398-010) **Method: SM 4500-P-B5-E**

QC882243 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phosphorus	0.4740	0.02000	0.4000	mg/L	114%		75-125	1

Type: Matrix Spike Duplicate **Lab ID: QC882244** **Batch: 251404**
Matrix (Source ID): Water (432398-010) **Method: SM 4500-P-B5-E**

QC882244 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phosphorus	0.5000	0.02000	0.4000	mg/L	120%		75-125	5	20	1

Type: Blank **Lab ID: QC882915** **Batch: 251636**
Matrix: Water **Method: SM 4500-NH3-G**

QC882915 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Ammonia-N	ND		mg/L	0.10	0.010	08/25/20	08/27/20

Type: Lab Control Sample **Lab ID: QC882916** **Batch: 251636**
Matrix: Water **Method: SM 4500-NH3-G**

QC882916 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Ammonia-N	2.700	2.500	mg/L	108%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC882917**	**Batch:**	**251636**
Matrix (Source ID):	**Water (432398-002)**	**Method:**	**SM 4500-NH3-G**		

QC882917 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Ammonia-N	2.350	ND	2.500	mg/L	94%		80-120	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC882918**	**Batch:**	**251636**
Matrix (Source ID):	**Water (432398-002)**	**Method:**	**SM 4500-NH3-G**		

QC882918 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Ammonia-N	2.370	ND	2.500	mg/L	95%		80-120	1	20	1

ND Not Detected

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

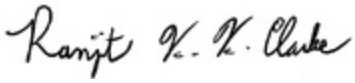
Lab Job Number: 432455
Report Level: II
Report Date: 09/24/2020

Analytical Report *prepared for:*

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Project: MALIBU - Annual - Long Term GW - Partial Report (EPA 1694 pending)

Authorized for release by:



Ranjit K Clarke, Project 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, CDC ELITE Member

ENTHALPY ANALYTICAL

Sample Summary

Kiernan Brtalik Rincon Consultants - Ventura 180 North Ashwood Ave. Ventura, CA 93003	Lab Job #: Project No: Location: Date Received:	432455 MALIBU Annual - Long Term GW - Partial Report (EPA 1694 pending) 08/19/20

Sample ID	Lab ID	Collected	Matrix
SMBRP-12	432455-001	08/19/20 10:15	Water
MCWP-MW09	432455-002	08/19/20 10:40	Water

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
931 W. Barkley Ave., Orange, CA 92868	Lab No: 432455	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:	
Email:	Kbrtalik@rinconconsultants.com	P.O. #:	20-09665
Address:	180 N. Ashwood Ave.	Address:	
	Ventura, CA 93003		
Phone:	(805) 644-4455	Global ID:	
Cell:		Sampled By:	

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 608 LL; EPA 625 LL	EPA 524.2 VOCs; EPA 624 VOCs	Test Instructions / Comments
						Analysis Request										1.9/8.8 2.3/13.4 2.8/11.0 2.3/16.7
~~LAMW-5S~~						X	X	X	X	X	X	X	X	X	X	Mc
~~SMBRP-9~~						X	X	X	X	X	X	X	X	X	X	Mc
~~SMBRP-11~~						X	X	X	X	X	X	X	X	X	X	Mc
SMBRP-12	8/19/20	1015	W			X	X	X	X	X	X	X	X	X	X	
~~MCWP-MW04S~~						X	X	X	X	X	X	X	X	X	X	Mc
~~MCWP-MW04D~~						X	X	X	X	X	X	X	X	X	X	Mc
~~MCWP-MW07S~~						X	X	X	X	X	X	X	X	X	X	Mc
~~MCWP-MW07D~~						X	X	X	X	X	X	X	X	X	X	Mc
MCWP-MW09	8/19/20	1040	W			X	X	X	X	X	X	X	X	X	X	

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Michelle Carter	Rincon Consultants	8/19/20 1320
[1] Received By:		JAIME A	EA	8/19/2020 1320
[2] Relinquished By:		JAIME A	EA	8/19/2020 1513
[2] Received By:		Elizabeth Ramirez	EA	8/19/20 15:13
[3] Relinquished By:				
[3] Received By:				

~~1.1/3.6 2.2/3.4~~ EA 8/19/20

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
931 W. Barkley Ave., Orange, CA 92868	Lab No: 432455	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:	
Email:	Kbrtalik@rinconconsultants.com	P.O. #:	20-09665
Address:	180 N. Ashwood Ave.	Address:	
	Ventura, CA 93003		
Phone:	(805) 644-4455	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, 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
~~LAMW-5S~~						X	X	X	X	X	X	X	X	X	X	MC
~~SMBRP-9~~						X	X	X	X	X	X	X	X	X	X	MC
~~SMBRP-11~~						X	X	X	X	X	X	X	X	X	X	MC
SMBRP-12	8/19/20	1015	W			X	X	X	X	X	X	X	X	X	X	
~~MCWP-MW04S~~						X	X	X	X	X	X	X	X	X	X	MC
~~MCWP-MW04D~~						X	X	X	X	X	X	X	X	X	X	MC
~~MCWP-MW07S~~						X	X	X	X	X	X	X	X	X	X	MC
~~MCWP-MW07D~~						X	X	X	X	X	X	X	X	X	X	MC
MCWP-MW09	8/19/20	1040	W			X	X	X	X	X	X	X	X	X	X	

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Michelle Carter	Rinconconsultants	8/19/20 1320
1 Received By:		Jairo A	EA	8/19/2020 1320
2 Relinquished By:		Jairo A	EA	8/19/2020 1513
2 Received By:		Elizabeth Ramirez	EA	8/19/20 15:13
3 Relinquished By:				
3 Received By:				

~~1.4 13.6~~ ~~2.2 12.4~~ ER 8/19/20

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Project: Malibu- Annual

Date Received: 08/19/20 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: 8.8 #2: 13.4 #3: 11.0 #4: 16.7

(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: 1.9 #2: 2.3 #3: 2.8 #4: 2.3

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

Only received 2 pg COC.

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: 08/19/20

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
Weck Laboratories, Inc.
14859 Clark Ave.
Hacienda Heights, CA 91745
ATTN: Regina Giancola
PO #: 1056017

Enthalpy Order: EO-432455
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: Standard Excel

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
SMBRP-12	19-AUG-2020 00:00	432455-001	1	Water	Hexavalent Chromium by EPA 218.6	
				Water	EDB and DBCP by GC	
				Water	EPA 508 Chlorinated Pesticides	
				Water	EPA 515.3 Chlorinated Acids	
				Water	EPA 525.2 Semi-Volatile Organics	
				Water	EPA 531.1 Carbamates	
				Water	EPA 547 Glyphosate	
				Water	EPA 548.1 Endothall	
				Water	EPA 549.2 Diquat and Paraquat	
				Water	552.2 Haloacetic Acids	
			1	Water	EPA 625 Low Level	
				Water	Bromate by 300.1 - OUT	
				Water	EPA 300.1 for Chlorate by IC	
				Water	Method 1694: Pharmaceuticals and PCPs by HPLC/MS/MS	
				Water	EPA 1625 Isotope Dilution for NDMA	
MCWP-MW09	19-AUG-2020 00:00	432455-002	1	Water	Hexavalent Chromium by EPA 218.6	
				Water	EDB and DBCP by GC	
				Water	EPA 508 Chlorinated Pesticides	
				Water	EPA 515.3 Chlorinated Acids	
				Water	EPA 525.2 Semi-Volatile Organics	
				Water	EPA 531.1 Carbamates	
				Water	EPA 547 Glyphosate	
				Water	EPA 548.1 Endothall	
				Water	EPA 549.2 Diquat and Paraquat	
				Water	552.2 Haloacetic Acids	
				Water	Semivolatile organic compounds by EPA 625	
				Water	Bromate by 300.1 - OUT	
				Water	EPA 300.1 for Chlorate by IC	
				Water	Method 1694: Pharmaceuticals and PCPs by HPLC/MS/MS	
				Water	EPA 1625 Isotope Dilution for NDMA	

Notes:	Relinquished By:	Received By:
	[signature]	Heather Smith
	Date: 08/20/20 @ 15:13	Date: 8-20-20 / 15:13
	Date:	Date:
	Date:	Date:

ENTHALPY ANALYTICAL

Analysis Results for 432455

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #: 432455
Project No: MALIBU
Location: Annual - Long Term GW - Partial Report (EPA 1694 pending)
Date Received: 08/19/20

Sample ID: SMBRP-12 **Lab ID: 432455-001** **Collected: 08/19/20 10:15**
Matrix: Water

432455-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: ALCH 4022 Prep Method: EPA 200.8										
Chromium Trivalent	ND		ug/L	1.0		1	251344	08/20/20	09/23/20	TTR
Method: EPA 200.7 Prep Method: EPA 200.7										
Boron	**0.85**		mg/L	0.050	0.012	1	251345	08/20/20	08/20/20	SBW
Calcium	**95**		mg/L	0.10	0.033	1	251345	08/20/20	08/20/20	SBW
Iron	**1.2**		mg/L	0.020	0.016	1	251345	08/20/20	08/20/20	SBW
Magnesium	**70**		mg/L	0.10	0.048	1	251345	08/20/20	08/20/20	SBW
Manganese	**0.43**		mg/L	0.010	0.0030	1	251345	08/20/20	08/20/20	SBW
Potassium	**30**		mg/L	0.50	0.18	1	251345	08/20/20	08/20/20	SBW
Sodium	**470**		mg/L	0.50	0.061	1	251345	08/20/20	08/20/20	SBW
Method: EPA 200.8 Prep Method: EPA 200.8										
Aluminum	**32**	J	ug/L	50	16	5	251344	08/20/20	08/31/20	JCP
Antimony	ND		ug/L	2.5	0.30	5	251344	08/20/20	08/31/20	JCP
Arsenic	**13**		ug/L	2.0	0.38	1	251344	08/20/20	08/29/20	JCP
Barium	**50**		ug/L	25	1.4	5	251344	08/20/20	08/31/20	JCP
Beryllium	ND		ug/L	2.5	0.25	5	251344	08/20/20	08/31/20	JCP
Cadmium	**0.28**	J	ug/L	1.0	0.17	5	251344	08/20/20	08/31/20	JCP
Chromium	ND		ug/L	10	3.0	10	251344	08/20/20	09/01/20	JCP
Copper	**3.4**		ug/L	0.50	0.050	1	251344	08/20/20	08/29/20	JCP
Lead	ND		ug/L	2.5	0.22	5	251344	08/20/20	08/31/20	JCP
Nickel	**19**		ug/L	5.0	1.0	5	251344	08/20/20	08/31/20	JCP
Selenium	**4.2**		ug/L	2.0	0.27	1	251344	08/20/20	08/29/20	JCP
Silver	ND	B	ug/L	1.0	0.13	5	251344	08/20/20	08/31/20	JCP
Thallium	ND		ug/L	5.0	1.2	5	251344	08/20/20	08/31/20	JCP
Zinc	ND		ug/L	10	4.2	1	251344	08/20/20	08/29/20	JCP
Method: EPA 245.1 Prep Method: METHOD										
Mercury	ND		ug/L	0.20	0.094	1	251384	08/20/20	08/20/20	JCP
Method: EPA 300.0 Prep Method: METHOD										
Chloride	**490**		mg/L	10	1.4	10	251348	08/19/20 12:00	08/20/20 23:59	RKV
Nitrogen, Nitrite	ND		mg/L	1.0	0.18	10	251348	08/20/20 09:59	08/20/20 09:59	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.45	10	251348	08/20/20 09:59	08/20/20 09:59	RKV

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432455

432455-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Sulfate	**380**		mg/L	10	2.5	10	251348	08/19/20 12:00	08/20/20 23:59	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	251348	08/20/20 09:59	08/20/20 09:59	RKV
Method: EPA 314.0 Prep Method: METHOD										
Perchlorate	**26**		ug/L	4.0	1.1	2	251376	08/20/20	08/20/20	RKV
Method: EPA 524.2 Prep Method: METHOD										
Acrolein	ND		ug/L	5.0	3.3	1	251342	08/20/20	08/20/20	LYZ
Acrylonitrile	ND		ug/L	2.0	0.8	1	251342	08/20/20	08/20/20	LYZ
1,1-Dichloroethene	ND		ug/L	0.50	0.30	1	251342	08/20/20	08/20/20	LYZ
Benzene	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
Trichloroethene	ND		ug/L	0.50	0.39	1	251342	08/20/20	08/20/20	LYZ
Toluene	ND		ug/L	0.50	0.24	1	251342	08/20/20	08/20/20	LYZ
Chlorobenzene	ND		ug/L	0.50	0.19	1	251342	08/20/20	08/20/20	LYZ
Chloromethane	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
Vinyl Chloride	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
Bromomethane	ND		ug/L	0.68	0.68	1	251342	08/20/20	08/20/20	LYZ
Chloroethane	ND		ug/L	0.50	0.45	1	251342	08/20/20	08/20/20	LYZ
Trichlorofluoromethane	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
Freon 113	ND		ug/L	0.50	0.35	1	251342	08/20/20	08/20/20	LYZ
Methylene Chloride	**2.1**	B	ug/L	0.50	0.16	1	251342	08/20/20	08/20/20	LYZ
MTBE	ND		ug/L	0.50	0.19	1	251342	08/20/20	08/20/20	LYZ
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.33	1	251342	08/20/20	08/20/20	LYZ
1,1-Dichloroethane	ND		ug/L	0.50	0.32	1	251342	08/20/20	08/20/20	LYZ
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
Chloroform	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
1,1,1-Trichloroethane	ND		ug/L	0.50	0.38	1	251342	08/20/20	08/20/20	LYZ
Carbon Tetrachloride	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
1,2-Dichloroethane	ND		ug/L	0.50	0.20	1	251342	08/20/20	08/20/20	LYZ
1,2-Dichloropropane	ND		ug/L	1.0	0.36	1	251342	08/20/20	08/20/20	LYZ
Bromodichloromethane	ND		ug/L	0.50	0.31	1	251342	08/20/20	08/20/20	LYZ
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.23	1	251342	08/20/20	08/20/20	LYZ
1,1,2-Trichloroethane	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
Tetrachloroethene	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
Dibromochloromethane	ND		ug/L	0.50	0.21	1	251342	08/20/20	08/20/20	LYZ
Ethylbenzene	ND		ug/L	0.50	0.21	1	251342	08/20/20	08/20/20	LYZ
m,p-Xylenes	ND		ug/L	1.0	0.45	1	251342	08/20/20	08/20/20	LYZ
Styrene	ND		ug/L	0.50	0.22	1	251342	08/20/20	08/20/20	LYZ
Bromoform	ND		ug/L	0.50	0.20	1	251342	08/20/20	08/20/20	LYZ
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
1,3-Dichlorobenzene	ND		ug/L	0.50	0.34	1	251342	08/20/20	08/20/20	LYZ
1,4-Dichlorobenzene	ND		ug/L	0.50	0.43	1	251342	08/20/20	08/20/20	LYZ
1,2-Dichlorobenzene	ND		ug/L	0.50	0.26	1	251342	08/20/20	08/20/20	LYZ
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
2-Chloroethylvinylether	ND		ug/L	5.0	0.23	1	251342	08/20/20	08/20/20	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432455

432455-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Surrogates				**Limits**						
Bromofluorobenzene	97%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ
1,2-Dichloroethane-d4	98%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ
Dibromofluoromethane	103%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ
Toluene-d8	106%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ
Method: SM 2150B										
Odor	ND		TON	1.0		1	251368	08/20/20 09:10	08/20/20 09:10	SGC
Method: SM 2330B										
CCPP	**-0.060**		SU			1	251807	08/27/20	08/27/20	SLL
Method: SM 4500-CL-G										
Chlorine, Total Residual	ND	H	mg/L	0.10	0.016	1	251497	08/22/20 10:52	08/22/20 10:52	WWC
Method: SM 4500-CN-E Prep Method: METHOD										
Cyanide	ND		mg/L	0.010	0.0022	1	251800	08/27/20	08/27/20	ATP
Method: SM 4500-F-C										
Fluoride	**0.55**		mg/L	0.10	0.0030	1	251545	08/24/20	08/24/20	NLP
Method: SM 4500-H+ B										
pH	**6.93**	H	SU			1	251373	08/20/20 13:00	08/20/20 13:00	SGC
Temperature	**5.90**	H	deg C	1.00		1	251373	08/20/20 13:00	08/20/20 13:00	SGC
Method: SM 4500-NH3-G										
Ammonia-N	**5.3**		mg/L	0.50	0.050	5	251758	08/26/20	08/27/20	ATP
Nitrogen, Total Kjeldahl	**6.6**		mg/L	0.40	0.030	1	251387	08/20/20	08/20/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**1.5**		mg/L	0.040	0.020	2	251694	08/25/20	08/25/20	SGC
Method: SM 5310B										
Total Organic Carbon	**6.5**		mg/L	1.0	0.091	1	251646	08/25/20	08/25/20	ATP
Method: SM 9223Bb										
Fecal Coliform	<1.0		MPN/100ml	1.0		1	251328	08/19/20 16:25	08/20/20 13:15	CCO
Coliform, Total	**9.6**		MPN/100ml	1.0		1	251328	08/19/20 16:25	08/20/20 13:15	CCO
Coliform, E. Coli	<1.0		MPN/100ml	1.0		1	251328	08/19/20 16:25	08/20/20 13:15	CCO
Method: SM2120B										
Color	ND		ColorUnits	5		1	251367	08/20/20 09:00	08/20/20 09:00	SGC
Method: SM2130B										
Turbidity	**8.3**		NTU	0.10	0.07	1	251366	08/20/20 09:10	08/20/20 09:10	SGC
Method: SM2320B Prep Method: METHOD										
Bicarbonate	**540**		mg/L	13		2.5	251611	08/24/20	08/24/20	ATP
Carbonate	ND		mg/L	13		2.5	251611	08/24/20	08/24/20	ATP
Hydroxide	ND		mg/L	13		2.5	251611	08/24/20	08/24/20	ATP
Alkalinity, Total as CaCO3	**440**		mg/L	13		2.5	251611	08/24/20	08/24/20	ATP
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**1,800**		mg/L	20		2	251597	08/24/20	08/24/20	ATP

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432455

432455-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM2540D Prep Method: METHOD										
Total Suspended Solids	**13**		mg/L	0.6		1.1	251462	08/20/20	08/20/20	NLP
Method: SM5540C										
Surfactants (MBAS)	**0.11**		mg/L	0.040	0.027	1	251531	08/21/20 10:00	08/21/20 18:59	NLP

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432455

Sample ID: MCWP-MW09	Lab ID: 432455-002	Collected: 08/19/20 10:40
	Matrix: Water	

432455-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: ALCH 4022 Prep Method: EPA 200.8										
Chromium Trivalent	ND		ug/L	1.0		1	251344	08/20/20	09/23/20	TTR
Method: EPA 200.7 Prep Method: EPA 200.7										
Boron	**0.81**		mg/L	0.050	0.012	1	251345	08/20/20	08/20/20	SBW
Calcium	**77**		mg/L	0.10	0.033	1	251345	08/20/20	08/20/20	SBW
Iron	**0.47**		mg/L	0.020	0.016	1	251345	08/20/20	08/20/20	SBW
Magnesium	**74**		mg/L	0.10	0.048	1	251345	08/20/20	08/20/20	SBW
Manganese	**0.12**		mg/L	0.010	0.0030	1	251345	08/20/20	08/20/20	SBW
Potassium	**15**		mg/L	0.50	0.18	1	251345	08/20/20	08/20/20	SBW
Sodium	**570**		mg/L	0.50	0.061	1	251345	08/20/20	08/20/20	SBW
Method: EPA 200.8 Prep Method: EPA 200.8										
Aluminum	**76**		ug/L	50	16	5	251344	08/20/20	08/31/20	JCP
Antimony	ND		ug/L	2.5	0.30	5	251344	08/20/20	08/31/20	JCP
Arsenic	**1.8**	J	ug/L	2.0	0.38	1	251344	08/20/20	08/29/20	JCP
Barium	**17**	J	ug/L	25	1.4	5	251344	08/20/20	08/31/20	JCP
Beryllium	ND		ug/L	2.5	0.25	5	251344	08/20/20	08/31/20	JCP
Cadmium	ND		ug/L	1.0	0.17	5	251344	08/20/20	08/31/20	JCP
Chromium	ND		ug/L	10	3.0	10	251344	08/20/20	09/01/20	JCP
Copper	**4.1**		ug/L	0.50	0.050	1	251344	08/20/20	08/29/20	JCP
Lead	ND		ug/L	2.5	0.22	5	251344	08/20/20	08/31/20	JCP
Nickel	**5.5**		ug/L	5.0	1.0	5	251344	08/20/20	08/31/20	JCP
Selenium	**7.5**		ug/L	2.0	0.27	1	251344	08/20/20	08/29/20	JCP
Silver	ND		ug/L	1.0	0.13	5	251344	08/20/20	08/31/20	JCP
Thallium	ND		ug/L	5.0	1.2	5	251344	08/20/20	08/31/20	JCP
Zinc	**110**		ug/L	10	4.2	1	251344	08/20/20	08/29/20	JCP
Method: EPA 245.1 Prep Method: METHOD										
Mercury	ND		ug/L	0.20	0.094	1	251384	08/20/20	08/20/20	JCP
Method: EPA 300.0 Prep Method: METHOD										
Chloride	**620**		mg/L	10	1.4	10	251348	08/19/20 12:00	08/20/20 23:59	RKV
Nitrogen, Nitrite	ND		mg/L	1.0	0.18	10	251348	08/20/20 10:24	08/20/20 10:24	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.45	10	251348	08/20/20 10:24	08/20/20 10:24	RKV
Sulfate	**550**		mg/L	10	2.5	10	251348	08/19/20 12:00	08/20/20 23:59	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	251348	08/20/20 10:24	08/20/20 10:24	RKV
Method: EPA 314.0 Prep Method: METHOD										
Perchlorate	ND		ug/L	4.0	1.1	2	251376	08/20/20	08/20/20	RKV

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432455

432455-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 524.2 Prep Method: METHOD										
Acrolein	ND		ug/L	5.0	3.3	1	251342	08/20/20	08/20/20	LYZ
Acrylonitrile	ND		ug/L	2.0	0.8	1	251342	08/20/20	08/20/20	LYZ
1,1-Dichloroethene	ND		ug/L	0.50	0.30	1	251342	08/20/20	08/20/20	LYZ
Benzene	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
Trichloroethene	ND		ug/L	0.50	0.39	1	251342	08/20/20	08/20/20	LYZ
Toluene	ND		ug/L	0.50	0.24	1	251342	08/20/20	08/20/20	LYZ
Chlorobenzene	ND		ug/L	0.50	0.19	1	251342	08/20/20	08/20/20	LYZ
Chloromethane	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
Vinyl Chloride	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
Bromomethane	ND		ug/L	0.68	0.68	1	251342	08/20/20	08/20/20	LYZ
Chloroethane	ND		ug/L	0.50	0.45	1	251342	08/20/20	08/20/20	LYZ
Trichlorofluoromethane	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
Freon 113	ND		ug/L	0.50	0.35	1	251342	08/20/20	08/20/20	LYZ
Methylene Chloride	**2.0**	B	ug/L	0.50	0.16	1	251342	08/20/20	08/20/20	LYZ
MTBE	ND		ug/L	0.50	0.19	1	251342	08/20/20	08/20/20	LYZ
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.33	1	251342	08/20/20	08/20/20	LYZ
1,1-Dichloroethane	ND		ug/L	0.50	0.32	1	251342	08/20/20	08/20/20	LYZ
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
Chloroform	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
1,1,1-Trichloroethane	ND		ug/L	0.50	0.38	1	251342	08/20/20	08/20/20	LYZ
Carbon Tetrachloride	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
1,2-Dichloroethane	ND		ug/L	0.50	0.20	1	251342	08/20/20	08/20/20	LYZ
1,2-Dichloropropane	ND		ug/L	1.0	0.36	1	251342	08/20/20	08/20/20	LYZ
Bromodichloromethane	ND		ug/L	0.50	0.31	1	251342	08/20/20	08/20/20	LYZ
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.23	1	251342	08/20/20	08/20/20	LYZ
1,1,2-Trichloroethane	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
Tetrachloroethene	ND		ug/L	0.50	0.18	1	251342	08/20/20	08/20/20	LYZ
Dibromochloromethane	ND		ug/L	0.50	0.21	1	251342	08/20/20	08/20/20	LYZ
Ethylbenzene	ND		ug/L	0.50	0.21	1	251342	08/20/20	08/20/20	LYZ
m,p-Xylenes	ND		ug/L	1.0	0.45	1	251342	08/20/20	08/20/20	LYZ
Styrene	ND		ug/L	0.50	0.22	1	251342	08/20/20	08/20/20	LYZ
Bromoform	ND		ug/L	0.50	0.20	1	251342	08/20/20	08/20/20	LYZ
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.25	1	251342	08/20/20	08/20/20	LYZ
1,3-Dichlorobenzene	ND		ug/L	0.50	0.34	1	251342	08/20/20	08/20/20	LYZ
1,4-Dichlorobenzene	ND		ug/L	0.50	0.43	1	251342	08/20/20	08/20/20	LYZ
1,2-Dichlorobenzene	ND		ug/L	0.50	0.26	1	251342	08/20/20	08/20/20	LYZ
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.27	1	251342	08/20/20	08/20/20	LYZ
2-Chloroethylvinylether	ND		ug/L	5.0	0.23	1	251342	08/20/20	08/20/20	LYZ
Surrogates				**Limits**						
Bromofluorobenzene	97%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ
1,2-Dichloroethane-d4	96%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ
Dibromofluoromethane	100%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ
Toluene-d8	102%		%REC	70-140		1	251342	08/20/20	08/20/20	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432455

432455-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 2150B										
Odor	ND		TON	1.0		1	251368	08/20/20 09:10	08/20/20 09:10	SGC
Method: SM 2330B										
CCPP	**-0.10**		SU			1	251807	08/27/20	08/27/20	SLL
Method: SM 4500-CL-G										
Chlorine, Total Residual	ND	H	mg/L	0.10	0.016	1	251497	08/22/20 10:52	08/22/20 10:52	WWC
Method: SM 4500-CN-E Prep Method: METHOD										
Cyanide	ND		mg/L	0.010	0.0022	1	251800	08/27/20	08/27/20	ATP
Method: SM 4500-F-C										
Fluoride	**0.54**		mg/L	0.10	0.0030	1	251545	08/24/20	08/24/20	NLP
Method: SM 4500-H+ B										
pH	**7.13**	H	SU			1	251373	08/20/20 13:00	08/20/20 13:00	SGC
Temperature	**6.10**	H	deg C	1.00		1	251373	08/20/20 13:00	08/20/20 13:00	SGC
Method: SM 4500-NH3-G										
Ammonia-N	**2.0**		mg/L	0.10	0.010	1	251758	08/26/20	08/27/20	ATP
Nitrogen, Total Kjeldahl	**2.2**		mg/L	0.40	0.030	1	251387	08/20/20	08/20/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.21**		mg/L	0.020	0.010	1	251694	08/25/20	08/25/20	SGC
Method: SM 5310B										
Total Organic Carbon	**2.6**		mg/L	1.0	0.091	1	251646	08/25/20	08/25/20	ATP
Method: SM 9223Bb										
Fecal Coliform	<1.0		MPN/100ml	1.0		1	251328	08/19/20 16:25	08/20/20 13:15	CCO
Coliform, Total	**5.2**		MPN/100ml	1.0		1	251328	08/19/20 16:25	08/20/20 13:15	CCO
Coliform, E. Coli	<1.0		MPN/100ml	1.0		1	251328	08/19/20 16:25	08/20/20 13:15	CCO
Method: SM2120B										
Color	ND		ColorUnits	5		1	251367	08/20/20 09:00	08/20/20 09:00	SGC
Method: SM2130B										
Turbidity	**2.1**		NTU	0.10	0.07	1	251366	08/20/20 09:10	08/20/20 09:10	SGC
Method: SM2320B Prep Method: METHOD										
Bicarbonate	**410**		mg/L	25		5	251611	08/24/20	08/24/20	ATP
Carbonate	ND		mg/L	25		5	251611	08/24/20	08/24/20	ATP
Hydroxide	ND		mg/L	25		5	251611	08/24/20	08/24/20	ATP
Alkalinity, Total as CaCO3	**330**		mg/L	25		5	251611	08/24/20	08/24/20	ATP
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**2,000**		mg/L	20		2	251597	08/24/20	08/24/20	ATP
Method: SM2540D Prep Method: METHOD										
Total Suspended Solids	**3.8**		mg/L	0.6		1.1	251462	08/20/20	08/20/20	NLP
Method: SM5540C										
Surfactants (MBAS)	**0.044**		mg/L	0.040	0.027	1	251531	08/21/20 10:00	08/21/20 18:59	NLP

Results for any subcontracted analyses are not included in this section.

Analysis Results for 432455

<	Value is less than indicated concentration
B	Contamination found in associated Method Blank
H	Holding time was exceeded
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:** QC882070		**Batch:** 251342
Matrix: Water	**Method:** EPA 524.2		**Prep Method:** METHOD

QC882070 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Acrolein	ND		ug/L	5.0	3.3	08/20/20	08/20/20
Acrylonitrile	ND		ug/L	2.0	0.8	08/20/20	08/20/20
1,1-Dichloroethene	ND		ug/L	0.50	0.30	08/20/20	08/20/20
Benzene	ND		ug/L	0.50	0.18	08/20/20	08/20/20
Trichloroethene	ND		ug/L	0.50	0.39	08/20/20	08/20/20
Toluene	ND		ug/L	0.50	0.24	08/20/20	08/20/20
Chlorobenzene	ND		ug/L	0.50	0.19	08/20/20	08/20/20
Chloromethane	ND		ug/L	0.50	0.27	08/20/20	08/20/20
Vinyl Chloride	ND		ug/L	0.50	0.18	08/20/20	08/20/20
Bromomethane	ND		ug/L	0.68	0.68	08/20/20	08/20/20
Chloroethane	ND		ug/L	0.50	0.45	08/20/20	08/20/20
Trichlorofluoromethane	ND		ug/L	0.50	0.25	08/20/20	08/20/20
Freon 113	ND		ug/L	0.50	0.35	08/20/20	08/20/20
Methylene Chloride	1.7		ug/L	0.50	0.16	08/20/20	08/20/20
MTBE	ND		ug/L	0.50	0.19	08/20/20	08/20/20
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.33	08/20/20	08/20/20
1,1-Dichloroethane	ND		ug/L	0.50	0.32	08/20/20	08/20/20
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.27	08/20/20	08/20/20
Chloroform	ND		ug/L	0.50	0.18	08/20/20	08/20/20
1,1,1-Trichloroethane	ND		ug/L	0.50	0.38	08/20/20	08/20/20
Carbon Tetrachloride	ND		ug/L	0.50	0.27	08/20/20	08/20/20
1,2-Dichloroethane	ND		ug/L	0.50	0.20	08/20/20	08/20/20
1,2-Dichloropropane	ND		ug/L	1.0	0.36	08/20/20	08/20/20
Bromodichloromethane	ND		ug/L	0.50	0.31	08/20/20	08/20/20
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.25	08/20/20	08/20/20
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.23	08/20/20	08/20/20
1,1,2-Trichloroethane	ND		ug/L	0.50	0.25	08/20/20	08/20/20
Tetrachloroethene	ND		ug/L	0.50	0.18	08/20/20	08/20/20
Dibromochloromethane	ND		ug/L	0.50	0.21	08/20/20	08/20/20
Ethylbenzene	ND		ug/L	0.50	0.21	08/20/20	08/20/20
m,p-Xylenes	ND		ug/L	1.0	0.45	08/20/20	08/20/20
Styrene	ND		ug/L	0.50	0.22	08/20/20	08/20/20
Bromoform	ND		ug/L	0.50	0.20	08/20/20	08/20/20
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.25	08/20/20	08/20/20
1,3-Dichlorobenzene	ND		ug/L	0.50	0.34	08/20/20	08/20/20
1,4-Dichlorobenzene	ND		ug/L	0.50	0.43	08/20/20	08/20/20
1,2-Dichlorobenzene	ND		ug/L	0.50	0.26	08/20/20	08/20/20
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.27	08/20/20	08/20/20
2-Chloroethylvinylether	ND		ug/L	5.0	0.23	08/20/20	08/20/20
Surrogates				**Limits**			
Bromofluorobenzene	98%		%REC	70-140		08/20/20	08/20/20
1,2-Dichloroethane-d4	94%		%REC	70-140		08/20/20	08/20/20

ENTHALPY ANALYTICAL

Batch QC

QC882070 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Dibromofluoromethane	102%		%REC	70-140		08/20/20	08/20/20
Toluene-d8	101%		%REC	70-140		08/20/20	08/20/20

Type: Lab Control Sample **Lab ID:** QC882071 **Batch:** 251342
Matrix: Water **Method:** EPA 524.2 **Prep Method:** METHOD

QC882071 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1-Dichloroethene	41.40	50.00	ug/L	83%		70-135
Benzene	38.38	50.00	ug/L	77%		70-130
Trichloroethene	45.03	50.00	ug/L	90%		70-130
Toluene	43.92	50.00	ug/L	88%		70-130
Chlorobenzene	45.67	50.00	ug/L	91%		70-130
MTBE	36.43	50.00	ug/L	73%		70-130
Surrogates						
Bromofluorobenzene	47.23	50.00	ug/L	94%		70-140
1,2-Dichloroethane-d4	46.98	50.00	ug/L	94%		70-140
Dibromofluoromethane	51.60	50.00	ug/L	103%		70-140
Toluene-d8	53.22	50.00	ug/L	106%		70-140

Type: Lab Control Sample Duplicate **Lab ID:** QC882072 **Batch:** 251342
Matrix: Water **Method:** EPA 524.2 **Prep Method:** METHOD

QC882072 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
1,1-Dichloroethene	42.62	50.00	ug/L	85%		70-135	3	30
Benzene	39.97	50.00	ug/L	80%		70-130	4	30
Trichloroethene	45.13	50.00	ug/L	90%		70-130	0	30
Toluene	45.19	50.00	ug/L	90%		70-130	3	30
Chlorobenzene	47.85	50.00	ug/L	96%		70-130	5	30
MTBE	43.17	50.00	ug/L	86%		70-130	17	30
Surrogates								
Bromofluorobenzene	47.72	50.00	ug/L	95%		70-140		
1,2-Dichloroethane-d4	47.84	50.00	ug/L	96%		70-140		
Dibromofluoromethane	50.77	50.00	ug/L	102%		70-140		
Toluene-d8	52.80	50.00	ug/L	106%		70-140		

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC882077	Batch: 251344
Matrix: Water		

QC882077 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Method: ALCH 4022 Prep Method: EPA 200.8							
Chromium Trivalent	ND		ug/L	1.0		08/20/20	09/23/20
Method: EPA 200.8 Prep Method: EPA 200.8							
Aluminum	ND		ug/L	10	3.2	08/20/20	08/31/20
Antimony	0.10	J	ug/L	0.50	0.060	08/20/20	08/31/20
Arsenic	ND		ug/L	2.0	0.38	08/20/20	08/31/20
Barium	ND		ug/L	5.0	0.28	08/20/20	08/31/20
Beryllium	ND		ug/L	0.50	0.050	08/20/20	08/31/20
Cadmium	ND		ug/L	0.20	0.033	08/20/20	08/31/20
Chromium	0.73	J	ug/L	1.0	0.30	08/20/20	09/01/20
Copper	ND		ug/L	0.50	0.050	08/20/20	08/31/20
Lead	ND		ug/L	0.50	0.044	08/20/20	08/31/20
Nickel	ND		ug/L	1.0	0.20	08/20/20	08/31/20
Selenium	ND		ug/L	2.0	0.24	08/20/20	09/01/20
Silver	0.019	J	ug/L	0.20	0.014	08/20/20	09/01/20
Thallium	ND		ug/L	1.0	0.23	08/20/20	08/31/20
Zinc	ND		ug/L	10	4.2	08/20/20	08/31/20

Type: Lab Control Sample	Lab ID: QC882078	Batch: 251344
Matrix: Water	Method: EPA 200.8	Prep Method: EPA 200.8

QC882078 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Aluminum	47.10	50.00	ug/L	94%		85-115
Antimony	49.41	50.00	ug/L	99%		85-115
Arsenic	44.69	50.00	ug/L	89%		85-115
Barium	49.09	50.00	ug/L	98%		85-115
Beryllium	47.16	50.00	ug/L	94%		85-115
Cadmium	51.20	50.00	ug/L	102%		85-115
Chromium	49.79	50.00	ug/L	100%		85-115
Copper	50.10	50.00	ug/L	100%		85-115
Lead	51.29	50.00	ug/L	103%		85-115
Nickel	51.59	50.00	ug/L	103%		85-115
Selenium	47.61	50.00	ug/L	95%		85-115
Silver	47.99	50.00	ug/L	96%		85-115
Thallium	49.89	50.00	ug/L	100%		85-115
Zinc	50.99	50.00	ug/L	102%		85-115

ENTHALPY ANALYTICAL

Batch QC

Type:	**Sample Spike**	**Lab ID:**	**QC882080**	**Batch:**	**251344**
Matrix (Source ID):	**Water (432455-001)**	**Method:**	**EPA 200.8**	**Prep Method:**	**EPA 200.8**

QC882080 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Aluminum	81.70	31.51	50.00	ug/L	100%		70-130	5
Antimony	49.30	ND	50.00	ug/L	99%		70-130	5
Arsenic	57.20	13.46	50.00	ug/L	87%		70-130	1
Barium	100.5	50.17	50.00	ug/L	101%		70-130	5
Beryllium	47.28	ND	50.00	ug/L	95%		70-130	5
Cadmium	49.35	0.2750	50.00	ug/L	98%		70-130	5
Chromium	46.18	ND	50.00	ug/L	92%		70-130	10
Copper	50.86	3.395	50.00	ug/L	95%		70-130	1
Lead	49.80	ND	50.00	ug/L	100%		70-130	5
Nickel	69.13	18.80	50.00	ug/L	101%		70-130	5
Selenium	47.74	4.196	50.00	ug/L	87%		70-130	1
Silver	45.03	0.1250	50.00	ug/L	90%		70-130	5
Thallium	48.57	ND	50.00	ug/L	97%		70-130	5
Zinc	46.24	ND	50.00	ug/L	92%		70-130	1

Type:	**Blank**	**Lab ID:**	**QC882081**	**Batch:**	**251345**
Matrix:	**Water**	**Method:**	**EPA 200.7**	**Prep Method:**	**EPA 200.7**

QC882081 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Boron	ND		mg/L	0.050	0.012	08/20/20	08/20/20
Calcium	ND		mg/L	0.10	0.033	08/20/20	08/20/20
Iron	ND		mg/L	0.020	0.016	08/20/20	08/20/20
Magnesium	ND		mg/L	0.10	0.048	08/20/20	08/20/20
Manganese	ND		mg/L	0.010	0.0030	08/20/20	08/20/20
Potassium	ND		mg/L	0.50	0.18	08/20/20	08/20/20
Sodium	0.076	J	mg/L	0.50	0.061	08/20/20	08/20/20

Type:	**Lab Control Sample**	**Lab ID:**	**QC882082**	**Batch:**	**251345**
Matrix:	**Water**	**Method:**	**EPA 200.7**	**Prep Method:**	**EPA 200.7**

QC882082 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Boron	2.026	2.000	mg/L	101%		85-115
Calcium	22.78	20.00	mg/L	114%		85-115
Iron	2.031	2.000	mg/L	102%		85-115
Magnesium	21.75	20.00	mg/L	109%		85-115
Manganese	2.089	2.000	mg/L	104%		85-115
Potassium	41.21	38.00	mg/L	108%		85-115
Sodium	22.65	20.00	mg/L	113%		85-115

ENTHALPY ANALYTICAL

Batch QC

Type:	**Sample Spike**	**Lab ID:**	**QC882083**	**Batch:**	**251345**
Matrix (Source ID):	**Water (432455-001)**	**Method:**	**EPA 200.7**	**Prep Method:**	**EPA 200.7**

QC882083 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Boron	1.814	0.8515	1.000	mg/L	96%		75-125	1
Calcium	112.1	95.01	20.00	mg/L	85%	NM	75-125	1
Iron	2.160	1.218	1.000	mg/L	94%		75-125	1
Magnesium	84.34	70.23	20.00	mg/L	71%	*	75-125	1
Manganese	1.394	0.4345	1.000	mg/L	96%		75-125	1
Potassium	59.18	29.62	29.00	mg/L	102%		75-125	1
Sodium	468.9	466.7	20.00	mg/L	11%	NM	75-125	1

Type:	**Blank**	**Lab ID:**	**QC882204**	**Batch:**	**251348**
Matrix:	**Water**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC882204 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Chloride	ND		mg/L	1.0	0.14	08/19/20 12:00	08/19/20 23:59
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	08/19/20 22:59	08/19/20 22:59
Nitrogen, Nitrate	ND		mg/L	0.10	0.05	08/19/20 22:59	08/19/20 22:59
Sulfate	ND		mg/L	1.0	0.25	08/19/20 12:00	08/19/20 23:59
Nitrogen, Nitrate/Nitrite	ND		mg/L	0.10		08/19/20 22:59	08/19/20 22:59

Type:	**Lab Control Sample**	**Lab ID:**	**QC882205**	**Batch:**	**251348**
Matrix:	**Water**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC882205 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chloride	103.4	100.0	mg/L	103%		90-110
Nitrogen, Nitrite	9.626	9.150	mg/L	105%		90-110
Nitrogen, Nitrate	9.561	9.030	mg/L	106%		90-110
Sulfate	50.87	50.00	mg/L	102%		90-110

Type:	**Matrix Spike**	**Lab ID:**	**QC882206**	**Batch:**	**251348**
Matrix (Source ID):	**Water (432451-002)**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC882206 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Chloride	234.1	158.5	100.0	mg/L	76%	*	80-120	10
Nitrogen, Nitrite	9.441	ND	9.150	mg/L	103%		80-120	1
Nitrogen, Nitrate	9.146	0.07000	9.030	mg/L	101%		80-120	1
Sulfate	51.84	2.356	50.00	mg/L	99%		80-120	1

Batch QC

Type:	Matrix Spike Duplicate	Lab ID:	QC882207	Batch:	251348
Matrix (Source ID):	Water (432451-002)	Method:	EPA 300.0	Prep Method:	METHOD

QC882207 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Chloride	223.9	158.5	100.0	mg/L	65%	*	80-120	4	20	10
Nitrogen, Nitrite	9.522	ND	9.150	mg/L	104%		80-120	1	20	1
Nitrogen, Nitrate	9.279	0.07000	9.030	mg/L	102%		80-120	1	20	1
Sulfate	51.83	2.356	50.00	mg/L	99%		80-120	0	20	1

Type:	Sample Duplicate	Lab ID:	QC882126	Batch:	251366
Matrix (Source ID):	Water (432441-001)	Method:	SM2130B		

QC882126 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Turbidity	0.4370	0.4340	NTU		1	20	1

Type:	Sample Duplicate	Lab ID:	QC882127	Batch:	251367
Matrix (Source ID):	Water (432441-001)	Method:	SM2120B		

QC882127 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Color	ND	ND	ColorUnits			20	1

Type:	Sample Duplicate	Lab ID:	QC882128	Batch:	251368
Matrix (Source ID):	Water (432441-001)	Method:	SM 2150B		

QC882128 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Odor	ND	ND	TON			20	1

Type:	Sample Duplicate	Lab ID:	QC882136	Batch:	251373
Matrix (Source ID):	Water (432455-001)	Method:	SM 4500-H+ B		

QC882136 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
pH	6.940	6.930	SU		0	20	1
Temperature	5.800	5.900	deg C		2	20	1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Blank**	**Lab ID:**	**QC882143**	**Batch:**	**251376**
Matrix:	**Drinking Water**	**Method:**	**EPA 314.0**	**Prep Method:**	**METHOD**

QC882143 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Perchlorate	ND		ug/L	2.0	0.53	08/20/20	08/20/20

Type:	**Lab Control Sample**	**Lab ID:**	**QC882144**	**Batch:**	**251376**
Matrix:	**Drinking Water**	**Method:**	**EPA 314.0**	**Prep Method:**	**METHOD**

QC882144 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Perchlorate	43.91	50.00	ug/L	88%		85-115

Type:	**Matrix Spike**	**Lab ID:**	**QC882145**	**Batch:**	**251376**
Matrix (Source ID):	**Drinking Water (432439-001)**	**Method:**	**EPA 314.0**	**Prep Method:**	**METHOD**

QC882145 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Perchlorate	48.78	1.165	50.00	ug/L	95%		80-120	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC882146**	**Batch:**	**251376**
Matrix (Source ID):	**Drinking Water (432439-001)**	**Method:**	**EPA 314.0**	**Prep Method:**	**METHOD**

QC882146 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Perchlorate	48.30	1.165	50.00	ug/L	94%		80-120	1	15	1

Type:	**Blank**	**Lab ID:**	**QC882177**	**Batch:**	**251384**
Matrix:	**Drinking Water**	**Method:**	**EPA 245.1**	**Prep Method:**	**METHOD**

QC882177 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Mercury	ND		ug/L	0.20	0.094	08/20/20	08/20/20

Type:	**Lab Control Sample**	**Lab ID:**	**QC882178**	**Batch:**	**251384**
Matrix:	**Drinking Water**	**Method:**	**EPA 245.1**	**Prep Method:**	**METHOD**

QC882178 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Mercury	5.209	5.000	ug/L	104%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC882179**	**Batch:**	**251384**
Matrix (Source ID):	**Drinking Water (432404-001)**	**Method:**	**EPA 245.1**	**Prep Method:**	**METHOD**

QC882179 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	5.400	ND	5.000	ug/L	108%		75-125	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC882180**	**Batch:**	**251384**
Matrix (Source ID):	**Drinking Water (432404-001)**	**Method:**	**EPA 245.1**	**Prep Method:**	**METHOD**

QC882180 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	5.414	ND	5.000	ug/L	108%		75-125	0	20	1

Type:	**Matrix Spike**	**Lab ID:**	**QC882181**	**Batch:**	**251384**
Matrix (Source ID):	**Drinking Water (432405-001)**	**Method:**	**EPA 245.1**	**Prep Method:**	**METHOD**

QC882181 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	5.708	ND	5.000	ug/L	114%		75-125	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC882182**	**Batch:**	**251384**
Matrix (Source ID):	**Drinking Water (432405-001)**	**Method:**	**EPA 245.1**	**Prep Method:**	**METHOD**

QC882182 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	5.317	ND	5.000	ug/L	106%		75-125	7	20	1

Type:	**Blank**	**Lab ID:**	**QC882187**	**Batch:**	**251387**
Matrix:	**Water**	**Method:**	**SM 4500-NH3-G**		

QC882187 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Total Kjeldahl	ND		mg/L	0.20	0.015	08/20/20	08/20/20

Type:	**Lab Control Sample**	**Lab ID:**	**QC882188**	**Batch:**	**251387**
Matrix:	**Water**	**Method:**	**SM 4500-NH3-G**		

QC882188 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Total Kjeldahl	2.330	2.500	mg/L	93%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike	Lab ID:	QC882189	Batch:	251387
Matrix (Source ID):	Water (432384-001)	Method:	SM 4500-NH3-G	Prep Method:	METHOD

QC882189 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Total Kjeldahl	25.30	13.90	12.50	mg/L	91%		80-120	13

Type:	Matrix Spike Duplicate	Lab ID:	QC882190	Batch:	251387
Matrix (Source ID):	Water (432384-001)	Method:	SM 4500-NH3-G	Prep Method:	METHOD

QC882190 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Total Kjeldahl	25.20	13.90	12.50	mg/L	90%		80-120	0	20	13

Type:	Blank	Lab ID:	QC882407	Batch:	251462
Matrix:	Water	Method:	SM2540D	Prep Method:	METHOD

QC882407 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Suspended Solids	ND		mg/L	0.5		08/28/20	08/28/20

Type:	Sample Duplicate	Lab ID:	QC882408	Batch:	251462
Matrix (Source ID):	Water (432300-002)	Method:	SM2540D	Prep Method:	METHOD

QC882408 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Suspended Solids	ND	342.0	mg/L			5	1

Type:	Blank	Lab ID:	QC882531	Batch:	251497
Matrix:	Water	Method:	SM 4500-CL-G		

QC882531 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Chlorine, Total Residual	ND		mg/L	0.10	0.016	08/22/20 10:52	08/22/20 10:52

Type:	Lab Control Sample	Lab ID:	QC882532	Batch:	251497
Matrix:	Water	Method:	SM 4500-CL-G		

QC882532 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chlorine, Total Residual	1.034	1.000	mg/L	103%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type: Sample Duplicate **Lab ID:** QC882533 **Batch:** 251497
Matrix (Source ID): Water (432576-001) **Method:** SM 4500-CL-G

QC882533 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Chlorine, Total Residual	ND	ND	mg/L			20	1

Type: Blank **Lab ID:** QC882633 **Batch:** 251531
Matrix: Water **Method:** SM5540C

QC882633 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Surfactants (MBAS)	ND		mg/L	0.040	0.027	08/21/20 10:00	08/21/20 18:59

Type: Lab Control Sample **Lab ID:** QC882634 **Batch:** 251531
Matrix: Water **Method:** SM5540C

QC882634 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Surfactants (MBAS)	0.9750	1.000	mg/L	98%		90-110

Type: Matrix Spike **Lab ID:** QC882635 **Batch:** 251531
Matrix (Source ID): Water (432518-001) **Method:** SM5540C

QC882635 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Surfactants (MBAS)	0.9960	ND	1.000	mg/L	97%		80-120	1

Type: Matrix Spike Duplicate **Lab ID:** QC882636 **Batch:** 251531
Matrix (Source ID): Water (432518-001) **Method:** SM5540C

QC882636 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Surfactants (MBAS)	0.9880	ND	1.000	mg/L	96%		80-120	1	20	1

Type: Blank **Lab ID:** QC882664 **Batch:** 251545
Matrix: Water **Method:** SM 4500-F-C

QC882664 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Fluoride	ND		mg/L	0.10	0.0030	08/24/20	08/24/20

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample **Lab ID:** QC882665 **Batch:** 251545
Matrix: Water **Method:** SM 4500-F-C

QC882665 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Fluoride	1.040	1.000	mg/L	104%		80-120

Type: Matrix Spike **Lab ID:** QC882666 **Batch:** 251545
Matrix (Source ID): Water (432518-001) **Method:** SM 4500-F-C

QC882666 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Fluoride	1.650	0.6120	1.000	mg/L	104%		75-125	1

Type: Matrix Spike Duplicate **Lab ID:** QC882667 **Batch:** 251545
Matrix (Source ID): Water (432518-001) **Method:** SM 4500-F-C

QC882667 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Fluoride	1.650	0.6120	1.000	mg/L	104%		75-125	0	20	1

Type: Blank **Lab ID:** QC882828 **Batch:** 251597
Matrix: Water **Method:** SM2540C **Prep Method:** METHOD

QC882828 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Dissolved Solids	ND		mg/L	10		08/24/20	08/24/20

Type: Lab Control Sample **Lab ID:** QC882829 **Batch:** 251597
Matrix: Water **Method:** SM2540C **Prep Method:** METHOD

QC882829 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Dissolved Solids	101.0	100.0	mg/L	101%		90-110

Type: Sample Duplicate **Lab ID:** QC882830 **Batch:** 251597
Matrix (Source ID): Drinking Water (432470-024) **Method:** SM2540C **Prep Method:** METHOD

QC882830 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Dissolved Solids	330.0	328.0	mg/L		1	5	2

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC882882	**Batch:** 251611
Matrix: Drinking Water	**Method:** SM2320B	**Prep Method:** METHOD

QC882882 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Bicarbonate	ND		mg/L	5.0		08/24/20	08/24/20
Carbonate	ND		mg/L	5.0		08/24/20	08/24/20
Hydroxide	ND		mg/L	5.0		08/24/20	08/24/20
Alkalinity, Total as CaCO3	ND		mg/L	5.0		08/24/20	08/24/20

Type: Lab Control Sample	**Lab ID:** QC882883	**Batch:** 251611
Matrix: Drinking Water	**Method:** SM2320B	**Prep Method:** METHOD

QC882883 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Alkalinity, Total as CaCO3	96.24	100.0	mg/L	96%		90-110

Type: Sample Duplicate	**Lab ID:** QC882884	**Batch:** 251611
Matrix (Source ID): Drinking Water (432404-002)	**Method:** SM2320B	**Prep Method:** METHOD

QC882884 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Bicarbonate	337.0	337.0	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	276.3	276.0	mg/L		0	20	2.5

Type: Blank	**Lab ID:** QC882930	**Batch:** 251646
Matrix: Water	**Method:** SM 5310B	

QC882930 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Organic Carbon	ND		mg/L	1.0	0.091	08/25/20	08/25/20

Type: Lab Control Sample	**Lab ID:** QC882931	**Batch:** 251646
Matrix: Water	**Method:** SM 5310B	

QC882931 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	10.39	10.00	mg/L	104%		80-120

Type: Matrix Spike	**Lab ID:** QC882932	**Batch:** 251646
Matrix (Source ID): Sea Water (432658-002)	**Method:** SM 5310B	

QC882932 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Organic Carbon	22.13	1.785	20.00	mg/L	102%		80-120	2

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC882933**
Matrix (Source ID):	**Sea Water (432658-002)**	**Method:**	**SM 5310B**

Batch: 251646

QC882933 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	22.61	1.785	20.00	mg/L	104%		80-120	2	20	2

Type:	**Blank**	**Lab ID:**	**QC883038**
Matrix:	**Water**	**Method:**	**SM 4500-P-B5-E**

Batch: 251694

QC883038 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Phosphorus	ND		mg/L	0.020	0.010	08/25/20	08/25/20

Type:	**Lab Control Sample**	**Lab ID:**	**QC883039**
Matrix:	**Water**	**Method:**	**SM 4500-P-B5-E**

Batch: 251694

QC883039 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phosphorus	0.4320	0.4000	mg/L	108%		80-120

Type:	**Matrix Spike**	**Lab ID:**	**QC883040**
Matrix (Source ID):	**Water (432521-001)**	**Method:**	**SM 4500-P-B5-E**

Batch: 251694

QC883040 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phosphorus	0.5480	0.05700	0.4000	mg/L	123%		75-125	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC883041**
Matrix (Source ID):	**Water (432521-001)**	**Method:**	**SM 4500-P-B5-E**

Batch: 251694

QC883041 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phosphorus	0.5130	0.05700	0.4000	mg/L	114%		75-125	7	20	1

Type:	**Blank**	**Lab ID:**	**QC883194**
Matrix:	**Water**	**Method:**	**SM 4500-NH3-G**

Batch: 251758

QC883194 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Ammonia-N	ND		mg/L	0.10	0.010	08/26/20	08/27/20

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	Lab ID: QC883195	Batch: 251758
Matrix: Water	Method: SM 4500-NH3-G	

QC883195 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Ammonia-N	2.520	2.500	mg/L	101%		80-120

Type: Matrix Spike	Lab ID: QC883196	Batch: 251758
Matrix (Source ID): Water (432518-001)	Method: SM 4500-NH3-G	

QC883196 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Ammonia-N	2.560	ND	2.500	mg/L	102%		80-120	1

Type: Matrix Spike Duplicate	Lab ID: QC883197	Batch: 251758
Matrix (Source ID): Water (432518-001)	Method: SM 4500-NH3-G	

QC883197 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Ammonia-N	2.560	ND	2.500	mg/L	102%		80-120	0	20	1

Type: Blank	Lab ID: QC883337	Batch: 251800
Matrix: Water	Method: SM 4500-CN-E	Prep Method: METHOD

QC883337 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Cyanide	ND		mg/L	0.010	0.0022	08/27/20	08/27/20

Type: Lab Control Sample	Lab ID: QC883338	Batch: 251800
Matrix: Water	Method: SM 4500-CN-E	Prep Method: METHOD

QC883338 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Cyanide	0.2090	0.2000	mg/L	105%		73-123

Type: Matrix Spike	Lab ID: QC883339	Batch: 251800
Matrix (Source ID): Water (432391-001)	Method: SM 4500-CN-E	Prep Method: METHOD

QC883339 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Cyanide	0.1950	ND	0.2000	mg/L	98%		56-129	1

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC883340**	**Batch:**	**251800**
Matrix (Source ID):	**Water (432391-001)**	**Method:**	**SM 4500-CN-E**	**Prep Method:**	**METHOD**

QC883340 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Cyanide	0.1950	ND	0.2000	mg/L	98%		56-129	0	37	1

* Value is outside QC limits
J Estimated value
ND Not Detected
NM Not Meaningful: Sample concentration > 4X spike concentration

Laboratory Job Number 432455

Subcontracted Products

AmeriSci

Please Reply To:

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

FACSIMILE TELECOPY TRANSMISSION

To: Project Manager
Enthalpy Analytical
Fax #:

From: Lateef McIntosh
AmeriSci Job #: 920081615
Subject: Water (waste) 5 day Results
Client Project: EO-432455

Email: incomingreports@enthalpy.com,patrick.mccarthy@enthalpy.com

Date: Thursday, August 27, 2020
Time: 13:42:39
Comments:

Number of Pages: 3 (including cover sheet)

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AmeriSci Job #: **920081615**
Client Name: Enthalpy Analytical

Table I
Summary of Transmission Electron Microscopy (TEM) Results for Asbestos (Water)

EO-432455

AmeriSci Sample #	Client Sample No./Location	Liquid Filtered (liters)	Temp (Celcius)	Structures Detected* (total)	Structures Detected* (>10 µm)	Analytical Sensitivity (MF/L)	Asbestos Conc (total) (MF/L)	Asbestos Conc (>10 µm) (MF/L)	Asbestos Type
01	432455-001 SMBRP-12	0.01	6	NSD	NSD	0.17	<0.17	<0.17	----
02	432455-002 MCWP-MW09	0.02	6	NSD	NSD	0.17	<0.17	<0.17	----

*fiber criteria (>=0.5 microns, 5:1 aspect ratio); NAD/NSD = no asbestos detected, NA = not analyzed, MF/L = million fibers per liter.

NOTE: Drinking water analysis by EPA-600/4-83-043 (100.1), waste water by EPA-600/4-80-005. Analytical sensitivity calculated as though 1 fiber had been detected on the TEM GRID area analyzed. Samples are refrigerated upon receipt when necessary and filtered within four hours.

Reviewed By: _____ ; Analyzed By: _____ Date: 8/26/2020
Lateef McIntosh

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
AmeriSci
24416 S. Main Street
Suite 308
Carson, CA 90745
ATTN: Taylor Brule
PO #: 1056016

Enthalpy Order: EO-432455
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

920081615

Results Due: Standard TAT
Report Level: II
Report To: MDL
EDDs:

Notes:
EPA 100.1

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
SMBRP-12	19-AUG-2020 00:00	432455-001	1	Water	Asbestos	EPA 100.1
MCWP-MW09	19-AUG-2020 00:00	432455-002	1	Water	Asbestos	EPA 100.1

Notes:	Relinquished By:	Received By:
	Sam Ramirez	
	Date: 8/20/20 1615	Date: 8/20/20 1615 6°C
	Date:	Date:
	Date:	Date:

Laboratory Job Number 432455

Subcontracted Products

Eurofins CalScience

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-36451-1
Client Project/Site: 432455

For:
Enthalpy Analytical LLC
931 W. Barkley Ave
Orange, California 92868

Attn: Ranjit Clarke

Authorized for release by:
8/27/2020 3:50:15 PM

Xuan Dang, Project Manager I
(714)895-5494
Xuan.Dang@eurofinset.com

LINKS

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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.

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Definitions/Glossary

Client: Enthalpy Analytical LLC
Project/Site: 432455

Job ID: 570-36451-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
s	Seeded Control Blank (SCB) Recovery High

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

Client: Enthalpy Analytical LLC
Project/Site: 432455

Job ID: 570-36451-1

Job ID: 570-36451-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-36451-1

Comments
No additional comments.

Receipt
The samples were received on 8/20/2020 3:45 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

Receipt Exceptions

The laboratory received 1 Liter clear glass with Sulfuric acid instead of 1 Liter amber glass with Sulfuric acid container for 1664 analysis on the following sample: SMBRP-12 (570-36451-1) and MCWP-MW09 (570-36451-2). The client was contacted regarding this issue, and the laboratory was instructed to proceed with analysis.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
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 570-89909. LCS/LCSD was performed to meet QC requirement.

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: 432455

Job ID: 570-36451-1

Client Sample ID: SMBRP-12 — Lab Sample ID: 570-36451-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Biochemical Oxygen Demand	3.99	J	4.17	2.43	mg/L	1		SM5210B	Total/NA

Client Sample ID: MCWP-MW09 — Lab Sample ID: 570-36451-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Enthalpy Analytical LLC
Project/Site: 432455

Job ID: 570-36451-1

General Chemistry

Client Sample ID: SMBRP-12
Date Collected: 08/19/20 00:00
Date Received: 08/20/20 15:45

Lab Sample ID: 570-36451-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	ND		1.10	0.883	mg/L		08/24/20 11:47	08/24/20 11:47	1
Biochemical Oxygen Demand	**3.99**	**J**	4.17	2.43	mg/L			08/20/20 21:20	1

Client Sample ID: MCWP-MW09
Date Collected: 08/19/20 00:00
Date Received: 08/20/20 15:45

Lab Sample ID: 570-36451-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	ND		1.23	0.984	mg/L		08/24/20 11:47	08/24/20 11:47	1
Biochemical Oxygen Demand	ND		1.25	0.730	mg/L			08/20/20 21:20	1

Client: Enthalpy Analytical LLC
Project/Site: 432455

Job ID: 570-36451-1

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 570-89909/1-A
Matrix: Water
Analysis Batch: 89961

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89909

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	ND		1.00	0.800	mg/L		08/24/20 11:47	08/24/20 11:47	1

Lab Sample ID: LCS 570-89909/2-A
Matrix: Water
Analysis Batch: 89961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89909

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM: Oil and Grease	40.0	37.50		mg/L		94	78 - 114

Lab Sample ID: LCSD 570-89909/3-A
Matrix: Water
Analysis Batch: 89961

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 89909

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HEM: Oil and Grease	40.0	37.20		mg/L		93	78 - 114	1	18

Method: SM5210B - BOD, 5 Day

Lab Sample ID: SCB 570-90283/2
Matrix: Water
Analysis Batch: 90283

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

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	1.462	s	0.833	0.487	mg/L			08/20/20 21:20	1

Lab Sample ID: USB 570-90283/1
Matrix: Water
Analysis Batch: 90283

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		0.833	0.487	mg/L			08/20/20 21:20	1

Lab Sample ID: LCS 570-90283/3
Matrix: Water
Analysis Batch: 90283

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	196.9		mg/L		99	84.6 - 115.4

Lab Sample ID: 570-36350-N-2 DU
Matrix: Water
Analysis Batch: 90283

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Biochemical Oxygen Demand	ND		ND		mg/L		NC	25

QC Association Summary

Client: Enthalpy Analytical LLC
Project/Site: 432455

Job ID: 570-36451-1

General Chemistry

Prep Batch: 89909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-36451-1	SMBRP-12	Total/NA	Water	1664A	
570-36451-2	MCWP-MW09	Total/NA	Water	1664A	
MB 570-89909/1-A	Method Blank	Total/NA	Water	1664A	
LCS 570-89909/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 570-89909/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	

Analysis Batch: 89961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-36451-1	SMBRP-12	Total/NA	Water	1664A	89909
570-36451-2	MCWP-MW09	Total/NA	Water	1664A	89909
MB 570-89909/1-A	Method Blank	Total/NA	Water	1664A	89909
LCS 570-89909/2-A	Lab Control Sample	Total/NA	Water	1664A	89909
LCSD 570-89909/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	89909

Analysis Batch: 90283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-36451-1	SMBRP-12	Total/NA	Water	SM5210B	
570-36451-2	MCWP-MW09	Total/NA	Water	SM5210B	
SCB 570-90283/2	Method Blank	Total/NA	Water	SM5210B	
USB 570-90283/1	Method Blank	Total/NA	Water	SM5210B	
LCS 570-90283/3	Lab Control Sample	Total/NA	Water	SM5210B	
570-36350-N-2 DU	Duplicate	Total/NA	Water	SM5210B	

Lab Chronicle

Client: Enthalpy Analytical LLC
Project/Site: 432455

Job ID: 570-36451-1

Client Sample ID: SMBRP-12

Date Collected: 08/19/20 00:00
Date Received: 08/20/20 15:45

Lab Sample ID: 570-36451-1

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			906 mL	1000 mL	89909	08/24/20 11:47	UWEZ	ECL 1
Total/NA	Analysis	1664A		1			89961	08/24/20 11:47	UFLU	ECL 1
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM5210B		1	60 mL	300 mL	90283		FTO2	ECL 1
	Instrument ID: BOD1							(Start) 08/20/20 21:20		
								(End) 08/25/20 16:25		

Client Sample ID: MCWP-MW09

Date Collected: 08/19/20 00:00
Date Received: 08/20/20 15:45

Lab Sample ID: 570-36451-2

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	89909	08/24/20 11:47	UWEZ	ECL 1
Total/NA	Analysis	1664A		1			89961	08/24/20 11:47	UFLU	ECL 1
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM5210B		1	200 mL	300 mL	90283		FTO2	ECL 1
	Instrument ID: BOD1							(Start) 08/20/20 21:20		
								(End) 08/25/20 16:25		

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Enthalpy Analytical LLC
Project/Site: 432455

Job ID: 570-36451-1

Laboratory: Eurofins Calscience LLC

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

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

Client: Enthalpy Analytical LLC
Project/Site: 432455

Job ID: 570-36451-1

Method	Method Description	Protocol	Laboratory
1664A	HEM and SGT-HEM	1664A	ECL 1
SM5210B	BOD, 5 Day	SM	ECL 1
1664A	HEM and SGT-HEM (Aqueous)	1664A	ECL 1

Protocol References:

1664A = EPA-821-98-002

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

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: Enthalpy Analytical LLC
Project/Site: 432455

Job ID: 570-36451-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-36451-1	SMBRP-12	Water	08/19/20 00:00	08/20/20 15:45	
570-36451-2	MCWP-MW09	Water	08/19/20 00:00	08/20/20 15:45	

36451

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
Eurofins CalScience
7440 Lincoln Way
Garden Grove, CA 92841-1432
ATTN: Xuan Dang
PO #: 1056015

Enthalpy Order: EO-432455
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:

570-36451 Chain of Custody

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
SMBRP-12	19-AUG-2020 00:00	432455-001	1	Water	EPA 1664 Oil & Grease (Total) -OUT	
			1	Water	BOD	
MCWP-MW09	19-AUG-2020 00:00	432455-002	1	Water	EPA 1664 Oil & Grease (Total) -OUT	
			1	Water	BOD	

Notes:	Relinquished By:	Received By:
	Say Kaw	ECI
	Date: 8/20/20 1545	Date: 8-20-2020 15:45
	Date:	Date:
	Date:	Date:

3.9/3.5 SC6

Login Sample Receipt Checklist

Client: Enthalpy Analytical LLC

Job Number: 570-36451-1

Login Number: 36451
List Number: 1
Creator: Ramos, Maribel

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.	False	Improper containers received.
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 432455

Subcontracted Products

Enthalpy - Wilmington

Enthalpy Analytical - Orange

931 W. Barkley Ave
Orange, CA 92868

Client Project # EO-432455
Sample Received: 08/21/20

Analytical Report
0820-744

EPA Method 1613B

2,3,7,8-TCDD

Enthalpy Analytical, LLC – Ultratrace
Lindsay Boone
O: (910) 212-5855 / F: 910-212-5866
lboone@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 20 pages.

Valgena Respass

QA Review Performed by – Valgena Respass

Report Issued Date: 31-Aug-20

ENTHALPY ANALYTICAL

Summary of Results

ENTHALPY ANALYTICAL

Summary of Results: I-TEF TEQ

Enthalpy Ultratrace Batch # 11102

Method 1613B

Analyte	Method Blank pg/L	SMBRP-12 pg/L	MCWP-MW09 pg/L
2,3,7,8-TCDD	(0.0649)	(1.46)	(1.48)
ND = (DL) EMPC = [ ]			
ITEF TEQ (ND=0; EMPC=0)	0.00	0.00	0.00
ITEF TEQ (ND=0; EMPC=EMPC)	0.00	0.00	0.00
ITEF TEQ (ND=EDL/2; EMPC=0)	0.0938	1.95	2.21
ITEF TEQ (ND=EDL/2; EMPC=EMPC)	0.0938	1.95	2.21
ITEF TEQ (ND=EDL; EMPC=EMPC)	0.188	3.90	4.42
Lab Sample ID	LMB_11102_DF	0820-744_11102_001	0820-744_11102_002

ENTHALPY ANALYTICAL

Summary of Results: WHO-2005 TEF TEQ

Enthalpy Ultratrace Batch # 11102

Method 1613B

Analyte	Method Blank pg/L	SMBRP-12 pg/L	MCWP-MW09 pg/L
2,3,7,8-TCDD	(0.0649)	(1.46)	(1.48)
ND = (DL) EMPC = [ ]			
WHO-2005 TEQ (ND=0; EMPC=0)	0.00	0.00	0.00
WHO-2005 TEQ (ND=0; EMPC=EMPC)	0.00	0.00	0.00
WHO-2005 TEQ (ND=EDL/2; EMPC=0)	0.115	2.34	2.72
WHO-2005 TEQ (ND=EDL/2; EMPC=EMPC)	0.115	2.34	2.72
WHO-2005 TEQ (ND=EDL; EMPC=EMPC)	0.230	4.68	5.44
Lab Sample ID	LMB_11102_DF	0820-744_11102_001	0820-744_11102_002

ENTHALPY ANALYTICAL

Summary of Results: Totals

Enthalpy Ultratrace Batch # 11102

Method 1613B

Analyte	Method Blank pg/L	SMBRP-12 pg/L	MCWP-MW09 pg/L
Totals			
TCDDs	(0.0649)	(1.46)	(1.48)

ND = (EDL) EMPC = [ ]

Detailed Results

SMBRP-12						Detailed Results - Method 1613B	
Client Details							
Client Sample ID:	SMBRP-12		**Client Name:**	**Enthalpy-Orange**			
Client Project ID:	EO-432455		**Sample Collection Date:**	**8/19/2020**		**RRFs:**	**ICAL**
Lab/Sample Details							
Lab Job #:	**0820-744**	**Matrix:**	**Aqueous**	**Date Received:**	**21-Aug-20**		
Lab Sample ID:	**0820-744_11102_001**	**Weight/Volume:**	**1.00**	**Date Extracted:**	**21-Aug-20**		
QC Batch #:	**11102**	**Split Factor:**	**1**	**Date Analyzed:**	**24-Aug-20**		
Dilution:	**-**			**Time Analyzed:**	**14:34:45**		

Analyte	Conc. (pg/L)	EDL (pg)	EMPC (pg/L)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	ND	1.46		U	ES 2,3,7,8-TCDD	71.6	
					CS 37Cl-2378-TCDD	87.1	
					AS 1368-TCDD	87.5	

MCWP-MW09							Detailed Results - Method 1613B
Client Details							
Client Sample ID: MCWP-MW09			**Client Name: Enthalpy-Orange**				
Client Project ID: EO-432455			**Sample Collection Date: 8/19/2020**			**RRFs:**	**ICAL**
Lab/Sample Details							
Lab Job #:	0820-744	**Matrix:**	Aqueous	**Date Received:**	21-Aug-20		
Lab Sample ID:	0820-744_11102_002	**Weight/Volume:**	1.02	**Date Extracted:**	21-Aug-20		
QC Batch #:	11102	**Split Factor:**	1	**Date Analyzed:**	24-Aug-20		
Dilution:	-			**Time Analyzed:**	15:23:20		

Analyte	Conc. (pg/L)	EDL (pg)	EMPC (pg/L)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	ND	1.48		U	ES 2,3,7,8-TCDD	67.2	
					CS 37Cl-2378-TCDD	79.2	
					AS 1368-TCDD	78.0	

QC Data

OPR	Detailed Results - Method 1613B

RRFs: ICAL

Lab/Sample Details

		Matrix:	Aqueous	Date Received:	N/A
Lab Sample ID:	OPR_11102_DF	Final Vol. (uL)	20.0	Date Extracted:	21-Aug-20
QC Batch #:	11102	Split Factor:	1	Date Analyzed:	24-Aug-20
Dilution:	-			Time Analyzed:	10:30:49

Analyte	Conc. (pg/uL)	EDL (pg/uL)	EMPC (pg/uL)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	9.79	0.121			ES 2,3,7,8-TCDD	82.5	
					CS 37Cl-2378-TCDD	86.1	
Total TCDDs	43.8	0.121	43.8		CS 12347-PeCDD	79.2	
					AS 1368-TCDD	84.6	

Method Blank	Detailed Results - Method 1613B

RRFs: ICAL

Lab/Sample Details

		Matrix:	Aqueous	Date Received:	N/A
Lab Sample ID:	LMB_11102_DF	Weight/Volume:	1.00	Date Extracted:	21-Aug-20
QC Batch #:	11102	Split Factor:	1	Date Analyzed:	24-Aug-20
Dilution:	-			Time Analyzed:	12:08:41

Analyte	Conc. (pg/L)	EDL (pg)	EMPC (pg/L)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	ND	0.0649		U	ES 2,3,7,8-TCDD	75.9	
					CS 37Cl-2378-TCDD	83.5	
Total TCDDs	ND	0.0649	ND	U	CS 12347-PeCDD	75.2	
					AS 1368-TCDD	87.2	

OPR Demonstration Data (TCDD Only)

Batch ID#: 11102 **Method 1613B**

Analyte	Conc. (pg)	Lower Limit	Upper Limit	Acceptable?	Standard	ES Recoveries	Lower Limit	Upper Limit	Acceptable?
2,3,7,8-TCDD	9.8	7.3	14.6	Y	ES 2,3,7,8-TCDD	83	25	141	Y
					CS 2,3,7,8-TCDD	9	3.7	15.8	Y

Narrative Summary

Enthalpy Analytical Narrative Summary

Company	Enthalpy - Orange
Job#	0820-744 EPA Method 1613B
Client Project #	EO-432455

Custody	Caity Hayes of Enthalpy Analytical Wilmington received the samples (via FedEx) on ice on 08/21/20 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 samples were 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 remaining half of each extract. Each 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. 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 concentration 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. Specific to Dioxin/Furan tests and equivalent to MDL
- EMPC – Estimated Maximum Possible Concentration Specific to Dioxin/Furan tests to indicate the signal/noise ratio wass not sufficient for peak identification (the determined ion-abundance ratio was outside the allowed theoretical range), or where there was a co-eluting interference. Indicates that a peak was identified but did not meet the method specified ion-abundance ratio.
- IR – The ion ratio between the primary and secondary ions was observed to be outside the method criteria therefore the actual analyte concentration cannot be accurately determined as defined by DoD QSM Table B-15.
- 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 Quantiation: 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 LOD 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.

- 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 – The labeled standard recovery is not within method control limits.
- X – Results 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.
- RJ – Indicates a reinjection of the sample extract.
- S – Indicates a sample split. The number that follows the "S" indicates the split factor.
- R – Indicates a re-extraction of the sample.

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 #: 1056018

0820-744

Enthalpy Order: EO-432455
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	19-AUG-2020 00:00	432455-001	1	Water	EPA 1613 - 2,3,7,8-TCDD only	
MCWP-MW09	19-AUG-2020 00:00	432455-002	1	Water	EPA 1613 - 2,3,7,8-TCDD only	

Notes:	Relinquished By:	Received By:
Fedex 771314975731, No seals, melted ice, good condition CH 8/21/20		FedEx 7713 1497 5731
	Date: 8/20/20 1200	Date: 8/20/20
		Cathy Haynes
	Date:	Date: 8/21/20 2.4°C T9
		10:30
	Date:	Date:

This Is The Last Page Of This Report.

Laboratory Job Number 432455

Subcontracted Products

Pace Labs - PA

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

September 15, 2020

Ranjit Clarke
Enthalpy Analytical
806 N. Batavia St.
Orange, CA 92868

RE: Project: EO-432455
Pace Project No.: 30378933

Dear Ranjit Clarke:

Enclosed are the analytical results for sample(s) received by the laboratory on August 21, 2020. 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,

Jacquelyn Collins
jacquelyn.collins@pacelabs.com
(724)850-5612
Project Manager

Enclosures

cc: Incoming Reports, 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-432455
Pace Project No.: 30378933

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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

SAMPLE SUMMARY

Project: EO-432455
Pace Project No.: 30378933

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30378933001	**SMBRP-12**	Water	08/19/20 10:15	08/21/20 10:20
30378933002	**MCWP-MW09**	Water	08/19/20 10:40	08/21/20 10:20

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SAMPLE ANALYTE COUNT

Project: EO-432455
Pace Project No.: 30378933

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30378933001	**SMBRP-12**	EPA 900.0	CLA	2	PASI-PA
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		ASTM D5811-95	LAL	1	PASI-PA
		EPA 906.0	JAL	1	PASI-PA
		ASTM D5174-97	RMK	1	PASI-PA
30378933002	**MCWP-MW09**	EPA 900.0	CLA	2	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		EPA 906.0	JAL	1	PASI-PA
		ASTM D5174-97	RMK	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: EO-432455
Pace Project No.: 30378933

Sample: SMBRP-12 **Lab ID: 30378933001** Collected: 08/19/20 10:15 Received: 08/21/20 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • Upon receipt at the laboratory, 5.0 mls of nitric acid were added to the samples to meet the sample preservation requirement of pH <2 for radiological analyses. The samples were preserved <2 within the required 5 days of collection.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Gross Alpha	EPA 900.0	**4.65 ± 4.54 (8.04) C:NA T:NA**	pCi/L	09/09/20 19:43	12587-46-1	
Gross Beta	EPA 900.0	**17.2 ± 4.83 (5.77) C:NA T:NA**	pCi/L	09/09/20 19:43	12587-47-2	
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.187 ± 0.449 (0.867) C:NA T:81%**	pCi/L	09/09/20 15:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.637 ± 0.473 (0.918) C:59% T:84%**	pCi/L	09/08/20 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Strontium-90	ASTM D5811-95	**-0.0700 ± 1.11 (2.25) C:96% T:NA**	pCi/L	09/02/20 17:51	10098-97-2	N2
	Pace Analytical Services - Greensburg					
Tritium	EPA 906.0	**0.000 ± 128 (226) C:NA T:NA**	pCi/L	09/06/20 02:47	10028-17-8	
	Pace Analytical Services - Greensburg					
Total Uranium	ASTM D5174-97	**0.657 ± 0.024 (0.262) C:NA T:NA**	ug/L	09/11/20 12:47	7440-61-1	

Sample: MCWP-MW09 **Lab ID: 30378933002** Collected: 08/19/20 10:40 Received: 08/21/20 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • Upon receipt at the laboratory, 5.0 mls of nitric acid were added to the samples to meet the sample preservation requirement of pH <2 for radiological analyses. The samples were preserved <2 within the required 5 days of collection.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Gross Alpha	EPA 900.0	**1.74 ± 4.76 (9.77) C:NA T:NA**	pCi/L	09/09/20 18:38	12587-46-1	
Gross Beta	EPA 900.0	**10.8 ± 4.32 (6.53) C:NA T:NA**	pCi/L	09/09/20 18:38	12587-47-2	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.104 ± 0.372 (0.843) C:68% T:81%**	pCi/L	09/08/20 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Tritium	EPA 906.0	**-7.50 ± 128 (226) C:NA T:NA**	pCi/L	09/06/20 03:48	10028-17-8	
	Pace Analytical Services - Greensburg					
Total Uranium	ASTM D5174-97	**1.34 ± 0.049 (0.262) C:NA T:NA**	ug/L	09/11/20 12:51	7440-61-1	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: EO-432455
Pace Project No.: 30378933

QC Batch: 412252
QC Batch Method: ASTM D5174-97
Analysis Method: ASTM D5174-97
Analysis Description: D5174.97 Total Uranium KPA
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30378933001, 30378933002

METHOD BLANK: 1994107 Matrix: Water
Associated Lab Samples: 30378933001, 30378933002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Total Uranium	-0.018 ± -0.002 (0.262) C:NA T:NA	ug/L	09/11/20 12:16	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: EO-432455
Pace Project No.: 30378933

QC Batch: 411821
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: 30378933001

METHOD BLANK: 1992081 Matrix: Water
Associated Lab Samples: 30378933001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Strontium-90	-0.328 ± 0.309 (0.648) C:93% T:NA	pCi/L	09/02/20 17:58	N2

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QUALITY CONTROL - RADIOCHEMISTRY

Project: EO-432455
Pace Project No.: 30378933

QC Batch: 412230
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: 30378933001

METHOD BLANK: 1994051 Matrix: Water
Associated Lab Samples: 30378933001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.565 ± 0.474 (0.678) C:NA T:84%	pCi/L	09/09/20 14:41	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: EO-432455
Pace Project No.: 30378933

QC Batch: 412668
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: 30378933001, 30378933002

METHOD BLANK: 1995867
Matrix: Water
Associated Lab Samples: 30378933001, 30378933002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	0.122 ± 0.208 (0.409) C:NA T:NA	pCi/L	09/09/20 18:41	
Gross Beta	0.358 ± 0.320 (0.589) C:NA T:NA	pCi/L	09/09/20 18:41	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: EO-432455
Pace Project No.: 30378933

QC Batch: 412018
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: 30378933001, 30378933002

METHOD BLANK: 1992998 Matrix: Water
Associated Lab Samples: 30378933001, 30378933002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.543 ± 0.383 (0.732) C:71% T:77%	pCi/L	09/08/20 11:29	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: EO-432455
Pace Project No.: 30378933

QC Batch: 412033
QC Batch Method: EPA 906.0
Analysis Method: EPA 906.0
Analysis Description: 906.0 Tritium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30378933001, 30378933002

METHOD BLANK: 1993027 Matrix: Water
Associated Lab Samples: 30378933001, 30378933002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Tritium	-20.0 ± 127 (226) C:NA T:NA	pCi/L	09/05/20 16:34	

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

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: EO-432455
Pace Project No.: 30378933

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.

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.

REPORT OF LABORATORY ANALYSIS

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ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
Pace Labs - PA
1638 Roseytown Rd.
Suite 2, 3, 4
Greensburg, PA 15601
ATTN: Jacquelyn Collins
PO #: 1056014

Enthalpy Order: EO-432455
PM: Ranjit K Clarke
Email: Ranjit.Clarke@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-9906

WO# : 30378933

30378933

Results Due: Standard TAT
Report Level: II
Report To: MDL
EDDs:

Notes:

Strontium-90: ASTM D5811-95 is o.k. if matrix calls for it instead of EPA 905.0
Uranium: ASTM D5174-97 is o.k. if matrix calls for it instead of EPA 908.0

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
SMBRP-12	19-AUG-2020 10:15	432455-001	1	Water	EPA 900.0 Gross Alpha and Beta	
				Water	EPA 903.1 Radium-226	
				Water	EPA 904.0 Radium-228	
				Water	ASTM D5811-95 Strontium	001
				Water	EPA 906.0 Tritium	
				Water	ASTM D5174-97 Uranium	
MCWP-MW09	19-AUG-2020 10:40	432455-002	1	Water	EPA 900.0 Gross Alpha and Beta	
				Water	[redacted]	pCi/L
				Water	EPA 904.0 Radium-228	
				Water	[redacted]	pCi/L 002
				Water	EPA 906.0 Tritium	
				Water	ASTM D5174-97 Uranium	

Notes:	Relinquished By:	Received By:
		FedEx 7713 1645 9010
	Date: 8/20/20 1200	Date: 8/20/20
		[illegible]
	Date:	Date: 8/21/2020 1020
	Date:	Date:

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Enthalpy Project # # 30378933

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

Tracking #: 7713 1645 9610

Label MG

LIMS Login MG

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# 101591 Date and Initials of person examining contents: MG 8/24/2020

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. MG 8/24/20
Sample Labels match COC:	✓	✓		5. MG 8/24/20
-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. added 5ml HNO3 to 4 Bottles in sample 1 and added 5ml to 2 bts in sample 2
All containers meet method preservation requirements.		✓		Initial when completed: MG Date/time of preservation: 8/24/20 1500
				Lot # of added preservative: DL20 0841
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: MG Date: 8/24/2020

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.

Laboratory Job Number 432455

Subcontracted Products

Weck Laboratories, Inc.

WECK LABORATORIES, INC.

Certificate of Analysis

PRELIMINARY REPORT

Work Orders: 0H20069

Project: EO-432455

Attn: Ranjit Clarke

Client: Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Report Date: 9/22/2020
Received Date: 8/20/2020
Turnaround Time: Normal
Phones: (714) 771-6900
Fax: (714) 771-9933
P.O. #: 1056017
Billing Code:

DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH # • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • SCAQMD #93LA1006

This is a preliminary report and is produced for review and guidance purpose only and should not be considered final. Information in this report may be missing or may be changed. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories DOES NOT certify that the test results meet all requirements of TNI. Neither Weck Laboratories, Inc. nor any of its employees, contractors, subcontractors, or their employees make any warrant, expressed or implied, or assume any legal liability or responsibility for use of any information inscribed in this report.

Dear Ranjit Clarke,

Enclosed are the results of analyses for samples received 8/20/20 with the Chain-of-Custody document. The samples were received in good condition, at 3.7 °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:

DRAFT REPORT
DATA SUBJECT TO CHANGE

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www.wecklabs.com

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-432455

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:27

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
SMBRP-12, Alias: 432455-001	Client	0H20069-01	Water	08/19/20 00:00	
SMBRP-12 Travel Blank, Alias: 432455-001	Client	0H20069-02	Water	08/19/20 00:00	
MCWP-MW09, Alias: 432455-002	Client	0H20069-03	Water	08/19/20 00:00	
MCWP-MW09 Travel Blank, Alias: 432455-002	Client	0H20069-04	Water	08/19/20 00:00	

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Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-432455

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:27

Sample Results

Sample: SMBRP-12, Alias: 432455-001
0H20069-01 (Water)

Sampled: 08/19/20 0:00 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS						
Method: EPA 625.1		**Instr:** GCMS06				
Batch ID: W0H1451 **Preparation:** EPA 625/L-L SF		**Prepared:** 08/26/20 10:02				**Analyst:** rmr
1,2,4-Trichlorobenzene	ND	1.0	ug/l	1	09/17/20	
1,2-Dichlorobenzene	ND	1.0	ug/l	1	09/17/20	
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	ug/l	1	09/17/20	
1,3-Dichlorobenzene	ND	1.0	ug/l	1	09/17/20	
1,4-Dichlorobenzene	ND	1.0	ug/l	1	09/17/20	
2,4,6-Trichlorophenol	ND	1.0	ug/l	1	09/17/20	
2,4-Dichlorophenol	ND	1.0	ug/l	1	09/17/20	
2,4-Dimethylphenol	ND	1.0	ug/l	1	09/17/20	
2,4-Dinitrophenol	ND	5.0	ug/l	1	09/17/20	
2,4-Dinitrotoluene	ND	1.0	ug/l	1	09/17/20	
2,6-Dinitrotoluene	ND	1.0	ug/l	1	09/17/20	
2-Chloronaphthalene	ND	1.0	ug/l	1	09/17/20	
2-Chlorophenol	ND	1.0	ug/l	1	09/17/20	
2-Methyl-4,6-dinitrophenol	ND	1.0	ug/l	1	09/17/20	
2-Nitrophenol	ND	1.0	ug/l	1	09/17/20	
3,3'-Dichlorobenzidine	ND	1.0	ug/l	1	09/17/20	
4-Bromophenyl phenyl ether	ND	1.0	ug/l	1	09/17/20	
4-Chloro-3-methylphenol	ND	1.0	ug/l	1	09/17/20	
4-Chlorophenyl phenyl ether	ND	1.0	ug/l	1	09/17/20	
4-Nitrophenol	ND	2.0	ug/l	1	09/17/20	
Acenaphthene	ND	1.0	ug/l	1	09/17/20	
Acenaphthylene	ND	1.0	ug/l	1	09/17/20	
Anthracene	ND	1.0	ug/l	1	09/17/20	
Benzidine	ND	10	ug/l	1	09/17/20	
Benzo (a) anthracene	ND	1.0	ug/l	1	09/17/20	
Benzo (a) pyrene	ND	1.0	ug/l	1	09/17/20	
Benzo (b) fluoranthene	ND	1.0	ug/l	1	09/17/20	
Benzo (g,h,i) perylene	ND	1.0	ug/l	1	09/17/20	
Benzo (k) fluoranthene	ND	1.0	ug/l	1	09/17/20	
Bis(2-chloroethoxy)methane	ND	1.0	ug/l	1	09/17/20	
Bis(2-chloroethyl)ether	ND	1.0	ug/l	1	09/17/20	
Bis(2-chloroisopropyl)ether	ND	1.0	ug/l	1	09/17/20	
Bis(2-ethylhexyl)phthalate	ND	2.0	ug/l	1	09/17/20	
Butyl benzyl phthalate	ND	1.0	ug/l	1	09/17/20	
Chrysene	ND	1.0	ug/l	1	09/17/20	

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Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-432455

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:27

Sample Results

(Continued)

Sample: SMBRP-12, Alias: 432455-001
0H20069-01 (Water)

Sampled: 08/19/20 0:00 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS (Continued)						
Method: EPA 625.1		**Instr:** GCMS06				
Batch ID: W0H1451 **Preparation:** EPA 625/L-L SF		**Prepared:** 08/26/20 10:02				**Analyst:** rmr
Dibenzo (a,h) anthracene	ND	1.0	ug/l	1	09/17/20	
Diethyl phthalate	ND	1.0	ug/l	1	09/17/20	
Dimethyl phthalate	ND	1.0	ug/l	1	09/17/20	
Di-n-butyl phthalate	ND	1.0	ug/l	1	09/17/20	
Di-n-octyl phthalate	ND	1.0	ug/l	1	09/17/20	
Fluoranthene	ND	1.0	ug/l	1	09/17/20	
Fluorene	ND	1.0	ug/l	1	09/17/20	
Hexachlorobenzene	ND	1.0	ug/l	1	09/17/20	
Hexachlorobutadiene	ND	1.0	ug/l	1	09/17/20	
Hexachlorocyclopentadiene	ND	5.0	ug/l	1	09/17/20	
Hexachloroethane	ND	1.0	ug/l	1	09/17/20	
Indeno (1,2,3-cd) pyrene	ND	1.0	ug/l	1	09/17/20	
Isophorone	ND	1.0	ug/l	1	09/17/20	
Naphthalene	ND	1.0	ug/l	1	09/17/20	
Nitrobenzene	ND	1.0	ug/l	1	09/17/20	
N-Nitrosodimethylamine	ND	1.0	ug/l	1	09/17/20	
N-Nitrosodi-n-propylamine	ND	1.0	ug/l	1	09/17/20	
N-Nitrosodiphenylamine	ND	1.0	ug/l	1	09/17/20	
Pentachlorophenol	ND	1.0	ug/l	1	09/17/20	
Phenanthrene	ND	1.0	ug/l	1	09/17/20	
Phenol	ND	1.0	ug/l	1	09/17/20	
Pyrene	ND	1.0	ug/l	1	09/17/20	
Surrogate(s)						
2,4,6-Tribromophenol	*54%*	*Conc: 27.2*	*25-120*		*09/17/20*	
2-Fluorobiphenyl	*52%*	*Conc: 13.1*	*22-120*		*09/17/20*	
2-Fluorophenol	*41%*	*Conc: 20.3*	*17-120*		*09/17/20*	
Nitrobenzene-d5	*56%*	*Conc: 14.1*	*47-120*		*09/17/20*	
Phenol-d5	*24%*	*Conc: 12.0*	*12-120*		*09/17/20*	
Terphenyl-d14	*90%*	*Conc: 22.5*	*44-129*		*09/17/20*	
Carbamates and Urea Pesticides						
Method: EPA 531.2		**Instr:** LC10				
Batch ID: W0I0178 **Preparation:** _NONE (LC)		**Prepared:** 09/02/20 15:04				**Analyst:** jan
3-Hydroxycarbofuran	ND	2.0	ug/l	1	09/10/20	
Aldicarb	ND	2.0	ug/l	1	09/10/20	
Aldicarb sulfone	ND	2.0	ug/l	1	09/10/20	

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Project Number: EO-432455

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:27

Sample Results

(Continued)

Sample: SMBRP-12, Alias: 432455-001
0H20069-01 (Water)

Sampled: 08/19/20 0:00 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Carbamates and Urea Pesticides (Continued)						
Method: EPA 531.2		**Instr:** LC10				
Batch ID: W0I0178 **Preparation:** _NONE (LC)		**Prepared:** 09/02/20 15:04			**Analyst:** jan	
Aldicarb sulfoxide	ND	2.0	ug/l	1	09/10/20	
Carbaryl	ND	2.0	ug/l	1	09/10/20	
Carbofuran	ND	2.0	ug/l	1	09/10/20	
Methiocarb	ND	2.0	ug/l	1	09/10/20	
Methomyl	ND	2.0	ug/l	1	09/10/20	
Oxamyl	ND	2.0	ug/l	1	09/10/20	
Propoxur (Baygon)	ND	2.0	ug/l	1	09/10/20	
Surrogate(s)						
BDMC	*102%*	*Conc: 10.2*	*70-130*		*09/10/20*	
Chlorinated Acids Herbicides by GC/ECD						
Method: EPA 515.4		**Instr:** GC08				
Batch ID: W0I0008 **Preparation:** EPA 515.4/Micro Ext. Drtz		**Prepared:** 09/01/20 08:17			**Analyst:** amw	
2,4,5-T	ND	0.20	ug/l	1	09/02/20	
2,4,5-TP (Silvex)	ND	0.20	ug/l	1	09/02/20	
2,4-D	ND	0.40	ug/l	1	09/02/20	
2,4-DB	ND	2.0	ug/l	1	09/02/20	
3,5-Dichlorobenzoic acid	ND	1.0	ug/l	1	09/02/20	
Acifluorfen	ND	0.40	ug/l	1	09/02/20	
Bentazon	ND	2.0	ug/l	1	09/02/20	
Dalapon	ND	0.40	ug/l	1	09/02/20	
DCPA	ND	0.10	ug/l	1	09/02/20	
Dicamba	ND	0.60	ug/l	1	09/02/20	
Dichloroprop	ND	0.30	ug/l	1	09/02/20	
Dinoseb	ND	0.40	ug/l	1	09/02/20	
Pentachlorophenol	ND	0.20	ug/l	1	09/02/20	
Picloram	ND	0.60	ug/l	1	09/02/20	
Surrogate(s)						
2,4-DCAA	*103%*	*Conc: 10.3*	*70-130*		*09/02/20*	
Chlorinated Pesticides and/or PCBs by GC/ECD						
Method: EPA 508		**Instr:** GC07				
Batch ID: W0H1227 **Preparation:** EPA 508/L-L SF		**Prepared:** 08/21/20 12:21			**Analyst:** AMW	
4,4´-DDD	ND	0.010	ug/l	1	09/03/20	
4,4´-DDE	ND	0.010	ug/l	1	09/03/20	
4,4´-DDT	ND	0.010	ug/l	1	09/03/20	
Aldrin	ND	0.010	ug/l	1	09/03/20	
alpha-BHC	ND	0.010	ug/l	1	09/03/20	

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Project Number: EO-432455

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:27

Sample Results

(Continued)

Sample: SMBRP-12, Alias: 432455-001
0H20069-01 (Water)

Sampled: 08/19/20 0:00 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)						
Method: EPA 508		**Instr:** GC07				
Batch ID: W0H1227 **Preparation:** EPA 508/L-L SF		**Prepared:** 08/21/20 12:21				**Analyst:** AMW
Aroclor 1016	ND	0.50	ug/l	1	09/03/20	R-01
Aroclor 1221	ND	0.50	ug/l	1	09/03/20	R-01
Aroclor 1232	ND	0.50	ug/l	1	09/03/20	R-01
Aroclor 1242	ND	0.50	ug/l	1	09/03/20	R-01
Aroclor 1248	ND	0.50	ug/l	1	09/03/20	R-01
Aroclor 1254	ND	0.50	ug/l	1	09/03/20	R-01
Aroclor 1260	ND	0.50	ug/l	1	09/03/20	R-01
beta-BHC	ND	0.010	ug/l	1	09/03/20	
Chlordane (tech)	ND	0.10	ug/l	1	09/03/20	
Chlorothalonil	ND	0.050	ug/l	1	09/03/20	
delta-BHC	ND	0.010	ug/l	1	09/03/20	
Dieldrin	ND	0.010	ug/l	1	09/03/20	
Endosulfan I	ND	0.010	ug/l	1	09/03/20	
Endosulfan II	ND	0.010	ug/l	1	09/03/20	
Endosulfan sulfate	ND	0.010	ug/l	1	09/03/20	
Endrin	ND	0.010	ug/l	1	09/03/20	
Endrin aldehyde	ND	0.010	ug/l	1	09/03/20	
gamma-BHC (Lindane)	ND	0.010	ug/l	1	09/03/20	
Heptachlor	ND	0.010	ug/l	1	09/03/20	
Heptachlor epoxide	ND	0.010	ug/l	1	09/03/20	
Hexachlorobenzene	ND	0.050	ug/l	1	09/03/20	
Hexachlorocyclopentadiene	ND	0.050	ug/l	1	09/03/20	
Methoxychlor	ND	0.010	ug/l	1	09/03/20	
PCBs, Total	ND	0.50	ug/l	1	09/03/20	
Propachlor	ND	0.050	ug/l	1	09/03/20	
Toxaphene	ND	0.50	ug/l	1	09/03/20	R-01
Trifluralin	ND	0.010	ug/l	1	09/03/20	
Surrogate(s)						
Decachlorobiphenyl	*68%*	*Conc: 0.0679*	*70-130*		*09/03/20*	*S-04*
Tetrachloro-meta-xylene	*64%*	*Conc: 0.0643*	*70-130*		*09/03/20*	*S-04*
Diquat and Paraquat by EPA 549.2						
Method: EPA 549.2		**Instr:** LC11				
Batch ID: W0H1195 **Preparation:** EPA 549.2/SPE		**Prepared:** 08/21/20 08:20				**Analyst:** jna
Diquat	ND	4.0	ug/l	1	09/01/20	
Paraquat	ND	4.0	ug/l	1	09/01/20	

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Project Number: EO-432455

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:27

Sample Results

(Continued)

Sample: SMBRP-12, Alias: 432455-001
0H20069-01 (Water)

Sampled: 08/19/20 0:00 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Endothall By EPA 548.1						
Method: EPA 548.1		**Instr:** GCMS06				
Batch ID: W0H1346 **Preparation:** EPA 548.1/SPE		**Prepared:** 08/25/20 08:03				**Analyst:** rmr
Endothall	ND	40	ug/l	1	08/27/20	
Glyphosate by EPA 547						
Method: EPA 547		**Instr:** LC10				
Batch ID: W0H1697 **Preparation:** _NONE (LC)		**Prepared:** 08/31/20 16:20				**Analyst:** jan
Glyphosate	ND	5.0	ug/l	1	09/01/20	
Haloacetic Acids (HAAs) by GC/ECD						
Method: EPA 552.3		**Instr:** GC05				
Batch ID: W0H1575 **Preparation:** EPA 552.3/Micro Ext. Drtz		**Prepared:** 08/28/20 08:39				**Analyst:** rjg
Dibromoacetic acid (dbaa)	ND	1.0	ug/l	1	09/02/20	
Dichloroacetic acid (dcaa)	ND	1.0	ug/l	1	09/02/20	
HAA5, Total	ND	1.0	ug/l	1	09/02/20	
Monobromoacetic acid (mbaa)	ND	1.0	ug/l	1	09/02/20	
Monochloroacetic acid (mcaa)	ND	2.0	ug/l	1	09/02/20	
Trichloroacetic acid (tcaa)	ND	1.0	ug/l	1	09/02/20	
Surrogate(s)						
2-Bromobutyric acid	*102%*	*Conc: 10.2*	*70-130*		*09/02/20*	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 525.2		**Instr:** GCMS16				
Batch ID: W0I0009 **Preparation:** EPA 525.2/SPE		**Prepared:** 09/01/20 08:54				**Analyst:** rmr
Alachlor	ND	0.10	ug/l	1	09/04/20	
Atrazine	ND	0.10	ug/l	1	09/04/20	
Benzo (a) pyrene	ND	0.10	ug/l	1	09/04/20	
Bis(2-ethylhexyl)adipate	ND	2.0	ug/l	1	09/04/20	
Bis(2-ethylhexyl)phthalate	ND	2.0	ug/l	1	09/04/20	
Bromacil	ND	0.50	ug/l	1	09/04/20	
Butachlor	ND	0.10	ug/l	1	09/04/20	
Captan	ND	1.0	ug/l	1	09/04/20	BS-04
Chlorpropham	ND	0.10	ug/l	1	09/04/20	
Cyanazine	ND	0.10	ug/l	1	09/04/20	BS-04
Diazinon	ND	0.10	ug/l	1	09/04/20	
Dimethoate	ND	0.20	ug/l	1	09/04/20	BS-04
Diphenamid	ND	0.10	ug/l	1	09/04/20	
Disulfoton	ND	0.10	ug/l	1	09/04/20	
EPTC	ND	0.10	ug/l	1	09/04/20	
Metolachlor	ND	0.10	ug/l	1	09/04/20	
Metribuzin	ND	0.10	ug/l	1	09/04/20	

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Project Number: EO-432455

Project Manager: Ranjit Clarke

Reported: 09/22/2020 09:27

Sample Results

(Continued)

Sample: SMBRP-12, Alias: 432455-001
0H20069-01 (Water)

Sampled: 08/19/20 0:00 by Client
(Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organic Compounds by GC/MS (Continued)							
Method: EPA 525.2			**Instr:** GCMS16				
Batch ID: W0I0009 **Preparation:** EPA 525.2/SPE			**Prepared:** 09/01/20 08:54				**Analyst:** rmr
Molinate	ND		0.10	ug/l	1	09/04/20	
Prometon	ND		0.10	ug/l	1	09/04/20	
Prometryn	ND		0.10	ug/l	1	09/04/20	
Simazine	ND		0.10	ug/l	1	09/04/20	
Terbacil	ND		2.0	ug/l	1	09/04/20	BS-04
Thiobencarb	ND		0.10	ug/l	1	09/04/20	
Trithion	ND		0.10	ug/l	1	09/04/20	BS-04
Surrogate(s)							
1,3-Dimethyl-2-nitrobenzene	*102%*	*Conc: 5.10*	*70-130*			*09/04/20*	
Perylene-d12	*68%*	*Conc: 3.40*	*50-120*			*09/04/20*	
Triphenyl phosphate	*114%*	*Conc: 5.69*	*70-130*			*09/04/20*	
Volatile Organics by P&T and GC/MS							
Method: EPA 524.3			**Instr:** GCMS04				
Batch ID: W0H1345 **Preparation:** EPA 524.2 P&T			**Prepared:** 08/25/20 07:48				**Analyst:** adm
1,2-Dibromo-3-chloropropane	ND		0.010	ug/l	1	08/26/20	
1,2-Dibromoethane (EDB)	ND		0.020	ug/l	1	08/26/20	

Sample: SMBRP-12, Alias: 432455-001
0H20069-01RE1 (Water)

Sampled: 08/19/20 0:00 by Client

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Anions by IC, EPA Method 300.1							
Method: EPA 300.1			**Instr:** LC08_Channel2				
Batch ID: W0H1446 **Preparation:** _NONE (LC)			**Prepared:** 08/26/20 09:34				**Analyst:** jan
Bromate	ND		50	ug/l	10	08/27/20	M-05
Chlorite	ND		100	ug/l	10	08/27/20	M-05
Surrogate(s)							
Dichloroacetate	*104%*	*Conc: 518*	*90-115*			*08/27/20*	
Hexavalent Chromium by IC							
Method: EPA 218.6			**Instr:** LC13				
Batch ID: W0I0002 **Preparation:** _NONE (LC)			**Prepared:** 09/01/20 00:27				**Analyst:** jan
Chromium 6+	ND		0.20	ug/l	10	09/02/20	M-05
Nitrosamines by isotopic dilution GC/MS CI Mode							
Method: EPA 1625M			**Instr:** GCMS09				
Batch ID: W0H1369 **Preparation:** EPA 3535/SPE			**Prepared:** 08/25/20 10:29				**Analyst:** mld
N-Nitrosodimethylamine	ND		2.0	ng/l	1	08/31/20	

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Project Number: EO-432455

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:27

Sample Results

(Continued)

Sample: SMBRP-12 Travel Blank, Alias: 432455-001
0H20069-02 (Water)

Sampled: 08/19/20 0:00 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organics by P&T and GC/MS						
Method: EPA 524.3		**Instr:** GCMS04				
Batch ID: W0H1345 **Preparation:** EPA 524.2 P&T		**Prepared:** 08/25/20 07:48				**Analyst:** adm
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l	1	08/26/20	
1,2-Dibromoethane (EDB)	ND	0.020	ug/l	1	08/26/20	

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Project Number: EO-432455

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:27

Sample Results

(Continued)

Sample: MCWP-MW09, Alias: 432455-002
0H20069-03 (Water)

Sampled: 08/19/20 0:00 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS						
Method: EPA 625.1		**Instr:** GCMS06				
Batch ID: W0H1451 **Preparation:** EPA 625/L-L SF		**Prepared:** 08/26/20 10:02			**Analyst:** rmr	
1,2,4-Trichlorobenzene	ND	1.0	ug/l	1	09/17/20	
1,2-Dichlorobenzene	ND	1.0	ug/l	1	09/17/20	
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	ug/l	1	09/17/20	
1,3-Dichlorobenzene	ND	1.0	ug/l	1	09/17/20	
1,4-Dichlorobenzene	ND	1.0	ug/l	1	09/17/20	
2,4,6-Trichlorophenol	ND	1.0	ug/l	1	09/17/20	
2,4-Dichlorophenol	ND	1.0	ug/l	1	09/17/20	
2,4-Dimethylphenol	ND	1.0	ug/l	1	09/17/20	
2,4-Dinitrophenol	ND	5.0	ug/l	1	09/17/20	
2,4-Dinitrotoluene	ND	1.0	ug/l	1	09/17/20	
2,6-Dinitrotoluene	ND	1.0	ug/l	1	09/17/20	
2-Chloronaphthalene	ND	1.0	ug/l	1	09/17/20	
2-Chlorophenol	ND	1.0	ug/l	1	09/17/20	
2-Methyl-4,6-dinitrophenol	ND	1.0	ug/l	1	09/17/20	
2-Nitrophenol	ND	1.0	ug/l	1	09/17/20	
3,3'-Dichlorobenzidine	ND	1.0	ug/l	1	09/17/20	
4-Bromophenyl phenyl ether	ND	1.0	ug/l	1	09/17/20	
4-Chloro-3-methylphenol	ND	1.0	ug/l	1	09/17/20	
4-Chlorophenyl phenyl ether	ND	1.0	ug/l	1	09/17/20	
4-Nitrophenol	ND	2.0	ug/l	1	09/17/20	
Acenaphthene	ND	1.0	ug/l	1	09/17/20	
Acenaphthylene	ND	1.0	ug/l	1	09/17/20	
Anthracene	ND	1.0	ug/l	1	09/17/20	
Benzidine	ND	10	ug/l	1	09/17/20	
Benzo (a) anthracene	ND	1.0	ug/l	1	09/17/20	
Benzo (a) pyrene	ND	1.0	ug/l	1	09/17/20	
Benzo (b) fluoranthene	ND	1.0	ug/l	1	09/17/20	
Benzo (g,h,i) perylene	ND	1.0	ug/l	1	09/17/20	
Benzo (k) fluoranthene	ND	1.0	ug/l	1	09/17/20	
Bis(2-chloroethoxy)methane	ND	1.0	ug/l	1	09/17/20	
Bis(2-chloroethyl)ether	ND	1.0	ug/l	1	09/17/20	
Bis(2-chloroisopropyl)ether	ND	1.0	ug/l	1	09/17/20	
Bis(2-ethylhexyl)phthalate	**2.8**	2.0	ug/l	1	09/17/20	BS-H
Butyl benzyl phthalate	ND	1.0	ug/l	1	09/17/20	
Chrysene	ND	1.0	ug/l	1	09/17/20	

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Orange, CA 92868

Project Number: EO-432455

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:27

Sample Results

(Continued)

Sample: MCWP-MW09, Alias: 432455-002
0H20069-03 (Water)

Sampled: 08/19/20 0:00 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS (Continued)						
Method: EPA 625.1		**Instr:** GCMS06				
Batch ID: W0H1451 **Preparation:** EPA 625/L-L SF		**Prepared:** 08/26/20 10:02				**Analyst:** rmr
Dibenzo (a,h) anthracene	ND	1.0	ug/l	1	09/17/20	
Diethyl phthalate	ND	1.0	ug/l	1	09/17/20	
Dimethyl phthalate	ND	1.0	ug/l	1	09/17/20	
Di-n-butyl phthalate	ND	1.0	ug/l	1	09/17/20	
Di-n-octyl phthalate	ND	1.0	ug/l	1	09/17/20	
Fluoranthene	ND	1.0	ug/l	1	09/17/20	
Fluorene	ND	1.0	ug/l	1	09/17/20	
Hexachlorobenzene	ND	1.0	ug/l	1	09/17/20	
Hexachlorobutadiene	ND	1.0	ug/l	1	09/17/20	
Hexachlorocyclopentadiene	ND	5.0	ug/l	1	09/17/20	
Hexachloroethane	ND	1.0	ug/l	1	09/17/20	
Indeno (1,2,3-cd) pyrene	ND	1.0	ug/l	1	09/17/20	
Isophorone	ND	1.0	ug/l	1	09/17/20	
Naphthalene	ND	1.0	ug/l	1	09/17/20	
Nitrobenzene	ND	1.0	ug/l	1	09/17/20	
N-Nitrosodimethylamine	ND	1.0	ug/l	1	09/17/20	
N-Nitrosodi-n-propylamine	ND	1.0	ug/l	1	09/17/20	
N-Nitrosodiphenylamine	ND	1.0	ug/l	1	09/17/20	
Pentachlorophenol	ND	1.0	ug/l	1	09/17/20	
Phenanthrene	ND	1.0	ug/l	1	09/17/20	
Phenol	ND	1.0	ug/l	1	09/17/20	
Pyrene	ND	1.0	ug/l	1	09/17/20	
Surrogate(s)						
2,4,6-Tribromophenol	*64%*	*Conc: 32.2*	*25-120*		*09/17/20*	
2-Fluorobiphenyl	*72%*	*Conc: 17.9*	*22-120*		*09/17/20*	
2-Fluorophenol	*59%*	*Conc: 29.7*	*17-120*		*09/17/20*	
Nitrobenzene-d5	*78%*	*Conc: 19.4*	*47-120*		*09/17/20*	
Phenol-d5	*37%*	*Conc: 18.4*	*12-120*		*09/17/20*	
Terphenyl-d14	*97%*	*Conc: 24.2*	*44-129*		*09/17/20*	
Anions by IC, EPA Method 300.1						
Method: EPA 300.1		**Instr:** LC08_Channel2				
Batch ID: W0H1446 **Preparation:** _NONE (LC)		**Prepared:** 08/26/20 09:34				**Analyst:** jan
Bromate	ND	5.0	ug/l	1	08/27/20	
Surrogate(s)						
Dichloroacetate	*105%*	*Conc: 523*	*90-115*		*08/27/20*	

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Project Number: EO-432455

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:27

Sample Results

(Continued)

Sample: MCWP-MW09, Alias: 432455-002
0H20069-03 (Water)

Sampled: 08/19/20 0:00 by Client
(Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Carbamates and Urea Pesticides							
Method: EPA 531.2			**Instr:** LC10				
Batch ID: W0I0178 **Preparation:** _NONE (LC)			**Prepared:** 09/02/20 15:04				**Analyst:** jan
3-Hydroxycarbofuran	ND		2.0	ug/l	1	09/10/20	
Aldicarb	ND		2.0	ug/l	1	09/10/20	
Aldicarb sulfone	ND		2.0	ug/l	1	09/10/20	
Aldicarb sulfoxide	ND		2.0	ug/l	1	09/10/20	
Carbaryl	ND		2.0	ug/l	1	09/10/20	
Carbofuran	ND		2.0	ug/l	1	09/10/20	
Methiocarb	ND		2.0	ug/l	1	09/10/20	
Methomyl	ND		2.0	ug/l	1	09/10/20	
Oxamyl	ND		2.0	ug/l	1	09/10/20	
Propoxur (Baygon)	ND		2.0	ug/l	1	09/10/20	
Surrogate(s)							
BDMC	*96%*	*Conc: 9.61*	*70-130*			*09/10/20*	
Chlorinated Acids Herbicides by GC/ECD							
Method: EPA 515.4			**Instr:** GC08				
Batch ID: W0I0008 **Preparation:** EPA 515.4/Micro Ext. Drtz			**Prepared:** 09/01/20 08:17				**Analyst:** amw
2,4,5-T	ND		0.20	ug/l	1	09/03/20	
2,4,5-TP (Silvex)	ND		0.20	ug/l	1	09/03/20	
2,4-D	ND		0.40	ug/l	1	09/03/20	
2,4-DB	ND		2.0	ug/l	1	09/03/20	
3,5-Dichlorobenzoic acid	ND		1.0	ug/l	1	09/03/20	
Acifluorfen	ND		0.40	ug/l	1	09/03/20	
Bentazon	ND		2.0	ug/l	1	09/03/20	
Dalapon	ND		0.40	ug/l	1	09/03/20	
DCPA	ND		0.10	ug/l	1	09/03/20	
Dicamba	ND		0.60	ug/l	1	09/03/20	
Dichloroprop	ND		0.30	ug/l	1	09/03/20	
Dinoseb	ND		0.40	ug/l	1	09/03/20	
Pentachlorophenol	ND		0.20	ug/l	1	09/03/20	
Picloram	ND		0.60	ug/l	1	09/03/20	
Surrogate(s)							
2,4-DCAA	*100%*	*Conc: 9.98*	*70-130*			*09/03/20*	
Chlorinated Pesticides and/or PCBs by GC/ECD							
Method: EPA 508			**Instr:** GC07				
Batch ID: W0H1227 **Preparation:** EPA 508/L-L SF			**Prepared:** 08/21/20 12:21				**Analyst:** AMW
4,4´-DDD	ND		0.010	ug/l	1	09/03/20	
4,4´-DDE	ND		0.010	ug/l	1	09/03/20	

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Reported:
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Sample Results

(Continued)

Sample: MCWP-MW09, Alias: 432455-002
0H20069-03 (Water)

Sampled: 08/19/20 0:00 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)						
Method: EPA 508		**Instr:** GC07				
Batch ID: W0H1227 **Preparation:** EPA 508/L-L SF		**Prepared:** 08/21/20 12:21				**Analyst:** AMW
4,4´-DDT	ND	0.010	ug/l	1	09/03/20	
Aldrin	ND	0.010	ug/l	1	09/03/20	
alpha-BHC	ND	0.010	ug/l	1	09/03/20	
Aroclor 1016	ND	0.10	ug/l	1	09/03/20	
Aroclor 1221	ND	0.10	ug/l	1	09/03/20	
Aroclor 1232	ND	0.10	ug/l	1	09/03/20	
Aroclor 1242	ND	0.10	ug/l	1	09/03/20	
Aroclor 1248	ND	0.10	ug/l	1	09/03/20	
Aroclor 1254	ND	0.10	ug/l	1	09/03/20	
Aroclor 1260	ND	0.10	ug/l	1	09/03/20	
beta-BHC	ND	0.010	ug/l	1	09/03/20	
Chlordane (tech)	ND	0.10	ug/l	1	09/03/20	
Chlorothalonil	ND	0.050	ug/l	1	09/03/20	
delta-BHC	ND	0.010	ug/l	1	09/03/20	
Dieldrin	ND	0.010	ug/l	1	09/03/20	
Endosulfan I	ND	0.010	ug/l	1	09/03/20	
Endosulfan II	ND	0.010	ug/l	1	09/03/20	
Endosulfan sulfate	ND	0.010	ug/l	1	09/03/20	
Endrin	ND	0.010	ug/l	1	09/03/20	
Endrin aldehyde	ND	0.010	ug/l	1	09/03/20	
gamma-BHC (Lindane)	ND	0.010	ug/l	1	09/03/20	
Heptachlor	ND	0.010	ug/l	1	09/03/20	
Heptachlor epoxide	ND	0.010	ug/l	1	09/03/20	
Hexachlorobenzene	ND	0.050	ug/l	1	09/03/20	
Hexachlorocyclopentadiene	ND	0.050	ug/l	1	09/03/20	
Methoxychlor	ND	0.010	ug/l	1	09/03/20	
PCBs, Total	ND	0.50	ug/l	1	09/03/20	
Propachlor	ND	0.050	ug/l	1	09/03/20	
Toxaphene	ND	0.50	ug/l	1	09/03/20	
Trifluralin	ND	0.010	ug/l	1	09/03/20	
Surrogate(s)						
Decachlorobiphenyl	*81%*	*Conc: 0.0808*	*70-130*		*09/03/20*	
Tetrachloro-meta-xylene	*84%*	*Conc: 0.0837*	*70-130*		*09/03/20*	
Diquat and Paraquat by EPA 549.2						

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Project Number: EO-432455

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Reported: 09/22/2020 09:27

Sample Results

(Continued)

Sample: MCWP-MW09, Alias: 432455-002
0H20069-03 (Water)

Sampled: 08/19/20 0:00 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Diquat and Paraquat by EPA 549.2 (Continued)						
Method: EPA 549.2		**Instr:** LC11				
Batch ID: W0H1195 **Preparation:** EPA 549.2/SPE		**Prepared:** 08/21/20 08:20				**Analyst:** jna
Diquat	ND	4.0	ug/l	1	09/01/20	
Paraquat	ND	4.0	ug/l	1	09/01/20	
Endothall By EPA 548.1						
Method: EPA 548.1		**Instr:** GCMS06				
Batch ID: W0H1346 **Preparation:** EPA 548.1/SPE		**Prepared:** 08/25/20 08:03				**Analyst:** rmr
Endothall	ND	40	ug/l	1	08/27/20	
Glyphosate by EPA 547						
Method: EPA 547		**Instr:** LC10				
Batch ID: W0H1697 **Preparation:** _NONE (LC)		**Prepared:** 08/31/20 16:20				**Analyst:** jan
Glyphosate	ND	5.0	ug/l	1	09/01/20	
Haloacetic Acids (HAAs) by GC/ECD						
Method: EPA 552.3		**Instr:** GC05				
Batch ID: W0H1575 **Preparation:** EPA 552.3/Micro Ext. Drtz		**Prepared:** 08/28/20 08:39				**Analyst:** rjg
Dibromoacetic acid (dbaa)	ND	1.0	ug/l	1	09/02/20	
Dichloroacetic acid (dcaa)	ND	1.0	ug/l	1	09/02/20	
HAA5, Total	ND	1.0	ug/l	1	09/02/20	
Monobromoacetic acid (mbaa)	ND	1.0	ug/l	1	09/02/20	
Monochloroacetic acid (mcaa)	ND	2.0	ug/l	1	09/02/20	
Trichloroacetic acid (tcaa)	ND	1.0	ug/l	1	09/02/20	
Surrogate(s)						
2-Bromobutyric acid	*97%*	*Conc: 9.72*	*70-130*		*09/02/20*	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 525.2		**Instr:** GCMS16				
Batch ID: W0I0009 **Preparation:** EPA 525.2/SPE		**Prepared:** 09/01/20 08:54				**Analyst:** rmr
Alachlor	ND	0.10	ug/l	1	09/04/20	
Atrazine	ND	0.10	ug/l	1	09/04/20	
Benzo (a) pyrene	ND	0.10	ug/l	1	09/04/20	
Bis(2-ethylhexyl)adipate	ND	2.0	ug/l	1	09/04/20	
Bis(2-ethylhexyl)phthalate	ND	2.0	ug/l	1	09/04/20	
Bromacil	ND	0.50	ug/l	1	09/04/20	
Butachlor	ND	0.10	ug/l	1	09/04/20	
Captan	ND	1.0	ug/l	1	09/04/20	BS-04
Chlorpropham	ND	0.10	ug/l	1	09/04/20	
Cyanazine	ND	0.10	ug/l	1	09/04/20	BS-04
Diazinon	ND	0.10	ug/l	1	09/04/20	
Dimethoate	ND	0.20	ug/l	1	09/04/20	BS-04

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Sample Results

(Continued)

Sample: MCWP-MW09, Alias: 432455-002
0H20069-03 (Water)

Sampled: 08/19/20 0:00 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organic Compounds by GC/MS (Continued)						
Method: EPA 525.2		**Instr:** GCMS16				
Batch ID: W0I0009 **Preparation:** EPA 525.2/SPE		**Prepared:** 09/01/20 08:54				**Analyst:** rmr
Diphenamid	ND	0.10	ug/l	1	09/04/20	
Disulfoton	ND	0.10	ug/l	1	09/04/20	
EPTC	ND	0.10	ug/l	1	09/04/20	
Metolachlor	ND	0.10	ug/l	1	09/04/20	
Metribuzin	ND	0.10	ug/l	1	09/04/20	
Molinate	ND	0.10	ug/l	1	09/04/20	
Prometon	ND	0.10	ug/l	1	09/04/20	
Prometryn	ND	0.10	ug/l	1	09/04/20	
Simazine	ND	0.10	ug/l	1	09/04/20	
Terbacil	ND	2.0	ug/l	1	09/04/20	BS-04
Thiobencarb	ND	0.10	ug/l	1	09/04/20	
Trithion	ND	0.10	ug/l	1	09/04/20	BS-04
Surrogate(s)						
1,3-Dimethyl-2-nitrobenzene	*94%*	*Conc: 4.71*	*70-130*		*09/04/20*	
Perylene-d12	*92%*	*Conc: 4.61*	*50-120*		*09/04/20*	
Triphenyl phosphate	*105%*	*Conc: 5.25*	*70-130*		*09/04/20*	
Volatile Organics by P&T and GC/MS						
Method: EPA 524.3		**Instr:** GCMS04				
Batch ID: W0H1345 **Preparation:** EPA 524.2 P&T		**Prepared:** 08/25/20 07:48				**Analyst:** adm
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l	1	08/26/20	
1,2-Dibromoethane (EDB)	ND	0.020	ug/l	1	08/26/20	

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Sample Results

(Continued)

Sample: MCWP-MW09, Alias: 432455-002 — Sampled: 08/19/20 0:00 by Client

0H20069-03RE1 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Anions by IC, EPA Method 300.1						
Method: EPA 300.1		**Instr:** LC08_Channel2				
Batch ID: W0H1446 **Preparation:** _NONE (LC)		**Prepared:** 08/26/20 09:34				**Analyst:** jan
Chlorite	ND	50	ug/l	5	08/27/20	M-05
Surrogate(s)						
Dichloroacetate	*105%*	*Conc: 524*	*90-115*		*08/27/20*	
Hexavalent Chromium by IC						
Method: EPA 218.6		**Instr:** LC13				
Batch ID: W0I0002 **Preparation:** _NONE (LC)		**Prepared:** 09/01/20 00:27				**Analyst:** jan
Chromium 6+	ND	0.10	ug/l	5	09/02/20	M-05
Nitrosamines by isotopic dilution GC/MS CI Mode						
Method: EPA 1625M		**Instr:** GCMS09				
Batch ID: W0H1369 **Preparation:** EPA 3535/SPE		**Prepared:** 08/25/20 10:29				**Analyst:** mld
N-Nitrosodimethylamine	ND	2.0	ng/l	1	08/31/20	

Sample: MCWP-MW09 Travel Blank, Alias: 432455-002 — Sampled: 08/19/20 0:00 by Client

0H20069-04 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organics by P&T and GC/MS						
Method: EPA 524.3		**Instr:** GCMS04				
Batch ID: W0H1345 **Preparation:** EPA 524.2 P&T		**Prepared:** 08/25/20 07:48				**Analyst:** adm
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l	1	08/26/20	
1,2-Dibromoethane (EDB)	ND	0.020	ug/l	1	08/26/20	

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Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:27

Quality Control Results

Acid and Base/Neutral Extractables by GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1451 - EPA 625.1										
Blank (W0H1451-BLK1)				**Prepared: 08/26/20 Analyzed: 09/17/20**						
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
2,4,6-Trichlorophenol	ND	1.0	ug/l							
2,4-Dichlorophenol	ND	1.0	ug/l							
2,4-Dimethylphenol	ND	1.0	ug/l							
2,4-Dinitrophenol	ND	5.0	ug/l							
2,4-Dinitrotoluene	ND	1.0	ug/l							
2,6-Dinitrotoluene	ND	1.0	ug/l							
2-Chloronaphthalene	ND	1.0	ug/l							
2-Chlorophenol	ND	1.0	ug/l							
2-Methyl-4,6-dinitrophenol	ND	1.0	ug/l							
2-Nitrophenol	ND	1.0	ug/l							
3,3'-Dichlorobenzidine	ND	1.0	ug/l							
4-Bromophenyl phenyl ether	ND	1.0	ug/l							
4-Chloro-3-methylphenol	ND	1.0	ug/l							
4-Chlorophenyl phenyl ether	ND	1.0	ug/l							
4-Nitrophenol	ND	2.0	ug/l							
Acenaphthene	ND	1.0	ug/l							
Acenaphthylene	ND	1.0	ug/l							
Anthracene	ND	1.0	ug/l							
Benzidine	ND	10	ug/l							
Benzo (a) anthracene	ND	1.0	ug/l							
Benzo (a) pyrene	ND	1.0	ug/l							
Benzo (b) fluoranthene	ND	1.0	ug/l							
Benzo (g,h,i) perylene	ND	1.0	ug/l							
Benzo (k) fluoranthene	ND	1.0	ug/l							
Bis(2-chloroethoxy)methane	ND	1.0	ug/l							
Bis(2-chloroethyl)ether	ND	1.0	ug/l							
Bis(2-chloroisopropyl)ether	ND	1.0	ug/l							
Bis(2-ethylhexyl)phthalate	ND	2.0	ug/l							
Butyl benzyl phthalate	ND	1.0	ug/l							
Chrysene	ND	1.0	ug/l							
Dibenzo (a,h) anthracene	ND	1.0	ug/l							
Diethyl phthalate	ND	1.0	ug/l							
Dimethyl phthalate	ND	1.0	ug/l							
Di-n-butyl phthalate	ND	1.0	ug/l							

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Project Number: EO-432455

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09/22/2020 09:27

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1451 - EPA 625.1 (Continued)										
Blank (W0H1451-BLK1)				**Prepared: 08/26/20 Analyzed: 09/17/20**						
Di-n-octyl phthalate	ND	1.0	ug/l							
Fluoranthene	ND	1.0	ug/l							
Fluorene	ND	1.0	ug/l							
Hexachlorobenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Hexachlorocyclopentadiene	ND	5.0	ug/l							
Hexachloroethane	ND	1.0	ug/l							
Indeno (1,2,3-cd) pyrene	ND	1.0	ug/l							
Isophorone	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
Nitrobenzene	ND	1.0	ug/l							
N-Nitrosodimethylamine	ND	1.0	ug/l							
N-Nitrosodi-n-propylamine	ND	1.0	ug/l							
N-Nitrosodiphenylamine	ND	1.0	ug/l							
Pentachlorophenol	ND	1.0	ug/l							
Phenanthrene	ND	1.0	ug/l							
Phenol	ND	1.0	ug/l							
Pyrene	ND	1.0	ug/l							
Surrogate(s)										
2,4,6-Tribromophenol	*26.9*		*ug/l*	*50.0*		*54*	*25-120*			
2-Fluorobiphenyl	*17.3*		*ug/l*	*25.0*		*69*	*22-120*			
2-Fluorophenol	*28.3*		*ug/l*	*50.0*		*57*	*17-120*			
Nitrobenzene-d5	*18.7*		*ug/l*	*25.0*		*75*	*47-120*			
Phenol-d5	*17.5*		*ug/l*	*50.0*		*35*	*12-120*			
Terphenyl-d14	*21.7*		*ug/l*	*25.0*		*87*	*44-129*			
LCS (W0H1451-BS1)				**Prepared: 08/26/20 Analyzed: 09/17/20**						
1,2,4-Trichlorobenzene	19.0	1.0	ug/l	25.0		76	57-130			
1,2-Dichlorobenzene	18.6	1.0	ug/l	25.0		74	57-120			
1,3-Dichlorobenzene	18.5	1.0	ug/l	25.0		74	55-120			
1,4-Dichlorobenzene	18.2	1.0	ug/l	25.0		73	55-120			
2,4,6-Trichlorophenol	19.0	1.0	ug/l	25.0		76	52-129			
2,4-Dichlorophenol	20.8	1.0	ug/l	25.0		83	53-122			
2,4-Dimethylphenol	20.4	1.0	ug/l	25.0		81	42-120			
2,4-Dinitrophenol	21.8	5.0	ug/l	25.0		87	0.1-173			
2,4-Dinitrotoluene	20.0	1.0	ug/l	25.0		80	48-127			
2,6-Dinitrotoluene	19.8	1.0	ug/l	25.0		79	68-137			
2-Chloronaphthalene	18.9	1.0	ug/l	25.0		76	65-120			
2-Chlorophenol	20.2	1.0	ug/l	25.0		81	36-120			
2-Methyl-4,6-dinitrophenol	19.5	1.0	ug/l	25.0		78	53-130			

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931 West Barkley Avenue
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Project Number: EO-432455

Project Manager: Ranjit Clarke

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1451 - EPA 625.1 (Continued)										
LCS (W0H1451-BS1)				**Prepared: 08/26/20 Analyzed: 09/17/20**						
2-Nitrophenol	20.1	1.0	ug/l	25.0		81	45-167			
3,3'-Dichlorobenzidine	25.7	1.0	ug/l	25.0		103	8-213			
4-Bromophenyl phenyl ether	20.0	1.0	ug/l	25.0		80	65-120			
4-Chloro-3-methylphenol	19.1	1.0	ug/l	25.0		76	41-128			
4-Chlorophenyl phenyl ether	18.5	1.0	ug/l	25.0		74	38-145			
4-Nitrophenol	7.53	2.0	ug/l	25.0		30	13-129			
Acenaphthene	20.9	1.0	ug/l	25.0		84	60-132			
Acenaphthylene	20.7	1.0	ug/l	25.0		83	54-126			
Anthracene	22.5	1.0	ug/l	25.0		90	43-120			
Benzo (a) anthracene	21.9	1.0	ug/l	25.0		88	42-133			
Benzo (a) pyrene	25.2	1.0	ug/l	25.0		101	32-148			
Benzo (b) fluoranthene	26.2	1.0	ug/l	25.0		105	42-140			AN-IP
Benzo (g,h,i) perylene	27.0	1.0	ug/l	25.0		108	0.1-195			
Benzo (k) fluoranthene	25.4	1.0	ug/l	25.0		102	25-146			AN-IP
Bis(2-chloroethoxy)methane	19.9	1.0	ug/l	25.0		80	49-165			
Bis(2-chloroethyl)ether	18.6	1.0	ug/l	25.0		74	43-126			
Bis(2-chloroisopropyl)ether	19.3	1.0	ug/l	25.0		77	63-139			
Bis(2-ethylhexyl)phthalate	23.0	2.0	ug/l	25.0		92	29-137			
Butyl benzyl phthalate	23.1	1.0	ug/l	25.0		93	0.1-140			
Chrysene	25.2	1.0	ug/l	25.0		101	44-140			
Dibenzo (a,h) anthracene	25.4	1.0	ug/l	25.0		101	0.1-200			
Diethyl phthalate	21.3	1.0	ug/l	25.0		85	0.1-120			
Dimethyl phthalate	19.5	1.0	ug/l	25.0		78	0.1-120			
Di-n-butyl phthalate	25.4	1.0	ug/l	25.0		102	8-120			
Di-n-octyl phthalate	25.0	1.0	ug/l	25.0		100	19-132			
Fluoranthene	22.3	1.0	ug/l	25.0		89	43-121			
Fluorene	20.2	1.0	ug/l	25.0		81	70-120			
Hexachlorobenzene	20.6	1.0	ug/l	25.0		82	8-142			
Hexachlorobutadiene	21.1	1.0	ug/l	25.0		84	38-120			
Hexachlorocyclopentadiene	11.5	5.0	ug/l	25.0		46	10-120			
Hexachloroethane	19.3	1.0	ug/l	25.0		77	55-120			
Indeno (1,2,3-cd) pyrene	25.1	1.0	ug/l	25.0		100	0.1-151			
Isophorone	19.0	1.0	ug/l	25.0		76	47-180			
Naphthalene	19.8	1.0	ug/l	25.0		79	36-120			
Nitrobenzene	19.1	1.0	ug/l	25.0		76	54-158			
N-Nitrosodimethylamine	14.0	1.0	ug/l	25.0		56	22-120			
N-Nitrosodi-n-propylamine	20.7	1.0	ug/l	25.0		83	14-198			
N-Nitrosodiphenylamine	16.5	1.0	ug/l	25.0		66	47-120			
Pentachlorophenol	18.9	1.0	ug/l	25.0		76	41-120			

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Project Number: EO-432455

Project Manager: Ranjit Clarke

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1451 - EPA 625.1 (Continued)										
LCS (W0H1451-BS1)				**Prepared: 08/26/20**	**Analyzed: 09/17/20**					
Phenanthrene	22.8	1.0	ug/l	25.0		91	65-120			
Phenol	8.24	1.0	ug/l	25.0		33	17-120			
Pyrene	23.3	1.0	ug/l	25.0		93	70-120			
Surrogate(s)										
2,4,6-Tribromophenol	*35.9*		*ug/l*	*50.0*		*72*	*25-120*			
2-Fluorobiphenyl	*18.3*		*ug/l*	*25.0*		*73*	*22-120*			
2-Fluorophenol	*27.4*		*ug/l*	*50.0*		*55*	*17-120*			
Nitrobenzene-d5	*18.5*		*ug/l*	*25.0*		*74*	*47-120*			
Phenol-d5	*16.8*		*ug/l*	*50.0*		*34*	*12-120*			
Terphenyl-d14	*25.5*		*ug/l*	*25.0*		*102*	*44-129*			
LCS Dup (W0H1451-BSD1)				**Prepared: 08/26/20**	**Analyzed: 09/16/20**					
1,2,4-Trichlorobenzene	19.5	1.0	ug/l	25.0		78	57-130	3	30	
1,2-Dichlorobenzene	18.5	1.0	ug/l	25.0		74	57-120	0.4	30	
1,3-Dichlorobenzene	18.2	1.0	ug/l	25.0		73	55-120	1	30	
1,4-Dichlorobenzene	18.1	1.0	ug/l	25.0		72	55-120	0.8	30	
2,4,6-Trichlorophenol	19.5	1.0	ug/l	25.0		78	52-129	3	30	
2,4-Dichlorophenol	21.3	1.0	ug/l	25.0		85	53-122	2	30	
2,4-Dimethylphenol	21.7	1.0	ug/l	25.0		87	42-120	6	30	
2,4-Dinitrophenol	22.1	5.0	ug/l	25.0		88	0.1-173	2	30	
2,4-Dinitrotoluene	18.5	1.0	ug/l	25.0		74	48-127	8	30	
2,6-Dinitrotoluene	19.2	1.0	ug/l	25.0		77	68-137	3	30	
2-Chloronaphthalene	19.8	1.0	ug/l	25.0		79	65-120	5	30	
2-Chlorophenol	20.0	1.0	ug/l	25.0		80	36-120	1	30	
2-Methyl-4,6-dinitrophenol	17.9	1.0	ug/l	25.0		71	53-130	9	30	
2-Nitrophenol	20.6	1.0	ug/l	25.0		82	45-167	2	30	
3,3'-Dichlorobenzidine	20.4	1.0	ug/l	25.0		82	8-213	23	30	
4-Bromophenyl phenyl ether	19.2	1.0	ug/l	25.0		77	65-120	5	30	
4-Chloro-3-methylphenol	19.6	1.0	ug/l	25.0		78	41-128	2	30	
4-Chlorophenyl phenyl ether	18.6	1.0	ug/l	25.0		74	38-145	0.5	30	
4-Nitrophenol	7.26	2.0	ug/l	25.0		29	13-129	4	30	
Acenaphthene	21.1	1.0	ug/l	25.0		84	60-132	0.9	30	
Acenaphthylene	21.3	1.0	ug/l	25.0		85	54-126	3	30	
Anthracene	20.4	1.0	ug/l	25.0		82	43-120	10	30	
Benzo (a) anthracene	18.4	1.0	ug/l	25.0		74	42-133	18	30	
Benzo (a) pyrene	20.9	1.0	ug/l	25.0		84	32-148	18	30	
Benzo (b) fluoranthene	22.1	1.0	ug/l	25.0		88	42-140	17	30	AN-IP
Benzo (g,h,i) perylene	23.0	1.0	ug/l	25.0		92	0.1-195	16	30	
Benzo (k) fluoranthene	21.6	1.0	ug/l	25.0		86	25-146	16	30	AN-IP
Bis(2-chloroethoxy)methane	20.9	1.0	ug/l	25.0		83	49-165	5	30	

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Project Manager: Ranjit Clarke

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1451 - EPA 625.1 (Continued)										
LCS Dup (W0H1451-BSD1)				**Prepared: 08/26/20**	**Analyzed: 09/16/20**					
Bis(2-chloroethyl)ether	18.3	1.0	ug/l	25.0		73	43-126	2	30	
Bis(2-chloroisopropyl)ether	19.3	1.0	ug/l	25.0		77	63-139	0.3	30	
Bis(2-ethylhexyl)phthalate	41.2	2.0	ug/l	25.0		165	29-137	57	30	BS-04
Butyl benzyl phthalate	19.6	1.0	ug/l	25.0		78	0.1-140	17	30	
Chrysene	21.3	1.0	ug/l	25.0		85	44-140	17	30	
Dibenzo (a,h) anthracene	22.0	1.0	ug/l	25.0		88	0.1-200	14	30	
Diethyl phthalate	19.9	1.0	ug/l	25.0		80	0.1-120	7	30	
Dimethyl phthalate	18.9	1.0	ug/l	25.0		76	0.1-120	3	30	
Di-n-butyl phthalate	21.8	1.0	ug/l	25.0		87	8-120	15	30	
Di-n-octyl phthalate	21.6	1.0	ug/l	25.0		87	19-132	14	30	
Fluoranthene	19.8	1.0	ug/l	25.0		79	43-121	12	30	
Fluorene	19.8	1.0	ug/l	25.0		79	70-120	2	30	
Hexachlorobenzene	19.4	1.0	ug/l	25.0		77	8-142	6	30	
Hexachlorobutadiene	20.8	1.0	ug/l	25.0		83	38-120	1	30	
Hexachlorocyclopentadiene	12.3	5.0	ug/l	25.0		49	10-120	7	30	
Hexachloroethane	18.8	1.0	ug/l	25.0		75	55-120	3	30	
Indeno (1,2,3-cd) pyrene	21.3	1.0	ug/l	25.0		85	0.1-151	16	30	
Isophorone	19.7	1.0	ug/l	25.0		79	47-180	4	30	
Naphthalene	20.1	1.0	ug/l	25.0		80	36-120	1	30	
Nitrobenzene	19.4	1.0	ug/l	25.0		77	54-158	1	30	
N-Nitrosodimethylamine	14.5	1.0	ug/l	25.0		58	22-120	4	30	
N-Nitrosodi-n-propylamine	21.4	1.0	ug/l	25.0		86	14-198	3	30	
N-Nitrosodiphenylamine	15.5	1.0	ug/l	25.0		62	47-120	6	30	
Pentachlorophenol	17.8	1.0	ug/l	25.0		71	41-120	6	30	
Phenanthrene	20.7	1.0	ug/l	25.0		83	65-120	10	30	
Phenol	8.49	1.0	ug/l	25.0		34	17-120	3	30	
Pyrene	20.5	1.0	ug/l	25.0		82	70-120	13	30	
Surrogate(s)										
2,4,6-Tribromophenol	*34.6*		*ug/l*	*50.0*		*69*	*25-120*			
2-Fluorobiphenyl	*19.0*		*ug/l*	*25.0*		*76*	*22-120*			
2-Fluorophenol	*27.7*		*ug/l*	*50.0*		*55*	*17-120*			
Nitrobenzene-d5	*19.1*		*ug/l*	*25.0*		*76*	*47-120*			
Phenol-d5	*17.3*		*ug/l*	*50.0*		*35*	*12-120*			
Terphenyl-d14	*23.5*		*ug/l*	*25.0*		*94*	*44-129*			

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Project Manager: Ranjit Clarke

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Quality Control Results

(Continued)

Anions by IC, EPA Method 300.1

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1446 - EPA 300.1										
Blank (W0H1446-BLK1)				**Prepared & Analyzed: 08/26/20**						
Bromate	ND	5.0	ug/l							
Chlorite	ND	10	ug/l							
Surrogate(s)										
Dichloroacetate	*513*		*ug/l*	*500*		*103*	*90-115*			
Dichloroacetate	*513*		*ug/l*	*500*		*103*	*90-115*			
LCS (W0H1446-BS1)				**Prepared & Analyzed: 08/26/20**						
Bromate	97.8	5.0	ug/l	100		98	85-115			
Chlorite	98.4	10	ug/l	100		98	85-115			
Surrogate(s)										
Dichloroacetate	*569*		*ug/l*	*500*		*114*	*90-115*			
Dichloroacetate	*569*		*ug/l*	*500*		*114*	*90-115*			
Matrix Spike (W0H1446-MS1)	**Source: 0H14013-01**			**Prepared & Analyzed: 08/26/20**						
Bromate	95.8	5.0	ug/l	100	ND	96	64-133			
Chlorite	96.0	10	ug/l	100	ND	96	78-129			
Surrogate(s)										
Dichloroacetate	*546*		*ug/l*	*500*		*109*	*90-115*			
Dichloroacetate	*546*		*ug/l*	*500*		*109*	*90-115*			
Matrix Spike (W0H1446-MS2)	**Source: 0H25036-01**			**Prepared & Analyzed: 08/26/20**						
Bromate	121	5.0	ug/l	100	ND	121	64-133			
Chlorite	102	10	ug/l	100	ND	102	78-129			
Surrogate(s)										
Dichloroacetate	*525*		*ug/l*	*500*		*105*	*90-115*			
Dichloroacetate	*525*		*ug/l*	*500*		*105*	*90-115*			
Matrix Spike Dup (W0H1446-MSD1)	**Source: 0H14013-01**			**Prepared & Analyzed: 08/26/20**						
Bromate	100	5.0	ug/l	100	ND	100	64-133	5	20	
Chlorite	93.4	10	ug/l	100	ND	93	78-129	3	20	
Surrogate(s)										
Dichloroacetate	*538*		*ug/l*	*500*		*108*	*90-115*			
Dichloroacetate	*538*		*ug/l*	*500*		*108*	*90-115*			
Matrix Spike Dup (W0H1446-MSD2)	**Source: 0H25036-01**			**Prepared & Analyzed: 08/26/20**						
Bromate	100	5.0	ug/l	100	ND	100	64-133	18	20	
Chlorite	95.4	10	ug/l	100	ND	95	78-129	7	20	
Surrogate(s)										
Dichloroacetate	*561*		*ug/l*	*500*		*112*	*90-115*			
Dichloroacetate	*561*		*ug/l*	*500*		*112*	*90-115*			

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Quality Control Results

(Continued)

Carbamates and Urea Pesticides

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0178 - EPA 531.2										
Blank (W0I0178-BLK1)				**Prepared: 09/02/20**	**Analyzed: 09/09/20**					
3-Hydroxycarbofuran	ND	2.0	ug/l							
Aldicarb	ND	2.0	ug/l							
Aldicarb sulfone	ND	2.0	ug/l							
Aldicarb sulfoxide	ND	2.0	ug/l							
Carbaryl	ND	2.0	ug/l							
Carbofuran	ND	2.0	ug/l							
Methiocarb	ND	2.0	ug/l							
Methomyl	ND	2.0	ug/l							
Oxamyl	ND	2.0	ug/l							
Propoxur (Baygon)	ND	2.0	ug/l							
Surrogate(s)										
BDMC	*8.65*		*ug/l*	*10.0*		*87*	*70-130*			
LCS (W0I0178-BS1)				**Prepared: 09/02/20**	**Analyzed: 09/09/20**					
3-Hydroxycarbofuran	10.8	2.0	ug/l	10.0		108	70-130			
Aldicarb	9.56	2.0	ug/l	10.0		96	70-130			
Aldicarb sulfone	12.3	2.0	ug/l	10.0		123	70-130			
Aldicarb sulfoxide	11.1	2.0	ug/l	10.0		111	70-130			
Carbaryl	10.6	2.0	ug/l	10.0		106	70-130			
Carbofuran	12.4	2.0	ug/l	10.0		124	70-130			
Methiocarb	11.4	2.0	ug/l	10.0		114	70-130			
Methomyl	12.6	2.0	ug/l	10.0		126	70-130			
Oxamyl	11.9	2.0	ug/l	10.0		119	70-130			
Propoxur (Baygon)	12.5	2.0	ug/l	10.0		125	70-130			
Surrogate(s)										
BDMC	*10.7*		*ug/l*	*10.0*		*107*	*70-130*			
Matrix Spike (W0I0178-MS1)	**Source: 0H18001-01**			**Prepared: 09/02/20**	**Analyzed: 09/09/20**					
3-Hydroxycarbofuran	11.6	2.0	ug/l	10.0	ND	116	70-130			
Aldicarb	10.4	2.0	ug/l	10.0	ND	104	70-130			
Aldicarb sulfone	11.6	2.0	ug/l	10.0	ND	116	70-130			
Aldicarb sulfoxide	12.0	2.0	ug/l	10.0	ND	120	70-130			
Carbaryl	10.5	2.0	ug/l	10.0	ND	105	70-130			
Carbofuran	11.1	2.0	ug/l	10.0	ND	111	70-130			
Methiocarb	11.2	2.0	ug/l	10.0	ND	112	70-130			
Methomyl	11.5	2.0	ug/l	10.0	ND	115	70-130			
Oxamyl	10.7	2.0	ug/l	10.0	ND	107	70-130			
Propoxur (Baygon)	11.2	2.0	ug/l	10.0	ND	112	70-130			
Surrogate(s)										
BDMC	*10.4*		*ug/l*	*10.0*		*104*	*70-130*			
Matrix Spike Dup (W0I0178-MSD1)	**Source: 0H18001-01**			**Prepared: 09/02/20**	**Analyzed: 09/09/20**					
3-Hydroxycarbofuran	11.0	2.0	ug/l	10.0	ND	110	70-130	5	30	

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Quality Control Results

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Carbamates and Urea Pesticides (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0178 - EPA 531.2 (Continued)										
Matrix Spike Dup (W0I0178-MSD1)	**Source: 0H18001-01**			**Prepared: 09/02/20**	**Analyzed: 09/09/20**					
Aldicarb	11.1	2.0	ug/l	10.0	ND	111	70-130	6	30	
Aldicarb sulfone	10.7	2.0	ug/l	10.0	ND	107	70-130	8	30	
Aldicarb sulfoxide	11.3	2.0	ug/l	10.0	ND	113	70-130	6	30	
Carbaryl	10.4	2.0	ug/l	10.0	ND	104	70-130	0.6	30	
Carbofuran	11.2	2.0	ug/l	10.0	ND	112	70-130	0.9	30	
Methiocarb	11.5	2.0	ug/l	10.0	ND	115	70-130	3	30	
Methomyl	11.5	2.0	ug/l	10.0	ND	115	70-130	0.1	30	
Oxamyl	13.0	2.0	ug/l	10.0	ND	130	70-130	19	30	
Propoxur (Baygon)	12.2	2.0	ug/l	10.0	ND	122	70-130	9	30	
Surrogate(s)										
BDMC	*10.2*		*ug/l*	*10.0*		*102*	*70-130*			

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Quality Control Results

(Continued)

Chlorinated Acids Herbicides by GC/ECD

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0008 - EPA 515.4										
Blank (W0I0008-BLK1)				**Prepared: 09/01/20 Analyzed: 09/02/20**						
2,4,5-T	ND	0.20	ug/l							
2,4,5-TP (Silvex)	ND	0.20	ug/l							
2,4-D	ND	0.40	ug/l							
2,4-DB	ND	2.0	ug/l							
3,5-Dichlorobenzoic acid	ND	1.0	ug/l							
Acifluorfen	ND	0.40	ug/l							
Bentazon	ND	2.0	ug/l							
Dalapon	ND	0.40	ug/l							
DCPA	ND	0.10	ug/l							
Dicamba	ND	0.60	ug/l							
Dichloroprop	ND	0.30	ug/l							
Dinoseb	ND	0.40	ug/l							
Pentachlorophenol	ND	0.20	ug/l							
Picloram	ND	0.60	ug/l							
Surrogate(s)										
2,4-DCAA	*11.1*		*ug/l*	*10.0*		*111*	*70-130*			
LCS (W0I0008-BS1)				**Prepared: 09/01/20 Analyzed: 09/02/20**						
2,4,5-T	4.22	0.20	ug/l	4.00		106	70-130			
2,4,5-TP (Silvex)	4.19	0.20	ug/l	4.00		105	70-130			
2,4-D	8.75	0.40	ug/l	8.00		109	70-130			
2,4-DB	19.4	2.0	ug/l	16.0		121	70-130			
3,5-Dichlorobenzoic acid	8.55	1.0	ug/l	8.00		107	70-130			
Acifluorfen	4.33	0.40	ug/l	4.00		108	70-130			
Bentazon	16.5	2.0	ug/l	16.0		103	70-130			
Dalapon	9.60	0.40	ug/l	8.00		120	70-130			
DCPA	4.70	0.10	ug/l	4.00		118	70-130			
Dicamba	8.29	0.60	ug/l	8.00		104	70-130			
Dichloroprop	8.60	0.30	ug/l	8.00		107	70-130			
Dinoseb	4.15	0.40	ug/l	4.00		104	70-130			
Pentachlorophenol	4.78	0.20	ug/l	4.00		120	70-130			
Picloram	4.71	0.60	ug/l	4.00		118	70-130			
Surrogate(s)										
2,4-DCAA	*12.1*		*ug/l*	*10.0*		*121*	*70-130*			
Matrix Spike (W0I0008-MS1)	**Source: 0H25012-01**			**Prepared: 09/01/20 Analyzed: 09/02/20**						
2,4,5-T	4.23	0.20	ug/l	4.00	ND	106	70-130			
2,4,5-TP (Silvex)	4.29	0.20	ug/l	4.00	ND	107	70-130			
2,4-D	8.65	0.40	ug/l	8.00	ND	108	70-130			
2,4-DB	23.0	2.0	ug/l	16.0	ND	144	70-130			MS-07
3,5-Dichlorobenzoic acid	8.78	1.0	ug/l	8.00	ND	110	70-130			

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Project Manager: Ranjit Clarke

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Quality Control Results

(Continued)

Chlorinated Acids Herbicides by GC/ECD (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0008 - EPA 515.4 (Continued)										
Matrix Spike (W0I0008-MS1)	**Source: 0H25012-01**			**Prepared: 09/01/20**	**Analyzed: 09/02/20**					
Acifluorfen	4.31	0.40	ug/l	4.00	ND	108	70-130			
Bentazon	16.5	2.0	ug/l	16.0	ND	103	70-130			
Dalapon	8.80	0.40	ug/l	8.00	ND	110	70-130			
DCPA	4.59	0.10	ug/l	4.00	ND	115	70-130			
Dicamba	8.34	0.60	ug/l	8.00	ND	104	70-130			
Dichloroprop	8.70	0.30	ug/l	8.00	ND	109	70-130			
Dinoseb	4.08	0.40	ug/l	4.00	ND	102	70-130			
Pentachlorophenol	4.76	0.20	ug/l	4.00	ND	119	70-130			
Picloram	4.62	0.60	ug/l	4.00	ND	116	70-130			
Surrogate(s)										
2,4-DCAA	*12.3*		*ug/l*	*10.0*		*123*	*70-130*			
Matrix Spike Dup (W0I0008-MSD1)	**Source: 0H25012-01**			**Prepared: 09/01/20**	**Analyzed: 09/02/20**					
2,4,5-T	4.18	0.20	ug/l	4.00	ND	104	70-130	1	30	
2,4,5-TP (Silvex)	4.22	0.20	ug/l	4.00	ND	106	70-130	1	30	
2,4-D	8.59	0.40	ug/l	8.00	ND	107	70-130	0.8	30	
2,4-DB	23.1	2.0	ug/l	16.0	ND	144	70-130	0.4	30	MS-07
3,5-Dichlorobenzoic acid	8.73	1.0	ug/l	8.00	ND	109	70-130	0.6	30	
Acifluorfen	4.19	0.40	ug/l	4.00	ND	105	70-130	3	30	
Bentazon	16.4	2.0	ug/l	16.0	ND	103	70-130	0.2	30	
Dalapon	8.87	0.40	ug/l	8.00	ND	111	70-130	0.8	30	
DCPA	4.55	0.10	ug/l	4.00	ND	114	70-130	1	30	
Dicamba	8.25	0.60	ug/l	8.00	ND	103	70-130	1	30	
Dichloroprop	8.61	0.30	ug/l	8.00	ND	108	70-130	1	30	
Dinoseb	3.98	0.40	ug/l	4.00	ND	100	70-130	2	30	
Pentachlorophenol	4.72	0.20	ug/l	4.00	ND	118	70-130	0.9	30	
Picloram	4.57	0.60	ug/l	4.00	ND	114	70-130	1	30	
Surrogate(s)										
2,4-DCAA	*12.3*		*ug/l*	*10.0*		*123*	*70-130*			

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Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1227 - EPA 508										
Blank (W0H1227-BLK1)				**Prepared: 08/21/20 Analyzed: 09/02/20**						
4,4´-DDD	ND	0.010	ug/l							
4,4´-DDE	ND	0.010	ug/l							
4,4´-DDT	ND	0.010	ug/l							
Aldrin	ND	0.010	ug/l							
alpha-BHC	ND	0.010	ug/l							
Aroclor 1016	ND	0.10	ug/l							
Aroclor 1221	ND	0.10	ug/l							
Aroclor 1232	ND	0.10	ug/l							
Aroclor 1242	ND	0.10	ug/l							
Aroclor 1248	ND	0.10	ug/l							
Aroclor 1254	ND	0.10	ug/l							
Aroclor 1260	ND	0.10	ug/l							
beta-BHC	ND	0.010	ug/l							
Chlordane (tech)	ND	0.10	ug/l							
Chlorothalonil	ND	0.050	ug/l							
delta-BHC	ND	0.010	ug/l							
Dieldrin	ND	0.010	ug/l							
Endosulfan I	ND	0.010	ug/l							
Endosulfan II	ND	0.010	ug/l							
Endosulfan sulfate	ND	0.010	ug/l							
Endrin	ND	0.010	ug/l							
Endrin aldehyde	ND	0.010	ug/l							
gamma-BHC (Lindane)	ND	0.010	ug/l							
Heptachlor	ND	0.010	ug/l							
Heptachlor epoxide	ND	0.010	ug/l							
Hexachlorobenzene	ND	0.050	ug/l							
Hexachlorocyclopentadiene	ND	0.050	ug/l							
Methoxychlor	ND	0.010	ug/l							
PCBs, Total	ND	0.50	ug/l							
Propachlor	ND	0.050	ug/l							
Toxaphene	ND	0.50	ug/l							
Trifluralin	ND	0.010	ug/l							
Surrogate(s)										
Decachlorobiphenyl	*0.0882*		*ug/l*	*0.100*		*88*	*70-130*			
Tetrachloro-meta-xylene	*0.0713*		*ug/l*	*0.100*		*71*	*70-130*			
LCS (W0H1227-BS1)				**Prepared: 08/21/20 Analyzed: 09/02/20**						
4,4´-DDD	0.0862	0.010	ug/l	0.100		86	77-137			
4,4´-DDE	0.0898	0.010	ug/l	0.100		90	69-129			
4,4´-DDT	0.102	0.010	ug/l	0.100		102	82-142			

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Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1227 - EPA 508 (Continued)										
LCS (W0H1227-BS1)				**Prepared: 08/21/20 Analyzed: 09/02/20**						
Aldrin	0.0791	0.010	ug/l	0.100		79	56-116			
alpha-BHC	0.0848	0.010	ug/l	0.100		85	62-122			
beta-BHC	0.0924	0.010	ug/l	0.100		92	65-125			
delta-BHC	0.101	0.010	ug/l	0.100		101	72-132			
Dieldrin	0.0860	0.010	ug/l	0.100		86	57-117			
Endosulfan I	0.0728	0.010	ug/l	0.100		73	57-117			
Endosulfan II	0.0840	0.010	ug/l	0.100		84	62-122			
Endosulfan sulfate	0.0978	0.010	ug/l	0.100		98	72-132			
Endrin	0.0949	0.010	ug/l	0.100		95	58-118			
Endrin aldehyde	0.103	0.010	ug/l	0.100		103	58-118			
gamma-BHC (Lindane)	0.0867	0.010	ug/l	0.100		87	59-119			
Heptachlor	0.0874	0.010	ug/l	0.100		87	68-128			
Heptachlor epoxide	0.0866	0.010	ug/l	0.100		87	57-117			
Methoxychlor	0.0991	0.010	ug/l	0.100		99	75-135			
Surrogate(s)										
Decachlorobiphenyl	*0.0963*		*ug/l*	*0.100*		*96*	*70-130*			
Tetrachloro-meta-xylene	*0.0759*		*ug/l*	*0.100*		*76*	*70-130*			
LCS Dup (W0H1227-BSD1)				**Prepared: 08/21/20 Analyzed: 09/02/20**						
4,4´-DDD	0.0913	0.010	ug/l	0.100		91	77-137	6	20	
4,4´-DDE	0.0925	0.010	ug/l	0.100		92	69-129	3	20	
4,4´-DDT	0.109	0.010	ug/l	0.100		109	82-142	6	20	
Aldrin	0.0778	0.010	ug/l	0.100		78	56-116	2	20	
alpha-BHC	0.0906	0.010	ug/l	0.100		91	62-122	7	20	
beta-BHC	0.0990	0.010	ug/l	0.100		99	65-125	7	20	
delta-BHC	0.107	0.010	ug/l	0.100		107	72-132	6	20	
Dieldrin	0.0915	0.010	ug/l	0.100		92	57-117	6	20	
Endosulfan I	0.0773	0.010	ug/l	0.100		77	57-117	6	20	
Endosulfan II	0.0894	0.010	ug/l	0.100		89	62-122	6	20	
Endosulfan sulfate	0.103	0.010	ug/l	0.100		103	72-132	5	20	
Endrin	0.100	0.010	ug/l	0.100		100	58-118	6	20	
Endrin aldehyde	0.102	0.010	ug/l	0.100		102	58-118	1	20	
gamma-BHC (Lindane)	0.0925	0.010	ug/l	0.100		93	59-119	7	20	
Heptachlor	0.0853	0.010	ug/l	0.100		85	68-128	2	20	
Heptachlor epoxide	0.0903	0.010	ug/l	0.100		90	57-117	4	20	
Methoxychlor	0.107	0.010	ug/l	0.100		107	75-135	8	20	
Surrogate(s)										
Decachlorobiphenyl	*0.0970*		*ug/l*	*0.100*		*97*	*70-130*			
Tetrachloro-meta-xylene	*0.0763*		*ug/l*	*0.100*		*76*	*70-130*			

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Quality Control Results (Continued)

Diquat and Paraquat by EPA 549.2

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1195 - EPA 549.2										
Blank (W0H1195-BLK1)				**Prepared: 08/21/20**	**Analyzed: 08/31/20**					
Diquat	ND	4.0	ug/l							
Paraquat	ND	4.0	ug/l							
LCS (W0H1195-BS1)				**Prepared: 08/21/20**	**Analyzed: 08/31/20**					
Diquat	17.3	4.0	ug/l	20.0		86	70-130			
Paraquat	15.9	4.0	ug/l	20.0		80	70-130			
Matrix Spike (W0H1195-MS1)	**Source: 0G21010-02**			**Prepared: 08/21/20**	**Analyzed: 08/31/20**					
Diquat	15.2	4.0	ug/l	20.0	ND	76	46-122			
Paraquat	17.2	4.0	ug/l	20.0	ND	86	38-129			
Matrix Spike (W0H1195-MS2)	**Source: 0G21010-01**			**Prepared: 08/21/20**	**Analyzed: 08/31/20**					
Diquat	13.5	4.0	ug/l	20.0	ND	68	46-122			
Paraquat	16.8	4.0	ug/l	20.0	ND	84	38-129			
Matrix Spike Dup (W0H1195-MSD1)	**Source: 0G21010-02**			**Prepared: 08/21/20**	**Analyzed: 08/31/20**					
Diquat	13.5	4.0	ug/l	20.0	ND	68	46-122	12	30	
Paraquat	15.5	4.0	ug/l	20.0	ND	78	38-129	11	30	
Matrix Spike Dup (W0H1195-MSD2)	**Source: 0G21010-01**			**Prepared: 08/21/20**	**Analyzed: 08/31/20**					
Diquat	13.9	4.0	ug/l	20.0	ND	70	46-122	3	30	
Paraquat	17.2	4.0	ug/l	20.0	ND	86	38-129	2	30	

Quality Control Results (Continued)

Endothall By EPA 548.1

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1346 - EPA 548.1										
Blank (W0H1346-BLK1)				**Prepared: 08/25/20**	**Analyzed: 08/27/20**					
Endothall	ND	40	ug/l							
LCS (W0H1346-BS1)				**Prepared: 08/25/20**	**Analyzed: 08/27/20**					
Endothall	73.7	40	ug/l	100		74	31-117			
Matrix Spike (W0H1346-MS1)	**Source: 0H20013-05**			**Prepared: 08/25/20**	**Analyzed: 08/27/20**					
Endothall	19.2	80	ug/l	200	ND	10	0.1-109			
Matrix Spike Dup (W0H1346-MSD1)	**Source: 0H20013-05**			**Prepared: 08/25/20**	**Analyzed: 08/27/20**					
Endothall	18.0	80	ug/l	200	ND	9	0.1-109	7	30	

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Quality Control Results

(Continued)

Glyphosate by EPA 547

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1697 - EPA 547										
Blank (W0H1697-BLK1)				**Prepared: 08/31/20**	**Analyzed: 09/01/20**					
Glyphosate	ND	5.0	ug/l							
LCS (W0H1697-BS1)				**Prepared: 08/31/20**	**Analyzed: 09/01/20**					
Glyphosate	22.1	5.0	ug/l	25.0		88	70-130			
Matrix Spike (W0H1697-MS1)	**Source: 0H17059-01**			**Prepared: 08/31/20**	**Analyzed: 09/01/20**					
Glyphosate	21.3	5.0	ug/l	25.0	ND	85	41-149			
Matrix Spike (W0H1697-MS2)	**Source: 0H24043-01**			**Prepared: 08/31/20**	**Analyzed: 09/01/20**					
Glyphosate	23.0	5.0	ug/l	25.0	ND	92	41-149			
Matrix Spike Dup (W0H1697-MSD1)	**Source: 0H17059-01**			**Prepared: 08/31/20**	**Analyzed: 09/01/20**					
Glyphosate	21.8	5.0	ug/l	25.0	ND	87	41-149	2	30	
Matrix Spike Dup (W0H1697-MSD2)	**Source: 0H24043-01**			**Prepared: 08/31/20**	**Analyzed: 09/01/20**					
Glyphosate	22.8	5.0	ug/l	25.0	ND	91	41-149	0.6	30	

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Quality Control Results

(Continued)

Haloacetic Acids (HAAs) by GC/ECD

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1575 - EPA 552.3										
Blank (W0H1575-BLK1)				**Prepared: 08/28/20**	**Analyzed: 09/02/20**					
Dibromoacetic acid (dbaa)	ND	1.0	ug/l							
Dichloroacetic acid (dcaa)	ND	1.0	ug/l							
HAA5, Total	ND	1.0	ug/l							
Monobromoacetic acid (mbaa)	ND	1.0	ug/l							
Monochloroacetic acid (mcaa)	ND	2.0	ug/l							
Trichloroacetic acid (tcaa)	ND	1.0	ug/l							
Surrogate(s)										
2-Bromobutyric acid	*10.0*		*ug/l*	*10.0*		*100*	*70-130*			
LCS (W0H1575-BS1)				**Prepared: 08/28/20**	**Analyzed: 09/02/20**					
Dibromoacetic acid (dbaa)	9.82	1.0	ug/l	10.0		98	70-130			
Dichloroacetic acid (dcaa)	9.15	1.0	ug/l	10.0		92	70-130			
Monobromoacetic acid (mbaa)	9.68	1.0	ug/l	10.0		97	70-130			
Monochloroacetic acid (mcaa)	9.87	2.0	ug/l	10.0		99	70-130			
Trichloroacetic acid (tcaa)	9.64	1.0	ug/l	10.0		96	70-130			
Surrogate(s)										
2-Bromobutyric acid	*10.2*		*ug/l*	*10.0*		*102*	*70-130*			
Matrix Spike (W0H1575-MS1)	**Source: 0H24020-01**			**Prepared: 08/28/20**	**Analyzed: 09/02/20**					
Dibromoacetic acid (dbaa)	10.7	1.0	ug/l	10.0	1.41	93	70-130			
Dichloroacetic acid (dcaa)	11.7	1.0	ug/l	10.0	2.74	89	70-130			
Monobromoacetic acid (mbaa)	9.41	1.0	ug/l	10.0	ND	94	70-130			
Monochloroacetic acid (mcaa)	10.2	2.0	ug/l	10.0	1.82	84	70-130			
Trichloroacetic acid (tcaa)	11.1	1.0	ug/l	10.0	1.67	95	70-130			
Surrogate(s)										
2-Bromobutyric acid	*9.64*		*ug/l*	*10.0*		*96*	*70-130*			
Matrix Spike Dup (W0H1575-MSD1)	**Source: 0H24020-01**			**Prepared: 08/28/20**	**Analyzed: 09/02/20**					
Dibromoacetic acid (dbaa)	11.4	1.0	ug/l	10.0	1.41	100	70-130	6	30	
Dichloroacetic acid (dcaa)	11.5	1.0	ug/l	10.0	2.74	88	70-130	2	30	
Monobromoacetic acid (mbaa)	9.02	1.0	ug/l	10.0	ND	90	70-130	4	30	
Monochloroacetic acid (mcaa)	8.97	2.0	ug/l	10.0	1.82	71	70-130	13	30	
Trichloroacetic acid (tcaa)	11.8	1.0	ug/l	10.0	1.67	101	70-130	6	30	
Surrogate(s)										
2-Bromobutyric acid	*9.96*		*ug/l*	*10.0*		*100*	*70-130*			

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Quality Control Results (Continued)

Hexavalent Chromium by IC

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0002 - EPA 218.6										
Blank (W0I0002-BLK1)				**Prepared & Analyzed: 09/01/20**						
Chromium 6+	ND	0.020	ug/l							
LCS (W0I0002-BS1)				**Prepared & Analyzed: 09/01/20**						
Chromium 6+	4.70	0.020	ug/l	5.00		94	90-110			
Matrix Spike (W0I0002-MS1)	**Source: 0H18001-01**			**Prepared & Analyzed: 09/01/20**						
Chromium 6+	12.2	0.020	ug/l	5.00	7.37	96	88-112			
Matrix Spike (W0I0002-MS2)	**Source: 0H19008-01**			**Prepared & Analyzed: 09/01/20**						
Chromium 6+	8.70	0.020	ug/l	5.00	3.90	96	88-112			
Matrix Spike Dup (W0I0002-MSD1)	**Source: 0H18001-01**			**Prepared & Analyzed: 09/01/20**						
Chromium 6+	12.2	0.020	ug/l	5.00	7.37	97	88-112	0.5	10	
Matrix Spike Dup (W0I0002-MSD2)	**Source: 0H19008-01**			**Prepared & Analyzed: 09/01/20**						
Chromium 6+	8.76	0.020	ug/l	5.00	3.90	97	88-112	0.6	10	

Quality Control Results (Continued)

Nitrosamines by isotopic dilution GC/MS CI Mode

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1369 - EPA 1625M										
Blank (W0H1369-BLK1)				**Prepared: 08/25/20 Analyzed: 08/31/20**						
N-Nitrosodimethylamine	ND	2.0	ng/l							
LCS (W0H1369-BS1)				**Prepared: 08/25/20 Analyzed: 08/31/20**						
N-Nitrosodimethylamine	2.62	2.0	ng/l	2.00		131	50-150			
LCS Dup (W0H1369-BSD1)				**Prepared: 08/25/20 Analyzed: 08/31/20**						
N-Nitrosodimethylamine	2.01	2.0	ng/l	2.00		100	50-150	26	50	

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Orange, CA 92868

Project Number: EO-432455

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:27

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0009 - EPA 525.2										
Blank (W0I0009-BLK1)				**Prepared: 09/01/20 Analyzed: 09/04/20**						
Alachlor	ND	0.10	ug/l							
Atrazine	ND	0.10	ug/l							
Benzo (a) pyrene	ND	0.10	ug/l							
Bis(2-ethylhexyl)adipate	ND	2.0	ug/l							
Bis(2-ethylhexyl)phthalate	ND	2.0	ug/l							
Bromacil	ND	0.50	ug/l							
Butachlor	ND	0.10	ug/l							
Captan	ND	1.0	ug/l							
Chlorpropham	ND	0.10	ug/l							
Cyanazine	ND	0.10	ug/l							
Diazinon	ND	0.10	ug/l							
Dimethoate	ND	0.20	ug/l							
Diphenamid	ND	0.10	ug/l							
Disulfoton	ND	0.10	ug/l							
EPTC	ND	0.10	ug/l							
Metolachlor	ND	0.10	ug/l							
Metribuzin	ND	0.10	ug/l							
Molinate	ND	0.10	ug/l							
Naphthalene	0.000295		ug/l							
Prometon	ND	0.10	ug/l							
Prometryn	ND	0.10	ug/l							
Propachlor	ND		ug/l							
Simazine	ND	0.10	ug/l							
Terbacil	ND	2.0	ug/l							
Thiobencarb	ND	0.10	ug/l							
Trithion	ND	0.10	ug/l							
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.82*		*ug/l*	*5.00*		*96*	*70-130*			
Perylene-d12	*3.70*		*ug/l*	*5.00*		*74*	*50-120*			
Triphenyl phosphate	*4.69*		*ug/l*	*5.00*		*94*	*70-130*			
Blank (W0I0009-BLK2)				**Prepared: 09/01/20 Analyzed: 09/08/20**						
Atrazine	ND	0.10	ug/l							QC-2
Molinate	ND	0.10	ug/l							QC-2
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.84*		*ug/l*	*5.00*		*97*	*70-130*			*QC-2*
Perylene-d12	*3.66*		*ug/l*	*5.00*		*73*	*50-120*			*QC-2*
Triphenyl phosphate	*4.77*		*ug/l*	*5.00*		*95*	*70-130*			*QC-2*
LCS (W0I0009-BS1)				**Prepared: 09/01/20 Analyzed: 09/04/20**						
Alachlor	5.08	0.10	ug/l	5.00		102	70-130			

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Project Number: EO-432455

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:27

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0009 - EPA 525.2 (Continued)										
LCS (W0I0009-BS1)				**Prepared: 09/01/20 Analyzed: 09/04/20**						
Atrazine	5.80	0.10	ug/l	5.00		116	70-130			
Benzo (a) pyrene	4.65	0.10	ug/l	5.00		93	60-130			
Bis(2-ethylhexyl)adipate	5.34	2.0	ug/l	5.00		107	70-130			
Bis(2-ethylhexyl)phthalate	5.35	2.0	ug/l	5.00		107	70-130			
Bromacil	4.89	0.50	ug/l	5.00		98	70-130			
Butachlor	5.18	0.10	ug/l	5.00		104	70-130			
Captan	4.59	1.0	ug/l	5.00		92	70-130			
Chlorpropham	5.59	0.10	ug/l	5.00		112	70-130			
Cyanazine	5.87	0.10	ug/l	5.00		117	70-130			
Diazinon	4.30	0.10	ug/l	5.00		86	50-120			
Dimethoate	4.40	0.20	ug/l	5.00		88	50-120			
Diphenamid	6.15	0.10	ug/l	5.00		123	70-130			
Disulfoton	4.93	0.10	ug/l	5.00		99	50-120			
EPTC	5.98	0.10	ug/l	5.00		120	70-130			
Metolachlor	5.51	0.10	ug/l	5.00		110	60-130			
Metribuzin	4.70	0.10	ug/l	5.00		94	50-120			
Molinate	5.42	0.10	ug/l	5.00		108	70-130			
Naphthalene	5.14		ug/l	5.00		103	70-130			
Prometon	2.39	0.10	ug/l	5.00		48	15-120			
Prometryn	3.87	0.10	ug/l	5.00		77	30-120			
Simazine	5.38	0.10	ug/l	5.00		108	60-130			
Terbacil	6.17	2.0	ug/l	5.00		123	70-130			
Thiobencarb	5.60	0.10	ug/l	5.00		112	70-130			
Trithion	4.90	0.10	ug/l	5.00		98	70-130			
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.77*		*ug/l*	*5.00*		*95*	*70-130*			
Perylene-d12	*4.86*		*ug/l*	*5.00*		*97*	*50-120*			
Triphenyl phosphate	*5.43*		*ug/l*	*5.00*		*109*	*70-130*			
LCS (W0I0009-BS2)				**Prepared: 09/01/20 Analyzed: 09/04/20**						
Propachlor	5.30		ug/l	5.00		106	70-130			
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.99*		*ug/l*	*5.00*		*100*	*70-130*			
Perylene-d12	*3.92*		*ug/l*	*5.00*		*78*	*50-120*			
Triphenyl phosphate	*5.21*		*ug/l*	*5.00*		*104*	*70-130*			
LCS (W0I0009-BS3)				**Prepared: 09/01/20 Analyzed: 09/08/20**						
Atrazine	5.74	0.10	ug/l	5.00		115	70-130			QC-2
Molinate	5.44	0.10	ug/l	5.00		109	70-130			QC-2
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.82*		*ug/l*	*5.00*		*96*	*70-130*			*QC-2*
Perylene-d12	*4.79*		*ug/l*	*5.00*		*96*	*50-120*			*QC-2*

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Project Number: EO-432455

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:27

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0009 - EPA 525.2 (Continued)										
LCS (W0I0009-BS3)				**Prepared: 09/01/20**	**Analyzed: 09/08/20**					
Surrogate(s)										
Triphenyl phosphate	*5.43*		*ug/l*	*5.00*		*109*	*70-130*			QC-2
LCS Dup (W0I0009-BSD1)				**Prepared: 09/01/20**	**Analyzed: 09/04/20**					
Alachlor	4.58	0.10	ug/l	5.00		92	70-130	11	30	
Atrazine	5.68	0.10	ug/l	5.00		114	70-130	2	30	
Benzo (a) pyrene	3.82	0.10	ug/l	5.00		76	60-130	20	30	
Bis(2-ethylhexyl)adipate	5.14	2.0	ug/l	5.00		103	70-130	4	30	
Bis(2-ethylhexyl)phthalate	5.30	2.0	ug/l	5.00		106	70-130	0.9	30	
Bromacil	5.08	0.50	ug/l	5.00		102	70-130	4	30	
Butachlor	4.69	0.10	ug/l	5.00		94	70-130	10	30	
Captan	2.92	1.0	ug/l	5.00		58	70-130	45	30	BS-04
Chlorpropham	5.52	0.10	ug/l	5.00		110	70-130	1	30	
Cyanazine	2.49	0.10	ug/l	5.00		50	70-130	81	30	BS-04
Diazinon	3.94	0.10	ug/l	5.00		79	50-120	9	30	
Dimethoate	2.47	0.20	ug/l	5.00		49	50-120	56	30	BS-04
Diphenamid	6.17	0.10	ug/l	5.00		123	70-130	0.4	30	
Disulfoton	4.53	0.10	ug/l	5.00		91	50-120	9	30	
EPTC	5.84	0.10	ug/l	5.00		117	70-130	2	30	
Metolachlor	5.50	0.10	ug/l	5.00		110	60-130	0.2	30	
Metribuzin	4.29	0.10	ug/l	5.00		86	50-120	9	30	
Molinate	5.27	0.10	ug/l	5.00		105	70-130	3	30	
Naphthalene	5.00		ug/l	5.00		100	70-130	3	30	
Prometon	1.96	0.10	ug/l	5.00		39	15-120	20	30	
Prometryn	4.00	0.10	ug/l	5.00		80	30-120	3	30	
Simazine	5.26	0.10	ug/l	5.00		105	60-130	2	30	
Terbacil	0.425	2.0	ug/l	5.00		8	70-130	174	30	BS-04
Thiobencarb	5.57	0.10	ug/l	5.00		111	70-130	0.5	30	
Trithion	3.07	0.10	ug/l	5.00		61	70-130	46	30	BS-04
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.84*		*ug/l*	*5.00*		*97*	*70-130*			
Perylene-d12	*3.88*		*ug/l*	*5.00*		*78*	*50-120*			
Triphenyl phosphate	*5.56*		*ug/l*	*5.00*		*111*	*70-130*			
LCS Dup (W0I0009-BSD2)				**Prepared: 09/01/20**	**Analyzed: 09/04/20**					
Propachlor	4.99		ug/l	5.00		100	70-130	6	30	
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.88*		*ug/l*	*5.00*		*98*	*70-130*			
Perylene-d12	*4.51*		*ug/l*	*5.00*		*90*	*50-120*			
Triphenyl phosphate	*4.70*		*ug/l*	*5.00*		*94*	*70-130*			
LCS Dup (W0I0009-BSD3)				**Prepared: 09/01/20**	**Analyzed: 09/08/20**					
Atrazine	5.70	0.10	ug/l	5.00		114	70-130	0.8	30	QC-2

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Project Number: EO-432455

Project Manager: Ranjit Clarke

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Quality Control Results (Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0009 - EPA 525.2 (Continued)										
LCS Dup (W0I0009-BSD3)				**Prepared: 09/01/20 Analyzed: 09/08/20**						
Molinate	5.31	0.10	ug/l	5.00		106	70-130	2	30	QC-2
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.76*		*ug/l*	*5.00*		*95*	*70-130*			QC-2
Perylene-d12	*4.21*		*ug/l*	*5.00*		*84*	*50-120*			QC-2
Triphenyl phosphate	*5.64*		*ug/l*	*5.00*		*113*	*70-130*			QC-2

Quality Control Results (Continued)

Volatile Organics by P&T and GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1345 - EPA 524.3										
Blank (W0H1345-BLK1)				**Prepared & Analyzed: 08/25/20**						
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l							
1,2-Dibromoethane (EDB)	ND	0.020	ug/l							
LCS (W0H1345-BS1)				**Prepared & Analyzed: 08/25/20**						
1,2-Dibromo-3-chloropropane	0.0616	0.010	ug/l	0.0500		123	70-130			
1,2-Dibromoethane (EDB)	0.0536	0.020	ug/l	0.0500		107	70-130			
LCS Dup (W0H1345-BSD1)				**Prepared & Analyzed: 08/25/20**						
1,2-Dibromo-3-chloropropane	0.0510	0.010	ug/l	0.0500		102	70-130	19	30	
1,2-Dibromoethane (EDB)	0.0501	0.020	ug/l	0.0500		100	70-130	7	30	
Duplicate (W0H1345-DUP1)	**Source: 0H20067-07**			**Prepared & Analyzed: 08/25/20**						
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l		ND				30	
1,2-Dibromoethane (EDB)	ND	0.020	ug/l		ND				30	

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Project Number: EO-432455

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:27

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.
BS-H	The recovery of this analyte in the BS/LCS was over the control limit. Sample result is suspect.
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-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QC-2	This QC sample was reanalyzed to complement samples that require re-analysis on different date. See analysis date.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.
S-04	The surrogate recovery for this sample is outside of established control limits due to possible sample matrix effect.
%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.

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931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

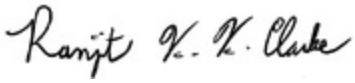
Lab Job Number: 432461
Report Level: II
Report Date: 09/03/2020

Analytical Report *prepared for:*

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Project: MALIBU - Annual - SNMP MOU

Authorized for release by:



Ranjit K Clarke, Project 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, CDC ELITE Member

ENTHALPY ANALYTICAL

Sample Summary

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #:	432461
Project No:	MALIBU
Location:	Annual - SNMP MOU
Date Received:	08/19/20

Sample ID	Lab ID	Collected	Matrix
SMBRP-13	432461-001	08/19/20 11:45	Water
CCPE	432461-002	08/19/20 12:15	Water
MCWP-MW06	432461-003	08/19/20 09:05	Water

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: 432461		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:	Kbrtalik@rinconconsultants.com	P.O. #:	20-09665
Address:	180 N. Ashwood Ave.	Address:	
	Ventura, CA 93003		
Phone:	(805)	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	8/19/20	11:45	W			X	X	X	X	X		
~~MCWP-MW10~~		~~12:15~~				~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		MC
CCPE	8/19/20	12:15	W			X	X	X	X	X		
~~MBGMW-9~~						~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		MC
~~SMBRP-7B~~						~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		MC
~~MCWP-MW05~~										~~X~~	~~X~~	MC
MCWP-MW06	8/19/20	0905	W							X	X	

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Michelle Carter	Rincon Consultants	8/19/20 1320
1 Received By:		JAIRO A	EA	8/19/2020 1320
2 Relinquished By:		JAIRO A	EA	8/19/2020 1513
2 Received By:		Elizabeth Raimon	EA	8/19/20 15:13
3 Relinquished By:				
3 Received By:				

1.2/4.4

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon

Project: Malibu- Annual

Date Received: 08/19/20

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: 4.6 #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: 1.2 #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: 08/19/20

ENTHALPY ANALYTICAL

Analysis Results for 432461

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #: 432461
Project No: MALIBU
Location: Annual - SNMP MOU
Date Received: 08/19/20

Sample ID: SMBRP-13 **Lab ID: 432461-001** **Collected: 08/19/20 11:45**
Matrix: Water

432461-001 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	0.18	10	251348	08/20/20 10:48	08/20/20 10:48	RKV
Nitrogen, Nitrate	ND		mg/L	1.0	0.45	10	251348	08/20/20 10:48	08/20/20 10:48	RKV
Nitrogen, Nitrate/Nitrite	ND		mg/L	1.0		10	251348	08/20/20 10:48	08/20/20 10:48	RKV
Method: EPA 350.1 Prep Method: METHOD										
Ammonia-N	ND		mg/L	0.10	0.010	1	251769	08/26/20	08/27/20	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.18**		mg/L			1	251809	08/28/20	08/28/20	SLL
Method: SM 4500-NH3-G										
Nitrogen, Total Kjeldahl	**0.18**	J	mg/L	0.40	0.030	1	251387	08/20/20	08/20/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.48**		mg/L	0.020	0.010	1	251607	08/26/20	08/26/20	SGC
Method: SM 9223Bb										
Fecal Coliform	**31**		MPN/100ml	1.0		1	251328	08/19/20 16:25	08/20/20 13:15	CCO
Coliform, Total	**>2,400**		MPN/100ml	1.0		1	251328	08/19/20 16:25	08/20/20 13:15	CCO
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**1,900**		mg/L	20		2	251597	08/24/20	08/24/20	ATP

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432461

Sample ID: CCPE	Lab ID: 432461-002	Collected: 08/19/20 12:15
	Matrix: Water	

432461-002 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	0.18	10	251348	08/20/20 11:13	08/20/20 11:13	RKV
Nitrogen, Nitrate	**1.3**		mg/L	1.0	0.45	10	251348	08/20/20 11:13	08/20/20 11:13	RKV
Nitrogen, Nitrate/Nitrite	**1.3**		mg/L	1.0		10	251348	08/20/20 11:13	08/20/20 11:13	RKV
Method: EPA 350.1 Prep Method: METHOD										
Ammonia-N	**0.051**	J	mg/L	0.10	0.010	1	251769	08/26/20	08/27/20	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.23**		mg/L			1	251809	08/28/20	08/28/20	SLL
Method: SM 4500-NH3-G										
Nitrogen, Total Kjeldahl	**0.28**	J	mg/L	0.40	0.030	1	251387	08/20/20	08/20/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.13**		mg/L	0.020	0.010	1	251607	08/26/20	08/26/20	SGC
Method: SM 9223Bb										
Fecal Coliform	**1.0**		MPN/100ml	1.0		1	251328	08/19/20 16:25	08/20/20 13:15	CCO
Coliform, Total	**1,600**		MPN/100ml	1.0		1	251328	08/19/20 16:25	08/20/20 13:15	CCO
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**3,800**		mg/L	20		2	251597	08/24/20	08/24/20	ATP

Sample ID: MCWP-MW06	Lab ID: 432461-003	Collected: 08/19/20 09:05
	Matrix: Water	

432461-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrate	**1.1**		mg/L	0.10	0.05	1	251330	08/20/20 13:11	08/20/20 13:11	RKV
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**1,000**		mg/L	20		2	251597	08/24/20	08/24/20	ATP

> 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:**	**QC882024**	**Batch:**	**251330**
Matrix:	**Drinking Water**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC882024 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Nitrate	ND		mg/L	0.10	0.05	08/19/20 23:27	08/19/20 23:27

Type:	**Lab Control Sample**	**Lab ID:**	**QC882025**	**Batch:**	**251330**
Matrix:	**Drinking Water**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC882025 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Nitrate	8.926	9.030	mg/L	99%		90-110

Type:	**Matrix Spike**	**Lab ID:**	**QC882026**	**Batch:**	**251330**
Matrix (Source ID):	**Drinking Water (432439-001)**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC882026 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Nitrate	12.46	3.957	9.030	mg/L	94%		80-120	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC882027**	**Batch:**	**251330**
Matrix (Source ID):	**Drinking Water (432439-001)**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC882027 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Nitrate	12.50	3.957	9.030	mg/L	95%		80-120	0	20	1

Type:	**Matrix Spike**	**Lab ID:**	**QC882368**	**Batch:**	**251330**
Matrix (Source ID):	**Drinking Water (432548-001)**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC882368 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Nitrate	25.76	17.00	9.030	mg/L	97%		80-120	10

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC882369**	**Batch:**	**251330**
Matrix (Source ID):	**Drinking Water (432548-001)**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC882369 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Nitrate	24.73	17.00	9.030	mg/L	86%		80-120	4	20	10

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID: QC882204**	**Batch: 251348**
Matrix: Water	**Method: EPA 300.0**	**Prep Method: METHOD**

QC882204 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	08/19/20 22:59	08/19/20 22:59
Nitrogen, Nitrate	ND		mg/L	0.10	0.05	08/19/20 22:59	08/19/20 22:59
Nitrogen, Nitrate/Nitrite	ND		mg/L	0.10		08/19/20 22:59	08/19/20 22:59

Type: Lab Control Sample	**Lab ID: QC882205**	**Batch: 251348**
Matrix: Water	**Method: EPA 300.0**	**Prep Method: METHOD**

QC882205 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Nitrite	9.626	9.150	mg/L	105%		90-110
Nitrogen, Nitrate	9.561	9.030	mg/L	106%		90-110

Type: Matrix Spike	**Lab ID: QC882206**	**Batch: 251348**
Matrix (Source ID): Water (432451-002)	**Method: EPA 300.0**	**Prep Method: METHOD**

QC882206 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Nitrite	9.441	ND	9.150	mg/L	103%		80-120	1
Nitrogen, Nitrate	9.146	0.07000	9.030	mg/L	101%		80-120	1

Type: Matrix Spike Duplicate	**Lab ID: QC882207**	**Batch: 251348**
Matrix (Source ID): Water (432451-002)	**Method: EPA 300.0**	**Prep Method: METHOD**

QC882207 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Nitrite	9.522	ND	9.150	mg/L	104%		80-120	1	20	1
Nitrogen, Nitrate	9.279	0.07000	9.030	mg/L	102%		80-120	1	20	1

Type: Blank	**Lab ID: QC882187**	**Batch: 251387**
Matrix: Water	**Method: SM 4500-NH3-G**	

QC882187 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Total Kjeldahl	ND		mg/L	0.20	0.015	08/20/20	08/20/20

Type: Lab Control Sample	**Lab ID: QC882188**	**Batch: 251387**
Matrix: Water	**Method: SM 4500-NH3-G**	

QC882188 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Total Kjeldahl	2.330	2.500	mg/L	93%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC882189**	**Batch:**	**251387**
Matrix (Source ID):	**Water (432384-001)**	**Method:**	**SM 4500-NH3-G**	**Prep Method:**	**METHOD**

QC882189 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Total Kjeldahl	25.30	13.90	12.50	mg/L	91%		80-120	13

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC882190**	**Batch:**	**251387**
Matrix (Source ID):	**Water (432384-001)**	**Method:**	**SM 4500-NH3-G**	**Prep Method:**	**METHOD**

QC882190 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Total Kjeldahl	25.20	13.90	12.50	mg/L	90%		80-120	0	20	13

Type:	**Blank**	**Lab ID:**	**QC882828**	**Batch:**	**251597**
Matrix:	**Water**	**Method:**	**SM2540C**	**Prep Method:**	**METHOD**

QC882828 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Dissolved Solids	ND		mg/L	10		08/24/20	08/24/20

Type:	**Lab Control Sample**	**Lab ID:**	**QC882829**	**Batch:**	**251597**
Matrix:	**Water**	**Method:**	**SM2540C**	**Prep Method:**	**METHOD**

QC882829 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Dissolved Solids	101.0	100.0	mg/L	101%		90-110

Type:	**Sample Duplicate**	**Lab ID:**	**QC882830**	**Batch:**	**251597**
Matrix (Source ID):	**Drinking Water (432470-024)**	**Method:**	**SM2540C**	**Prep Method:**	**METHOD**

QC882830 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Dissolved Solids	330.0	328.0	mg/L		1	5	2

Type:	**Blank**	**Lab ID:**	**QC882867**	**Batch:**	**251607**
Matrix:	**Sea Water**	**Method:**	**SM 4500-P-B5-E**		

QC882867 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Phosphorus	ND		mg/L	0.020	0.010	08/26/20	08/26/20

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	**Lab ID:** QC882868	**Batch:** 251607
Matrix: Sea Water	**Method:** SM 4500-P-B5-E	

QC882868 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phosphorus	0.4260	0.4000	mg/L	107%		80-120

Type: Matrix Spike	**Lab ID:** QC882869	**Batch:** 251607
Matrix (Source ID): Water (432570-001)	**Method:** SM 4500-P-B5-E	

QC882869 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phosphorus	0.6170	0.2670	0.4000	mg/L	88%		75-125	1

Type: Matrix Spike Duplicate	**Lab ID:** QC882870	**Batch:** 251607
Matrix (Source ID): Water (432570-001)	**Method:** SM 4500-P-B5-E	

QC882870 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phosphorus	0.6990	0.2670	0.4000	mg/L	108%		75-125	12	20	1

Type: Blank	**Lab ID:** QC883231	**Batch:** 251769
Matrix: Sea Water	**Method:** EPA 350.1	**Prep Method:** METHOD

QC883231 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Ammonia-N	ND		mg/L	0.10	0.010	08/26/20	08/27/20

Type: Lab Control Sample	**Lab ID:** QC883232	**Batch:** 251769
Matrix: Sea Water	**Method:** EPA 350.1	**Prep Method:** METHOD

QC883232 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Ammonia-N	2.513	2.500	mg/L	101%		80-120

Type: Matrix Spike	**Lab ID:** QC883233	**Batch:** 251769
Matrix (Source ID): Sea Water (432515-001)	**Method:** EPA 350.1	

QC883233 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Ammonia-N	2.570	ND	2.500	mg/L	103%		80-120	1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC883234**	**Batch:**	**251769**
Matrix (Source ID):	**Sea Water (432515-001)**	**Method:**	**EPA 350.1**		

QC883234 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Ammonia-N	2.560	ND	2.500	mg/L	102%		80-120	0	20	1

ND Not Detected

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

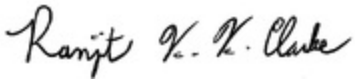
Lab Job Number:	432518
Report Level:	II
Report Date:	09/24/2020

Analytical Report *prepared for:*

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Project: MALIBU - Annual - Long Term GW - Partial Report (EPA 1694 pending)

Authorized for release by:



Ranjit K Clarke, Project 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, CDC ELITE Member

ENTHALPY ANALYTICAL

Sample Summary

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #:	432518
Project No:	MALIBU
Location:	Annual - Long Term GW - Partial Report (EPA 1694 pending)
Date Received:	08/20/20

Sample ID	Lab ID	Collected	Matrix
MCWP-MW04D	432518-001	08/20/20 11:45	Water

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
931 W. Barkley Ave., Orange, CA 92868	Lab No: 432518	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:	
Email:	Kbrtalik@rinconconsultants.com	P.O. #:	20-09665
Address:	180 N. Ashwood Ave.	Address:	
	Ventura, CA 93003		
Phone:	(805) 644-4455	Global ID:	
Cell:		Sampled By:	

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 608 LL; EPA 625 LL	EPA 524.2 VOCs; EPA 624 VOCs	Test Instructions / Comments
~~LAMW-5S~~						X	X	X	X	X	X	X	X	X	X	MC
~~SMBRP-9~~						X	X	X	X	X	X	X	X	X	X	MC
~~SMBRP-11~~						X	X	X	X	X	X	X	X	X	X	MC
~~SMBRP-12~~						X	X	X	X	X	X	X	X	X	X	MC
~~MCWP-MW04S~~						X	X	X	X	X	X	X	X	X	X	MC
MCWP-MW04D	8/20/20	1145	W			X	X	X	X	X	X	X	X	X	X	
~~MCWP-MW07S~~						X	X	X	X	X	X	X	X	X	X	MC
~~MCWP-MW07D~~						X	X	X	X	X	X	X	X	X	X	MC
~~MCWP-MW09~~						X	X	X	X	X	X	X	X	X	X	MC

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Michelle Carter	Rincon Consultants	8/20/20 / 1300
1 Received By:		JAIRO A	EA	8/20/20 1300
2 Relinquished By:		JAIRO A	EA	8/20/20 1800
2 Received By:		Christine C.	EA	8/20/20 1500
3 Relinquished By:				
3 Received By:				

0-6 / 3.7 0-2 / 3.3

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
931 W. Barkley Ave., Orange, CA 92868	Lab No:	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 c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**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

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants	Name:	Malibu - Annual
Report To:	Kiernan Brtalik	Number:	
Email:	Kbrtalik@rinconconsultants.com	P.O. #:	20-09665
Address:	180 N. Ashwood Ave.	Address:	
	Ventura, CA 93003		
Phone:	(805) 644-4455	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	Test Instructions / Comments
~~LAMW-5S~~						X	X	MC
~~SMBRP-9~~						X	X	MC
~~SMBRP-11~~						X	X	MC
~~SMBRP-12~~						X	X	MC
~~MCWP-MW04S~~						X	X	MC
MCWP-MW04D	8/20/20	1145	W			X	X	
~~MCWP-MW07S~~						X	X	MC
~~MCWP-MW07D~~						X	X	MC
~~MCWP-MW09~~						X	X	MC

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Michelle Carter	Rincon Consultants	8/20/20 / 1300
[1] Received By:		JAIME A	EA	8/20/2020 1300
[2] Relinquished By:		JAIME A	EA	8/20/2020 1500
[2] Received By:		Christine C.	EA	8/20/20
[3] Relinquished By:				
[3] Received By:				

0.0/3.7 0.9/3.3

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Project: _____

Date Received: 8/20/20 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: 3.7 #2: 3.3 #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: 0.6 #2: 0.9 #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: 8/20/20

ENTHALPY ANALYTICAL

Analysis Results for 432518

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #: 432518
Project No: MALIBU
Location: Annual - Long Term GW - Partial Report (EPA 1694 pending)
Date Received: 08/20/20

Sample ID: MCWP-MW04D **Lab ID: 432518-001** **Collected: 08/20/20 11:45**
Matrix: Water

432518-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: ALCH 4022 Prep Method: EPA 200.8										
Chromium Trivalent	ND		ug/L	1.0		1	251441	08/21/20	09/23/20	TTR
Method: EPA 200.7 Prep Method: EPA 200.7										
Boron	**0.87**		mg/L	0.050	0.030	1	251536	08/24/20	08/24/20	SBW
Calcium	**180**		mg/L	0.10	0.093	1	251948	08/31/20	08/31/20	SBW
Iron	ND		mg/L	0.020	0.019	1	251536	08/24/20	08/24/20	SBW
Magnesium	**97**		mg/L	0.10	0.048	1	251446	08/21/20	08/21/20	SBW
Manganese	**0.0071**	J	mg/L	0.010	0.0030	1	251446	08/21/20	08/21/20	SBW
Potassium	**2.9**		mg/L	0.50	0.18	1	251446	08/21/20	08/21/20	SBW
Sodium	**190**		mg/L	0.50	0.061	1	251446	08/21/20	08/21/20	SBW
Method: EPA 200.8 Prep Method: EPA 200.8										
Aluminum	**21**	J	ug/L	50	11	5	252120	09/02/20	09/03/20	JDB
Antimony	**0.081**	J	ug/L	0.50	0.060	1	251441	08/21/20	08/21/20	JCP
Arsenic	**1.2**	J	ug/L	2.0	0.38	1	251441	08/21/20	08/21/20	JCP
Barium	**30**		ug/L	5.0	0.28	1	251441	08/21/20	08/21/20	JCP
Beryllium	ND		ug/L	0.50	0.050	1	251441	08/21/20	08/21/20	JCP
Cadmium	**0.20**	J	ug/L	0.20	0.033	1	251441	08/21/20	08/21/20	JCP
Chromium	ND		ug/L	2.0	0.96	2	251441	08/21/20	08/31/20	JCP
Copper	**1.8**		ug/L	0.50	0.050	1	251441	08/21/20	08/21/20	JCP
Lead	ND		ug/L	0.50	0.044	1	251441	08/21/20	08/21/20	JCP
Nickel	**6.6**		ug/L	1.0	0.20	1	251441	08/21/20	08/21/20	JCP
Selenium	**1.8**	J	ug/L	2.0	0.27	1	251441	08/21/20	08/21/20	JCP
Silver	ND		ug/L	0.20	0.025	1	251441	08/21/20	08/21/20	JCP
Thallium	ND		ug/L	1.0	0.23	1	251441	08/21/20	08/21/20	JCP
Zinc	ND		ug/L	10	4.2	1	251441	08/21/20	08/21/20	JCP
Method: EPA 245.1 Prep Method: METHOD										
Mercury	ND		ug/L	0.20	0.094	1	251499	08/22/20	08/22/20	JDB
Method: EPA 300.0 Prep Method: METHOD										
Chloride	**260**		mg/L	10	1.4	10	251448	08/21/20 12:00	08/21/20 23:59	RKV
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	1	251448	08/21/20 16:12	08/21/20 16:12	RKV
Nitrogen, Nitrate	**1.4**		mg/L	0.10	0.05	1	251448	08/21/20 16:12	08/21/20 16:12	RKV

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432518

432518-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Sulfate	**550**		mg/L	10	2.5	10	251448	08/21/20 12:00	08/21/20 23:59	RKV
Nitrogen, Nitrate/Nitrite	**1.4**		mg/L	0.10		1	251448	08/21/20 16:12	08/21/20 16:12	RKV
Method: EPA 314.0 Prep Method: METHOD										
Perchlorate	ND		ug/L	4.0	1.1	2	251376	08/20/20	08/20/20	RKV
Method: EPA 524.2 Prep Method: METHOD										
Acrolein	ND		ug/L	5.0	3.3	1	251445	08/21/20	08/21/20	LYZ
Acrylonitrile	ND		ug/L	2.0	0.8	1	251445	08/21/20	08/21/20	LYZ
1,1-Dichloroethene	ND		ug/L	0.50	0.30	1	251445	08/21/20	08/21/20	LYZ
Benzene	ND		ug/L	0.50	0.18	1	251445	08/21/20	08/21/20	LYZ
Trichloroethene	ND		ug/L	0.50	0.39	1	251445	08/21/20	08/21/20	LYZ
Toluene	ND		ug/L	0.50	0.24	1	251445	08/21/20	08/21/20	LYZ
Chlorobenzene	ND		ug/L	0.50	0.19	1	251445	08/21/20	08/21/20	LYZ
Chloromethane	ND		ug/L	0.50	0.27	1	251445	08/21/20	08/21/20	LYZ
Vinyl Chloride	ND		ug/L	0.50	0.18	1	251445	08/21/20	08/21/20	LYZ
Bromomethane	ND		ug/L	0.68	0.68	1	251445	08/21/20	08/21/20	LYZ
Chloroethane	ND		ug/L	0.50	0.45	1	251445	08/21/20	08/21/20	LYZ
Trichlorofluoromethane	ND		ug/L	0.50	0.25	1	251445	08/21/20	08/21/20	LYZ
Freon 113	ND		ug/L	0.50	0.35	1	251445	08/21/20	08/21/20	LYZ
Methylene Chloride	**0.88**	B	ug/L	0.50	0.16	1	251445	08/21/20	08/21/20	LYZ
MTBE	ND		ug/L	0.50	0.19	1	251445	08/21/20	08/21/20	LYZ
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.33	1	251445	08/21/20	08/21/20	LYZ
1,1-Dichloroethane	ND		ug/L	0.50	0.32	1	251445	08/21/20	08/21/20	LYZ
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.27	1	251445	08/21/20	08/21/20	LYZ
Chloroform	ND		ug/L	0.50	0.18	1	251445	08/21/20	08/21/20	LYZ
1,1,1-Trichloroethane	ND		ug/L	0.50	0.38	1	251445	08/21/20	08/21/20	LYZ
Carbon Tetrachloride	ND		ug/L	0.50	0.27	1	251445	08/21/20	08/21/20	LYZ
1,2-Dichloroethane	ND		ug/L	0.50	0.20	1	251445	08/21/20	08/21/20	LYZ
1,2-Dichloropropane	ND		ug/L	1.0	0.36	1	251445	08/21/20	08/21/20	LYZ
Bromodichloromethane	ND		ug/L	0.50	0.31	1	251445	08/21/20	08/21/20	LYZ
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.25	1	251445	08/21/20	08/21/20	LYZ
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.23	1	251445	08/21/20	08/21/20	LYZ
1,1,2-Trichloroethane	ND		ug/L	0.50	0.25	1	251445	08/21/20	08/21/20	LYZ
Tetrachloroethene	ND		ug/L	0.50	0.18	1	251445	08/21/20	08/21/20	LYZ
Dibromochloromethane	ND		ug/L	0.50	0.21	1	251445	08/21/20	08/21/20	LYZ
Ethylbenzene	ND		ug/L	0.50	0.21	1	251445	08/21/20	08/21/20	LYZ
m,p-Xylenes	ND		ug/L	1.0	0.45	1	251445	08/21/20	08/21/20	LYZ
Styrene	ND		ug/L	0.50	0.22	1	251445	08/21/20	08/21/20	LYZ
Bromoform	ND		ug/L	0.50	0.20	1	251445	08/21/20	08/21/20	LYZ
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.25	1	251445	08/21/20	08/21/20	LYZ
1,3-Dichlorobenzene	ND		ug/L	0.50	0.34	1	251445	08/21/20	08/21/20	LYZ
1,4-Dichlorobenzene	ND		ug/L	0.50	0.43	1	251445	08/21/20	08/21/20	LYZ
1,2-Dichlorobenzene	ND		ug/L	0.50	0.26	1	251445	08/21/20	08/21/20	LYZ
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.27	1	251445	08/21/20	08/21/20	LYZ
2-Chloroethylvinylether	ND		ug/L	5.0	0.23	1	251445	08/21/20	08/21/20	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432518

432518-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Surrogates				**Limits**						
Bromofluorobenzene	97%		%REC	70-140		1	251445	08/21/20	08/21/20	LYZ
1,2-Dichloroethane-d4	96%		%REC	70-140		1	251445	08/21/20	08/21/20	LYZ
Dibromofluoromethane	103%		%REC	70-140		1	251445	08/21/20	08/21/20	LYZ
Toluene-d8	105%		%REC	70-140		1	251445	08/21/20	08/21/20	LYZ
Method: SM 2150B										
Odor	ND		TON	1.0		1	251525	08/20/20 17:00	08/20/20 17:00	SGC
Method: SM 2330B										
CCPP	ND		SU	1.0		1	251973	08/31/20	08/31/20	SLL
Method: SM 4500-CL-G										
Chlorine, Total Residual	ND	H	mg/L	0.10	0.016	1	251497	08/22/20 10:52	08/22/20 10:52	WWC
Method: SM 4500-CN-E Prep Method: METHOD										
Cyanide	ND		mg/L	0.010	0.0022	1	251800	08/27/20	08/27/20	ATP
Method: SM 4500-F-C										
Fluoride	**0.61**		mg/L	0.10	0.0030	1	251545	08/24/20	08/24/20	NLP
Method: SM 4500-H+ B										
pH	**6.96**	H	SU			1	251523	08/20/20 17:00	08/20/20 17:00	SGC
Temperature	**19.60**	H	deg C	1.00		1	251523	08/20/20 17:00	08/20/20 17:00	SGC
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	251758	08/26/20	08/27/20	ATP
Nitrogen, Total Kjeldahl	**0.28**	J	mg/L	0.40	0.030	1	251908	08/27/20	08/30/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.076**		mg/L	0.020	0.010	1	251694	08/25/20	08/25/20	SGC
Method: SM 5310B										
Total Organic Carbon	**0.58**	J	mg/L	1.0	0.34	1	251992	08/31/20	08/31/20	ATP
Method: SM 9223Bb										
Coliform, Total	**1.0**		MPN/100ml	1.0		1	251414	08/20/20 16:23	08/21/20 13:50	CCO
Coliform, E. Coli	<1.0		MPN/100ml	1.0		1	251414	08/20/20 16:23	08/21/20 13:50	CCO
Fecal Coliform	<1.0		MPN/100ml	1.0		1	251414	08/20/20 16:23	08/21/20 13:50	CCO
Method: SM2120B										
Color	ND		ColorUnits	5		1	251526	08/20/20 17:00	08/20/20 17:00	SGC
Method: SM2130B										
Turbidity	**0.22**		NTU	0.10	0.07	1	251517	08/20/20 17:00	08/20/20 17:00	WWC
Method: SM2320B Prep Method: METHOD										
Bicarbonate	**410**		mg/L	25		5	251611	08/24/20	08/24/20	ATP
Carbonate	ND		mg/L	25		5	251611	08/24/20	08/24/20	ATP
Hydroxide	ND		mg/L	25		5	251611	08/24/20	08/24/20	ATP
Alkalinity, Total as CaCO3	**330**		mg/L	25		5	251611	08/24/20	08/24/20	ATP
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**1,400**		mg/L	20		2	251596	08/24/20	08/25/20	ATP

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 432518

432518-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM2540D Prep Method: METHOD										
Total Suspended Solids	ND		mg/L	0.6		1.1	251561	08/21/20	08/21/20	NLP
Method: SM5540C										
Surfactants (MBAS)	ND		mg/L	0.040	0.027	1	251531	08/21/20 10:00	08/21/20 18:59	NLP

<	Value is less than indicated concentration
B	Contamination found in associated Method Blank
H	Holding time was exceeded
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:** QC882143	**Batch:** 251376
Matrix: Drinking Water	**Method:** EPA 314.0	**Prep Method:** METHOD

QC882143 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Perchlorate	ND		ug/L	2.0	0.53	08/20/20	08/20/20

Type: Lab Control Sample	**Lab ID:** QC882144	**Batch:** 251376
Matrix: Drinking Water	**Method:** EPA 314.0	**Prep Method:** METHOD

QC882144 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Perchlorate	43.91	50.00	ug/L	88%		85-115

Type: Matrix Spike	**Lab ID:** QC882145	**Batch:** 251376
Matrix (Source ID): Drinking Water (432439-001)	**Method:** EPA 314.0	**Prep Method:** METHOD

QC882145 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Perchlorate	48.78	1.165	50.00	ug/L	95%		80-120	1

Type: Matrix Spike Duplicate	**Lab ID:** QC882146	**Batch:** 251376
Matrix (Source ID): Drinking Water (432439-001)	**Method:** EPA 314.0	**Prep Method:** METHOD

QC882146 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Perchlorate	48.30	1.165	50.00	ug/L	94%		80-120	1	15	1

Type: Blank	**Lab ID:** QC882338	**Batch:** 251441
Matrix: Water	**Method:** EPA 200.8	**Prep Method:** EPA 200.8

QC882338 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Antimony	ND		ug/L	0.50	0.060	08/21/20	08/21/20
Arsenic	ND		ug/L	2.0	0.38	08/21/20	08/21/20
Barium	ND		ug/L	5.0	0.28	08/21/20	08/21/20
Beryllium	ND		ug/L	0.50	0.050	08/21/20	08/21/20
Cadmium	ND		ug/L	0.20	0.033	08/21/20	08/21/20
Chromium	ND		ug/L	1.0	0.48	08/21/20	08/31/20
Copper	ND		ug/L	0.50	0.050	08/21/20	08/21/20
Lead	ND		ug/L	0.50	0.044	08/21/20	08/21/20
Nickel	ND		ug/L	1.0	0.20	08/21/20	08/21/20
Selenium	ND		ug/L	2.0	0.27	08/21/20	08/21/20
Silver	ND		ug/L	0.20	0.025	08/21/20	08/21/20
Thallium	ND		ug/L	1.0	0.23	08/21/20	08/21/20
Zinc	ND		ug/L	10	4.2	08/21/20	08/21/20

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	**Lab ID:** QC882339	**Batch:** 251441
Matrix: Water	**Method:** EPA 200.8	**Prep Method:** EPA 200.8

QC882339 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Antimony	49.86	50.00	ug/L	100%		85-115
Arsenic	48.38	50.00	ug/L	97%		85-115
Barium	47.16	50.00	ug/L	94%		85-115
Beryllium	42.70	50.00	ug/L	85%		85-115
Cadmium	50.44	50.00	ug/L	101%		85-115
Chromium	42.44	50.00	ug/L	85%		85-115
Copper	47.23	50.00	ug/L	94%		85-115
Lead	49.21	50.00	ug/L	98%		85-115
Nickel	48.35	50.00	ug/L	97%		85-115
Selenium	46.67	50.00	ug/L	93%		85-115
Silver	49.25	50.00	ug/L	99%		85-115
Thallium	48.75	50.00	ug/L	98%		85-115
Zinc	47.29	50.00	ug/L	95%		85-115

Type: Sample Spike	**Lab ID:** QC882341	**Batch:** 251441
Matrix (Source ID): Water (432497-004)	**Method:** EPA 200.8	**Prep Method:** EPA 200.8

QC882341 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Antimony	49.92	0.2700	50.00	ug/L	99%		70-130	1
Arsenic	49.13	ND	50.00	ug/L	98%		70-130	1
Barium	57.65	11.20	50.00	ug/L	93%		70-130	1
Beryllium	35.70	ND	50.00	ug/L	71%		70-130	1
Cadmium	49.11	0.06800	50.00	ug/L	98%		70-130	1
Chromium	47.01	0.1420	50.00	ug/L	94%		70-130	5
Copper	46.90	0.8590	50.00	ug/L	92%		70-130	1
Lead	49.47	0.1590	50.00	ug/L	99%		70-130	1
Nickel	50.79	2.563	50.00	ug/L	96%		70-130	1
Selenium	45.59	ND	50.00	ug/L	91%		70-130	1
Silver	47.09	ND	50.00	ug/L	94%		70-130	1
Thallium	49.63	ND	50.00	ug/L	99%		70-130	1
Zinc	50.08	ND	50.00	ug/L	100%		70-130	1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC882354		**Batch:** 251445
Matrix: Water	**Method:** EPA 524.2		**Prep Method:** METHOD

QC882354 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Acrolein	ND		ug/L	5.0	3.3	08/21/20	08/21/20
Acrylonitrile	ND		ug/L	2.0	0.8	08/21/20	08/21/20
1,1-Dichloroethene	ND		ug/L	0.50	0.30	08/21/20	08/21/20
Benzene	ND		ug/L	0.50	0.18	08/21/20	08/21/20
Trichloroethene	ND		ug/L	0.50	0.39	08/21/20	08/21/20
Toluene	ND		ug/L	0.50	0.24	08/21/20	08/21/20
Chlorobenzene	ND		ug/L	0.50	0.19	08/21/20	08/21/20
Chloromethane	ND		ug/L	0.50	0.27	08/21/20	08/21/20
Vinyl Chloride	ND		ug/L	0.50	0.18	08/21/20	08/21/20
Bromomethane	ND		ug/L	0.68	0.68	08/21/20	08/21/20
Chloroethane	ND		ug/L	0.50	0.45	08/21/20	08/21/20
Trichlorofluoromethane	ND		ug/L	0.50	0.25	08/21/20	08/21/20
Freon 113	ND		ug/L	0.50	0.35	08/21/20	08/21/20
Methylene Chloride	1.1		ug/L	0.50	0.16	08/21/20	08/21/20
MTBE	ND		ug/L	0.50	0.19	08/21/20	08/21/20
trans-1,2-Dichloroethene	ND		ug/L	0.50	0.33	08/21/20	08/21/20
1,1-Dichloroethane	ND		ug/L	0.50	0.32	08/21/20	08/21/20
cis-1,2-Dichloroethene	ND		ug/L	0.50	0.27	08/21/20	08/21/20
Chloroform	ND		ug/L	0.50	0.18	08/21/20	08/21/20
1,1,1-Trichloroethane	ND		ug/L	0.50	0.38	08/21/20	08/21/20
Carbon Tetrachloride	ND		ug/L	0.50	0.27	08/21/20	08/21/20
1,2-Dichloroethane	ND		ug/L	0.50	0.20	08/21/20	08/21/20
1,2-Dichloropropane	ND		ug/L	1.0	0.36	08/21/20	08/21/20
Bromodichloromethane	ND		ug/L	0.50	0.31	08/21/20	08/21/20
cis-1,3-Dichloropropene	ND		ug/L	0.50	0.25	08/21/20	08/21/20
trans-1,3-Dichloropropene	ND		ug/L	0.50	0.23	08/21/20	08/21/20
1,1,2-Trichloroethane	ND		ug/L	0.50	0.25	08/21/20	08/21/20
Tetrachloroethene	ND		ug/L	0.50	0.18	08/21/20	08/21/20
Dibromochloromethane	ND		ug/L	0.50	0.21	08/21/20	08/21/20
Ethylbenzene	ND		ug/L	0.50	0.21	08/21/20	08/21/20
m,p-Xylenes	ND		ug/L	1.0	0.45	08/21/20	08/21/20
Styrene	ND		ug/L	0.50	0.22	08/21/20	08/21/20
Bromoform	ND		ug/L	0.50	0.20	08/21/20	08/21/20
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.25	08/21/20	08/21/20
1,3-Dichlorobenzene	ND		ug/L	0.50	0.34	08/21/20	08/21/20
1,4-Dichlorobenzene	ND		ug/L	0.50	0.43	08/21/20	08/21/20
1,2-Dichlorobenzene	ND		ug/L	0.50	0.26	08/21/20	08/21/20
1,2,4-Trichlorobenzene	ND		ug/L	0.50	0.27	08/21/20	08/21/20
2-Chloroethylvinylether	ND		ug/L	5.0	0.23	08/21/20	08/21/20
Surrogates				**Limits**			
Bromofluorobenzene	96%		%REC	70-140		08/21/20	08/21/20
1,2-Dichloroethane-d4	95%		%REC	70-140		08/21/20	08/21/20

ENTHALPY ANALYTICAL

Batch QC

QC882354 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Dibromofluoromethane	102%		%REC	70-140		08/21/20	08/21/20
Toluene-d8	104%		%REC	70-140		08/21/20	08/21/20

Type: Lab Control Sample **Lab ID:** QC882355 **Batch:** 251445
Matrix: Water **Method:** EPA 524.2 **Prep Method:** METHOD

QC882355 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1-Dichloroethene	43.04	50.00	ug/L	86%		70-135
Benzene	40.63	50.00	ug/L	81%		70-130
Trichloroethene	49.01	50.00	ug/L	98%		70-130
Toluene	45.90	50.00	ug/L	92%		70-130
Chlorobenzene	48.80	50.00	ug/L	98%		70-130
MTBE	37.96	50.00	ug/L	76%		70-130
Surrogates						
Bromofluorobenzene	48.12	50.00	ug/L	96%		70-140
1,2-Dichloroethane-d4	47.00	50.00	ug/L	94%		70-140
Dibromofluoromethane	52.16	50.00	ug/L	104%		70-140
Toluene-d8	53.11	50.00	ug/L	106%		70-140

Type: Lab Control Sample Duplicate **Lab ID:** QC882356 **Batch:** 251445
Matrix: Water **Method:** EPA 524.2 **Prep Method:** METHOD

QC882356 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
1,1-Dichloroethene	43.01	49.98	ug/L	86%		70-135	0	30
Benzene	41.08	49.98	ug/L	82%		70-130	1	30
Trichloroethene	48.96	49.98	ug/L	98%		70-130	0	30
Toluene	45.96	49.98	ug/L	92%		70-130	0	30
Chlorobenzene	49.48	49.98	ug/L	99%		70-130	1	30
MTBE	38.77	49.98	ug/L	78%		70-130	2	30
Surrogates								
Bromofluorobenzene	47.45	50.00	ug/L	95%		70-140		
1,2-Dichloroethane-d4	47.97	50.00	ug/L	96%		70-140		
Dibromofluoromethane	53.10	50.00	ug/L	106%		70-140		
Toluene-d8	52.70	50.00	ug/L	105%		70-140		

Type: Blank **Lab ID:** QC882357 **Batch:** 251446
Matrix: Water **Method:** EPA 200.7 **Prep Method:** EPA 200.7

QC882357 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Magnesium	ND		mg/L	0.10	0.048	08/21/20	08/21/20
Manganese	ND		mg/L	0.010	0.0030	08/21/20	08/21/20
Potassium	ND		mg/L	0.50	0.18	08/21/20	08/21/20
Sodium	ND		mg/L	0.50	0.061	08/21/20	08/21/20

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Batch QC

Type: Lab Control Sample	Lab ID: QC882358	Batch: 251446
Matrix: Water	Method: EPA 200.7	Prep Method: EPA 200.7

QC882358 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Magnesium	20.13	20.00	mg/L	101%		85-115
Manganese	2.039	2.000	mg/L	102%		85-115
Potassium	38.75	38.00	mg/L	102%		85-115
Sodium	20.51	20.00	mg/L	103%		85-115

Type: Sample Spike	Lab ID: QC882360	Batch: 251446
Matrix (Source ID): Water (432518-001)	Method: EPA 200.7	Prep Method: EPA 200.7

QC882360 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Magnesium	118.3	97.17	20.00	mg/L	105%	NM	75-125	1
Manganese	1.013	0.007060	1.000	mg/L	101%		75-125	1
Potassium	33.65	2.870	29.00	mg/L	106%		75-125	1
Sodium	212.8	192.9	20.00	mg/L	99%	NM	75-125	1

Type: Blank	Lab ID: QC882387	Batch: 251448
Matrix: Water	Method: EPA 300.0	Prep Method: METHOD

QC882387 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Chloride	ND		mg/L	1.0	0.14	08/21/20 12:00	08/21/20 23:59
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	08/21/20 15:27	08/21/20 15:27
Nitrogen, Nitrate	ND		mg/L	0.10	0.05	08/21/20 15:27	08/21/20 15:27
Sulfate	ND		mg/L	1.0	0.25	08/21/20 12:00	08/21/20 23:59
Nitrogen, Nitrate/Nitrite	ND		mg/L	0.10		08/21/20 15:27	08/21/20 15:27

Type: Lab Control Sample	Lab ID: QC882388	Batch: 251448
Matrix: Water	Method: EPA 300.0	Prep Method: METHOD

QC882388 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chloride	103.4	100.0	mg/L	103%		90-110
Nitrogen, Nitrite	9.674	9.150	mg/L	106%		90-110
Nitrogen, Nitrate	9.599	9.030	mg/L	106%		90-110
Sulfate	50.13	50.00	mg/L	100%		90-110

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Batch QC

Type:	Matrix Spike	Lab ID:	QC882389	Batch:	251448
Matrix (Source ID):	Water (432551-001)	Method:	EPA 300.0	Prep Method:	METHOD

QC882389 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Chloride	101.3	3.659	100.0	mg/L	98%		80-120	1
Nitrogen, Nitrite	9.574	ND	9.150	mg/L	105%		80-120	1
Nitrogen, Nitrate	9.444	0.3900	9.030	mg/L	100%		80-120	1
Sulfate	57.98	8.867	50.00	mg/L	98%		80-120	1

Type:	Matrix Spike Duplicate	Lab ID:	QC882390	Batch:	251448
Matrix (Source ID):	Water (432551-001)	Method:	EPA 300.0	Prep Method:	METHOD

QC882390 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Chloride	103.1	3.659	100.0	mg/L	99%		80-120	2	20	1
Nitrogen, Nitrite	9.793	ND	9.150	mg/L	107%		80-120	2	20	1
Nitrogen, Nitrate	9.644	0.3900	9.030	mg/L	102%		80-120	2	20	1
Sulfate	59.23	8.867	50.00	mg/L	101%		80-120	2	20	1

Type:	Matrix Spike	Lab ID:	QC882480	Batch:	251448
Matrix (Source ID):	Water (432521-001)	Method:	EPA 300.0	Prep Method:	METHOD

QC882480 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Chloride	627.6	541.8	100.0	mg/L	86%	NM	80-120	10
Nitrogen, Nitrite	9.596	ND	9.150	mg/L	105%		80-120	1
Nitrogen, Nitrate	10.28	0.6530	9.030	mg/L	107%		80-120	1
Sulfate	589.3	558.7	50.00	mg/L	61%	*,NM	80-120	10

Type:	Matrix Spike Duplicate	Lab ID:	QC882481	Batch:	251448
Matrix (Source ID):	Water (432521-001)	Method:	EPA 300.0	Prep Method:	METHOD

QC882481 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Chloride	624.9	541.8	100.0	mg/L	83%	NM	80-120	0	20	10
Nitrogen, Nitrite	9.669	ND	9.150	mg/L	106%		80-120	1	20	1
Nitrogen, Nitrate	10.31	0.6530	9.030	mg/L	107%		80-120	0	20	1
Sulfate	589.3	558.7	50.00	mg/L	61%	*,NM	80-120	0	20	10

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Batch QC

Type: Blank	**Lab ID:** QC882531	**Batch:** 251497
Matrix: Water	**Method:** SM 4500-CL-G	

QC882531 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Chlorine, Total Residual	ND		mg/L	0.10	0.016	08/22/20 10:52	08/22/20 10:52

Type: Lab Control Sample	**Lab ID:** QC882532	**Batch:** 251497
Matrix: Water	**Method:** SM 4500-CL-G	

QC882532 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chlorine, Total Residual	1.034	1.000	mg/L	103%		80-120

Type: Sample Duplicate	**Lab ID:** QC882533	**Batch:** 251497
Matrix (Source ID): Water (432576-001)	**Method:** SM 4500-CL-G	

QC882533 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Chlorine, Total Residual	ND	ND	mg/L			20	1

Type: Blank	**Lab ID:** QC882539	**Batch:** 251499
Matrix: Water	**Method:** EPA 245.1	**Prep Method:** METHOD

QC882539 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Mercury	ND		ug/L	0.20	0.094	08/22/20	08/22/20

Type: Lab Control Sample	**Lab ID:** QC882540	**Batch:** 251499
Matrix: Water	**Method:** EPA 245.1	**Prep Method:** METHOD

QC882540 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Mercury	4.898	5.000	ug/L	98%		80-120

Type: Matrix Spike	**Lab ID:** QC882541	**Batch:** 251499
Matrix (Source ID): Water (432487-001)	**Method:** EPA 245.1	**Prep Method:** METHOD

QC882541 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	5.370	ND	5.000	ug/L	107%		75-125	1

ENTHALPY ANALYTICAL

Batch QC

Type: Matrix Spike Duplicate	Lab ID: QC882542	Batch: 251499
Matrix (Source ID): Water (432487-001)	Method: EPA 245.1	Prep Method: METHOD

QC882542 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	5.472	ND	5.000	ug/L	109%		75-125	2	20	1

Type: Matrix Spike	Lab ID: QC882543	Batch: 251499
Matrix (Source ID): Water (432459-008)	Method: EPA 245.1	Prep Method: METHOD

QC882543 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	4.459	ND	5.000	ug/L	89%		75-125	1

Type: Matrix Spike Duplicate	Lab ID: QC882544	Batch: 251499
Matrix (Source ID): Water (432459-008)	Method: EPA 245.1	Prep Method: METHOD

QC882544 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	4.709	ND	5.000	ug/L	94%		75-125	5	20	1

Type: Sample Duplicate	Lab ID: QC882604	Batch: 251517
Matrix (Source ID): Water (432518-001)	Method: SM2130B	

QC882604 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Turbidity	0.2220	0.2200	NTU		1	20	1

Type: Sample Duplicate	Lab ID: QC882618	Batch: 251523
Matrix (Source ID): Water (432518-001)	Method: SM 4500-H+ B	

QC882618 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
pH	6.990	6.960	SU		0	20	1
Temperature	19.40	19.60	deg C		1	20	1

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Batch QC

Type: Sample Duplicate **Lab ID:** QC882620 **Batch:** 251525
Matrix (Source ID): Water (432518-001) **Method:** SM 2150B

QC882620 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Odor	ND	ND	TON			20	1

Type: Sample Duplicate **Lab ID:** QC882621 **Batch:** 251526
Matrix (Source ID): Water (432518-001) **Method:** SM2120B

QC882621 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Color	ND	ND	ColorUnits			20	1

Type: Blank **Lab ID:** QC882633 **Batch:** 251531
Matrix: Water **Method:** SM5540C

QC882633 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Surfactants (MBAS)	ND		mg/L	0.040	0.027	08/21/20 10:00	08/21/20 18:59

Type: Lab Control Sample **Lab ID:** QC882634 **Batch:** 251531
Matrix: Water **Method:** SM5540C

QC882634 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Surfactants (MBAS)	0.9750	1.000	mg/L	98%		90-110

Type: Matrix Spike **Lab ID:** QC882635 **Batch:** 251531
Matrix (Source ID): Water (432518-001) **Method:** SM5540C

QC882635 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Surfactants (MBAS)	0.9960	ND	1.000	mg/L	97%		80-120	1

Type: Matrix Spike Duplicate **Lab ID:** QC882636 **Batch:** 251531
Matrix (Source ID): Water (432518-001) **Method:** SM5540C

QC882636 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Surfactants (MBAS)	0.9880	ND	1.000	mg/L	96%		80-120	1	20	1

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Batch QC

Type: Blank	**Lab ID:** QC882646	**Batch:** 251536
Matrix: Drinking Water	**Method:** EPA 200.7	**Prep Method:** EPA 200.7

QC882646 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Boron	ND		mg/L	0.050	0.030	08/24/20	08/24/20
Iron	ND		mg/L	0.020	0.019	08/24/20	08/24/20

Type: Lab Control Sample	**Lab ID:** QC882647	**Batch:** 251536
Matrix: Drinking Water	**Method:** EPA 200.7	**Prep Method:** EPA 200.7

QC882647 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Boron	1.769	2.000	mg/L	88%		85-115
Iron	1.969	2.000	mg/L	98%		85-115

Type: Sample Spike	**Lab ID:** QC882648	**Batch:** 251536
Matrix (Source ID): Drinking Water (432514-001)	**Method:** EPA 200.7	**Prep Method:** EPA 200.7

QC882648 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Boron	1.691	0.7055	1.000	mg/L	99%		75-125	1
Iron	1.008	ND	1.000	mg/L	101%		75-125	1

Type: Blank	**Lab ID:** QC882664	**Batch:** 251545
Matrix: Water	**Method:** SM 4500-F-C	

QC882664 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Fluoride	ND		mg/L	0.10	0.0030	08/24/20	08/24/20

Type: Lab Control Sample	**Lab ID:** QC882665	**Batch:** 251545
Matrix: Water	**Method:** SM 4500-F-C	

QC882665 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Fluoride	1.040	1.000	mg/L	104%		80-120

Type: Matrix Spike	**Lab ID:** QC882666	**Batch:** 251545
Matrix (Source ID): Water (432518-001)	**Method:** SM 4500-F-C	

QC882666 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Fluoride	1.650	0.6120	1.000	mg/L	104%		75-125	1

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Batch QC

Type: Matrix Spike Duplicate	**Lab ID:** QC882667	**Batch:** 251545
Matrix (Source ID): Water (432518-001)	**Method:** SM 4500-F-C	

QC882667 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Fluoride	1.650	0.6120	1.000	mg/L	104%		75-125	0	20	1

Type: Blank	**Lab ID:** QC882707	**Batch:** 251561
Matrix: Water	**Method:** SM2540D	**Prep Method:** METHOD

QC882707 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Suspended Solids	ND		mg/L	0.5		08/21/20	08/21/20

Type: Sample Duplicate	**Lab ID:** QC882708	**Batch:** 251561
Matrix (Source ID): Water (432509-001)	**Method:** SM2540D	**Prep Method:** METHOD

QC882708 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Suspended Solids	3,648	3520	mg/L		4	5	40

Type: Blank	**Lab ID:** QC882825	**Batch:** 251596
Matrix: Water	**Method:** SM2540C	**Prep Method:** METHOD

QC882825 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Dissolved Solids	ND		mg/L	10		08/24/20	08/25/20

Type: Lab Control Sample	**Lab ID:** QC882826	**Batch:** 251596
Matrix: Water	**Method:** SM2540C	**Prep Method:** METHOD

QC882826 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Dissolved Solids	99.00	100.0	mg/L	99%		90-110

Type: Sample Duplicate	**Lab ID:** QC882827	**Batch:** 251596
Matrix (Source ID): Water (432498-003)	**Method:** SM2540C	**Prep Method:** METHOD

QC882827 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Dissolved Solids	192.0	190.0	mg/L		1	5	2

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC882882	**Batch:** 251611
Matrix: Drinking Water	**Method:** SM2320B	**Prep Method:** METHOD

QC882882 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Bicarbonate	ND		mg/L	5.0		08/24/20	08/24/20
Carbonate	ND		mg/L	5.0		08/24/20	08/24/20
Hydroxide	ND		mg/L	5.0		08/24/20	08/24/20
Alkalinity, Total as CaCO3	ND		mg/L	5.0		08/24/20	08/24/20

Type: Lab Control Sample	**Lab ID:** QC882883	**Batch:** 251611
Matrix: Drinking Water	**Method:** SM2320B	**Prep Method:** METHOD

QC882883 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Alkalinity, Total as CaCO3	96.24	100.0	mg/L	96%		90-110

Type: Sample Duplicate	**Lab ID:** QC882884	**Batch:** 251611
Matrix (Source ID): Drinking Water (432404-002)	**Method:** SM2320B	**Prep Method:** METHOD

QC882884 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Bicarbonate	337.0	337.0	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	276.3	276.0	mg/L		0	20	2.5

Type: Blank	**Lab ID:** QC883038	**Batch:** 251694
Matrix: Water	**Method:** SM 4500-P-B5-E	

QC883038 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Phosphorus	ND		mg/L	0.020	0.010	08/25/20	08/25/20

Type: Lab Control Sample	**Lab ID:** QC883039	**Batch:** 251694
Matrix: Water	**Method:** SM 4500-P-B5-E	

QC883039 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phosphorus	0.4320	0.4000	mg/L	108%		80-120

Type: Matrix Spike	**Lab ID:** QC883040	**Batch:** 251694
Matrix (Source ID): Water (432521-001)	**Method:** SM 4500-P-B5-E	

QC883040 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phosphorus	0.5480	0.05700	0.4000	mg/L	123%		75-125	1

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Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC883041**	**Batch:**	**251694**
Matrix (Source ID):	**Water (432521-001)**	**Method:**	**SM 4500-P-B5-E**		

QC883041 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phosphorus	0.5130	0.05700	0.4000	mg/L	114%		75-125	7	20	1

Type:	**Blank**	**Lab ID:**	**QC883194**	**Batch:**	**251758**
Matrix:	**Water**	**Method:**	**SM 4500-NH3-G**		

QC883194 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Ammonia-N	ND		mg/L	0.10	0.010	08/26/20	08/27/20

Type:	**Lab Control Sample**	**Lab ID:**	**QC883195**	**Batch:**	**251758**
Matrix:	**Water**	**Method:**	**SM 4500-NH3-G**		

QC883195 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Ammonia-N	2.520	2.500	mg/L	101%		80-120

Type:	**Matrix Spike**	**Lab ID:**	**QC883196**	**Batch:**	**251758**
Matrix (Source ID):	**Water (432518-001)**	**Method:**	**SM 4500-NH3-G**		

QC883196 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Ammonia-N	2.560	ND	2.500	mg/L	102%		80-120	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC883197**	**Batch:**	**251758**
Matrix (Source ID):	**Water (432518-001)**	**Method:**	**SM 4500-NH3-G**		

QC883197 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Ammonia-N	2.560	ND	2.500	mg/L	102%		80-120	0	20	1

Type:	**Blank**	**Lab ID:**	**QC883337**	**Batch:**	**251800**
Matrix:	**Water**	**Method:**	**SM 4500-CN-E**	**Prep Method:**	**METHOD**

QC883337 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Cyanide	ND		mg/L	0.010	0.0022	08/27/20	08/27/20

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	Lab ID: QC883338	Batch: 251800
Matrix: Water	Method: SM 4500-CN-E	Prep Method: METHOD

QC883338 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Cyanide	0.2090	0.2000	mg/L	105%		73-123

Type: Matrix Spike	Lab ID: QC883339	Batch: 251800
Matrix (Source ID): Water (432391-001)	Method: SM 4500-CN-E	Prep Method: METHOD

QC883339 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Cyanide	0.1950	ND	0.2000	mg/L	98%		56-129	1

Type: Matrix Spike Duplicate	Lab ID: QC883340	Batch: 251800
Matrix (Source ID): Water (432391-001)	Method: SM 4500-CN-E	Prep Method: METHOD

QC883340 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Cyanide	0.1950	ND	0.2000	mg/L	98%		56-129	0	37	1

Type: Blank	Lab ID: QC883634	Batch: 251908
Matrix: Water	Method: SM 4500-NH3-G	

QC883634 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Total Kjeldahl	ND		mg/L	0.20	0.015	08/27/20	08/30/20

Type: Lab Control Sample	Lab ID: QC883635	Batch: 251908
Matrix: Water	Method: SM 4500-NH3-G	

QC883635 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Total Kjeldahl	2.618	2.500	mg/L	105%		80-120

Type: Matrix Spike	Lab ID: QC883636	Batch: 251908
Matrix (Source ID): Water (432551-001)	Method: SM 4500-NH3-G	

QC883636 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Total Kjeldahl	12.36	ND	12.50	mg/L	99%		80-120	2.5

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Batch QC

Type: Matrix Spike Duplicate	**Lab ID:** QC883637	**Batch:** 251908
Matrix (Source ID): Water (432551-001)	**Method:** SM 4500-NH3-G	

QC883637 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Total Kjeldahl	13.80	ND	12.50	mg/L	110%		80-120	11	20	2.5

Type: Blank	**Lab ID:** QC883742	**Batch:** 251948
Matrix: Water	**Method:** EPA 200.7	**Prep Method:** EPA 200.7

QC883742 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Calcium	ND		mg/L	0.10	0.093	08/31/20	08/31/20

Type: Lab Control Sample	**Lab ID:** QC883743	**Batch:** 251948
Matrix: Water	**Method:** EPA 200.7	**Prep Method:** EPA 200.7

QC883743 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Calcium	4.106	3.800	mg/L	108%		85-115

Type: Sample Spike	**Lab ID:** QC883744	**Batch:** 251948
Matrix (Source ID): Water (432518-001)	**Method:** EPA 200.7	**Prep Method:** EPA 200.7

QC883744 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Calcium	184.7	180.7	2.900	mg/L	138%	NM	75-125	1

Type: Blank	**Lab ID:** QC883857	**Batch:** 251992
Matrix: Water	**Method:** SM 5310B	

QC883857 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Organic Carbon	ND		mg/L	1.0	0.34	08/31/20	08/31/20

Type: Lab Control Sample	**Lab ID:** QC883858	**Batch:** 251992
Matrix: Water	**Method:** SM 5310B	

QC883858 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	9.685	10.00	mg/L	97%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type: Matrix Spike	Lab ID: QC883859	Batch: 251992
Matrix (Source ID): Water (432518-001)	Method: SM 5310B	

QC883859 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Organic Carbon	16.10	0.5750	20.00	mg/L	78%	*	80-120	2

Type: Matrix Spike Duplicate	Lab ID: QC883860	Batch: 251992
Matrix (Source ID): Water (432518-001)	Method: SM 5310B	

QC883860 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	22.97	0.5750	20.00	mg/L	112%		80-120	35*	20	2

Type: Blank	Lab ID: QC884180	Batch: 252120
Matrix: Water	Method: EPA 200.8	Prep Method: EPA 200.8

QC884180 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Aluminum	ND		ug/L	10	2.2	09/02/20	09/03/20

Type: Lab Control Sample	Lab ID: QC884181	Batch: 252120
Matrix: Water	Method: EPA 200.8	Prep Method: EPA 200.8

QC884181 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Aluminum	49.86	50.00	ug/L	100%		85-115

Type: Sample Spike	Lab ID: QC884182	Batch: 252120
Matrix (Source ID): Water (432965-001)	Method: EPA 200.8	Prep Method: EPA 200.8

QC884182 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Aluminum	65.19	16.78	50.00	ug/L	97%		70-130	1

* Value is outside QC limits
ND Not Detected
NM Not Meaningful: Sample concentration > 4X spike concentration

Laboratory Job Number 432518

Subcontracted Products

AmeriSci

Please Reply To:

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

FACSIMILE TELECOPY TRANSMISSION

To:	Project Manager Enthalpy Analytical	**From:**	Lateef McIntosh
		AmeriSci Job #:	920081672
Fax #:		**Subject:**	Water (waste) 5 day Results
		Client Project:	EO-432518
Email:	incomingreports@enthalpy.com,Ranjit.clarke@enthalpy.com		

Date: Thursday, August 27, 2020
Time: 13:03:05
Comments:

Number of Pages: 3 (including cover sheet)

CONFIDENTIALITY NOTICE: Unless otherwise indicated, the information contained in this communication is confidential information intended for use of the individual named above. If the reader of this communication is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is prohibited. If you have received this communication in error, please immediately notify the sender by telephone and return the original message to the above address via the US Postal Service at our expense. Samples are disposed of in 60 days or unless otherwise instructed by the protocol or special instructions in writing. Thank you.

AmeriSci Job #: **920081672**
Client Name: Enthalpy Analytical

Table I
Summary of Transmission Electron Microscopy (TEM) Results for Asbestos (Water)

EO-432518

AmeriSci Sample #	Client Sample No./Location	Liquid Filtered (liters)	Temp (Celcius)	Structures Detected* (total)	Structures Detected* (>10 µm)	Analytical Sensitivity (MF/L)	Asbestos Conc (total) (MF/L)	Asbestos Conc (>10 µm) (MF/L)	Asbestos Type
01	432518-001 MCWP-MW04D	0.02	3	NSD	NSD	0.17	<0.17	<0.17	----

*fiber criteria (>=0.5 microns, 5:1 aspect ratio); NAD/NSD = no asbestos detected, NA = not analyzed, MF/L = million fibers per liter.

NOTE: Drinking water analysis by EPA-600/4-83-043 (100.1), waste water by EPA-600/4-80-005. Analytical sensitivity calculated as though 1 fiber had been detected on the TEM GRID area analyzed. Samples are refrigerated upon receipt when necessary and filtered within four hours.

Reviewed By: _____ Analyzed By: _____ Date: 8/26/2020
Lateef McIntosh

9200816072

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
AmeriSci
24416 S. Main Street
Suite 308
Carson, CA 90745
ATTN: Taylor Brule
PO #: 1056098

Enthalpy Order: EO-432518
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:

EPA 100.1

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
MCWP-MW04D	20-AUG-2020 11:45	432518-001	1	Water	Asbestos	EPA 100.1

Notes:	Relinquished By:	Received By:
	Saul Ramos	RJ 8/21/20
	Date: 8/21/20 1545	Date: 1545 3°C
	Date:	Date:
	Date:	Date:

QC Sample Assignment for AmeriSci Job# 920081672

Analyst/Date: _____ Entered by/Date: _____

Original Sample	Client Sample No	QA Number	Grid	Box

Laboratory Job Number 432518

Subcontracted Products

Eurofins CalScience

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-36546-1
Client Project/Site: 432518

For:
Enthalpy Analytical LLC
931 W. Barkley Ave
Orange, California 92868

Attn: Ranjit Clarke

Authorized for release by:
8/31/2020 6:05:20 PM
Sheila Luu, Project Mgmt. Assistant
Sheila.Luu@eurofinset.com

Designee for

Xuan Dang, Project Manager I
(714)895-5494
Xuan.Dang@eurofinset.com

LINKS

Review your project results through TotalAccess

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.

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Definitions/Glossary

Client: Enthalpy Analytical LLC
Project/Site: 432518

Job ID: 570-36546-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
s	Seeded Control Blank (SCB) Recovery High

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: 432518

Job ID: 570-36546-1

Job ID: 570-36546-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-36546-1

Comments
No additional comments.

Receipt
The sample was received on 8/21/2020 3:55 PM; the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.5º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
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 570-89909. LCS/LCSD was performed to meet QC requirement.

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: 432518

Job ID: 570-36546-1

Client Sample ID: MCWP-MW04D

Lab Sample ID: 570-36546-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HEM: Oil and Grease	0.992	J	1.10	0.882	mg/L	1		1664A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Enthalpy Analytical LLC
Project/Site: 432518

Job ID: 570-36546-1

General Chemistry

Client Sample ID: MCWP-MW04D
Date Collected: 08/20/20 11:45
Date Received: 08/21/20 15:55

Lab Sample ID: 570-36546-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	**0.992**	**J**	1.10	0.882	mg/L		08/24/20 11:47	08/24/20 11:47	1
Biochemical Oxygen Demand	ND		1.00	0.584	mg/L			08/22/20 11:04	1

Client: Enthalpy Analytical LLC
Project/Site: 432518

Job ID: 570-36546-1

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 570-89909/1-A
Matrix: Water
Analysis Batch: 89961

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89909

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	ND		1.00	0.800	mg/L		08/24/20 11:47	08/24/20 11:47	1

Lab Sample ID: LCS 570-89909/2-A
Matrix: Water
Analysis Batch: 89961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89909

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM: Oil and Grease	40.0	37.50		mg/L		94	78 - 114

Lab Sample ID: LCSD 570-89909/3-A
Matrix: Water
Analysis Batch: 89961

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 89909

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HEM: Oil and Grease	40.0	37.20		mg/L		93	78 - 114	1	18

Method: SM5210B - BOD, 5 Day

Lab Sample ID: SCB 570-91113/2
Matrix: Water
Analysis Batch: 91113

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

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	1.366	s	0.833	0.487	mg/L			08/22/20 11:04	1

Lab Sample ID: USB 570-91113/1
Matrix: Water
Analysis Batch: 91113

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		0.833	0.487	mg/L			08/22/20 11:04	1

Lab Sample ID: LCS 570-91113/3
Matrix: Water
Analysis Batch: 91113

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	207.7		mg/L		105	84.6 - 115.4

Lab Sample ID: 570-36461-A-1 DU
Matrix: Water
Analysis Batch: 91113

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Biochemical Oxygen Demand	2030		2114		mg/L		4	25

QC Association Summary

Client: Enthalpy Analytical LLC
Project/Site: 432518

Job ID: 570-36546-1

General Chemistry

Prep Batch: 89909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-36546-1	MCWP-MW04D	Total/NA	Water	1664A	
MB 570-89909/1-A	Method Blank	Total/NA	Water	1664A	
LCS 570-89909/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 570-89909/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	

Analysis Batch: 89961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-36546-1	MCWP-MW04D	Total/NA	Water	1664A	89909
MB 570-89909/1-A	Method Blank	Total/NA	Water	1664A	89909
LCS 570-89909/2-A	Lab Control Sample	Total/NA	Water	1664A	89909
LCSD 570-89909/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	89909

Analysis Batch: 91113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-36546-1	MCWP-MW04D	Total/NA	Water	SM5210B	
SCB 570-91113/2	Method Blank	Total/NA	Water	SM5210B	
USB 570-91113/1	Method Blank	Total/NA	Water	SM5210B	
LCS 570-91113/3	Lab Control Sample	Total/NA	Water	SM5210B	
570-36461-A-1 DU	Duplicate	Total/NA	Water	SM5210B	

Lab Chronicle

Client: Enthalpy Analytical LLC
Project/Site: 432518

Job ID: 570-36546-1

Client Sample ID: MCWP-MW04D

Date Collected: 08/20/20 11:45
Date Received: 08/21/20 15:55

Lab Sample ID: 570-36546-1

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			907 mL	1000 mL	89909	08/24/20 11:47	UWEZ	ECL 1
Total/NA	Analysis	1664A		1			89961	08/24/20 11:47	UFLU	ECL 1
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM5210B		1	250 mL	300 mL	91113		FTO2	ECL 1
	Instrument ID: BOD1							(Start) 08/22/20 11:04		
								(End) 08/27/20 13:49		

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Enthalpy Analytical LLC
Project/Site: 432518

Job ID: 570-36546-1

Laboratory: Eurofins Calscience LLC

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

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

Client: Enthalpy Analytical LLC
Project/Site: 432518

Job ID: 570-36546-1

Method	Method Description	Protocol	Laboratory
1664A	HEM and SGT-HEM	1664A	ECL 1
SM5210B	BOD, 5 Day	SM	ECL 1
1664A	HEM and SGT-HEM (Aqueous)	1664A	ECL 1

Protocol References:

1664A = EPA-821-98-002

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

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: Enthalpy Analytical LLC
Project/Site: 432518

Job ID: 570-36546-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-36546-1	MCWP-MW04D	Water	08/20/20 11:45	08/21/20 15:55	

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
Eurofins CalScience
7440 Lincoln Way
Garden Grove, CA 92841-1432
ATTN: Xuan Dang
PO #: 1056099

Enthalpy Order: EO-432518
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-MW04D	20-AUG-2020 11:45	432518-001	1	Water	EPA 1664 Oil & Grease (Total) -OUT	
			1	Water	BOD	

Notes:	Relinquished By:	Received By:
	[signature]	Danny Le
	Date: 8-21-20 1855	Date: 8/21/20 15:15
	Date:	Date:
	Date:	Date:

2.9/2.5 SCb

570-36546 Chain of Custody

Login Sample Receipt Checklist

Client: Enthalpy Analytical LLC

Job Number: 570-36546-1

Login Number: 36546
List Number: 1
Creator: Le, Danny

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?	False	Not requested on COC.
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 432518

Subcontracted Products

Enthalpy - Wilmington

Enthalpy Analytical - Orange

931 W. Barkley Ave
Orange, CA 92868

Client Project # EO-432518
Sample Received: 08/25/20

Analytical Report
0820-763

EPA Method 1613B

2,3,7,8-TCDD

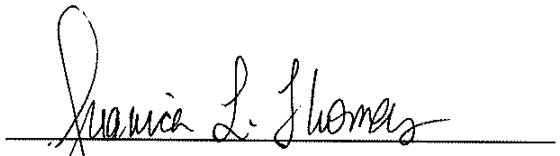
Enthalpy Analytical, LLC – Ultratrace

Lindsay Boone
O: (910) 212-5855 / F: 910-212-5866
lboone@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.



QA Review Performed by: Juanica L. Thomas

Report Issued Date: 09/11/2020

ENTHALPY ANALYTICAL

Summary of Results

ENTHALPY ANALYTICAL

Summary of Results: Totals

Enthalpy Ultratrace Batch # 11120

Method 1613B

Analyte	Method Blank pg/L	MCWP-MW04D pg/L
Totals		
TCDDs	(0.334)	(0.408)

ND = (EDL) EMPC = [ ]

Detailed Results

MCWP-MW04D						Detailed Results - Method 1613B	
Client Details							
Client Sample ID:	MCWP-MW04D		**Client Name:**	**Enthalpy-Orange**			
Client Project ID:	EO-432518		**Sample Collection Date:**	**8/20/2020**		**RRFs:**	**ICAL**
Lab/Sample Details							
Lab Job #:	**0820-763**	**Matrix:**	**Aqueous**	**Date Received:**	**25-Aug-20**		
Lab Sample ID:	**0820-763_11120_001**	**Weight/Volume:**	**1.05**	**Date Extracted:**	**29-Aug-20**		
QC Batch #:	**11120**	**Split Factor:**	**1**	**Date Analyzed:**	**03-Sep-20**		
Dilution:	**-**			**Time Analyzed:**	**15:28:59**		

Analyte	Conc. (pg/L)	EDL (pg)	EMPC (pg/L)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	ND	0.406		U	ES 2,3,7,8-TCDD	71.6	
					CS 37Cl-2378-TCDD	99.8	
					AS 1368-TCDD	80.5	

QC Data

OPR	Detailed Results - Method 1613B

RRFs: ICAL

Lab/Sample Details

		Matrix:	Aqueous	Date Received:	N/A
Lab Sample ID:	OPR_11120_DF	Final Vol. (uL)	20.0	Date Extracted:	29-Aug-20
QC Batch #:	11120	Split Factor:	1	Date Analyzed:	03-Sep-20
Dilution:	-			Time Analyzed:	12:12:54

Analyte	Conc. (pg/uL)	EDL (pg/uL)	EMPC (pg/uL)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	10.0	0.0252			ES 2,3,7,8-TCDD	80.0	
					CS 37Cl-2378-TCDD	106	
					AS 1368-TCDD	86.0	

Method Blank	Detailed Results - Method 1613B

RRFs: ICAL

Lab/Sample Details

		Matrix:	Aqueous	Date Received:	N/A
Lab Sample ID:	LMB_11120_DF	Weight/Volume:	1.00	Date Extracted:	29-Aug-20
QC Batch #:	11120	Split Factor:	1	Date Analyzed:	03-Sep-20
Dilution:	-			Time Analyzed:	13:50:54

Analyte	Conc. (pg/L)	EDL (pg)	EMPC (pg/L)	Qualifiers	Standard	ES Recoveries	Qualifiers
2,3,7,8-TCDD	ND	0.332		U	ES 2,3,7,8-TCDD	74.5	
					CS 37Cl-2378-TCDD	99.8	
					AS 1368-TCDD	78.1	

OPR Demonstration Data (TCDD Only)

Batch ID#: 11120 **Method 1613B**

Analyte	Conc. (pg)	Lower Limit	Upper Limit	Acceptable?	Standard	ES Recoveries	Lower Limit	Upper Limit	Acceptable?
2,3,7,8-TCDD	10.0	7.3	14.6	Y	ES 2,3,7,8-TCDD	80	25	141	Y
					CS 2,3,7,8-TCDD	11	3.7	15.8	Y

Narrative Summary

Enthalpy Analytical Narrative Summary

Company	Enthalpy - Orange
Job#	0820-763 EPA Method 1613B
Client Project #	EO-432518

Custody	Braidy May of Enthalpy Analytical Wilmington received the sample (via FedEx) on ice on 08/25/20 at 3.2°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 "Gandalf"). After sampling by the client, the laboratory spiked the sample 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	The Totals and Detection Limits have been included in the report. 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 concentration 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. Specific to Dioxin/Furan tests and equivalent to MDL
- EMPC – Estimated Maximum Possible Concentration Specific to Dioxin/Furan tests to indicate the signal/noise ratio wass not sufficient for peak identification (the determined ion-abundance ratio was outside the allowed theoretical range), or where there was a co-eluting interference. Indicates that a peak was identified but did not meet the method specified ion-abundance ratio.
- IR – The ion ratio between the primary and secondary ions was observed to be outside the method criteria therefore the actual analyte concentration cannot be accurately determined as defined by DoD QSM Table B-15.
- 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 Quantiation: 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 LOD 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.

- 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 – The labeled standard recovery is not within method control limits.
- X – Results 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.
- RJ – Indicates a reinjection of the sample extract.
- S – Indicates a sample split. The number that follows the "S" indicates the split factor.
- R – Indicates a re-extraction of the sample.

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 #: 1056100

Enthalpy Order: EO-432518
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:

0820-763

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
MCWP-MW04D	20-AUG-2020 11:45	432518-001	1	Water	EPA 1613 - 2,3,7,8-TCDD only	

Notes:	Relinquished By:	Received By:
		Fed Ex 7713 4243 0879
	Date: 8/24/20 1200	Date: 8/24/20
		Bradley Hoey
	Date:	Date: 8/25/20 12:00
	Date:	Date:

Fedex, 771342430879, cooler, no seal, 3.2°C, TR, On Ice, Good Condition, Bu 8/25/20

This Is The Last Page Of This Report.

Laboratory Job Number 432518

Subcontracted Products

Pace Labs - PA

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

September 16, 2020

Ranjit Clarke
Enthalpy Analytical
806 N. Batavia St.
Orange, CA 92868

RE: Project: EO-432518
Pace Project No.: 30379127

Dear Ranjit Clarke:

Enclosed are the analytical results for sample(s) received by the laboratory on August 25, 2020. 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,

Jacquelyn Collins
jacquelyn.collins@pacelabs.com
(724)850-5612
Project Manager

Enclosures

cc: Incoming Reports, Enthalpy Analytical

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

CERTIFICATIONS

Project: EO-432518
Pace Project No.: 30379127

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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Greensburg, PA 15601
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SAMPLE SUMMARY

Project: EO-432518
Pace Project No.: 30379127

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30379127001	**MCWP-MW04D**	Water	08/20/20 11:45	08/25/20 10:15

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Greensburg, PA 15601
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SAMPLE ANALYTE COUNT

Project: EO-432518
Pace Project No.: 30379127

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30379127001	**MCWP-MW04D**	EPA 900.0	CLA	2	PASI-PA
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		ASTM D5811-95	LAL	1	PASI-PA
		EPA 906.0	JAL	1	PASI-PA
		ASTM D5174-97	RMK	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: EO-432518
Pace Project No.: 30379127

Sample: MCWP-MW04D **Lab ID: 30379127001** Collected: 08/20/20 11:45 Received: 08/25/20 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • Upon receipt at the laboratory, 5.0 mls of nitric acid were added to the samples to meet the sample preservation requirement of pH <2 for radiological analyses. The samples were preserved <2 within the required 5 days of collection.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Gross Alpha	EPA 900.0	**3.85 ± 5.21 (9.96) C:NA T:NA**	pCi/L	09/10/20 18:00	12587-46-1	
Gross Beta	EPA 900.0	**6.52 ± 5.11 (9.31) C:NA T:NA**	pCi/L	09/10/20 18:00	12587-47-2	
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**-0.0794 ± 0.467 (1.04) C:NA T:77%**	pCi/L	09/14/20 13:30	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.192 ± 0.468 (1.04) C:70% T:84%**	pCi/L	09/10/20 14:39	15262-20-1	
		Pace Analytical Services - Greensburg				
Strontium-90	ASTM D5811-95	**-0.197 ± 0.357 (0.735) C:89% T:NA**	pCi/L	09/02/20 17:58	10098-97-2	N2
		Pace Analytical Services - Greensburg				
Tritium	EPA 906.0	**275 ± 148 (226) C:NA T:NA**	pCi/L	09/06/20 05:51	10028-17-8	
		Pace Analytical Services - Greensburg				
Total Uranium	ASTM D5174-97	**6.26 ± 0.221 (0.262) C:NA T:NA**	ug/L	09/11/20 13:16	7440-61-1	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: EO-432518
Pace Project No.: 30379127

QC Batch: 411587
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: 30379127001

METHOD BLANK: 1990886 Matrix: Water
Associated Lab Samples: 30379127001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0527 ± 0.343 (0.744) C:NA T:92%	pCi/L	09/14/20 13:30	

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REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
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QUALITY CONTROL - RADIOCHEMISTRY

Project: EO-432518
Pace Project No.: 30379127

QC Batch: 412252
QC Batch Method: ASTM D5174-97
Analysis Method: ASTM D5174-97
Analysis Description: D5174.97 Total Uranium KPA
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30379127001

METHOD BLANK: 1994107 Matrix: Water
Associated Lab Samples: 30379127001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Total Uranium	-0.018 ± -0.002 (0.262) C:NA T:NA	ug/L	09/11/20 12:16	

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(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: EO-432518
Pace Project No.: 30379127

QC Batch: 411821
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: 30379127001

METHOD BLANK: 1992081 Matrix: Water
Associated Lab Samples: 30379127001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Strontium-90	-0.328 ± 0.309 (0.648) C:93% T:NA	pCi/L	09/02/20 17:58	N2

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QUALITY CONTROL - RADIOCHEMISTRY

Project: EO-432518
Pace Project No.: 30379127

QC Batch: 412672
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: 30379127001

METHOD BLANK: 1995876 Matrix: Water
Associated Lab Samples: 30379127001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	0.032 ± 0.420 (1.20) C:NA T:NA	pCi/L	09/11/20 08:54	
Gross Beta	0.224 ± 0.745 (1.76) C:NA T:NA	pCi/L	09/11/20 08:54	

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(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: EO-432518
Pace Project No.: 30379127

QC Batch: 411586
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: 30379127001

METHOD BLANK: 1990885 Matrix: Water
Associated Lab Samples: 30379127001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0926 ± 0.381 (0.864) C:73% T:82%	pCi/L	09/10/20 14:42	

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: EO-432518
Pace Project No.: 30379127

QC Batch: 412033
QC Batch Method: EPA 906.0
Analysis Method: EPA 906.0
Analysis Description: 906.0 Tritium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30379127001

METHOD BLANK: 1993027 Matrix: Water
Associated Lab Samples: 30379127001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Tritium	-20.0 ± 127 (226) C:NA T:NA	pCi/L	09/05/20 16:34	

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

QUALIFIERS

Project: EO-432518
Pace Project No.: 30379127

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.

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.

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ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
Pace Labs - PA
1638 Roseytown Rd.
Suite 2, 3, 4
Greensburg, PA 15601
ATTN: Jacquelyn Collins
PO #: 1056101

Enthalpy Order: EO-432518
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# : 30379127

30379127

Notes:
Strontium-90: ASTM D5811-95 is o.k. if matrix calls for it instead of EPA 905.0
Uranium: ASTM D5174-97 is o.k. if matrix calls for it instead of EPA 908.0

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
MCWP-MW04D	20-AUG-2020 11:45	432518-001	1	Water	EPA 900.0 Gross Alpha and Beta	001
				Water	EPA 903.1 Radium-226	
				Water	EPA 904.0 Radium-228	
				Water	ASTM D5811-95 Strontium	
				Water	EPA 906.0 Tritium	
				Water	ASTM D5174-97 Uranium	

Notes:	Relinquished By:	Received By:
		FED EX 7713 4254 5024
	Date: 8/24/20 1200	Date: 8/24/20
		Nicole Rund
	Date:	Date: 8/25/2020 1015
		25
	Date:	Date: NMR 8/25/2020

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Enthalpy

Project # 30379127

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

Label BLM
LIMS Login BLM

Tracking #: 771342545028

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 11 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 6.6 °C Correction Factor: -0.4 °C Final Temp: 6.2 °C

Temp should be above freezing to 6°C

pH paper Lot# 10D5191 Date and initials of person examining contents: NMR 8/25/2020

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. added 5.0mL HNO_3 to four out of the six 1L bottles
All containers meet method preservation requirements.		✓		Initial when completed: NMR Date/time of preservation: 8/25/2020 1520
				Lot # of added preservative: DL20-0871
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: NMR Date: 8/25/2020

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.

Laboratory Job Number 432518

Subcontracted Products

Weck Laboratories, Inc.

WECK LABORATORIES, INC.

Certificate of Analysis

PRELIMINARY REPORT

Work Orders: 0H21065

Project: EO-432518

Attn: Ranjit Clarke

Client: Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Report Date: 9/22/2020
Received Date: 8/21/2020
Turnaround Time: Normal
Phones: (714) 771-6900
Fax: (714) 771-9933
P.O. #: 1056102
Billing Code:

DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH # • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • SCAQMD #93LA1006

This is a preliminary report and is produced for review and guidance purpose only and should not be considered final. Information in this report may be missing or may be changed. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories DOES NOT certify that the test results meet all requirements of TNI. Neither Weck Laboratories, Inc. nor any of its employees, contractors, subcontractors, or their employees make any warrant, expressed or implied, or assume any legal liability or responsibility for use of any information inscribed in this report.

Dear Ranjit Clarke,

Enclosed are the results of analyses for samples received 8/21/20 with the Chain-of-Custody document. The samples were received in good condition, at 4.0 °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:

DRAFT REPORT
DATA SUBJECT TO CHANGE

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Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-432518

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:39

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
MCWP-MW04D, Alias: 432518-001	Client	0H21065-01	Water	08/20/20 11:45	
FIELD BLANK	Client	0H21065-02	Water	08/20/20 00:00	

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Orange, CA 92868

Project Number: EO-432518

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:39

Sample Results

Sample: MCWP-MW04D, Alias: 432518-001
0H21065-01 (Water)

Sampled: 08/20/20 11:45 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS						
Method: EPA 625.1		**Instr:** GCMS06				
Batch ID: W0H1451 **Preparation:** EPA 625/L-L SF		**Prepared:** 08/26/20 10:02			**Analyst:** rmr	
1,2,4-Trichlorobenzene	ND	1.0	ug/l	1	09/17/20	
1,2-Dichlorobenzene	ND	1.0	ug/l	1	09/17/20	
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	ug/l	1	09/17/20	
1,3-Dichlorobenzene	ND	1.0	ug/l	1	09/17/20	
1,4-Dichlorobenzene	ND	1.0	ug/l	1	09/17/20	
2,4,6-Trichlorophenol	ND	1.0	ug/l	1	09/17/20	
2,4-Dichlorophenol	ND	1.0	ug/l	1	09/17/20	
2,4-Dimethylphenol	ND	1.0	ug/l	1	09/17/20	
2,4-Dinitrophenol	ND	5.0	ug/l	1	09/17/20	
2,4-Dinitrotoluene	ND	1.0	ug/l	1	09/17/20	
2,6-Dinitrotoluene	ND	1.0	ug/l	1	09/17/20	
2-Chloronaphthalene	ND	1.0	ug/l	1	09/17/20	
2-Chlorophenol	ND	1.0	ug/l	1	09/17/20	
2-Methyl-4,6-dinitrophenol	ND	1.0	ug/l	1	09/17/20	
2-Nitrophenol	ND	1.0	ug/l	1	09/17/20	
3,3'-Dichlorobenzidine	ND	1.0	ug/l	1	09/17/20	
4-Bromophenyl phenyl ether	ND	1.0	ug/l	1	09/17/20	
4-Chloro-3-methylphenol	ND	1.0	ug/l	1	09/17/20	
4-Chlorophenyl phenyl ether	ND	1.0	ug/l	1	09/17/20	
4-Nitrophenol	ND	2.0	ug/l	1	09/17/20	
Acenaphthene	ND	1.0	ug/l	1	09/17/20	
Acenaphthylene	ND	1.0	ug/l	1	09/17/20	
Anthracene	ND	1.0	ug/l	1	09/17/20	
Benzidine	ND	10	ug/l	1	09/17/20	
Benzo (a) anthracene	ND	1.0	ug/l	1	09/17/20	
Benzo (a) pyrene	ND	1.0	ug/l	1	09/17/20	
Benzo (b) fluoranthene	ND	1.0	ug/l	1	09/17/20	
Benzo (g,h,i) perylene	ND	1.0	ug/l	1	09/17/20	
Benzo (k) fluoranthene	ND	1.0	ug/l	1	09/17/20	
Bis(2-chloroethoxy)methane	ND	1.0	ug/l	1	09/17/20	
Bis(2-chloroethyl)ether	ND	1.0	ug/l	1	09/17/20	
Bis(2-chloroisopropyl)ether	ND	1.0	ug/l	1	09/17/20	
Bis(2-ethylhexyl)phthalate	ND	2.0	ug/l	1	09/17/20	
Butyl benzyl phthalate	ND	1.0	ug/l	1	09/17/20	
Chrysene	ND	1.0	ug/l	1	09/17/20	

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Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-432518

Project Manager: Ranjit Clarke

Reported: 09/22/2020 09:39

Sample Results

(Continued)

Sample: MCWP-MW04D, Alias: 432518-001
0H21065-01 (Water)

Sampled: 08/20/20 11:45 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS (Continued)						
Method: EPA 625.1		**Instr:** GCMS06				
Batch ID: W0H1451 **Preparation:** EPA 625/L-L SF		**Prepared:** 08/26/20 10:02				**Analyst:** rmr
Dibenzo (a,h) anthracene	ND	1.0	ug/l	1	09/17/20	
Diethyl phthalate	ND	1.0	ug/l	1	09/17/20	
Dimethyl phthalate	ND	1.0	ug/l	1	09/17/20	
Di-n-butyl phthalate	ND	1.0	ug/l	1	09/17/20	
Di-n-octyl phthalate	ND	1.0	ug/l	1	09/17/20	
Fluoranthene	ND	1.0	ug/l	1	09/17/20	
Fluorene	ND	1.0	ug/l	1	09/17/20	
Hexachlorobenzene	ND	1.0	ug/l	1	09/17/20	
Hexachlorobutadiene	ND	1.0	ug/l	1	09/17/20	
Hexachlorocyclopentadiene	ND	5.0	ug/l	1	09/17/20	
Hexachloroethane	ND	1.0	ug/l	1	09/17/20	
Indeno (1,2,3-cd) pyrene	ND	1.0	ug/l	1	09/17/20	
Isophorone	ND	1.0	ug/l	1	09/17/20	
Naphthalene	ND	1.0	ug/l	1	09/17/20	
Nitrobenzene	ND	1.0	ug/l	1	09/17/20	
N-Nitrosodimethylamine	ND	1.0	ug/l	1	09/17/20	
N-Nitrosodi-n-propylamine	ND	1.0	ug/l	1	09/17/20	
N-Nitrosodiphenylamine	ND	1.0	ug/l	1	09/17/20	
Pentachlorophenol	ND	1.0	ug/l	1	09/17/20	
Phenanthrene	ND	1.0	ug/l	1	09/17/20	
Phenol	ND	1.0	ug/l	1	09/17/20	
Pyrene	ND	1.0	ug/l	1	09/17/20	
Surrogate(s)						
2,4,6-Tribromophenol	*51%*	*Conc: 25.3*	*25-120*		*09/17/20*	
2-Fluorobiphenyl	*33%*	*Conc: 8.17*	*22-120*		*09/17/20*	
2-Fluorophenol	*21%*	*Conc: 10.5*	*17-120*		*09/17/20*	
Nitrobenzene-d5	*29%*	*Conc: 7.32*	*47-120*		*09/17/20*	*S-GC*
Phenol-d5	*14%*	*Conc: 7.22*	*12-120*		*09/17/20*	
Terphenyl-d14	*100%*	*Conc: 24.9*	*44-129*		*09/17/20*	
Anions by IC, EPA Method 300.1						
Method: EPA 300.1		**Instr:** LC08_Channel2				
Batch ID: W0H1446 **Preparation:** _NONE (LC)		**Prepared:** 08/26/20 09:34				**Analyst:** jan
Bromate	ND	5.0	ug/l	1	08/27/20	
Chlorite	ND	10	ug/l	1	08/27/20	
Surrogate(s)						

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Project Number: EO-432518

Project Manager: Ranjit Clarke

Reported: 09/22/2020 09:39

Sample Results

(Continued)

Sample: MCWP-MW04D, Alias: 432518-001
0H21065-01 (Water)

Sampled: 08/20/20 11:45 by Client

(Continued)

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Anions by IC, EPA Method 300.1 (Continued)							
Method: EPA 300.1			**Instr:** LC08_Channel2				
Batch ID: W0H1446 **Preparation:** _NONE (LC)			**Prepared:** 08/26/20 09:34			**Analyst:** jan	
Dichloroacetate	*108%*	*Conc: 541*	*90-115*			*08/27/20*	
Carbamates and Urea Pesticides							
Method: EPA 531.2			**Instr:** LC10				
Batch ID: W0I0178 **Preparation:** _NONE (LC)			**Prepared:** 09/02/20 15:04			**Analyst:** jan	
3-Hydroxycarbofuran	ND		2.0	ug/l	1	09/10/20	
Aldicarb	ND		2.0	ug/l	1	09/10/20	
Aldicarb sulfone	ND		2.0	ug/l	1	09/10/20	
Aldicarb sulfoxide	ND		2.0	ug/l	1	09/10/20	
Carbaryl	ND		2.0	ug/l	1	09/10/20	
Carbofuran	ND		2.0	ug/l	1	09/10/20	
Methiocarb	ND		2.0	ug/l	1	09/10/20	
Methomyl	ND		2.0	ug/l	1	09/10/20	
Oxamyl	ND		2.0	ug/l	1	09/10/20	
Propoxur (Baygon)	ND		2.0	ug/l	1	09/10/20	
Surrogate(s)							
BDMC	*106%*	*Conc: 10.6*	*70-130*			*09/10/20*	
Chlorinated Acids Herbicides by GC/ECD							
Method: EPA 515.4			**Instr:** GC08				
Batch ID: W0I0008 **Preparation:** EPA 515.4/Micro Ext. Drtz			**Prepared:** 09/01/20 08:17			**Analyst:** amw	
2,4,5-T	ND		0.20	ug/l	1	09/03/20	
2,4,5-TP (Silvex)	ND		0.20	ug/l	1	09/03/20	
2,4-D	ND		0.40	ug/l	1	09/03/20	
2,4-DB	ND		2.0	ug/l	1	09/03/20	
3,5-Dichlorobenzoic acid	ND		1.0	ug/l	1	09/03/20	
Acifluorfen	ND		0.40	ug/l	1	09/03/20	
Bentazon	ND		2.0	ug/l	1	09/03/20	
Dalapon	ND		0.40	ug/l	1	09/03/20	
DCPA	ND		0.10	ug/l	1	09/03/20	
Dicamba	ND		0.60	ug/l	1	09/03/20	
Dichloroprop	ND		0.30	ug/l	1	09/03/20	
Dinoseb	ND		0.40	ug/l	1	09/03/20	
Pentachlorophenol	ND		0.20	ug/l	1	09/03/20	
Picloram	ND		0.60	ug/l	1	09/03/20	
Surrogate(s)							
2,4-DCAA	*99%*	*Conc: 9.93*	*70-130*			*09/03/20*	

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Orange, CA 92868

Project Number: EO-432518

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:39

Sample Results

(Continued)

Sample: MCWP-MW04D, Alias: 432518-001
0H21065-01 (Water)

Sampled: 08/20/20 11:45 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Pesticides and/or PCBs by GC/ECD						
Method: EPA 508		**Instr:** GC07				
Batch ID: W0H1544 **Preparation:** EPA 508/L-L SF		**Prepared:** 08/27/20 12:30				**Analyst:** AMW
4,4´-DDD	ND	0.010	ug/l	1	09/09/20	
4,4´-DDE	ND	0.010	ug/l	1	09/09/20	
4,4´-DDT	ND	0.010	ug/l	1	09/09/20	
Aldrin	ND	0.010	ug/l	1	09/09/20	
alpha-BHC	ND	0.010	ug/l	1	09/09/20	
Aroclor 1016	ND	0.10	ug/l	1	09/09/20	
Aroclor 1221	ND	0.10	ug/l	1	09/09/20	
Aroclor 1232	ND	0.10	ug/l	1	09/09/20	
Aroclor 1242	ND	0.10	ug/l	1	09/09/20	
Aroclor 1248	ND	0.10	ug/l	1	09/09/20	
Aroclor 1254	ND	0.10	ug/l	1	09/09/20	
Aroclor 1260	ND	0.10	ug/l	1	09/09/20	
beta-BHC	ND	0.010	ug/l	1	09/09/20	
Chlordane (tech)	ND	0.10	ug/l	1	09/09/20	
Chlorothalonil	ND	0.050	ug/l	1	09/09/20	
delta-BHC	ND	0.010	ug/l	1	09/09/20	
Dieldrin	ND	0.010	ug/l	1	09/09/20	
Endosulfan I	ND	0.010	ug/l	1	09/09/20	
Endosulfan II	ND	0.010	ug/l	1	09/09/20	
Endosulfan sulfate	ND	0.010	ug/l	1	09/09/20	
Endrin	ND	0.010	ug/l	1	09/09/20	
Endrin aldehyde	ND	0.010	ug/l	1	09/09/20	
gamma-BHC (Lindane)	ND	0.010	ug/l	1	09/09/20	
Heptachlor	ND	0.010	ug/l	1	09/09/20	
Heptachlor epoxide	ND	0.010	ug/l	1	09/09/20	
Hexachlorobenzene	ND	0.050	ug/l	1	09/09/20	
Hexachlorocyclopentadiene	ND	0.050	ug/l	1	09/09/20	
Methoxychlor	ND	0.010	ug/l	1	09/09/20	
PCBs, Total	ND	0.50	ug/l	1	09/09/20	
Propachlor	ND	0.050	ug/l	1	09/09/20	
Toxaphene	ND	0.50	ug/l	1	09/09/20	
Trifluralin	ND	0.010	ug/l	1	09/09/20	
Surrogate(s)						
Decachlorobiphenyl	*93%*	*Conc: 0.0932*	*70-130*		*09/09/20*	
Tetrachloro-meta-xylene	*72%*	*Conc: 0.0722*	*70-130*		*09/09/20*	

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Project Number: EO-432518

Project Manager: Ranjit Clarke

Reported: 09/22/2020 09:39

Sample Results

(Continued)

Sample: MCWP-MW04D, Alias: 432518-001

Sampled: 08/20/20 11:45 by Client

0H21065-01 (Water)

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Diquat and Paraquat by EPA 549.2						
Method: EPA 549.2		**Instr:** LC11				
Batch ID: W0H1195 **Preparation:** EPA 549.2/SPE		**Prepared:** 08/21/20 14:35				**Analyst:** jna
Diquat	ND	4.0	ug/l	1	09/01/20	
Paraquat	ND	4.0	ug/l	1	09/01/20	
Endothall By EPA 548.1						
Method: EPA 548.1		**Instr:** GCMS06				
Batch ID: W0H1346 **Preparation:** EPA 548.1/SPE		**Prepared:** 08/25/20 08:03				**Analyst:** rmr
Endothall	ND	40	ug/l	1	08/27/20	
Glyphosate by EPA 547						
Method: EPA 547		**Instr:** LC10				
Batch ID: W0H1697 **Preparation:** _NONE (LC)		**Prepared:** 08/31/20 16:20				**Analyst:** jan
Glyphosate	ND	5.0	ug/l	1	09/01/20	
Haloacetic Acids (HAAs) by GC/ECD						
Method: EPA 552.3		**Instr:** GC05				
Batch ID: W0H1575 **Preparation:** EPA 552.3/Micro Ext. Drtz		**Prepared:** 08/28/20 08:39				**Analyst:** rjg
Dibromoacetic acid (dbaa)	ND	1.0	ug/l	1	09/02/20	
Dichloroacetic acid (dcaa)	ND	1.0	ug/l	1	09/02/20	
HAA5, Total	ND	1.0	ug/l	1	09/02/20	
Monobromoacetic acid (mbaa)	ND	1.0	ug/l	1	09/02/20	
Monochloroacetic acid (mcaa)	ND	2.0	ug/l	1	09/02/20	
Trichloroacetic acid (tcaa)	ND	1.0	ug/l	1	09/02/20	
Surrogate(s)						
2-Bromobutyric acid	*100%*	*Conc: 10.0*	*70-130*		*09/02/20*	
Semivolatile Organic Compounds by GC/MS						
Method: EPA 525.2		**Instr:** GCMS16				
Batch ID: W0I0009 **Preparation:** EPA 525.2/SPE		**Prepared:** 09/01/20 08:54				**Analyst:** rmr
Alachlor	ND	0.10	ug/l	1	09/04/20	
Atrazine	ND	0.10	ug/l	1	09/04/20	
Benzo (a) pyrene	ND	0.10	ug/l	1	09/04/20	
Bis(2-ethylhexyl)adipate	ND	2.0	ug/l	1	09/04/20	
Bis(2-ethylhexyl)phthalate	ND	2.0	ug/l	1	09/04/20	
Bromacil	ND	0.50	ug/l	1	09/04/20	
Butachlor	ND	0.10	ug/l	1	09/04/20	
Captan	ND	1.0	ug/l	1	09/04/20	BS-04
Chlorpropham	ND	0.10	ug/l	1	09/04/20	
Cyanazine	ND	0.10	ug/l	1	09/04/20	BS-04
Diazinon	ND	0.10	ug/l	1	09/04/20	
Dimethoate	ND	0.20	ug/l	1	09/04/20	BS-04

Enthalpy Analytical - Orange
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Project Number: EO-432518

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Reported: 09/22/2020 09:39

Sample Results

(Continued)

Sample: MCWP-MW04D, Alias: 432518-001
0H21065-01 (Water)

Sampled: 08/20/20 11:45 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Semivolatile Organic Compounds by GC/MS (Continued)						
Method: EPA 525.2		**Instr:** GCMS16				
Batch ID: W0I0009 **Preparation:** EPA 525.2/SPE		**Prepared:** 09/01/20 08:54				**Analyst:** rmr
Diphenamid	ND	0.10	ug/l	1	09/04/20	
Disulfoton	ND	0.10	ug/l	1	09/04/20	
EPTC	ND	0.10	ug/l	1	09/04/20	
Metolachlor	ND	0.10	ug/l	1	09/04/20	
Metribuzin	ND	0.10	ug/l	1	09/04/20	
Molinate	ND	0.10	ug/l	1	09/04/20	
Prometon	ND	0.10	ug/l	1	09/04/20	
Prometryn	ND	0.10	ug/l	1	09/04/20	
Simazine	ND	0.10	ug/l	1	09/04/20	
Terbacil	ND	2.0	ug/l	1	09/04/20	BS-04
Thiobencarb	ND	0.10	ug/l	1	09/04/20	
Trithion	ND	0.10	ug/l	1	09/04/20	BS-04
Surrogate(s)						
1,3-Dimethyl-2-nitrobenzene	*96%*	*Conc: 4.79*	*70-130*		*09/04/20*	
Perylene-d12	*86%*	*Conc: 4.30*	*50-120*		*09/04/20*	
Triphenyl phosphate	*107%*	*Conc: 5.36*	*70-130*		*09/04/20*	
Volatile Organics by P&T and GC/MS						
Method: EPA 524.3		**Instr:** GCMS04				
Batch ID: W0H1345 **Preparation:** EPA 524.2 P&T		**Prepared:** 08/25/20 07:48				**Analyst:** adm
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l	1	08/26/20	
1,2-Dibromoethane (EDB)	ND	0.020	ug/l	1	08/26/20	

Sample: MCWP-MW04D, Alias: 432518-001
0H21065-01RE1 (Water)

Sampled: 08/20/20 11:45 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Hexavalent Chromium by IC						
Method: EPA 218.6		**Instr:** LC13				
Batch ID: W0I0002 **Preparation:** _NONE (LC)		**Prepared:** 09/01/20 00:27				**Analyst:** jan
Chromium 6+	ND	0.10	ug/l	5	09/02/20	M-05
Nitrosamines by isotopic dilution GC/MS CI Mode						
Method: EPA 1625M		**Instr:** GCMS09				
Batch ID: W0H1369 **Preparation:** EPA 3535/SPE		**Prepared:** 08/25/20 10:29				**Analyst:** mld
N-Nitrosodimethylamine	ND	2.0	ng/l	1	08/31/20	

Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-432518

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:39

Sample Results

(Continued)

Sample: FIELD BLANK
0H21065-02 (Water)

Sampled: 08/20/20 0:00 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organics by P&T and GC/MS						
Method: EPA 524.3		**Instr:** GCMS04				
Batch ID: W0H1345 **Preparation:** EPA 524.2 P&T		**Prepared:** 08/25/20 07:48				**Analyst:** adm
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l	1	08/26/20	
1,2-Dibromoethane (EDB)	ND	0.020	ug/l	1	08/26/20	

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Enthalpy Analytical - Orange
931 West Barkley Avenue
Orange, CA 92868

Project Number: EO-432518

Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:39

Quality Control Results

Acid and Base/Neutral Extractables by GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1451 - EPA 625.1										
Blank (W0H1451-BLK1)				**Prepared: 08/26/20 Analyzed: 09/17/20**						
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
2,4,6-Trichlorophenol	ND	1.0	ug/l							
2,4-Dichlorophenol	ND	1.0	ug/l							
2,4-Dimethylphenol	ND	1.0	ug/l							
2,4-Dinitrophenol	ND	5.0	ug/l							
2,4-Dinitrotoluene	ND	1.0	ug/l							
2,6-Dinitrotoluene	ND	1.0	ug/l							
2-Chloronaphthalene	ND	1.0	ug/l							
2-Chlorophenol	ND	1.0	ug/l							
2-Methyl-4,6-dinitrophenol	ND	1.0	ug/l							
2-Nitrophenol	ND	1.0	ug/l							
3,3'-Dichlorobenzidine	ND	1.0	ug/l							
4-Bromophenyl phenyl ether	ND	1.0	ug/l							
4-Chloro-3-methylphenol	ND	1.0	ug/l							
4-Chlorophenyl phenyl ether	ND	1.0	ug/l							
4-Nitrophenol	ND	2.0	ug/l							
Acenaphthene	ND	1.0	ug/l							
Acenaphthylene	ND	1.0	ug/l							
Anthracene	ND	1.0	ug/l							
Benzidine	ND	10	ug/l							
Benzo (a) anthracene	ND	1.0	ug/l							
Benzo (a) pyrene	ND	1.0	ug/l							
Benzo (b) fluoranthene	ND	1.0	ug/l							
Benzo (g,h,i) perylene	ND	1.0	ug/l							
Benzo (k) fluoranthene	ND	1.0	ug/l							
Bis(2-chloroethoxy)methane	ND	1.0	ug/l							
Bis(2-chloroethyl)ether	ND	1.0	ug/l							
Bis(2-chloroisopropyl)ether	ND	1.0	ug/l							
Bis(2-ethylhexyl)phthalate	ND	2.0	ug/l							
Butyl benzyl phthalate	ND	1.0	ug/l							
Chrysene	ND	1.0	ug/l							
Dibenzo (a,h) anthracene	ND	1.0	ug/l							
Diethyl phthalate	ND	1.0	ug/l							
Dimethyl phthalate	ND	1.0	ug/l							
Di-n-butyl phthalate	ND	1.0	ug/l							

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Project Number: EO-432518

Project Manager: Ranjit Clarke

Reported:
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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1451 - EPA 625.1 (Continued)										
Blank (W0H1451-BLK1)				**Prepared: 08/26/20 Analyzed: 09/17/20**						
Di-n-octyl phthalate	ND	1.0	ug/l							
Fluoranthene	ND	1.0	ug/l							
Fluorene	ND	1.0	ug/l							
Hexachlorobenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Hexachlorocyclopentadiene	ND	5.0	ug/l							
Hexachloroethane	ND	1.0	ug/l							
Indeno (1,2,3-cd) pyrene	ND	1.0	ug/l							
Isophorone	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
Nitrobenzene	ND	1.0	ug/l							
N-Nitrosodimethylamine	ND	1.0	ug/l							
N-Nitrosodi-n-propylamine	ND	1.0	ug/l							
N-Nitrosodiphenylamine	ND	1.0	ug/l							
Pentachlorophenol	ND	1.0	ug/l							
Phenanthrene	ND	1.0	ug/l							
Phenol	ND	1.0	ug/l							
Pyrene	ND	1.0	ug/l							
Surrogate(s)										
2,4,6-Tribromophenol	*26.9*		*ug/l*	*50.0*		*54*	*25-120*			
2-Fluorobiphenyl	*17.3*		*ug/l*	*25.0*		*69*	*22-120*			
2-Fluorophenol	*28.3*		*ug/l*	*50.0*		*57*	*17-120*			
Nitrobenzene-d5	*18.7*		*ug/l*	*25.0*		*75*	*47-120*			
Phenol-d5	*17.5*		*ug/l*	*50.0*		*35*	*12-120*			
Terphenyl-d14	*21.7*		*ug/l*	*25.0*		*87*	*44-129*			
LCS (W0H1451-BS1)				**Prepared: 08/26/20 Analyzed: 09/17/20**						
1,2,4-Trichlorobenzene	19.0	1.0	ug/l	25.0		76	57-130			
1,2-Dichlorobenzene	18.6	1.0	ug/l	25.0		74	57-120			
1,3-Dichlorobenzene	18.5	1.0	ug/l	25.0		74	55-120			
1,4-Dichlorobenzene	18.2	1.0	ug/l	25.0		73	55-120			
2,4,6-Trichlorophenol	19.0	1.0	ug/l	25.0		76	52-129			
2,4-Dichlorophenol	20.8	1.0	ug/l	25.0		83	53-122			
2,4-Dimethylphenol	20.4	1.0	ug/l	25.0		81	42-120			
2,4-Dinitrophenol	21.8	5.0	ug/l	25.0		87	0.1-173			
2,4-Dinitrotoluene	20.0	1.0	ug/l	25.0		80	48-127			
2,6-Dinitrotoluene	19.8	1.0	ug/l	25.0		79	68-137			
2-Chloronaphthalene	18.9	1.0	ug/l	25.0		76	65-120			
2-Chlorophenol	20.2	1.0	ug/l	25.0		81	36-120			
2-Methyl-4,6-dinitrophenol	19.5	1.0	ug/l	25.0		78	53-130			

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Project Manager: Ranjit Clarke

Reported:
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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1451 - EPA 625.1 (Continued)										
LCS (W0H1451-BS1)				**Prepared: 08/26/20**	**Analyzed: 09/17/20**					
2-Nitrophenol	20.1	1.0	ug/l	25.0		81	45-167			
3,3'-Dichlorobenzidine	25.7	1.0	ug/l	25.0		103	8-213			
4-Bromophenyl phenyl ether	20.0	1.0	ug/l	25.0		80	65-120			
4-Chloro-3-methylphenol	19.1	1.0	ug/l	25.0		76	41-128			
4-Chlorophenyl phenyl ether	18.5	1.0	ug/l	25.0		74	38-145			
4-Nitrophenol	7.53	2.0	ug/l	25.0		30	13-129			
Acenaphthene	20.9	1.0	ug/l	25.0		84	60-132			
Acenaphthylene	20.7	1.0	ug/l	25.0		83	54-126			
Anthracene	22.5	1.0	ug/l	25.0		90	43-120			
Benzo (a) anthracene	21.9	1.0	ug/l	25.0		88	42-133			
Benzo (a) pyrene	25.2	1.0	ug/l	25.0		101	32-148			
Benzo (b) fluoranthene	26.2	1.0	ug/l	25.0		105	42-140			AN-IP
Benzo (g,h,i) perylene	27.0	1.0	ug/l	25.0		108	0.1-195			
Benzo (k) fluoranthene	25.4	1.0	ug/l	25.0		102	25-146			AN-IP
Bis(2-chloroethoxy)methane	19.9	1.0	ug/l	25.0		80	49-165			
Bis(2-chloroethyl)ether	18.6	1.0	ug/l	25.0		74	43-126			
Bis(2-chloroisopropyl)ether	19.3	1.0	ug/l	25.0		77	63-139			
Bis(2-ethylhexyl)phthalate	23.0	2.0	ug/l	25.0		92	29-137			
Butyl benzyl phthalate	23.1	1.0	ug/l	25.0		93	0.1-140			
Chrysene	25.2	1.0	ug/l	25.0		101	44-140			
Dibenzo (a,h) anthracene	25.4	1.0	ug/l	25.0		101	0.1-200			
Diethyl phthalate	21.3	1.0	ug/l	25.0		85	0.1-120			
Dimethyl phthalate	19.5	1.0	ug/l	25.0		78	0.1-120			
Di-n-butyl phthalate	25.4	1.0	ug/l	25.0		102	8-120			
Di-n-octyl phthalate	25.0	1.0	ug/l	25.0		100	19-132			
Fluoranthene	22.3	1.0	ug/l	25.0		89	43-121			
Fluorene	20.2	1.0	ug/l	25.0		81	70-120			
Hexachlorobenzene	20.6	1.0	ug/l	25.0		82	8-142			
Hexachlorobutadiene	21.1	1.0	ug/l	25.0		84	38-120			
Hexachlorocyclopentadiene	11.5	5.0	ug/l	25.0		46	10-120			
Hexachloroethane	19.3	1.0	ug/l	25.0		77	55-120			
Indeno (1,2,3-cd) pyrene	25.1	1.0	ug/l	25.0		100	0.1-151			
Isophorone	19.0	1.0	ug/l	25.0		76	47-180			
Naphthalene	19.8	1.0	ug/l	25.0		79	36-120			
Nitrobenzene	19.1	1.0	ug/l	25.0		76	54-158			
N-Nitrosodimethylamine	14.0	1.0	ug/l	25.0		56	22-120			
N-Nitrosodi-n-propylamine	20.7	1.0	ug/l	25.0		83	14-198			
N-Nitrosodiphenylamine	16.5	1.0	ug/l	25.0		66	47-120			
Pentachlorophenol	18.9	1.0	ug/l	25.0		76	41-120			

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Project Manager: Ranjit Clarke

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1451 - EPA 625.1 (Continued)										
LCS (W0H1451-BS1)				**Prepared: 08/26/20**	**Analyzed: 09/17/20**					
Phenanthrene	22.8	1.0	ug/l	25.0		91	65-120			
Phenol	8.24	1.0	ug/l	25.0		33	17-120			
Pyrene	23.3	1.0	ug/l	25.0		93	70-120			
Surrogate(s)										
2,4,6-Tribromophenol	*35.9*		*ug/l*	*50.0*		*72*	*25-120*			
2-Fluorobiphenyl	*18.3*		*ug/l*	*25.0*		*73*	*22-120*			
2-Fluorophenol	*27.4*		*ug/l*	*50.0*		*55*	*17-120*			
Nitrobenzene-d5	*18.5*		*ug/l*	*25.0*		*74*	*47-120*			
Phenol-d5	*16.8*		*ug/l*	*50.0*		*34*	*12-120*			
Terphenyl-d14	*25.5*		*ug/l*	*25.0*		*102*	*44-129*			
LCS Dup (W0H1451-BSD1)				**Prepared: 08/26/20**	**Analyzed: 09/16/20**					
1,2,4-Trichlorobenzene	19.5	1.0	ug/l	25.0		78	57-130	3	30	
1,2-Dichlorobenzene	18.5	1.0	ug/l	25.0		74	57-120	0.4	30	
1,3-Dichlorobenzene	18.2	1.0	ug/l	25.0		73	55-120	1	30	
1,4-Dichlorobenzene	18.1	1.0	ug/l	25.0		72	55-120	0.8	30	
2,4,6-Trichlorophenol	19.5	1.0	ug/l	25.0		78	52-129	3	30	
2,4-Dichlorophenol	21.3	1.0	ug/l	25.0		85	53-122	2	30	
2,4-Dimethylphenol	21.7	1.0	ug/l	25.0		87	42-120	6	30	
2,4-Dinitrophenol	22.1	5.0	ug/l	25.0		88	0.1-173	2	30	
2,4-Dinitrotoluene	18.5	1.0	ug/l	25.0		74	48-127	8	30	
2,6-Dinitrotoluene	19.2	1.0	ug/l	25.0		77	68-137	3	30	
2-Chloronaphthalene	19.8	1.0	ug/l	25.0		79	65-120	5	30	
2-Chlorophenol	20.0	1.0	ug/l	25.0		80	36-120	1	30	
2-Methyl-4,6-dinitrophenol	17.9	1.0	ug/l	25.0		71	53-130	9	30	
2-Nitrophenol	20.6	1.0	ug/l	25.0		82	45-167	2	30	
3,3'-Dichlorobenzidine	20.4	1.0	ug/l	25.0		82	8-213	23	30	
4-Bromophenyl phenyl ether	19.2	1.0	ug/l	25.0		77	65-120	5	30	
4-Chloro-3-methylphenol	19.6	1.0	ug/l	25.0		78	41-128	2	30	
4-Chlorophenyl phenyl ether	18.6	1.0	ug/l	25.0		74	38-145	0.5	30	
4-Nitrophenol	7.26	2.0	ug/l	25.0		29	13-129	4	30	
Acenaphthene	21.1	1.0	ug/l	25.0		84	60-132	0.9	30	
Acenaphthylene	21.3	1.0	ug/l	25.0		85	54-126	3	30	
Anthracene	20.4	1.0	ug/l	25.0		82	43-120	10	30	
Benzo (a) anthracene	18.4	1.0	ug/l	25.0		74	42-133	18	30	
Benzo (a) pyrene	20.9	1.0	ug/l	25.0		84	32-148	18	30	
Benzo (b) fluoranthene	22.1	1.0	ug/l	25.0		88	42-140	17	30	AN-IP
Benzo (g,h,i) perylene	23.0	1.0	ug/l	25.0		92	0.1-195	16	30	
Benzo (k) fluoranthene	21.6	1.0	ug/l	25.0		86	25-146	16	30	AN-IP
Bis(2-chloroethoxy)methane	20.9	1.0	ug/l	25.0		83	49-165	5	30	

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Project Number: EO-432518

Project Manager: Ranjit Clarke

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1451 - EPA 625.1 (Continued)										
LCS Dup (W0H1451-BSD1)				**Prepared: 08/26/20**	**Analyzed: 09/16/20**					
Bis(2-chloroethyl)ether	18.3	1.0	ug/l	25.0		73	43-126	2	30	
Bis(2-chloroisopropyl)ether	19.3	1.0	ug/l	25.0		77	63-139	0.3	30	
Bis(2-ethylhexyl)phthalate	41.2	2.0	ug/l	25.0		165	29-137	57	30	BS-04
Butyl benzyl phthalate	19.6	1.0	ug/l	25.0		78	0.1-140	17	30	
Chrysene	21.3	1.0	ug/l	25.0		85	44-140	17	30	
Dibenzo (a,h) anthracene	22.0	1.0	ug/l	25.0		88	0.1-200	14	30	
Diethyl phthalate	19.9	1.0	ug/l	25.0		80	0.1-120	7	30	
Dimethyl phthalate	18.9	1.0	ug/l	25.0		76	0.1-120	3	30	
Di-n-butyl phthalate	21.8	1.0	ug/l	25.0		87	8-120	15	30	
Di-n-octyl phthalate	21.6	1.0	ug/l	25.0		87	19-132	14	30	
Fluoranthene	19.8	1.0	ug/l	25.0		79	43-121	12	30	
Fluorene	19.8	1.0	ug/l	25.0		79	70-120	2	30	
Hexachlorobenzene	19.4	1.0	ug/l	25.0		77	8-142	6	30	
Hexachlorobutadiene	20.8	1.0	ug/l	25.0		83	38-120	1	30	
Hexachlorocyclopentadiene	12.3	5.0	ug/l	25.0		49	10-120	7	30	
Hexachloroethane	18.8	1.0	ug/l	25.0		75	55-120	3	30	
Indeno (1,2,3-cd) pyrene	21.3	1.0	ug/l	25.0		85	0.1-151	16	30	
Isophorone	19.7	1.0	ug/l	25.0		79	47-180	4	30	
Naphthalene	20.1	1.0	ug/l	25.0		80	36-120	1	30	
Nitrobenzene	19.4	1.0	ug/l	25.0		77	54-158	1	30	
N-Nitrosodimethylamine	14.5	1.0	ug/l	25.0		58	22-120	4	30	
N-Nitrosodi-n-propylamine	21.4	1.0	ug/l	25.0		86	14-198	3	30	
N-Nitrosodiphenylamine	15.5	1.0	ug/l	25.0		62	47-120	6	30	
Pentachlorophenol	17.8	1.0	ug/l	25.0		71	41-120	6	30	
Phenanthrene	20.7	1.0	ug/l	25.0		83	65-120	10	30	
Phenol	8.49	1.0	ug/l	25.0		34	17-120	3	30	
Pyrene	20.5	1.0	ug/l	25.0		82	70-120	13	30	
Surrogate(s)										
2,4,6-Tribromophenol	*34.6*		*ug/l*	*50.0*		*69*	*25-120*			
2-Fluorobiphenyl	*19.0*		*ug/l*	*25.0*		*76*	*22-120*			
2-Fluorophenol	*27.7*		*ug/l*	*50.0*		*55*	*17-120*			
Nitrobenzene-d5	*19.1*		*ug/l*	*25.0*		*76*	*47-120*			
Phenol-d5	*17.3*		*ug/l*	*50.0*		*35*	*12-120*			
Terphenyl-d14	*23.5*		*ug/l*	*25.0*		*94*	*44-129*			

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Project Manager: Ranjit Clarke

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Quality Control Results

(Continued)

Anions by IC, EPA Method 300.1

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1446 - EPA 300.1										
Blank (W0H1446-BLK1)				**Prepared & Analyzed: 08/26/20**						
Bromate	ND	5.0	ug/l							
Chlorite	ND	10	ug/l							
Surrogate(s)										
Dichloroacetate	*513*		*ug/l*	*500*		*103*	*90-115*			
Dichloroacetate	*513*		*ug/l*	*500*		*103*	*90-115*			
LCS (W0H1446-BS1)				**Prepared & Analyzed: 08/26/20**						
Bromate	97.8	5.0	ug/l	100		98	85-115			
Chlorite	98.4	10	ug/l	100		98	85-115			
Surrogate(s)										
Dichloroacetate	*569*		*ug/l*	*500*		*114*	*90-115*			
Dichloroacetate	*569*		*ug/l*	*500*		*114*	*90-115*			
Matrix Spike (W0H1446-MS1)	**Source: 0H14013-01**			**Prepared & Analyzed: 08/26/20**						
Bromate	95.8	5.0	ug/l	100	ND	96	64-133			
Chlorite	96.0	10	ug/l	100	ND	96	78-129			
Surrogate(s)										
Dichloroacetate	*546*		*ug/l*	*500*		*109*	*90-115*			
Dichloroacetate	*546*		*ug/l*	*500*		*109*	*90-115*			
Matrix Spike (W0H1446-MS2)	**Source: 0H25036-01**			**Prepared & Analyzed: 08/26/20**						
Bromate	121	5.0	ug/l	100	ND	121	64-133			
Chlorite	102	10	ug/l	100	ND	102	78-129			
Surrogate(s)										
Dichloroacetate	*525*		*ug/l*	*500*		*105*	*90-115*			
Dichloroacetate	*525*		*ug/l*	*500*		*105*	*90-115*			
Matrix Spike Dup (W0H1446-MSD1)	**Source: 0H14013-01**			**Prepared & Analyzed: 08/26/20**						
Bromate	100	5.0	ug/l	100	ND	100	64-133	5	20	
Chlorite	93.4	10	ug/l	100	ND	93	78-129	3	20	
Surrogate(s)										
Dichloroacetate	*538*		*ug/l*	*500*		*108*	*90-115*			
Dichloroacetate	*538*		*ug/l*	*500*		*108*	*90-115*			
Matrix Spike Dup (W0H1446-MSD2)	**Source: 0H25036-01**			**Prepared & Analyzed: 08/26/20**						
Bromate	100	5.0	ug/l	100	ND	100	64-133	18	20	
Chlorite	95.4	10	ug/l	100	ND	95	78-129	7	20	
Surrogate(s)										
Dichloroacetate	*561*		*ug/l*	*500*		*112*	*90-115*			
Dichloroacetate	*561*		*ug/l*	*500*		*112*	*90-115*			

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Project Number: EO-432518

Project Manager: Ranjit Clarke

Reported:
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Quality Control Results

(Continued)

Carbamates and Urea Pesticides

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0178 - EPA 531.2										
Blank (W0I0178-BLK1)				**Prepared: 09/02/20**	**Analyzed: 09/09/20**					
3-Hydroxycarbofuran	ND	2.0	ug/l							
Aldicarb	ND	2.0	ug/l							
Aldicarb sulfone	ND	2.0	ug/l							
Aldicarb sulfoxide	ND	2.0	ug/l							
Carbaryl	ND	2.0	ug/l							
Carbofuran	ND	2.0	ug/l							
Methiocarb	ND	2.0	ug/l							
Methomyl	ND	2.0	ug/l							
Oxamyl	ND	2.0	ug/l							
Propoxur (Baygon)	ND	2.0	ug/l							
Surrogate(s)										
BDMC	*8.65*		*ug/l*	*10.0*		*87*	*70-130*			
LCS (W0I0178-BS1)				**Prepared: 09/02/20**	**Analyzed: 09/09/20**					
3-Hydroxycarbofuran	10.8	2.0	ug/l	10.0		108	70-130			
Aldicarb	9.56	2.0	ug/l	10.0		96	70-130			
Aldicarb sulfone	12.3	2.0	ug/l	10.0		123	70-130			
Aldicarb sulfoxide	11.1	2.0	ug/l	10.0		111	70-130			
Carbaryl	10.6	2.0	ug/l	10.0		106	70-130			
Carbofuran	12.4	2.0	ug/l	10.0		124	70-130			
Methiocarb	11.4	2.0	ug/l	10.0		114	70-130			
Methomyl	12.6	2.0	ug/l	10.0		126	70-130			
Oxamyl	11.9	2.0	ug/l	10.0		119	70-130			
Propoxur (Baygon)	12.5	2.0	ug/l	10.0		125	70-130			
Surrogate(s)										
BDMC	*10.7*		*ug/l*	*10.0*		*107*	*70-130*			
Matrix Spike (W0I0178-MS1)	**Source: 0H18001-01**			**Prepared: 09/02/20**	**Analyzed: 09/09/20**					
3-Hydroxycarbofuran	11.6	2.0	ug/l	10.0	ND	116	70-130			
Aldicarb	10.4	2.0	ug/l	10.0	ND	104	70-130			
Aldicarb sulfone	11.6	2.0	ug/l	10.0	ND	116	70-130			
Aldicarb sulfoxide	12.0	2.0	ug/l	10.0	ND	120	70-130			
Carbaryl	10.5	2.0	ug/l	10.0	ND	105	70-130			
Carbofuran	11.1	2.0	ug/l	10.0	ND	111	70-130			
Methiocarb	11.2	2.0	ug/l	10.0	ND	112	70-130			
Methomyl	11.5	2.0	ug/l	10.0	ND	115	70-130			
Oxamyl	10.7	2.0	ug/l	10.0	ND	107	70-130			
Propoxur (Baygon)	11.2	2.0	ug/l	10.0	ND	112	70-130			
Surrogate(s)										
BDMC	*10.4*		*ug/l*	*10.0*		*104*	*70-130*			
Matrix Spike Dup (W0I0178-MSD1)	**Source: 0H18001-01**			**Prepared: 09/02/20**	**Analyzed: 09/09/20**					
3-Hydroxycarbofuran	11.0	2.0	ug/l	10.0	ND	110	70-130	5	30	

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Quality Control Results

(Continued)

Carbamates and Urea Pesticides (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0178 - EPA 531.2 (Continued)										
Matrix Spike Dup (W0I0178-MSD1)	**Source: 0H18001-01**			**Prepared: 09/02/20**	**Analyzed: 09/09/20**					
Aldicarb	11.1	2.0	ug/l	10.0	ND	111	70-130	6	30	
Aldicarb sulfone	10.7	2.0	ug/l	10.0	ND	107	70-130	8	30	
Aldicarb sulfoxide	11.3	2.0	ug/l	10.0	ND	113	70-130	6	30	
Carbaryl	10.4	2.0	ug/l	10.0	ND	104	70-130	0.6	30	
Carbofuran	11.2	2.0	ug/l	10.0	ND	112	70-130	0.9	30	
Methiocarb	11.5	2.0	ug/l	10.0	ND	115	70-130	3	30	
Methomyl	11.5	2.0	ug/l	10.0	ND	115	70-130	0.1	30	
Oxamyl	13.0	2.0	ug/l	10.0	ND	130	70-130	19	30	
Propoxur (Baygon)	12.2	2.0	ug/l	10.0	ND	122	70-130	9	30	
Surrogate(s)										
BDMC	*10.2*		*ug/l*	*10.0*		*102*	*70-130*			

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Quality Control Results

(Continued)

Chlorinated Acids Herbicides by GC/ECD

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0008 - EPA 515.4										
Blank (W0I0008-BLK1)				**Prepared: 09/01/20 Analyzed: 09/02/20**						
2,4,5-T	ND	0.20	ug/l							
2,4,5-TP (Silvex)	ND	0.20	ug/l							
2,4-D	ND	0.40	ug/l							
2,4-DB	ND	2.0	ug/l							
3,5-Dichlorobenzoic acid	ND	1.0	ug/l							
Acifluorfen	ND	0.40	ug/l							
Bentazon	ND	2.0	ug/l							
Dalapon	ND	0.40	ug/l							
DCPA	ND	0.10	ug/l							
Dicamba	ND	0.60	ug/l							
Dichloroprop	ND	0.30	ug/l							
Dinoseb	ND	0.40	ug/l							
Pentachlorophenol	ND	0.20	ug/l							
Picloram	ND	0.60	ug/l							
Surrogate(s)										
2,4-DCAA	*11.1*		*ug/l*	*10.0*		*111*	*70-130*			
LCS (W0I0008-BS1)				**Prepared: 09/01/20 Analyzed: 09/02/20**						
2,4,5-T	4.22	0.20	ug/l	4.00		106	70-130			
2,4,5-TP (Silvex)	4.19	0.20	ug/l	4.00		105	70-130			
2,4-D	8.75	0.40	ug/l	8.00		109	70-130			
2,4-DB	19.4	2.0	ug/l	16.0		121	70-130			
3,5-Dichlorobenzoic acid	8.55	1.0	ug/l	8.00		107	70-130			
Acifluorfen	4.33	0.40	ug/l	4.00		108	70-130			
Bentazon	16.5	2.0	ug/l	16.0		103	70-130			
Dalapon	9.60	0.40	ug/l	8.00		120	70-130			
DCPA	4.70	0.10	ug/l	4.00		118	70-130			
Dicamba	8.29	0.60	ug/l	8.00		104	70-130			
Dichloroprop	8.60	0.30	ug/l	8.00		107	70-130			
Dinoseb	4.15	0.40	ug/l	4.00		104	70-130			
Pentachlorophenol	4.78	0.20	ug/l	4.00		120	70-130			
Picloram	4.71	0.60	ug/l	4.00		118	70-130			
Surrogate(s)										
2,4-DCAA	*12.1*		*ug/l*	*10.0*		*121*	*70-130*			
Matrix Spike (W0I0008-MS1)	**Source: 0H25012-01**			**Prepared: 09/01/20 Analyzed: 09/02/20**						
2,4,5-T	4.23	0.20	ug/l	4.00	ND	106	70-130			
2,4,5-TP (Silvex)	4.29	0.20	ug/l	4.00	ND	107	70-130			
2,4-D	8.65	0.40	ug/l	8.00	ND	108	70-130			
2,4-DB	23.0	2.0	ug/l	16.0	ND	144	70-130			MS-07
3,5-Dichlorobenzoic acid	8.78	1.0	ug/l	8.00	ND	110	70-130			

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Quality Control Results

(Continued)

Chlorinated Acids Herbicides by GC/ECD (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0008 - EPA 515.4 (Continued)										
Matrix Spike (W0I0008-MS1)	**Source: 0H25012-01**			**Prepared: 09/01/20**	**Analyzed: 09/02/20**					
Acifluorfen	4.31	0.40	ug/l	4.00	ND	108	70-130			
Bentazon	16.5	2.0	ug/l	16.0	ND	103	70-130			
Dalapon	8.80	0.40	ug/l	8.00	ND	110	70-130			
DCPA	4.59	0.10	ug/l	4.00	ND	115	70-130			
Dicamba	8.34	0.60	ug/l	8.00	ND	104	70-130			
Dichloroprop	8.70	0.30	ug/l	8.00	ND	109	70-130			
Dinoseb	4.08	0.40	ug/l	4.00	ND	102	70-130			
Pentachlorophenol	4.76	0.20	ug/l	4.00	ND	119	70-130			
Picloram	4.62	0.60	ug/l	4.00	ND	116	70-130			
Surrogate(s)										
2,4-DCAA	*12.3*		*ug/l*	*10.0*		*123*	*70-130*			
Matrix Spike Dup (W0I0008-MSD1)	**Source: 0H25012-01**			**Prepared: 09/01/20**	**Analyzed: 09/02/20**					
2,4,5-T	4.18	0.20	ug/l	4.00	ND	104	70-130	1	30	
2,4,5-TP (Silvex)	4.22	0.20	ug/l	4.00	ND	106	70-130	1	30	
2,4-D	8.59	0.40	ug/l	8.00	ND	107	70-130	0.8	30	
2,4-DB	23.1	2.0	ug/l	16.0	ND	144	70-130	0.4	30	MS-07
3,5-Dichlorobenzoic acid	8.73	1.0	ug/l	8.00	ND	109	70-130	0.6	30	
Acifluorfen	4.19	0.40	ug/l	4.00	ND	105	70-130	3	30	
Bentazon	16.4	2.0	ug/l	16.0	ND	103	70-130	0.2	30	
Dalapon	8.87	0.40	ug/l	8.00	ND	111	70-130	0.8	30	
DCPA	4.55	0.10	ug/l	4.00	ND	114	70-130	1	30	
Dicamba	8.25	0.60	ug/l	8.00	ND	103	70-130	1	30	
Dichloroprop	8.61	0.30	ug/l	8.00	ND	108	70-130	1	30	
Dinoseb	3.98	0.40	ug/l	4.00	ND	100	70-130	2	30	
Pentachlorophenol	4.72	0.20	ug/l	4.00	ND	118	70-130	0.9	30	
Picloram	4.57	0.60	ug/l	4.00	ND	114	70-130	1	30	
Surrogate(s)										
2,4-DCAA	*12.3*		*ug/l*	*10.0*		*123*	*70-130*			

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Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1544 - EPA 508										
Blank (W0H1544-BLK1)				**Prepared: 08/27/20 Analyzed: 09/09/20**						
4,4´-DDD	ND	0.010	ug/l							
4,4´-DDE	ND	0.010	ug/l							
4,4´-DDT	ND	0.010	ug/l							
Aldrin	ND	0.010	ug/l							
alpha-BHC	ND	0.010	ug/l							
Aroclor 1016	ND	0.10	ug/l							
Aroclor 1221	ND	0.10	ug/l							
Aroclor 1232	ND	0.10	ug/l							
Aroclor 1242	ND	0.10	ug/l							
Aroclor 1248	ND	0.10	ug/l							
Aroclor 1254	ND	0.10	ug/l							
Aroclor 1260	ND	0.10	ug/l							
beta-BHC	ND	0.010	ug/l							
Chlordane (tech)	ND	0.10	ug/l							
Chlorothalonil	ND	0.050	ug/l							
delta-BHC	ND	0.010	ug/l							
Dieldrin	ND	0.010	ug/l							
Endosulfan I	ND	0.010	ug/l							
Endosulfan II	ND	0.010	ug/l							
Endosulfan sulfate	ND	0.010	ug/l							
Endrin	ND	0.010	ug/l							
Endrin aldehyde	ND	0.010	ug/l							
gamma-BHC (Lindane)	ND	0.010	ug/l							
Heptachlor	ND	0.010	ug/l							
Heptachlor epoxide	ND	0.010	ug/l							
Hexachlorobenzene	ND	0.050	ug/l							
Hexachlorocyclopentadiene	ND	0.050	ug/l							
Methoxychlor	ND	0.010	ug/l							
PCBs, Total	ND	0.50	ug/l							
Propachlor	ND	0.050	ug/l							
Toxaphene	ND	0.50	ug/l							
Trifluralin	ND	0.010	ug/l							
Surrogate(s)										
Decachlorobiphenyl	*0.0915*		*ug/l*	*0.100*		*92*	*70-130*			
Tetrachloro-meta-xylene	*0.0745*		*ug/l*	*0.100*		*75*	*70-130*			
LCS (W0H1544-BS1)				**Prepared: 08/27/20 Analyzed: 09/08/20**						
4,4´-DDD	0.0874	0.010	ug/l	0.100		87	77-137			
4,4´-DDE	0.0922	0.010	ug/l	0.100		92	69-129			
4,4´-DDT	0.101	0.010	ug/l	0.100		101	82-142			

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Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1544 - EPA 508 (Continued)										
LCS (W0H1544-BS1)				**Prepared: 08/27/20 Analyzed: 09/08/20**						
Aldrin	0.0809	0.010	ug/l	0.100		81	56-116			
alpha-BHC	0.0832	0.010	ug/l	0.100		83	62-122			
beta-BHC	0.0932	0.010	ug/l	0.100		93	65-125			
delta-BHC	0.104	0.010	ug/l	0.100		104	72-132			
Dieldrin	0.0874	0.010	ug/l	0.100		87	57-117			
Endosulfan I	0.0706	0.010	ug/l	0.100		71	57-117			
Endosulfan II	0.0833	0.010	ug/l	0.100		83	62-122			
Endosulfan sulfate	0.0998	0.010	ug/l	0.100		100	72-132			
Endrin	0.0978	0.010	ug/l	0.100		98	58-118			
Endrin aldehyde	0.104	0.010	ug/l	0.100		104	58-118			
gamma-BHC (Lindane)	0.0852	0.010	ug/l	0.100		85	59-119			
Heptachlor	0.0860	0.010	ug/l	0.100		86	68-128			
Heptachlor epoxide	0.0864	0.010	ug/l	0.100		86	57-117			
Methoxychlor	0.0941	0.010	ug/l	0.100		94	75-135			
Surrogate(s)										
Decachlorobiphenyl	*0.0961*		*ug/l*	*0.100*		*96*	*70-130*			
Tetrachloro-meta-xylene	*0.0817*		*ug/l*	*0.100*		*82*	*70-130*			
LCS Dup (W0H1544-BSD1)				**Prepared: 08/27/20 Analyzed: 09/08/20**						
4,4´-DDD	0.0967	0.010	ug/l	0.100		97	77-137	10	20	
4,4´-DDE	0.100	0.010	ug/l	0.100		100	69-129	8	20	
4,4´-DDT	0.110	0.010	ug/l	0.100		110	82-142	8	20	
Aldrin	0.0843	0.010	ug/l	0.100		84	56-116	4	20	
alpha-BHC	0.0888	0.010	ug/l	0.100		89	62-122	6	20	
beta-BHC	0.102	0.010	ug/l	0.100		102	65-125	9	20	
delta-BHC	0.113	0.010	ug/l	0.100		113	72-132	8	20	
Dieldrin	0.0935	0.010	ug/l	0.100		94	57-117	7	20	
Endosulfan I	0.0761	0.010	ug/l	0.100		76	57-117	7	20	
Endosulfan II	0.0900	0.010	ug/l	0.100		90	62-122	8	20	
Endosulfan sulfate	0.106	0.010	ug/l	0.100		106	72-132	6	20	
Endrin	0.101	0.010	ug/l	0.100		101	58-118	3	20	
Endrin aldehyde	0.109	0.010	ug/l	0.100		109	58-118	5	20	
gamma-BHC (Lindane)	0.0915	0.010	ug/l	0.100		92	59-119	7	20	
Heptachlor	0.0890	0.010	ug/l	0.100		89	68-128	3	20	
Heptachlor epoxide	0.0934	0.010	ug/l	0.100		93	57-117	8	20	
Methoxychlor	0.104	0.010	ug/l	0.100		104	75-135	10	20	
Surrogate(s)										
Decachlorobiphenyl	*0.101*		*ug/l*	*0.100*		*101*	*70-130*			
Tetrachloro-meta-xylene	*0.0812*		*ug/l*	*0.100*		*81*	*70-130*			

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Quality Control Results (Continued)

Diquat and Paraquat by EPA 549.2

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1195 - EPA 549.2										
Blank (W0H1195-BLK1)				**Prepared: 08/21/20**	**Analyzed: 08/31/20**					
Diquat	ND	4.0	ug/l							
Paraquat	ND	4.0	ug/l							
LCS (W0H1195-BS1)				**Prepared: 08/21/20**	**Analyzed: 08/31/20**					
Diquat	17.3	4.0	ug/l	20.0		86	70-130			
Paraquat	15.9	4.0	ug/l	20.0		80	70-130			
Matrix Spike (W0H1195-MS1)	**Source: 0G21010-02**			**Prepared: 08/21/20**	**Analyzed: 08/31/20**					
Diquat	15.2	4.0	ug/l	20.0	ND	76	46-122			
Paraquat	17.2	4.0	ug/l	20.0	ND	86	38-129			
Matrix Spike (W0H1195-MS2)	**Source: 0G21010-01**			**Prepared: 08/21/20**	**Analyzed: 08/31/20**					
Diquat	13.5	4.0	ug/l	20.0	ND	68	46-122			
Paraquat	16.8	4.0	ug/l	20.0	ND	84	38-129			
Matrix Spike Dup (W0H1195-MSD1)	**Source: 0G21010-02**			**Prepared: 08/21/20**	**Analyzed: 08/31/20**					
Diquat	13.5	4.0	ug/l	20.0	ND	68	46-122	12	30	
Paraquat	15.5	4.0	ug/l	20.0	ND	78	38-129	11	30	
Matrix Spike Dup (W0H1195-MSD2)	**Source: 0G21010-01**			**Prepared: 08/21/20**	**Analyzed: 08/31/20**					
Diquat	13.9	4.0	ug/l	20.0	ND	70	46-122	3	30	
Paraquat	17.2	4.0	ug/l	20.0	ND	86	38-129	2	30	

Quality Control Results (Continued)

Endothall By EPA 548.1

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1346 - EPA 548.1										
Blank (W0H1346-BLK1)				**Prepared: 08/25/20**	**Analyzed: 08/27/20**					
Endothall	ND	40	ug/l							
LCS (W0H1346-BS1)				**Prepared: 08/25/20**	**Analyzed: 08/27/20**					
Endothall	73.7	40	ug/l	100		74	31-117			
Matrix Spike (W0H1346-MS1)	**Source: 0H20013-05**			**Prepared: 08/25/20**	**Analyzed: 08/27/20**					
Endothall	19.2	80	ug/l	200	ND	10	0.1-109			
Matrix Spike Dup (W0H1346-MSD1)	**Source: 0H20013-05**			**Prepared: 08/25/20**	**Analyzed: 08/27/20**					
Endothall	18.0	80	ug/l	200	ND	9	0.1-109	7	30	

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Quality Control Results

(Continued)

Glyphosate by EPA 547

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1697 - EPA 547										
Blank (W0H1697-BLK1)				**Prepared: 08/31/20**	**Analyzed: 09/01/20**					
Glyphosate	ND	5.0	ug/l							
LCS (W0H1697-BS1)				**Prepared: 08/31/20**	**Analyzed: 09/01/20**					
Glyphosate	22.1	5.0	ug/l	25.0		88	70-130			
Matrix Spike (W0H1697-MS1)	**Source: 0H17059-01**			**Prepared: 08/31/20**	**Analyzed: 09/01/20**					
Glyphosate	21.3	5.0	ug/l	25.0	ND	85	41-149			
Matrix Spike (W0H1697-MS2)	**Source: 0H24043-01**			**Prepared: 08/31/20**	**Analyzed: 09/01/20**					
Glyphosate	23.0	5.0	ug/l	25.0	ND	92	41-149			
Matrix Spike Dup (W0H1697-MSD1)	**Source: 0H17059-01**			**Prepared: 08/31/20**	**Analyzed: 09/01/20**					
Glyphosate	21.8	5.0	ug/l	25.0	ND	87	41-149	2	30	
Matrix Spike Dup (W0H1697-MSD2)	**Source: 0H24043-01**			**Prepared: 08/31/20**	**Analyzed: 09/01/20**					
Glyphosate	22.8	5.0	ug/l	25.0	ND	91	41-149	0.6	30	

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Quality Control Results

(Continued)

Haloacetic Acids (HAAs) by GC/ECD

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1575 - EPA 552.3										
Blank (W0H1575-BLK1)				**Prepared: 08/28/20**	**Analyzed: 09/02/20**					
Dibromoacetic acid (dbaa)	ND	1.0	ug/l							
Dichloroacetic acid (dcaa)	ND	1.0	ug/l							
HAA5, Total	ND	1.0	ug/l							
Monobromoacetic acid (mbaa)	ND	1.0	ug/l							
Monochloroacetic acid (mcaa)	ND	2.0	ug/l							
Trichloroacetic acid (tcaa)	ND	1.0	ug/l							
Surrogate(s)										
2-Bromobutyric acid	*10.0*		*ug/l*	*10.0*		*100*	*70-130*			
LCS (W0H1575-BS1)				**Prepared: 08/28/20**	**Analyzed: 09/02/20**					
Dibromoacetic acid (dbaa)	9.82	1.0	ug/l	10.0		98	70-130			
Dichloroacetic acid (dcaa)	9.15	1.0	ug/l	10.0		92	70-130			
Monobromoacetic acid (mbaa)	9.68	1.0	ug/l	10.0		97	70-130			
Monochloroacetic acid (mcaa)	9.87	2.0	ug/l	10.0		99	70-130			
Trichloroacetic acid (tcaa)	9.64	1.0	ug/l	10.0		96	70-130			
Surrogate(s)										
2-Bromobutyric acid	*10.2*		*ug/l*	*10.0*		*102*	*70-130*			
Matrix Spike (W0H1575-MS1)	**Source: 0H24020-01**			**Prepared: 08/28/20**	**Analyzed: 09/02/20**					
Dibromoacetic acid (dbaa)	10.7	1.0	ug/l	10.0	1.41	93	70-130			
Dichloroacetic acid (dcaa)	11.7	1.0	ug/l	10.0	2.74	89	70-130			
Monobromoacetic acid (mbaa)	9.41	1.0	ug/l	10.0	ND	94	70-130			
Monochloroacetic acid (mcaa)	10.2	2.0	ug/l	10.0	1.82	84	70-130			
Trichloroacetic acid (tcaa)	11.1	1.0	ug/l	10.0	1.67	95	70-130			
Surrogate(s)										
2-Bromobutyric acid	*9.64*		*ug/l*	*10.0*		*96*	*70-130*			
Matrix Spike Dup (W0H1575-MSD1)	**Source: 0H24020-01**			**Prepared: 08/28/20**	**Analyzed: 09/02/20**					
Dibromoacetic acid (dbaa)	11.4	1.0	ug/l	10.0	1.41	100	70-130	6	30	
Dichloroacetic acid (dcaa)	11.5	1.0	ug/l	10.0	2.74	88	70-130	2	30	
Monobromoacetic acid (mbaa)	9.02	1.0	ug/l	10.0	ND	90	70-130	4	30	
Monochloroacetic acid (mcaa)	8.97	2.0	ug/l	10.0	1.82	71	70-130	13	30	
Trichloroacetic acid (tcaa)	11.8	1.0	ug/l	10.0	1.67	101	70-130	6	30	
Surrogate(s)										
2-Bromobutyric acid	*9.96*		*ug/l*	*10.0*		*100*	*70-130*			

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Quality Control Results (Continued)

Hexavalent Chromium by IC

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0002 - EPA 218.6										
Blank (W0I0002-BLK1)				**Prepared & Analyzed: 09/01/20**						
Chromium 6+	ND	0.020	ug/l							
LCS (W0I0002-BS1)				**Prepared & Analyzed: 09/01/20**						
Chromium 6+	4.70	0.020	ug/l	5.00		94	90-110			
Matrix Spike (W0I0002-MS1)	**Source: 0H18001-01**			**Prepared & Analyzed: 09/01/20**						
Chromium 6+	12.2	0.020	ug/l	5.00	7.37	96	88-112			
Matrix Spike (W0I0002-MS2)	**Source: 0H19008-01**			**Prepared & Analyzed: 09/01/20**						
Chromium 6+	8.70	0.020	ug/l	5.00	3.90	96	88-112			
Matrix Spike Dup (W0I0002-MSD1)	**Source: 0H18001-01**			**Prepared & Analyzed: 09/01/20**						
Chromium 6+	12.2	0.020	ug/l	5.00	7.37	97	88-112	0.5	10	
Matrix Spike Dup (W0I0002-MSD2)	**Source: 0H19008-01**			**Prepared & Analyzed: 09/01/20**						
Chromium 6+	8.76	0.020	ug/l	5.00	3.90	97	88-112	0.6	10	

Quality Control Results (Continued)

Nitrosamines by isotopic dilution GC/MS CI Mode

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1369 - EPA 1625M										
Blank (W0H1369-BLK1)				**Prepared: 08/25/20 Analyzed: 08/31/20**						
N-Nitrosodimethylamine	ND	2.0	ng/l							
LCS (W0H1369-BS1)				**Prepared: 08/25/20 Analyzed: 08/31/20**						
N-Nitrosodimethylamine	2.62	2.0	ng/l	2.00		131	50-150			
LCS Dup (W0H1369-BSD1)				**Prepared: 08/25/20 Analyzed: 08/31/20**						
N-Nitrosodimethylamine	2.01	2.0	ng/l	2.00		100	50-150	26	50	

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Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0009 - EPA 525.2										
Blank (W0I0009-BLK1)				**Prepared: 09/01/20 Analyzed: 09/04/20**						
Alachlor	ND	0.10	ug/l							
Atrazine	ND	0.10	ug/l							
Benzo (a) pyrene	ND	0.10	ug/l							
Bis(2-ethylhexyl)adipate	ND	2.0	ug/l							
Bis(2-ethylhexyl)phthalate	ND	2.0	ug/l							
Bromacil	ND	0.50	ug/l							
Butachlor	ND	0.10	ug/l							
Captan	ND	1.0	ug/l							
Chlorpropham	ND	0.10	ug/l							
Cyanazine	ND	0.10	ug/l							
Diazinon	ND	0.10	ug/l							
Dimethoate	ND	0.20	ug/l							
Diphenamid	ND	0.10	ug/l							
Disulfoton	ND	0.10	ug/l							
EPTC	ND	0.10	ug/l							
Metolachlor	ND	0.10	ug/l							
Metribuzin	ND	0.10	ug/l							
Molinate	ND	0.10	ug/l							
Naphthalene	0.000295		ug/l							
Prometon	ND	0.10	ug/l							
Prometryn	ND	0.10	ug/l							
Propachlor	ND		ug/l							
Simazine	ND	0.10	ug/l							
Terbacil	ND	2.0	ug/l							
Thiobencarb	ND	0.10	ug/l							
Trithion	ND	0.10	ug/l							
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.82*		*ug/l*	*5.00*		*96*	*70-130*			
Perylene-d12	*3.70*		*ug/l*	*5.00*		*74*	*50-120*			
Triphenyl phosphate	*4.69*		*ug/l*	*5.00*		*94*	*70-130*			
Blank (W0I0009-BLK2)				**Prepared: 09/01/20 Analyzed: 09/08/20**						
Atrazine	ND	0.10	ug/l							QC-2
Molinate	ND	0.10	ug/l							QC-2
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.84*		*ug/l*	*5.00*		*97*	*70-130*			*QC-2*
Perylene-d12	*3.66*		*ug/l*	*5.00*		*73*	*50-120*			*QC-2*
Triphenyl phosphate	*4.77*		*ug/l*	*5.00*		*95*	*70-130*			*QC-2*
LCS (W0I0009-BS1)				**Prepared: 09/01/20 Analyzed: 09/04/20**						
Alachlor	5.08	0.10	ug/l	5.00		102	70-130			

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Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0009 - EPA 525.2 (Continued)										
LCS (W0I0009-BS1)				**Prepared: 09/01/20 Analyzed: 09/04/20**						
Atrazine	5.80	0.10	ug/l	5.00		116	70-130			
Benzo (a) pyrene	4.65	0.10	ug/l	5.00		93	60-130			
Bis(2-ethylhexyl)adipate	5.34	2.0	ug/l	5.00		107	70-130			
Bis(2-ethylhexyl)phthalate	5.35	2.0	ug/l	5.00		107	70-130			
Bromacil	4.89	0.50	ug/l	5.00		98	70-130			
Butachlor	5.18	0.10	ug/l	5.00		104	70-130			
Captan	4.59	1.0	ug/l	5.00		92	70-130			
Chlorpropham	5.59	0.10	ug/l	5.00		112	70-130			
Cyanazine	5.87	0.10	ug/l	5.00		117	70-130			
Diazinon	4.30	0.10	ug/l	5.00		86	50-120			
Dimethoate	4.40	0.20	ug/l	5.00		88	50-120			
Diphenamid	6.15	0.10	ug/l	5.00		123	70-130			
Disulfoton	4.93	0.10	ug/l	5.00		99	50-120			
EPTC	5.98	0.10	ug/l	5.00		120	70-130			
Metolachlor	5.51	0.10	ug/l	5.00		110	60-130			
Metribuzin	4.70	0.10	ug/l	5.00		94	50-120			
Molinate	5.42	0.10	ug/l	5.00		108	70-130			
Naphthalene	5.14		ug/l	5.00		103	70-130			
Prometon	2.39	0.10	ug/l	5.00		48	15-120			
Prometryn	3.87	0.10	ug/l	5.00		77	30-120			
Simazine	5.38	0.10	ug/l	5.00		108	60-130			
Terbacil	6.17	2.0	ug/l	5.00		123	70-130			
Thiobencarb	5.60	0.10	ug/l	5.00		112	70-130			
Trithion	4.90	0.10	ug/l	5.00		98	70-130			
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.77*		*ug/l*	*5.00*		*95*	*70-130*			
Perylene-d12	*4.86*		*ug/l*	*5.00*		*97*	*50-120*			
Triphenyl phosphate	*5.43*		*ug/l*	*5.00*		*109*	*70-130*			
LCS (W0I0009-BS2)				**Prepared: 09/01/20 Analyzed: 09/04/20**						
Propachlor	5.30		ug/l	5.00		106	70-130			
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.99*		*ug/l*	*5.00*		*100*	*70-130*			
Perylene-d12	*3.92*		*ug/l*	*5.00*		*78*	*50-120*			
Triphenyl phosphate	*5.21*		*ug/l*	*5.00*		*104*	*70-130*			
LCS (W0I0009-BS3)				**Prepared: 09/01/20 Analyzed: 09/08/20**						
Atrazine	5.74	0.10	ug/l	5.00		115	70-130			QC-2
Molinate	5.44	0.10	ug/l	5.00		109	70-130			QC-2
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.82*		*ug/l*	*5.00*		*96*	*70-130*			*QC-2*
Perylene-d12	*4.79*		*ug/l*	*5.00*		*96*	*50-120*			*QC-2*

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Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0009 - EPA 525.2 (Continued)										
LCS (W0I0009-BS3)				**Prepared: 09/01/20**	**Analyzed: 09/08/20**					
Surrogate(s)										
Triphenyl phosphate	*5.43*		*ug/l*	*5.00*		*109*	*70-130*			QC-2
LCS Dup (W0I0009-BSD1)				**Prepared: 09/01/20**	**Analyzed: 09/04/20**					
Alachlor	4.58	0.10	ug/l	5.00		92	70-130	11	30	
Atrazine	5.68	0.10	ug/l	5.00		114	70-130	2	30	
Benzo (a) pyrene	3.82	0.10	ug/l	5.00		76	60-130	20	30	
Bis(2-ethylhexyl)adipate	5.14	2.0	ug/l	5.00		103	70-130	4	30	
Bis(2-ethylhexyl)phthalate	5.30	2.0	ug/l	5.00		106	70-130	0.9	30	
Bromacil	5.08	0.50	ug/l	5.00		102	70-130	4	30	
Butachlor	4.69	0.10	ug/l	5.00		94	70-130	10	30	
Captan	2.92	1.0	ug/l	5.00		58	70-130	45	30	BS-04
Chlorpropham	5.52	0.10	ug/l	5.00		110	70-130	1	30	
Cyanazine	2.49	0.10	ug/l	5.00		50	70-130	81	30	BS-04
Diazinon	3.94	0.10	ug/l	5.00		79	50-120	9	30	
Dimethoate	2.47	0.20	ug/l	5.00		49	50-120	56	30	BS-04
Diphenamid	6.17	0.10	ug/l	5.00		123	70-130	0.4	30	
Disulfoton	4.53	0.10	ug/l	5.00		91	50-120	9	30	
EPTC	5.84	0.10	ug/l	5.00		117	70-130	2	30	
Metolachlor	5.50	0.10	ug/l	5.00		110	60-130	0.2	30	
Metribuzin	4.29	0.10	ug/l	5.00		86	50-120	9	30	
Molinate	5.27	0.10	ug/l	5.00		105	70-130	3	30	
Naphthalene	5.00		ug/l	5.00		100	70-130	3	30	
Prometon	1.96	0.10	ug/l	5.00		39	15-120	20	30	
Prometryn	4.00	0.10	ug/l	5.00		80	30-120	3	30	
Simazine	5.26	0.10	ug/l	5.00		105	60-130	2	30	
Terbacil	0.425	2.0	ug/l	5.00		8	70-130	174	30	BS-04
Thiobencarb	5.57	0.10	ug/l	5.00		111	70-130	0.5	30	
Trithion	3.07	0.10	ug/l	5.00		61	70-130	46	30	BS-04
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.84*		*ug/l*	*5.00*		*97*	*70-130*			
Perylene-d12	*3.88*		*ug/l*	*5.00*		*78*	*50-120*			
Triphenyl phosphate	*5.56*		*ug/l*	*5.00*		*111*	*70-130*			
LCS Dup (W0I0009-BSD2)				**Prepared: 09/01/20**	**Analyzed: 09/04/20**					
Propachlor	4.99		ug/l	5.00		100	70-130	6	30	
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.88*		*ug/l*	*5.00*		*98*	*70-130*			
Perylene-d12	*4.51*		*ug/l*	*5.00*		*90*	*50-120*			
Triphenyl phosphate	*4.70*		*ug/l*	*5.00*		*94*	*70-130*			
LCS Dup (W0I0009-BSD3)				**Prepared: 09/01/20**	**Analyzed: 09/08/20**					
Atrazine	5.70	0.10	ug/l	5.00		114	70-130	0.8	30	QC-2

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Quality Control Results (Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0I0009 - EPA 525.2 (Continued)										
LCS Dup (W0I0009-BSD3)				**Prepared: 09/01/20 Analyzed: 09/08/20**						
Molinate	5.31	0.10	ug/l	5.00		106	70-130	2	30	QC-2
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.76*		*ug/l*	*5.00*		*95*	*70-130*			QC-2
Perylene-d12	*4.21*		*ug/l*	*5.00*		*84*	*50-120*			QC-2
Triphenyl phosphate	*5.64*		*ug/l*	*5.00*		*113*	*70-130*			QC-2

Quality Control Results (Continued)

Volatile Organics by P&T and GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0H1345 - EPA 524.3										
Blank (W0H1345-BLK1)				**Prepared & Analyzed: 08/25/20**						
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l							
1,2-Dibromoethane (EDB)	ND	0.020	ug/l							
LCS (W0H1345-BS1)				**Prepared & Analyzed: 08/25/20**						
1,2-Dibromo-3-chloropropane	0.0616	0.010	ug/l	0.0500		123	70-130			
1,2-Dibromoethane (EDB)	0.0536	0.020	ug/l	0.0500		107	70-130			
LCS Dup (W0H1345-BSD1)				**Prepared & Analyzed: 08/25/20**						
1,2-Dibromo-3-chloropropane	0.0510	0.010	ug/l	0.0500		102	70-130	19	30	
1,2-Dibromoethane (EDB)	0.0501	0.020	ug/l	0.0500		100	70-130	7	30	
Duplicate (W0H1345-DUP1)	**Source: 0H20067-07**			**Prepared & Analyzed: 08/25/20**						
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l		ND				30	
1,2-Dibromoethane (EDB)	ND	0.020	ug/l		ND				30	

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Project Manager: Ranjit Clarke

Reported:
09/22/2020 09:39

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.
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-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QC-2	This QC sample was reanalyzed to complement samples that require re-analysis on different date. See analysis date.
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
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

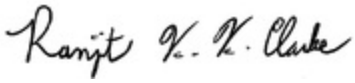
Lab Job Number:	432521
Report Level:	II
Report Date:	09/03/2020

Analytical Report *prepared for:*

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Project: MALIBU - Annual - SNMP MOU

Authorized for release by:



Ranjit K Clarke, Project 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, CDC ELITE Member

ENTHALPY ANALYTICAL

Sample Summary

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #:	432521
Project No:	MALIBU
Location:	Annual - SNMP MOU
Date Received:	08/20/20

Sample ID	Lab ID	Collected	Matrix
MCWP-MW10	432521-001	08/20/20 08:30	Water

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: 432521		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:	
Email:	kbrtalik@rinconconsultants.com	P.O. #:	20-09665
Address:	180 N. Ashwood Ave.	Address:	
	Ventura, CA 93003		
Phone:	(805) 644-4455	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		MC
MCWP-MW10	8/20/20	08:30	W			X	X	X	X	X		
~~CCPE~~						X	X	X	X	X		MC
~~MBCMW-9~~						X	X	X	X	X		MC
~~SMBRP-7B~~						X	X	X	X	X		MC
~~MCWP-MW05~~										X	X	MC
~~MCWP-MW06~~										X	X	MC

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Michelle Carter	Rincon Consultants Inc.	8/20/20 / 1300
[1] Received By:		JAIME A	EA	8/20/2020 1300
[2] Relinquished By:		JAIME A	EA	8/20/2020 1500
[2] Received By:		Christine C.	EA	8/20/20 1500
[3] Relinquished By:				
[3] Received By:				

0.6/3.7 0.9/3.3

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Project: _____

Date Received: 8/20/20 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: 3.7 #2: 3.3 #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: 0.6 #2: 0.9 #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: Anne Cano Date: 8/20/20

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www.enthalpy.com/socal

ENTHALPY ANALYTICAL

Analysis Results for 432521

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #: 432521
Project No: MALIBU
Location: Annual - SNMP MOU
Date Received: 08/20/20

Sample ID: MCWP-MW10 **Lab ID: 432521-001** **Collected: 08/20/20 08:30**
Matrix: Water

432521-001 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	251448	08/21/20 16:34	08/21/20 16:34	RKV
Nitrogen, Nitrate	**0.65**		mg/L	0.10	0.05	1	251448	08/21/20 16:34	08/21/20 16:34	RKV
Nitrogen, Nitrate/Nitrite	**0.65**		mg/L	0.10		1	251448	08/21/20 16:34	08/21/20 16:34	RKV
Method: EPA 350.1 Prep Method: METHOD										
Ammonia-N	ND		mg/L	0.10	0.010	1	251771	08/27/20	08/27/20	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.22**		mg/L			1	251970	08/31/20	08/31/20	SLL
Method: SM 4500-NH3-G										
Nitrogen, Total Kjeldahl	**0.22**	J	mg/L	0.40	0.030	1	251908	08/27/20	08/30/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.057**		mg/L	0.020	0.010	1	251694	08/25/20	08/25/20	SGC
Method: SM 9223Bb										
Coliform, Total	**57**		MPN/100ml	1.0		1	251414	08/20/20 16:23	08/21/20 13:50	CCO
Coliform, E. Coli	<1.0		MPN/100ml	1.0		1	251414	08/20/20 16:23	08/21/20 13:50	CCO
Fecal Coliform	<1.0		MPN/100ml	1.0		1	251414	08/20/20 16:23	08/21/20 13:50	CCO
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**1,900**		mg/L	20		2	251595	08/24/20	08/25/20	ATP

< 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:** QC882387	**Batch:** 251448
Matrix: Water	**Method:** EPA 300.0	**Prep Method:** METHOD

QC882387 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	08/21/20 15:27	08/21/20 15:27
Nitrogen, Nitrate	ND		mg/L	0.10	0.05	08/21/20 15:27	08/21/20 15:27
Nitrogen, Nitrate/Nitrite	ND		mg/L	0.10		08/21/20 15:27	08/21/20 15:27

Type: Lab Control Sample	**Lab ID:** QC882388	**Batch:** 251448
Matrix: Water	**Method:** EPA 300.0	**Prep Method:** METHOD

QC882388 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Nitrite	9.674	9.150	mg/L	106%		90-110
Nitrogen, Nitrate	9.599	9.030	mg/L	106%		90-110

Type: Matrix Spike	**Lab ID:** QC882389	**Batch:** 251448
Matrix (Source ID): Water (432551-001)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC882389 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Nitrite	9.574	ND	9.150	mg/L	105%		80-120	1
Nitrogen, Nitrate	9.444	0.3900	9.030	mg/L	100%		80-120	1

Type: Matrix Spike Duplicate	**Lab ID:** QC882390	**Batch:** 251448
Matrix (Source ID): Water (432551-001)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC882390 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Nitrite	9.793	ND	9.150	mg/L	107%		80-120	2	20	1
Nitrogen, Nitrate	9.644	0.3900	9.030	mg/L	102%		80-120	2	20	1

Type: Matrix Spike	**Lab ID:** QC882480	**Batch:** 251448
Matrix (Source ID): Water (432521-001)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC882480 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Nitrite	9.596	ND	9.150	mg/L	105%		80-120	1
Nitrogen, Nitrate	10.28	0.6530	9.030	mg/L	107%		80-120	1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC882481**	**Batch:**	**251448**
Matrix (Source ID):	**Water (432521-001)**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC882481 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Nitrite	9.669	ND	9.150	mg/L	106%		80-120	1	20	1
Nitrogen, Nitrate	10.31	0.6530	9.030	mg/L	107%		80-120	0	20	1

Type:	**Blank**	**Lab ID:**	**QC882822**	**Batch:**	**251595**
Matrix:	**Water**	**Method:**	**SM2540C**	**Prep Method:**	**METHOD**

QC882822 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Dissolved Solids	ND		mg/L	10		08/24/20	08/25/20

Type:	**Lab Control Sample**	**Lab ID:**	**QC882823**	**Batch:**	**251595**
Matrix:	**Water**	**Method:**	**SM2540C**	**Prep Method:**	**METHOD**

QC882823 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Dissolved Solids	102.0	100.0	mg/L	102%		90-110

Type:	**Sample Duplicate**	**Lab ID:**	**QC882824**	**Batch:**	**251595**
Matrix (Source ID):	**Water (432588-011)**	**Method:**	**SM2540C**	**Prep Method:**	**METHOD**

QC882824 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Dissolved Solids	1,252	1276	mg/L		2	5	2

Type:	**Blank**	**Lab ID:**	**QC883038**	**Batch:**	**251694**
Matrix:	**Water**	**Method:**	**SM 4500-P-B5-E**		

QC883038 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Phosphorus	ND		mg/L	0.020	0.010	08/25/20	08/25/20

Type:	**Lab Control Sample**	**Lab ID:**	**QC883039**	**Batch:**	**251694**
Matrix:	**Water**	**Method:**	**SM 4500-P-B5-E**		

QC883039 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phosphorus	0.4320	0.4000	mg/L	108%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC883040**	**Batch:**	**251694**
Matrix (Source ID):	**Water (432521-001)**	**Method:**	**SM 4500-P-B5-E**		

QC883040 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phosphorus	0.5480	0.05700	0.4000	mg/L	123%		75-125	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC883041**	**Batch:**	**251694**
Matrix (Source ID):	**Water (432521-001)**	**Method:**	**SM 4500-P-B5-E**		

QC883041 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phosphorus	0.5130	0.05700	0.4000	mg/L	114%		75-125	7	20	1

Type:	**Blank**	**Lab ID:**	**QC883240**	**Batch:**	**251771**
Matrix:	**Water**	**Method:**	**EPA 350.1**	**Prep Method:**	**METHOD**

QC883240 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Ammonia-N	ND		mg/L	0.10	0.010	08/27/20	08/27/20

Type:	**Lab Control Sample**	**Lab ID:**	**QC883241**	**Batch:**	**251771**
Matrix:	**Water**	**Method:**	**EPA 350.1**	**Prep Method:**	**METHOD**

QC883241 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Ammonia-N	2.515	2.500	mg/L	101%		80-120

Type:	**Matrix Spike**	**Lab ID:**	**QC883242**	**Batch:**	**251771**
Matrix (Source ID):	**Water (432521-001)**	**Method:**	**EPA 350.1**	**Prep Method:**	**METHOD**

QC883242 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Ammonia-N	2.350	ND	2.500	mg/L	94%		80-120	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC883243**	**Batch:**	**251771**
Matrix (Source ID):	**Water (432521-001)**	**Method:**	**EPA 350.1**	**Prep Method:**	**METHOD**

QC883243 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Ammonia-N	2.390	ND	2.500	mg/L	96%		80-120	2	20	1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID: QC883634**	**Batch: 251908**
Matrix: Water	**Method: SM 4500-NH3-G**	

QC883634 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Total Kjeldahl	ND		mg/L	0.20	0.015	08/27/20	08/30/20

Type: Lab Control Sample	**Lab ID: QC883635**	**Batch: 251908**
Matrix: Water	**Method: SM 4500-NH3-G**	

QC883635 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Total Kjeldahl	2.618	2.500	mg/L	105%		80-120

Type: Matrix Spike	**Lab ID: QC883636**	**Batch: 251908**
Matrix (Source ID): Water (432551-001)	**Method: SM 4500-NH3-G**	

QC883636 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Total Kjeldahl	12.36	ND	12.50	mg/L	99%		80-120	2.5

Type: Matrix Spike Duplicate	**Lab ID: QC883637**	**Batch: 251908**
Matrix (Source ID): Water (432551-001)	**Method: SM 4500-NH3-G**	

QC883637 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Total Kjeldahl	13.80	ND	12.50	mg/L	110%		80-120	11	20	2.5

ND Not Detected

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

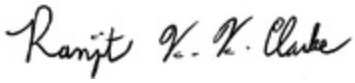
Lab Job Number:	432570
Report Level:	II
Report Date:	09/03/2020

Analytical Report *prepared for:*

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Project: MALIBU - Annual - SNMP MOU

Authorized for release by:



Ranjit K Clarke, Project 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, CDC ELITE Member

ENTHALPY ANALYTICAL

Sample Summary

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #:	432570
Project No:	MALIBU
Location:	Annual - SNMP MOU
Date Received:	08/21/20

Sample ID	Lab ID	Collected	Matrix
SMBRP-7B	432570-001	08/21/20 10:45	Water
MCWP-MW05	432570-002	08/21/20 10:45	Water

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
931 W. Barkley Ave., Orange, CA 92868	Lab No: 432570	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:	
Email:	Kbrtalik@RinconConsultants.com	P.O. #:	20-09665
Address:	180 N. Ashwood Ave.	Address:	
	Ventura, CA 93003		
Phone:	(805) 644-4455	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		MC
~~MCWP-MW10~~						X	X	X	X	X		MC
~~CCPE~~						X	X	X	X	X		MC
~~MBCMW-9~~						X	X	X	X	X		MC
SMBRP-7B	8/21/20	~~0945~~ NC 1045	W			X	X	X	X	X		
MCWP-MW05	8/21/20	0945	W							X	X	
~~MCWP-MW06~~										X	X	MC

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Michelle Carter	Rincon Consultants, INC.	8/21/20 1154
[1] Received By:		Jaime A	EA	8/21/2020 1154
[2] Relinquished By:		JAIME A	EA	8/21/2020 1321
[2] Received By:		Elizabeth Ramirez	EA.	8/21/20 13:21
[3] Relinquished By:				
[3] Received By:				

8.21.20

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: Malibu-Annual

Date Received: 08/21/20 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: 2.9 #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: 0.8 #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

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: 8/21/20

ENTHALPY ANALYTICAL

Analysis Results for 432570

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #: 432570
Project No: MALIBU
Location: Annual - SNMP MOU
Date Received: 08/21/20

Sample ID: SMBRP-7B **Lab ID: 432570-001** **Collected: 08/21/20 10:45**
Matrix: Water

432570-001 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	251448	08/22/20 00:31	08/22/20 00:31	RKV
Nitrogen, Nitrate	**0.70**		mg/L	0.10	0.05	1	251448	08/22/20 00:31	08/22/20 00:31	RKV
Nitrogen, Nitrate/Nitrite	**0.70**		mg/L	0.10		1	251448	08/22/20 00:31	08/22/20 00:31	RKV
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.070**		mg/L			1	251970	08/31/20	08/31/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	**0.23**		mg/L	0.10	0.010	1	251760	08/26/20	08/27/20	ATP
Nitrogen, Total Kjeldahl	**0.30**	J	mg/L	0.40	0.030	1	251908	08/27/20	08/30/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.27**		mg/L	0.020	0.010	1	251607	08/26/20	08/26/20	SGC
Method: SM 9223Bb										
Coliform, Total	**1.0**		MPN/100ml	1.0		1	251479	08/21/20 14:30	08/22/20 12:50	CCO
Fecal Coliform	**1.0**		MPN/100ml	1.0		1	251479	08/21/20 14:30	08/22/20 12:50	CCO
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**2,700**		mg/L	20		2	251595	08/24/20	08/25/20	ATP

Sample ID: MCWP-MW05 **Lab ID: 432570-002** **Collected: 08/21/20 10:45**
Matrix: Water

432570-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrate	**2.0**		mg/L	0.10	0.05	1	251448	08/22/20 00:53	08/22/20 00:53	RKV
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**1,300**		mg/L	20		2	251595	08/24/20	08/25/20	ATP

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:** QC882387	**Batch:** 251448
Matrix: Water	**Method:** EPA 300.0	**Prep Method:** METHOD

QC882387 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	08/21/20 15:27	08/21/20 15:27
Nitrogen, Nitrate	ND		mg/L	0.10	0.05	08/21/20 15:27	08/21/20 15:27
Nitrogen, Nitrate/Nitrite	ND		mg/L	0.10		08/21/20 15:27	08/21/20 15:27

Type: Lab Control Sample	**Lab ID:** QC882388	**Batch:** 251448
Matrix: Water	**Method:** EPA 300.0	**Prep Method:** METHOD

QC882388 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Nitrite	9.674	9.150	mg/L	106%		90-110
Nitrogen, Nitrate	9.599	9.030	mg/L	106%		90-110

Type: Matrix Spike	**Lab ID:** QC882389	**Batch:** 251448
Matrix (Source ID): Water (432551-001)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC882389 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Nitrite	9.574	ND	9.150	mg/L	105%		80-120	1
Nitrogen, Nitrate	9.444	0.3900	9.030	mg/L	100%		80-120	1

Type: Matrix Spike Duplicate	**Lab ID:** QC882390	**Batch:** 251448
Matrix (Source ID): Water (432551-001)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC882390 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Nitrite	9.793	ND	9.150	mg/L	107%		80-120	2	20	1
Nitrogen, Nitrate	9.644	0.3900	9.030	mg/L	102%		80-120	2	20	1

Type: Matrix Spike	**Lab ID:** QC882480	**Batch:** 251448
Matrix (Source ID): Water (432521-001)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC882480 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Nitrite	9.596	ND	9.150	mg/L	105%		80-120	1
Nitrogen, Nitrate	10.28	0.6530	9.030	mg/L	107%		80-120	1

ENTHALPY ANALYTICAL

Batch QC

Type: Matrix Spike Duplicate	**Lab ID:** QC882481	**Batch:** 251448
Matrix (Source ID): Water (432521-001)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC882481 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Nitrite	9.669	ND	9.150	mg/L	106%		80-120	1	20	1
Nitrogen, Nitrate	10.31	0.6530	9.030	mg/L	107%		80-120	0	20	1

Type: Blank	**Lab ID:** QC882822	**Batch:** 251595
Matrix: Water	**Method:** SM2540C	**Prep Method:** METHOD

QC882822 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Dissolved Solids	ND		mg/L	10		08/24/20	08/25/20

Type: Lab Control Sample	**Lab ID:** QC882823	**Batch:** 251595
Matrix: Water	**Method:** SM2540C	**Prep Method:** METHOD

QC882823 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Dissolved Solids	102.0	100.0	mg/L	102%		90-110

Type: Sample Duplicate	**Lab ID:** QC882824	**Batch:** 251595
Matrix (Source ID): Water (432588-011)	**Method:** SM2540C	**Prep Method:** METHOD

QC882824 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Dissolved Solids	1,252	1276	mg/L		2	5	2

Type: Blank	**Lab ID:** QC882867	**Batch:** 251607
Matrix: Sea Water	**Method:** SM 4500-P-B5-E	

QC882867 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Phosphorus	ND		mg/L	0.020	0.010	08/26/20	08/26/20

Type: Lab Control Sample	**Lab ID:** QC882868	**Batch:** 251607
Matrix: Sea Water	**Method:** SM 4500-P-B5-E	

QC882868 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phosphorus	0.4260	0.4000	mg/L	107%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC882869**	**Batch:**	**251607**
Matrix (Source ID):	**Water (432570-001)**	**Method:**	**SM 4500-P-B5-E**		

QC882869 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phosphorus	0.6170	0.2670	0.4000	mg/L	88%		75-125	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC882870**	**Batch:**	**251607**
Matrix (Source ID):	**Water (432570-001)**	**Method:**	**SM 4500-P-B5-E**		

QC882870 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phosphorus	0.6990	0.2670	0.4000	mg/L	108%		75-125	12	20	1

Type:	**Blank**	**Lab ID:**	**QC883202**	**Batch:**	**251760**
Matrix:	**Sea Water**	**Method:**	**SM 4500-NH3-G**		

QC883202 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Ammonia-N	ND		mg/L	0.10	0.010	08/26/20	08/27/20

Type:	**Lab Control Sample**	**Lab ID:**	**QC883203**	**Batch:**	**251760**
Matrix:	**Sea Water**	**Method:**	**SM 4500-NH3-G**		

QC883203 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Ammonia-N	2.530	2.500	mg/L	101%		80-120

Type:	**Matrix Spike**	**Lab ID:**	**QC883204**	**Batch:**	**251760**
Matrix (Source ID):	**Sea Water (432379-001)**	**Method:**	**SM 4500-NH3-G**		

QC883204 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Ammonia-N	2.440	ND	2.500	mg/L	98%		80-120	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC883205**	**Batch:**	**251760**
Matrix (Source ID):	**Sea Water (432379-001)**	**Method:**	**SM 4500-NH3-G**		

QC883205 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Ammonia-N	2.440	ND	2.500	mg/L	98%		80-120	0	20	1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID: QC883634**	**Batch: 251908**
Matrix: Water	**Method: SM 4500-NH3-G**	

QC883634 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Total Kjeldahl	ND		mg/L	0.20	0.015	08/27/20	08/30/20

Type: Lab Control Sample	**Lab ID: QC883635**	**Batch: 251908**
Matrix: Water	**Method: SM 4500-NH3-G**	

QC883635 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Total Kjeldahl	2.618	2.500	mg/L	105%		80-120

Type: Matrix Spike	**Lab ID: QC883636**	**Batch: 251908**
Matrix (Source ID): Water (432551-001)	**Method: SM 4500-NH3-G**	

QC883636 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Total Kjeldahl	12.36	ND	12.50	mg/L	99%		80-120	2.5

Type: Matrix Spike Duplicate	**Lab ID: QC883637**	**Batch: 251908**
Matrix (Source ID): Water (432551-001)	**Method: SM 4500-NH3-G**	

QC883637 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Total Kjeldahl	13.80	ND	12.50	mg/L	110%		80-120	11	20	2.5

ND Not Detected

CALIFORNIA
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STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

CERTIFICATE OF ENVIRONMENTAL ACCREDITATION

Is hereby granted to

America Science Team of Richmond, Inc. dba AmeriSci Richmond

13635 Genito Road

Midlothian, VA 23112

Scope of the certificate is limited to the
"Fields of Testing"
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site inspection, 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.: **2508**

Expiration Date: **6/30/2020**

Effective Date: **7/1/2019**

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
Accredited Fields of Testing

America Science Team of Richmond, Inc. dba AmeriSci Richmond

13635 Genito Road
Midlothian, VA 23112
Phone: 8047631200

Certificate No. **2508**
Expiration Date **6/30/2020**

Primary Accreditation Body

Field of Testing: 121 - Bulk Asbestos Analysis of Hazardous Waste

121.010	001	Bulk Asbestos	EPA 600/M4-82-020	NVLAP

As of 6/25/2019 , this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

State Water Resources Control Board

June 25, 2019

T. Brian Keith
America Science Team of Richmond, Inc. dba AmeriSci Richmond
13635 Genito Road
Midlothian, VA 23112

Dear T. Brian Keith: Certificate No. 2508

Congratulations! This notice advises that the laboratory named above has been accredited as an environmental testing laboratory pursuant to the provisions of the California Health and Safety Code (HSC) Sections 100825-100920. The analyses for which this laboratory is accredited are indicated on the enclosed "Accredited Fields of Testing" List.

The laboratory's accreditation begins on the date printed on the enclosed certificate. For renewed accreditations, this date is determined by compliance with applicable deadlines. Noncompliance with these deadlines may have resulted in lapse of accreditation.

Be advised, the laboratory may have been denied accreditation for one or more analyses for which it applied due to failure to comply with regulatory requirements for application or accreditation. It is the laboratory's responsibility to review the enclosed list and know for which methods the laboratory has been accredited. This accreditation is a final action of the state board, subject to petition under Health and Safety Code Section 116701 within 30 days. However, if you believe that a FOT has been left off of your accreditation in error, you may submit to ELAP within 30 days of this letter, an "Accreditation Inquiry Request Form" located at www.waterboards.ca.gov/elap identifying any mistakes or errors you believe occurred in your accreditation, which will begin the period in which to file a petition. ELAP will then review all timely submitted "Accreditation Inquiry Request Forms" and will make a final determination which could then petitioned to the State Water Resources Control Board. **Failure to submit a petition to the State Water Resources Control Board or an "Accreditation Inquiry Request Form" to ELAP within 30 days of this letter will prohibit you from obtaining any further review of your accreditation.**

HSC Section 100890 lists the civil penalties for environmental laboratories that perform analyses for state regulatory purposes without a valid certificate.

Continued accreditation is contingent upon compliance with HSC Sections 100825-100920 and California Code of Regulations, Title 22, Division 4, Chapter 19, Certification of Environmental Laboratories. ELAP reserves the right to take enforcement action, including issuance of civil penalties, or supension and revocation of the laboratory's ELAP certificate, for failure to comply with all applicable regulations, statutes and orders.

Thank you

Christine Sotelo, Chief
California Environmental Laboratory Accreditation Program (CA ELAP)

CALIFORNIA STATE
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Accredited Fields of Testing

Ceres Analytical Laboratory, Inc.

4919 Windplay Drive, Suite 1
El Dorado Hills, CA 95762
Phone: 9169325011

Certificate No. **3046**
Expiration Date **4/30/2021**

Field of Testing:	105 - Semi-volatile Organic Chemistry of Drinking Water		
105.230	000	Dioxins	EPA 1613 B
105.230	001	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	EPA 1613 B
105.230	002	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) Screen	EPA 1613 B
Field of Testing:	111 - Semi-volatile Organic Chemistry of Wastewater		
111.111	000	Dioxins and Dibenzofurans	EPA 1613 B
Field of Testing:	117 - Semi-volatile Organic Chemistry of Hazardous Waste		
117.130	000	Dioxins and Dibenzofurans	EPA 8290

As of 5/15/2019 , this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

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STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

CERTIFICATE OF ENVIRONMENTAL ACCREDITATION

Is hereby granted to

Enthalpy Analytical LLC

2323 Fifth Street

Berkeley, CA 94710

Scope of the certificate is limited to the
"Fields of Testing"
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site inspection, 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.: **2896**

Expiration Date: **1/31/2021**

Effective Date: **2/1/2019**

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

CALIFORNIA STATE
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Accredited Fields of Testing

Enthalpy Analytical LLC

2323 Fifth Street
Berkeley, CA 94710
Phone: (510) 486-0900

Certificate No. **2896**
Expiration Date **1/31/2021**

Field of Testing: 102 - Inorganic Chemistry of Drinking Water

102.045	001	Perchlorate	EPA 314.0

Field of Testing: 108 - Inorganic Chemistry of Wastewater

108.112	002	Calcium	EPA 200.7
108.112	004	Magnesium	EPA 200.7
108.112	005	Potassium	EPA 200.7
108.112	007	Sodium	EPA 200.7
108.120	001	Chlorine, Total Residual	SM 4500-Cl C-2011
108.120	002	Chloride	EPA 300.0
108.120	003	Fluoride	EPA 300.0
108.120	008	Sulfate (as SO4)	EPA 300.0
108.120	012	Nitrate (as N)	EPA 300.0
108.120	014	Nitrite (as N)	EPA 300.0
108.360	001	Phenols, Total	EPA 420.1
108.381	001	Oil and Grease	EPA 1664 A
108.390	001	Turbidity	SM 2130 B-2001
108.410	001	Alkalinity	SM 2320 B-1997
108.420	001	Hardness (Calculation)	SM 2340 B-1997
108.430	001	Specific Conductance	SM 2510 B-1997
108.440	001	Residue, Total	SM 2540 B-1997
108.441	001	Residue, Filterable TDS	SM 2540 C-1997
108.442	001	Residue, Non-filterable TSS	SM 2540 D-1997
108.465	001	Chlorine, Total Residual	SM 4500-Cl G-2000
108.472	001	Cyanide, Total	SM 4500-CN E-1999
108.490	001	Hydrogen Ion (pH)	SM 4500-H+ B-2000
108.501	002	Kjeldahl Nitrogen,Total (as N)	SM 4500-NH3 C-1997
108.502	002	Ammonia (as N)	SM 4500-NH3 B,E-1997
108.540	001	Phosphate,Ortho (as P)	SM 4500-P E-1999
108.541	001	Phosphorus,Total	SM 4500-P E-1999
108.552	001	Silica, Dissolved	SM 4500-SiO2 C-1997
108.584	001	Sulfide (as S)	SM 4500-S D-2000
108.592	001	Biochemical Oxygen Demand	SM 5210 B -2001
108.595	001	Chemical Oxygen Demand	SM 5220 D-1997
108.597	001	Organic Carbon-Total (TOC)	SM 5310 C-2000

108.605	001	Surfactants	SM 5540 C-2000

Field of Testing: 109 - Toxic Chemical Elements of Wastewater

109.010	001	Aluminum	EPA 200.7
109.010	002	Antimony	EPA 200.7
109.010	003	Arsenic	EPA 200.7
109.010	004	Barium	EPA 200.7
109.010	005	Beryllium	EPA 200.7
109.010	006	Boron	EPA 200.7
109.010	007	Cadmium	EPA 200.7
109.010	009	Chromium	EPA 200.7
109.010	010	Cobalt	EPA 200.7
109.010	011	Copper	EPA 200.7
109.010	012	Iron	EPA 200.7
109.010	013	Lead	EPA 200.7
109.010	015	Manganese	EPA 200.7
109.010	016	Molybdenum	EPA 200.7
109.010	017	Nickel	EPA 200.7
109.010	019	Selenium	EPA 200.7
109.010	021	Silver	EPA 200.7
109.010	023	Thallium	EPA 200.7
109.010	024	Tin	EPA 200.7
109.010	025	Titanium	EPA 200.7
109.010	026	Vanadium	EPA 200.7
109.010	027	Zinc	EPA 200.7
109.020	001	Aluminum	EPA 200.8
109.020	002	Antimony	EPA 200.8
109.020	003	Arsenic	EPA 200.8
109.020	004	Barium	EPA 200.8
109.020	005	Beryllium	EPA 200.8
109.020	006	Cadmium	EPA 200.8
109.020	007	Chromium	EPA 200.8
109.020	008	Cobalt	EPA 200.8
109.020	009	Copper	EPA 200.8
109.020	010	Lead	EPA 200.8
109.020	011	Manganese	EPA 200.8
109.020	012	Molybdenum	EPA 200.8
109.020	013	Nickel	EPA 200.8
109.020	014	Selenium	EPA 200.8
109.020	015	Silver	EPA 200.8
109.020	016	Thallium	EPA 200.8
109.020	017	Vanadium	EPA 200.8
109.020	018	Zinc	EPA 200.8

109.190	001	Mercury	EPA 245.1	
Field of Testing: 110 - Volatile Organic Chemistry of Wastewater				
110.040	000	Purgeable Organic Compounds	EPA 624	
Field of Testing: 111 - Semi-volatile Organic Chemistry of Wastewater				
111.100	000	Base/Neutral & Acid Organics	EPA 625	
111.170	000	Organochlorine Pesticides and PCBs	EPA 608	
Field of Testing: 114 - Inorganic Chemistry of Hazardous Waste				
114.010	001	Antimony	EPA 6010 B	
114.010	002	Arsenic	EPA 6010 B	
114.010	003	Barium	EPA 6010 B	
114.010	004	Beryllium	EPA 6010 B	
114.010	005	Cadmium	EPA 6010 B	
114.010	006	Chromium	EPA 6010 B	
114.010	007	Cobalt	EPA 6010 B	
114.010	008	Copper	EPA 6010 B	
114.010	009	Lead	EPA 6010 B	
114.010	010	Molybdenum	EPA 6010 B	
114.010	011	Nickel	EPA 6010 B	
114.010	012	Selenium	EPA 6010 B	
114.010	013	Silver	EPA 6010 B	
114.010	014	Thallium	EPA 6010 B	
114.010	015	Vanadium	EPA 6010 B	
114.010	016	Zinc	EPA 6010 B	
114.020	001	Antimony	EPA 6020	
114.020	002	Arsenic	EPA 6020	
114.020	003	Barium	EPA 6020	
114.020	004	Beryllium	EPA 6020	
114.020	005	Cadmium	EPA 6020	
114.020	006	Chromium	EPA 6020	
114.020	007	Cobalt	EPA 6020	
114.020	008	Copper	EPA 6020	
114.020	009	Lead	EPA 6020	
114.020	010	Molybdenum	EPA 6020	
114.020	011	Nickel	EPA 6020	
114.020	012	Selenium	EPA 6020	
114.020	013	Silver	EPA 6020	
114.020	014	Thallium	EPA 6020	
114.020	015	Vanadium	EPA 6020	
114.020	016	Zinc	EPA 6020	
114.103	001	Chromium (VI)	EPA 7196 A	Aqueous Only
114.106	001	Chromium (VI)	EPA 7199	Aqueous Only
114.140	001	Mercury	EPA 7470 A	Aqueous Only

114.141	001	Mercury	EPA 7471 A	
114.222	001	Cyanide, Total	EPA 9014	
114.230	001	Sulfides, Total	EPA 9034	Interim
114.240	001	Corrosivity - pH Determination	EPA 9040 B	Interim
114.241	001	Corrosivity - pH Determination	EPA 9045 C	
114.250	001	Fluoride	EPA 9056	Interim

Field of Testing: 115 - Extraction Test of Hazardous Waste

115.020	001	Toxicity Characteristic Leaching Procedure (TCLP)	EPA 1311 (TCLP)	
115.030	001	Waste Extraction Test (WET)	CCR Chapter11, Article 5, Appendix II	
115.040	001	Synthetic Precipitation Leaching Procedure (SPLP)	EPA 1312 (SPLP)	

Field of Testing: 116 - Volatile Organic Chemistry of Hazardous Waste

116.030	001	Gasoline-range Organics	EPA 8015 B	
116.040	041	Methyl tert-butyl Ether (MTBE)	EPA 8021 B	
116.040	062	BTEX	EPA 8021 B	
116.080	000	Volatile Organic Compounds	EPA 8260 B	

Field of Testing: 117 - Semi-volatile Organic Chemistry of Hazardous Waste

117.010	001	Diesel-range Total Petroleum Hydrocarbons	EPA 8015 B	
117.110	000	Extractable Organics	EPA 8270 C	
117.140	000	Polynuclear Aromatic Hydrocarbons	EPA 8310	Aqueous Only
117.170	000	Nitroaromatics and Nitramines	EPA 8330	Aqueous Only
117.210	000	Organochlorine Pesticides	EPA 8081 A	Aqueous Only
117.220	000	PCBs	EPA 8082	Aqueous Only

Field of Testing: 120 - Physical Properties of Hazardous Waste

120.010	001	Ignitability	EPA 1010	
120.070	001	Corrosivity - pH Determination	EPA 9040 B	Interim
120.080	001	Corrosivity - pH Determination	EPA 9045 C	

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Water Boards
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REGIONAL WATER QUALITY CONTROL BOARDS

CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

CERTIFICATE OF ENVIRONMENTAL ACCREDITATION

Is hereby granted to

Eurofins Calscience, LLC

7440 Lincoln Way

Garden Grove, CA 92841-1427

Scope of the certificate is limited to the
"Fields of Testing"
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site inspection, 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.: **2944**

Expiration Date: **9/30/2020**

Effective Date: **10/1/2018**

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

CALIFORNIA STATE
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Accredited Fields of Testing

Eurofins Calscience, LLC

7440 Lincoln Way
Garden Grove, CA 92841-1427
Phone: 7148955494

Certificate No. **2944**
Expiration Date **9/30/2020**

Field of Testing: 102 - Inorganic Chemistry of Drinking Water

102.015	001	Hydrogen Ion (pH)	EPA 150.1
102.026	001	Calcium	EPA 200.7
102.026	002	Magnesium	EPA 200.7
102.026	003	Potassium	EPA 200.7
102.026	004	Silica	EPA 200.7
102.026	005	Sodium	EPA 200.7
102.026	006	Hardness (Calculation)	EPA 200.7
102.030	001	Bromide	EPA 300.0
102.030	003	Chloride	EPA 300.0
102.030	005	Fluoride	EPA 300.0
102.030	006	Nitrate (as N)	EPA 300.0
102.030	007	Nitrite (as N)	EPA 300.0
102.030	008	Phosphate,Ortho (as P)	EPA 300.0
102.030	009	Sulfate (as SO4)	EPA 300.0
102.040	003	Chlorate	EPA 300.1
102.045	001	Perchlorate	EPA 314.0
102.047	001	Perchlorate	EPA 331.0
102.070	001	Phosphate,Ortho (as P)	EPA 365.1
102.100	001	Alkalinity	SM 2320 B-1997
102.121	001	Hardness	SM 2340 C-1997
102.130	001	Specific Conductance	SM 2510 B-1997
102.140	001	Residue, Filterable TDS	SM 2540 C-1997
102.148	001	Calcium	SM 3500-Ca B-1997
102.174	001	Chlorine, Free	SM 4500-Cl F-2000
102.174	002	Chlorine, Total Residual	SM 4500-Cl F-2000
102.175	001	Chlorine, Free	SM 4500-Cl G-2000
102.175	002	Chlorine, Total Residual	SM 4500-Cl G-2000
102.190	001	Cyanide, Total	SM 4500-CN E-1999
102.200	001	Fluoride	SM 4500-F C-2011
102.203	001	Hydrogen Ion (pH)	SM 4500-H+ B-2000
102.220	001	Nitrite (as N)	SM 4500-NO2 B-2000
102.240	001	Phosphate,Ortho (as P)	SM 4500-P E-1999
102.260	001	Total Organic Carbon TOC	SM 5310 B-2000

As of 10/3/2019 , this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

102.261	001	Dissolved Organic Carbon (DOC)	SM 5310 B-2000
102.264	001	Total Organic Carbon TOC	SM 5310 D-2000
102.265	001	Dissolved Organic Carbon (DOC)	SM 5310 D-2000

Field of Testing: 103 - Toxic Chemical Elements of Drinking Water

103.130	001	Aluminum	EPA 200.7
103.130	003	Barium	EPA 200.7
103.130	004	Beryllium	EPA 200.7
103.130	005	Cadmium	EPA 200.7
103.130	007	Chromium	EPA 200.7
103.130	008	Copper	EPA 200.7
103.130	009	Iron	EPA 200.7
103.130	011	Manganese	EPA 200.7
103.130	012	Nickel	EPA 200.7
103.130	015	Silver	EPA 200.7
103.130	017	Zinc	EPA 200.7
103.130	018	Boron	EPA 200.7
103.140	001	Aluminum	EPA 200.8
103.140	002	Antimony	EPA 200.8
103.140	003	Arsenic	EPA 200.8
103.140	004	Barium	EPA 200.8
103.140	005	Beryllium	EPA 200.8
103.140	006	Cadmium	EPA 200.8
103.140	007	Chromium	EPA 200.8
103.140	008	Copper	EPA 200.8
103.140	009	Lead	EPA 200.8
103.140	010	Manganese	EPA 200.8
103.140	012	Nickel	EPA 200.8
103.140	013	Selenium	EPA 200.8
103.140	014	Silver	EPA 200.8
103.140	015	Thallium	EPA 200.8
103.140	016	Zinc	EPA 200.8
103.140	017	Boron	EPA 200.8
103.140	018	Vanadium	EPA 200.8
103.160	001	Mercury	EPA 245.1
103.310	001	Chromium (VI)	EPA 218.6

Field of Testing: 104 - Volatile Organic Chemistry of Drinking Water

104.030	001	1,2-Dibromoethane (EDB, Ethylene Dibromide)	EPA 504.1
104.030	002	1,2-Dibromo-3-chloropropane (DBCP)	EPA 504.1
104.035	001	1,2,3-Trichloropropane (TCP)	SRL 524M-TCP
104.040	000	Volatile Organic Compounds	EPA 524.2

Field of Testing: 108 - Inorganic Constituents in Non-Potable Water

108.020	001	Specific Conductance	EPA 120.1

108.110	001	Turbidity	EPA 180.1
108.112	001	Boron	EPA 200.7
108.112	002	Calcium	EPA 200.7
108.112	003	Hardness (Calculation)	EPA 200.7
108.112	004	Magnesium	EPA 200.7
108.112	005	Potassium	EPA 200.7
108.112	006	Silica, Dissolved	EPA 200.7
108.112	007	Sodium	EPA 200.7
108.113	001	Boron	EPA 200.8
108.120	001	Bromide	EPA 300.0
108.120	002	Chloride	EPA 300.0
108.120	003	Fluoride	EPA 300.0
108.120	008	Sulfate (as SO4)	EPA 300.0
108.120	012	Nitrate (as N)	EPA 300.0
108.120	013	Nitrate-Nitrite (as N)	EPA 300.0
108.120	014	Nitrite (as N)	EPA 300.0
108.120	015	Phosphate,Ortho (as P)	EPA 300.0
108.209	001	Ammonia (as N)	EPA 350.1
108.211	002	Kjeldahl Nitrogen,Total (as N)	EPA 351.2
108.260	001	Phosphate, Ortho	EPA 365.1
108.261	001	Phosphorus,Total	EPA 365.1
108.264	001	Phosphate, Ortho	EPA 365.3
108.265	001	Phosphorus,Total	EPA 365.3
108.323	001	Chemical Oxygen Demand	EPA 410.4
108.360	001	Phenols, Total	EPA 420.1
108.381	001	Oil & Grease Total	EPA 1664 A
108.385	001	Color	SM 2120 B-2001
108.390	001	Turbidity	SM 2130 B-2001
108.410	001	Alkalinity	SM 2320 B-1997
108.421	001	Hardness	SM 2340 C-1997
108.430	001	Specific Conductance	SM 2510 B-1997
108.439	001	Residue, Volatile	SM 2540 E-1997
108.440	001	Residue, Total	SM 2540 B-1997
108.441	001	Residue, Filterable TDS	SM 2540 C-1997
108.442	001	Residue, Non-filterable TSS	SM 2540 D-1997
108.443	001	Residue, Settleable	SM 2540 F-1997
108.451	001	Chloride	SM 4500-Chloride C-1997
108.464	001	Chlorine, Total Residual	SM 4500-Cl F-2000
108.464	002	Chlorine, Free	SM 4500-Cl F-2000
108.472	001	Cyanide, Total	SM 4500-CN E-1999
108.473	001	Cyanide, Amenable	SM 4500-CN G-1999
108.480	001	Fluoride	SM 4500-F B,C-1997

108.490	001	Hydrogen Ion (pH)	SM 4500-H+ B-2000
108.500	002	Ammonia (as N)	SM 4500-NH3 B,C-1997
108.501	002	Kjeldahl Nitrogen,Total (as N)	SM 4500-NH3 C-1997
108.504	002	Ammonia (as N)	SM 4500-NH3 F-1997
108.511	001	Kjeldahl Nitrogen,Total (as N)	SM 4500-Norg B- 1997
108.514	001	Nitrite (as N)	SM 4500-NO2 B-2000
108.528	001	Nitrate-Nitrite (as N)	SM 4500-NO3- E-2000
108.536	001	Oxygen, Dissolved	SM 4500-O G-2001
108.584	001	Sulfide (as S)	SM 4500-S D-2000
108.592	001	Biochemical Oxygen Demand	SM 5210 B -2001
108.592	002	Carbonaceous BOD	SM 5210 B -2001
108.595	001	Chemical Oxygen Demand	SM 5220 D-1997
108.598	001	Organic Carbon-Total (TOC)	SM 5310 D-2000
108.605	001	Surfactants	SM 5540 C-2000
108.626	001	Phenols, Total	SM 5530 D-2010

Field of Testing: 109 - Metals and Trace Elements in Non-Potable Water

109.010	001	Aluminum	EPA 200.7
109.010	002	Antimony	EPA 200.7
109.010	003	Arsenic	EPA 200.7
109.010	004	Barium	EPA 200.7
109.010	005	Beryllium	EPA 200.7
109.010	006	Boron	EPA 200.7
109.010	007	Cadmium	EPA 200.7
109.010	009	Chromium	EPA 200.7
109.010	010	Cobalt	EPA 200.7
109.010	011	Copper	EPA 200.7
109.010	012	Iron	EPA 200.7
109.010	013	Lead	EPA 200.7
109.010	015	Manganese	EPA 200.7
109.010	016	Molybdenum	EPA 200.7
109.010	017	Nickel	EPA 200.7
109.010	019	Selenium	EPA 200.7
109.010	021	Silver	EPA 200.7
109.010	023	Thallium	EPA 200.7
109.010	024	Tin	EPA 200.7
109.010	025	Titanium	EPA 200.7
109.010	026	Vanadium	EPA 200.7
109.010	027	Zinc	EPA 200.7
109.020	001	Aluminum	EPA 200.8
109.020	002	Antimony	EPA 200.8
109.020	003	Arsenic	EPA 200.8
109.020	004	Barium	EPA 200.8

109.020	005	Beryllium	EPA 200.8
109.020	006	Cadmium	EPA 200.8
109.020	007	Chromium	EPA 200.8
109.020	008	Cobalt	EPA 200.8
109.020	009	Copper	EPA 200.8
109.020	010	Lead	EPA 200.8
109.020	011	Manganese	EPA 200.8
109.020	012	Molybdenum	EPA 200.8
109.020	013	Nickel	EPA 200.8
109.020	014	Selenium	EPA 200.8
109.020	015	Silver	EPA 200.8
109.020	016	Thallium	EPA 200.8
109.020	017	Vanadium	EPA 200.8
109.020	018	Zinc	EPA 200.8
109.020	021	Iron	EPA 200.8
109.020	022	Tin	EPA 200.8
109.020	023	Titanium	EPA 200.8
109.104	001	Chromium (VI)	EPA 218.6
109.190	001	Mercury	EPA 245.1

Field of Testing: 110 - Volatile Organic Constituents in Non-Potable Water

110.020	000	Purgeable Aromatics	EPA 602
110.040	000	Purgeable Organic Compounds	EPA 624

Field of Testing: 111 - Semi-volatile Organic Constituents in Non-Potable Water

111.060	000	Polynuclear Aromatics	EPA 610
111.100	000	Base/Neutral & Acid Organics	EPA 625
111.170	000	Organochlorine Pesticides and PCBs	EPA 608

Field of Testing: 114 - Inorganic Chemistry of Hazardous Waste

114.010	001	Antimony	EPA 6010 B
114.010	002	Arsenic	EPA 6010 B
114.010	003	Barium	EPA 6010 B
114.010	004	Beryllium	EPA 6010 B
114.010	005	Cadmium	EPA 6010 B
114.010	006	Chromium	EPA 6010 B
114.010	007	Cobalt	EPA 6010 B
114.010	008	Copper	EPA 6010 B
114.010	009	Lead	EPA 6010 B
114.010	010	Molybdenum	EPA 6010 B
114.010	011	Nickel	EPA 6010 B
114.010	012	Selenium	EPA 6010 B
114.010	013	Silver	EPA 6010 B
114.010	014	Thallium	EPA 6010 B
114.010	015	Vanadium	EPA 6010 B

114.010	016	Zinc	EPA 6010 B
114.020	001	Antimony	EPA 6020
114.020	002	Arsenic	EPA 6020
114.020	003	Barium	EPA 6020
114.020	004	Beryllium	EPA 6020
114.020	005	Cadmium	EPA 6020
114.020	006	Chromium	EPA 6020
114.020	007	Cobalt	EPA 6020
114.020	008	Copper	EPA 6020
114.020	009	Lead	EPA 6020
114.020	010	Molybdenum	EPA 6020
114.020	011	Nickel	EPA 6020
114.020	012	Selenium	EPA 6020
114.020	013	Silver	EPA 6020
114.020	014	Thallium	EPA 6020
114.020	015	Vanadium	EPA 6020
114.020	016	Zinc	EPA 6020
114.103	001	Chromium (VI)	EPA 7196 A
114.106	001	Chromium (VI)	EPA 7199
114.130	001	Lead	EPA 7420
114.140	001	Mercury	EPA 7470 A
114.141	001	Mercury	EPA 7471 A
114.241	001	Corrosivity - pH Determination	EPA 9045 C
114.250	001	Fluoride	EPA 9056

Field of Testing: 115 - Extraction Test of Hazardous Waste

115.020	001	Toxicity Characteristic Leaching Procedure (TCLP)	EPA 1311 (TCLP)
115.021	001	TCLP Inorganics	EPA 1311 (TCLP)
115.022	001	TCLP Extractables	EPA 1311 (TCLP)
115.023	001	TCLP Volatiles	EPA 1311 (TCLP)
115.030	001	Waste Extraction Test (WET)	CCR Chapter11, Article 5, Appendix II
115.040	001	Synthetic Precipitation Leaching Procedure (SPLP)	EPA 1312 (SPLP)

Field of Testing: 116 - Volatile Organic Chemistry of Hazardous Waste

116.030	001	Gasoline-range Organics	EPA 8015 B
116.040	041	Methyl tert-butyl Ether (MTBE)	EPA 8021 B
116.040	061	Aromatic Volatiles	EPA 8021 B
116.080	000	Volatile Organic Compounds	EPA 8260 B
116.080	120	Oxygenates	EPA 8260 B
116.100	001	Total Petroleum Hydrocarbons - Gasoline (GRO)	LUFT GC/MS
116.100	010	BTEX and MTBE	LUFT GC/MS
116.110	001	Total Petroleum Hydrocarbons - Gasoline (GRO)	LUFT

Field of Testing: 117 - Semi-volatile Organic Chemistry of Hazardous Waste

117.010	001	Diesel-range Total Petroleum Hydrocarbons	EPA 8015 B

117.016	001	Diesel-range Total Petroleum Hydrocarbons	LUFT
117.110	000	Extractable Organics	EPA 8270 C
117.140	000	Polynuclear Aromatic Hydrocarbons	EPA 8310
117.170	000	Nitroaromatics and Nitramines	EPA 8330
117.210	000	Organochlorine Pesticides	EPA 8081 A
117.220	000	PCBs	EPA 8082
117.240	000	Organophosphorus Pesticides	EPA 8141 A
117.250	000	Chlorinated Herbicides	EPA 8151 A

Field of Testing: 120 - Physical Properties of Hazardous Waste

120.010	001	Ignitability	EPA 1010
120.040	001	Reactive Cyanide	Section 7.3 SW-846
120.050	001	Reactive Sulfide	Section 7.3 SW-846
120.080	001	Corrosivity - pH Determination	EPA 9045 C

CALIFORNIA
Water Boards
STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

Interim

CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

CERTIFICATE OF ENVIRONMENTAL ACCREDITATION

Is hereby granted to

Fruit Growers Laboratory

Santa Paula

853 Corporation Street

Santa Paula, CA 93060

Scope of the certificate is limited to the
"Fields of Testing"
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site inspection, 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**

Expiration Date: **7/31/2020**

Effective Date: **8/1/2019**

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

State Water Resources Control Board

July 26, 2019

Mr. Kelly Dunnahoo
Fruit Growers Laboratory
853 Corporation Street
Santa Paula, CA 93060

Dear Mr. Kelly Dunnahoo: Certificate No. 1573

This is to advise you that the laboratory named above has been granted an interim certificate pursuant to California Health and Safety Code (HSC), Division 101, Part 1, Chapter 4, Section 100850(d).

The Fields of Testing for which this laboratory has been granted interim certification is shown in the enclosed "Fields of Testing". The Interim certificate shall remain in effect until **July 31, 2020** or until a certificate pursuant to HSC 100825(a) is issued.

Your laboratory is required to participate in the appropriate performance evaluation studies and to perform acceptably in such studies as stated in HSC 100870 and Title 22 of the California Code of Regulations Section 64809. Continued compliance with the Environmental Laboratory Accreditation Program statutes and regulations is required for maintaining the interim certification status.

Any changes in laboratory location or structural alterations, which may adversely affect the quality of analysis in the fields of testing for which the laboratory has been granted certification, require prior notification. Notification is also required for changes in ownership or laboratory director within 30 days after the change (HSC 100845(b) and (d)).

Contact our office at (916) 323-3431 or elapca@waterboards.ca.gov for questions.

Sincerely,

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

Enclosure

CALIFORNIA STATE
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Accredited Fields of Testing

Fruit Growers Laboratory
Santa Paula
853 Corporation Street
Santa Paula, CA 93060
Phone: 8053922000

Certificate No. 1573
Expiration Date 7/31/2020
INTERIM

Field of Testing: 101 - Microbiology of Drinking Water

101.010	001	Heterotrophic Bacteria	SM 9215 B
101.020	001	Total Coliform P/A	SM 9221 B
101.020	002	Fecal Coliform P/A	SM 9221 B,E
101.020	004	Total Coliform (Enumeration)	SM 9221 B,C
101.020	005	Fecal Coliform (Enumeration)	SM 9221 B,E
101.050	001	Total Coliform P/A	SM 9223 B Colilert
101.050	002	E. coli P/A	SM 9223 B Colilert
101.050	003	Total Coliform (Enumeration)	SM 9223 B Colilert
101.050	004	E. coli (Enumeration)	SM 9223 B Colilert
101.050	005	Total Coliform P/A	SM 9223 B Colilert 18
101.050	006	E. coli P/A	SM 9223 B Colilert 18
101.050	007	Total Coliform (Enumeration)	SM 9223 B Colilert 18
101.050	008	E. coli (Enumeration)	SM 9223 B Colilert 18
101.050	009	Total Coliform P/A	SM 9223 B Colisure
101.050	010	E. coli P/A	SM 9223 B Colisure
101.050	011	Total Coliform (Enumeration)	SM 9223 B Colisure
101.050	012	E. coli (Enumeration)	SM 9223 B Colisure
101.170	001	Enterococci	Enterolert

Field of Testing: 102 - Inorganic Chemistry of Drinking Water

102.026	001	Calcium	EPA 200.7
102.026	002	Magnesium	EPA 200.7
102.026	003	Potassium	EPA 200.7
102.026	004	Silica	EPA 200.7
102.026	005	Sodium	EPA 200.7
102.026	006	Hardness (Calculation)	EPA 200.7
102.030	001	Bromide	EPA 300.0
102.030	003	Chloride	EPA 300.0
102.030	005	Fluoride	EPA 300.0
102.030	006	Nitrate (as N)	EPA 300.0
102.030	007	Nitrite (as N)	EPA 300.0
102.030	008	Phosphate,Ortho (as P)	EPA 300.0
102.030	009	Sulfate (as SO4)	EPA 300.0
102.045	001	Perchlorate	EPA 314.0

As of 7/26/2019 , this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

102.095	001	Turbidity	SM 2130 B-2001
102.100	001	Alkalinity	SM 2320 B-1997
102.130	001	Specific Conductance	SM 2510 B-1997
102.140	001	Residue, Filterable TDS	SM 2540 C-1997
102.175	001	Chlorine, Free	SM 4500-Cl G-2000
102.175	002	Chlorine, Total Residual	SM 4500-Cl G-2000
102.190	001	Cyanide, Total	SM 4500-CN E-1999
102.203	001	Hydrogen Ion (pH)	SM 4500-H+ B-2000
102.220	001	Nitrite (as N)	SM 4500-NO2 B-2000
102.234	001	Nitrite (as N)	SM 4500-NO3 F-2000
102.234	002	Nitrate (as N)	SM 4500-NO3 F-2000
102.240	001	Phosphate,Ortho (as P)	SM 4500-P E-1999
102.262	001	Organic Carbon-Total (TOC)	SM 5310 C-2000
102.263	001	Dissolved Organic Carbon (DOC)	SM 5310 C-2000
102.270	001	Surfactants	SM 5540 C-2000

Field of Testing: 103 - Toxic Chemical Elements of Drinking Water

103.130	001	Aluminum	EPA 200.7
103.130	003	Barium	EPA 200.7
103.130	004	Beryllium	EPA 200.7
103.130	005	Cadmium	EPA 200.7
103.130	007	Chromium	EPA 200.7
103.130	008	Copper	EPA 200.7
103.130	009	Iron	EPA 200.7
103.130	011	Manganese	EPA 200.7
103.130	012	Nickel	EPA 200.7
103.130	015	Silver	EPA 200.7
103.130	017	Zinc	EPA 200.7
103.130	018	Boron	EPA 200.7
103.140	001	Aluminum	EPA 200.8
103.140	002	Antimony	EPA 200.8
103.140	003	Arsenic	EPA 200.8
103.140	004	Barium	EPA 200.8
103.140	005	Beryllium	EPA 200.8
103.140	006	Cadmium	EPA 200.8
103.140	007	Chromium	EPA 200.8
103.140	008	Copper	EPA 200.8
103.140	009	Lead	EPA 200.8
103.140	010	Manganese	EPA 200.8
103.140	012	Nickel	EPA 200.8
103.140	013	Selenium	EPA 200.8
103.140	014	Silver	EPA 200.8
103.140	015	Thallium	EPA 200.8

103.140	016	Zinc	EPA 200.8
103.140	017	Boron	EPA 200.8
103.140	018	Vanadium	EPA 200.8
103.160	001	Mercury	EPA 245.1
103.310	001	Chromium (VI)	EPA 218.6

Field of Testing: 104 - Volatile Organic Chemistry of Drinking Water

104.030	001	1,2-Dibromoethane (EDB, Ethylene Dibromide)	EPA 504.1
104.030	002	1,2-Dibromo-3-chloropropane (DBCP)	EPA 504.1
104.035	001	1,2,3-Trichloropropane (TCP)	SRL 524M-TCP
104.040	000	Volatile Organic Compounds	EPA 524.2
104.040	001	Benzene	EPA 524.2
104.040	007	n-Butylbenzene	EPA 524.2
104.040	008	sec-Butylbenzene	EPA 524.2
104.040	009	tert-Butylbenzene	EPA 524.2
104.040	010	Carbon Tetrachloride	EPA 524.2
104.040	011	Chlorobenzene	EPA 524.2
104.040	015	2-Chlorotoluene	EPA 524.2
104.040	016	4-Chlorotoluene	EPA 524.2
104.040	019	1,3-Dichlorobenzene	EPA 524.2
104.040	020	1,2-Dichlorobenzene	EPA 524.2
104.040	021	1,4-Dichlorobenzene	EPA 524.2
104.040	022	Dichlorodifluoromethane	EPA 524.2
104.040	023	1,1-Dichloroethane	EPA 524.2
104.040	024	1,2-Dichloroethane	EPA 524.2
104.040	025	1,1-Dichloroethene (1,1-Dichloroethylene)	EPA 524.2
104.040	026	cis-1,2-Dichloroethene	EPA 524.2
104.040	027	trans-1,2-Dichloroethene	EPA 524.2
104.040	028	Dichloromethane (Methylene Chloride)	EPA 524.2
104.040	029	1,2-Dichloropropane	EPA 524.2
104.040	033	cis-1,3-Dichloropropene	EPA 524.2
104.040	034	trans-1,3-Dichloropropene	EPA 524.2
104.040	035	Ethylbenzene	EPA 524.2
104.040	037	Isopropylbenzene	EPA 524.2
104.040	039	Naphthalene	EPA 524.2
104.040	041	N-propylbenzene	EPA 524.2
104.040	042	Styrene	EPA 524.2
104.040	043	1,1,1,2-Tetrachloroethane	EPA 524.2
104.040	044	1,1,2,2-Tetrachloroethane	EPA 524.2
104.040	045	Tetrachloroethylene (Tetrachloroethene)	EPA 524.2
104.040	046	Toluene	EPA 524.2
104.040	047	1,2,3-Trichlorobenzene	EPA 524.2
104.040	048	1,2,4-Trichlorobenzene	EPA 524.2

104.040	049	1,1,1-Trichloroethane	EPA 524.2
104.040	050	1,1,2-Trichloroethane	EPA 524.2
104.040	051	Trichloroethene	EPA 524.2
104.040	052	Trichlorofluoromethane	EPA 524.2
104.040	054	1,2,4-Trimethylbenzene	EPA 524.2
104.040	055	1,3,5-Trimethylbenzene	EPA 524.2
104.040	056	Vinyl Chloride	EPA 524.2
104.040	057	Xylenes, Total	EPA 524.2
104.045	000	Trihalomethanes, Total	EPA 524.2
104.045	001	Bromodichloromethane	EPA 524.2
104.045	002	Bromoform	EPA 524.2
104.045	003	Chloroform	EPA 524.2
104.045	004	Dibromochloromethane	EPA 524.2
104.050	000	Gasoline Additives	EPA 524.2
104.050	002	Methyl tert-butyl Ether (MTBE)	EPA 524.2
104.050	003	tert-Amyl Methyl Ether (TAME)	EPA 524.2
104.050	004	Ethyl tert-butyl Ether (ETBE)	EPA 524.2
104.050	005	Trichlorotrifluoroethane	EPA 524.2
104.050	006	tert-Butyl Alcohol (TBA)	EPA 524.2

Field of Testing: 105 - Semi-volatile Organic Chemistry of Drinking Water

105.010	000	Organochlorine Pesticides and PCBs	EPA 505
105.010	002	Alachlor	EPA 505
105.010	004	Chlordane	EPA 505
105.010	006	Endrin	EPA 505
105.010	007	Heptachlor	EPA 505
105.010	008	Heptachlor Epoxide	EPA 505
105.010	009	Hexachlorobenzene	EPA 505
105.010	010	Hexachlorocyclopentadiene	EPA 505
105.010	011	Lindane (HCH-gamma)	EPA 505
105.010	012	Methoxychlor	EPA 505
105.010	014	Toxaphene	EPA 505
105.010	015	PCBs as Aroclors (screen)	EPA 505
105.030	000	N-, P- Pesticides	EPA 507
105.030	001	Alachlor	EPA 507
105.030	002	Atrazine	EPA 507
105.030	003	Butachlor	EPA 507
105.030	005	Metolachlor	EPA 507
105.030	006	Metribuzin	EPA 507
105.030	007	Molinate	EPA 507
105.030	008	Prometryn	EPA 507
105.030	009	Simazine	EPA 507
105.082	000	Chlorinated Acids	EPA 515.3

105.082	001	2,4-D	EPA 515.3
105.082	002	Dinoseb	EPA 515.3
105.082	003	Pentachlorophenol	EPA 515.3
105.082	004	Picloram	EPA 515.3
105.082	005	2,4,5-TP (Silvex)	EPA 515.3
105.082	006	Bentazon	EPA 515.3
105.082	007	Dalapon	EPA 515.3
105.082	008	Dicamba	EPA 515.3
105.100	000	Carbamates	EPA 531.1
105.100	001	Aldicarb	EPA 531.1
105.100	002	Aldicarb Sulfone	EPA 531.1
105.100	003	Aldicarb Sulfoxide	EPA 531.1
105.100	004	Carbaryl	EPA 531.1
105.100	005	Carbofuran	EPA 531.1
105.100	006	3-Hydroxycarbofuran	EPA 531.1
105.100	007	Methomyl	EPA 531.1
105.100	008	Oxamyl	EPA 531.1
105.120	001	Glyphosate	EPA 547
105.140	001	Endothall	EPA 548.1
105.150	001	Diquat	EPA 549.2
105.175	001	Bromodichloromethane	EPA 551.1
105.175	002	Bromoform	EPA 551.1
105.175	003	Chloroform	EPA 551.1
105.175	004	Dibromochloromethane	EPA 551.1
105.175	005	Trihalomethanes	EPA 551.1
105.200	001	Bromoacetic Acid	EPA 552.2
105.200	003	Chloroacetic Acid	EPA 552.2
105.200	005	Dibromoacetic Acid	EPA 552.2
105.200	006	Dichloroacetic Acid	EPA 552.2
105.200	007	Trichloroacetic Acid	EPA 552.2
105.200	008	Haloacetic Acids (HAA5)	EPA 552.2
Field of Testing: 106 - Radiochemistry of Drinking Water			
106.010	001	Gross Alpha	EPA 900.0
106.010	002	Gross Beta	EPA 900.0
106.050	001	Total Alpha Radium	EPA 903.0
106.050	002	Radium-226	EPA 903.0
106.070	003	Strontium-90	EPA 905.0
106.080	001	Tritium	EPA 906.0
106.090	001	Uranium	EPA 908.0
106.092	001	Uranium	EPA 200.8
106.170	001	Radium-228	EPA Ra-05
106.270	001	Gross Alpha	SM 7110 C

106.610	001	Radon-222	SM 7500-Rn
Field of Testing: 107 - Microbiology of Wastewater			
107.010	001	Heterotrophic Bacteria	SM 9215 B
107.020	002	Total Coliform	SM 9221 B-2006
107.030	002	Total Coliform with Chlorine Present	SM 9221 B-2006
107.040	002	Fecal Coliform (Enumeration)	SM 9221 C,E-2006
107.050	002	Fecal Coliform with Chlorine Present	SM 9221 C,E-2006
107.242	001	Enterococci	Enterolert
107.245	001	E. coli (Enumeration)	SM 9223 B Colilert 18
107.245	002	E. coli (Enumeration)	SM 9223 B Colilert
Field of Testing: 108 - Inorganic Chemistry of Wastewater			
108.090	001	Residue, Volatile	EPA 160.4
108.112	001	Boron	EPA 200.7
108.112	002	Calcium	EPA 200.7
108.112	003	Hardness (Calculation)	EPA 200.7
108.112	004	Magnesium	EPA 200.7
108.112	005	Potassium	EPA 200.7
108.112	006	Silica, Dissolved	EPA 200.7
108.112	007	Sodium	EPA 200.7
108.112	008	Phosphorus,Total	EPA 200.7
108.113	001	Boron	EPA 200.8
108.120	001	Bromide	EPA 300.0
108.120	002	Chloride	EPA 300.0
108.120	003	Fluoride	EPA 300.0
108.120	008	Sulfate (as SO4)	EPA 300.0
108.120	012	Nitrate (as N)	EPA 300.0
108.120	013	Nitrate-Nitrite (as N)	EPA 300.0
108.120	014	Nitrite (as N)	EPA 300.0
108.120	015	Phosphate,Ortho (as P)	EPA 300.0
108.211	002	Kjeldahl Nitrogen,Total (as N)	EPA 351.2
108.267	001	Phosphorus,Total	EPA 200.7
108.360	001	Phenols, Total	EPA 420.1
108.381	001	Oil & Grease Total	EPA 1664 A
108.390	001	Turbidity	SM 2130 B-2001
108.410	001	Alkalinity	SM 2320 B-1997
108.430	001	Specific Conductance	SM 2510 B-1997
108.440	001	Residue, Total	SM 2540 B-1997
108.441	001	Residue, Filterable TDS	SM 2540 C-1997
108.442	001	Residue, Non-filterable TSS	SM 2540 D-1997
108.443	001	Residue, Settleable	SM 2540 F-1997
108.465	001	Chlorine, Total Residual	SM 4500-Cl G-2000
108.470	001	Cyanide, Total	SM 4500-CN B or C-1999

108.472	001	Cyanide, Total	SM 4500-CN E-1999
108.490	001	Hydrogen Ion (pH)	SM 4500-H+ B-2000
108.506	002	Ammonia (as N)	SM 4500-NH3 G-1997
108.514	001	Nitrite (as N)	SM 4500-NO2 B-2000
108.529	001	Nitrate-Nitrite (as N)	SM 4500-NO3 F-2000
108.529	002	Nitrite (as N)	SM 4500-NO3 F-2000
108.529	003	Nitrate (as N)	SM 4500-NO3 F-2000
108.540	001	Phosphate,Ortho (as P)	SM 4500-P E-1999
108.541	001	Phosphorus,Total	SM 4500-P E-1999
108.584	001	Sulfide (as S)	SM 4500-S D-2000
108.592	001	Biochemical Oxygen Demand	SM 5210 B -2001
108.592	002	Carbonaceous BOD	SM 5210 B -2001
108.595	001	Chemical Oxygen Demand	SM 5220 D-1997
108.597	001	Organic Carbon-Total (TOC)	SM 5310 C-2000
108.605	001	Surfactants	SM 5540 C-2000

Field of Testing: 109 - Toxic Chemical Elements of Wastewater

109.010	001	Aluminum	EPA 200.7
109.010	002	Antimony	EPA 200.7
109.010	003	Arsenic	EPA 200.7
109.010	004	Barium	EPA 200.7
109.010	005	Beryllium	EPA 200.7
109.010	006	Boron	EPA 200.7
109.010	007	Cadmium	EPA 200.7
109.010	009	Chromium	EPA 200.7
109.010	010	Cobalt	EPA 200.7
109.010	011	Copper	EPA 200.7
109.010	012	Iron	EPA 200.7
109.010	013	Lead	EPA 200.7
109.010	015	Manganese	EPA 200.7
109.010	016	Molybdenum	EPA 200.7
109.010	017	Nickel	EPA 200.7
109.010	019	Selenium	EPA 200.7
109.010	021	Silver	EPA 200.7
109.010	023	Thallium	EPA 200.7
109.010	024	Tin	EPA 200.7
109.010	025	Titanium	EPA 200.7
109.010	026	Vanadium	EPA 200.7
109.010	027	Zinc	EPA 200.7
109.020	001	Aluminum	EPA 200.8
109.020	002	Antimony	EPA 200.8
109.020	003	Arsenic	EPA 200.8
109.020	004	Barium	EPA 200.8

109.020	005	Beryllium	EPA 200.8
109.020	006	Cadmium	EPA 200.8
109.020	007	Chromium	EPA 200.8
109.020	008	Cobalt	EPA 200.8
109.020	009	Copper	EPA 200.8
109.020	010	Lead	EPA 200.8
109.020	011	Manganese	EPA 200.8
109.020	012	Molybdenum	EPA 200.8
109.020	013	Nickel	EPA 200.8
109.020	014	Selenium	EPA 200.8
109.020	015	Silver	EPA 200.8
109.020	016	Thallium	EPA 200.8
109.020	017	Vanadium	EPA 200.8
109.020	018	Zinc	EPA 200.8
109.020	021	Iron	EPA 200.8
109.104	001	Chromium (VI)	EPA 218.6
109.190	001	Mercury	EPA 245.1
Field of Testing: 110 - Volatile Organic Chemistry of Wastewater			
110.040	000	Purgeable Organic Compounds	EPA 624
Field of Testing: 111 - Semi-volatile Organic Chemistry of Wastewater			
111.100	000	Base/Neutral & Acid Organics	EPA 625
111.101	000	Organochlorine Pesticides and PCBs	EPA 625
111.170	000	Organochlorine Pesticides and PCBs	EPA 608
111.210	000	Carbamates	EPA 632
Field of Testing: 112 - Radiochemistry of Wastewater			
112.010	001	Gross Alpha	EPA 900.0
112.010	002	Gross Beta	EPA 900.0
112.020	001	Total Alpha Radium	EPA 903.0
112.180	001	Tritium	EPA 906.0
112.190	001	Uranium	EPA 908.0
Field of Testing: 114 - Inorganic Chemistry of Hazardous Waste			
114.010	001	Antimony	EPA 6010 B
114.010	002	Arsenic	EPA 6010 B
114.010	003	Barium	EPA 6010 B
114.010	004	Beryllium	EPA 6010 B
114.010	005	Cadmium	EPA 6010 B
114.010	006	Chromium	EPA 6010 B
114.010	007	Cobalt	EPA 6010 B
114.010	008	Copper	EPA 6010 B
114.010	009	Lead	EPA 6010 B
114.010	010	Molybdenum	EPA 6010 B

114.010	011	Nickel	EPA 6010 B	
114.010	012	Selenium	EPA 6010 B	
114.010	013	Silver	EPA 6010 B	
114.010	014	Thallium	EPA 6010 B	
114.010	015	Vanadium	EPA 6010 B	
114.010	016	Zinc	EPA 6010 B	
114.020	002	Arsenic	EPA 6020	
114.020	004	Beryllium	EPA 6020	
114.020	005	Cadmium	EPA 6020	
114.020	006	Chromium	EPA 6020	
114.020	007	Cobalt	EPA 6020	
114.020	009	Lead	EPA 6020	
114.020	010	Molybdenum	EPA 6020	
114.020	012	Selenium	EPA 6020	
114.020	014	Thallium	EPA 6020	
114.140	001	Mercury	EPA 7470 A	
114.221	001	Cyanide, Total	EPA 9012 A	
114.240	001	Corrosivity - pH Determination	EPA 9040 B	
114.241	001	Corrosivity - pH Determination	EPA 9045 C	
Field of Testing: 115 - Extraction Test of Hazardous Waste				
115.030	001	Waste Extraction Test (WET)	CCR Chapter11, Article 5, Appendix II	
Field of Testing: 116 - Volatile Organic Chemistry of Hazardous Waste				
116.080	000	Volatile Organic Compounds	EPA 8260 B	
116.080	120	Oxygenates	EPA 8260 B	
Field of Testing: 117 - Semi-volatile Organic Chemistry of Hazardous Waste				
117.010	001	Diesel-range Total Petroleum Hydrocarbons	EPA 8015 B	
117.110	000	Extractable Organics	EPA 8270 C	
117.210	000	Organochlorine Pesticides	EPA 8081 A	Aqueous Only
117.220	000	PCBs	EPA 8082	Aqueous Only
117.240	000	Organophosphorus Pesticides	EPA 8141 A	Aqueous Only
117.250	000	Chlorinated Herbicides	EPA 8151 A	Aqueous Only
Field of Testing: 126 - Microbiology of Recreational Water				
126.010	001	Total Coliform (Enumeration)	SM 9221 B-2006	
126.030	001	Fecal Coliform (Enumeration)	SM 9221 C,E-2006	
126.050	001	Total Coliform (Enumeration)	SM 9223 B Colilert	
126.050	002	E. coli (Enumeration)	SM 9223 B Colilert	
126.080	001	Enterococci	Enterolert	

CALIFORNIA
Water Boards
STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

CERTIFICATE OF ENVIRONMENTAL ACCREDITATION

Is hereby granted to

LA Testing

Huntington Beach, CA

5431 Industrial Drive

Huntington Beach, CA 92649 USA

Scope of the certificate is limited to the
"Fields of Testing"
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site inspection, 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.: **1406**

Expiration Date: **1/31/2022**

Effective Date: **2/1/2020**

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

CALIFORNIA STATE
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Accredited Fields of Testing

LA Testing
Huntington Beach, CA
5431 Industrial Drive
Huntington Beach, CA 92649 USA
Phone: 7148284999

Certificate No. 1406
Expiration Date 1/31/2022

Field of Testing: 102 - Inorganic Chemistry of Drinking Water			
102.020	001	Turbidity	EPA 180.1
Field of Testing: 109 - Metals and Trace Elements in Non-Potable Water			
109.625	013	Lead	EPA 200.8 (1994 Rev. 5.4)
Field of Testing: 114 - Inorganic Chemistry of Hazardous Waste			
114.010	001	Antimony	EPA 6010 B
114.010	002	Arsenic	EPA 6010 B
114.010	003	Barium	EPA 6010 B
114.010	004	Beryllium	EPA 6010 B
114.010	005	Cadmium	EPA 6010 B
114.010	006	Chromium	EPA 6010 B
114.010	007	Cobalt	EPA 6010 B
114.010	008	Copper	EPA 6010 B
114.010	009	Lead	EPA 6010 B
114.010	010	Molybdenum	EPA 6010 B
114.010	011	Nickel	EPA 6010 B
114.010	012	Selenium	EPA 6010 B
114.010	013	Silver	EPA 6010 B
114.010	014	Thallium	EPA 6010 B
114.010	015	Vanadium	EPA 6010 B
114.010	016	Zinc	EPA 6010 B
114.130	001	Lead	EPA 7420
114.140	001	Mercury	EPA 7470 A
114.141	001	Mercury	EPA 7471 A
114.240	001	Corrosivity - pH Determination	EPA 9040 B
114.241	001	Corrosivity - pH Determination	EPA 9045 C
Field of Testing: 115 - Extraction Test of Hazardous Waste			
115.021	001	TCLP Inorganics	EPA 1311 (TCLP)
115.030	001	Waste Extraction Test (WET)	CCR Chapter11, Article 5, Appendix II
Field of Testing: 117 - Semi-volatile Organic Chemistry of Hazardous Waste			
117.220	000	PCBs	EPA 8082
Field of Testing: 120 - Physical Properties of Hazardous Waste			
120.070	001	Corrosivity - pH Determination	EPA 9040 B

As of 2/1/2020 , this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

120.080	001	Corrosivity - pH Determination	EPA 9045 C
Field of Testing: 121 - Bulk Asbestos Analysis of Hazardous Waste			
121.010	001	Bulk Asbestos	EPA 600/M4-82-020

CALIFORNIA STATE
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Accredited Fields of Testing

North Coast Laboratories, Ltd.

5680 West End Road
Arcata, CA 95521
Phone: (707) 822-4649

Certificate No. **1247**
Expiration Date **7/31/2020**

Field of Testing: 101 - Microbiology of Drinking Water			
101.010	001	Heterotrophic Bacteria	SM9215 B
101.050	001	Total Coliform P/A	SM9223 B (Colilert)
101.050	002	E. coli P/A	SM9223 B (Colilert)
101.050	003	Total Coliform (Enumeration)	SM9223 B (Colilert)
101.050	004	E. coli (Enumeration)	SM9223 B (Colilert)
Field of Testing: 102 - Inorganic Chemistry of Drinking Water			
102.026	001	Calcium	EPA 200.7
102.026	002	Magnesium	EPA 200.7
102.026	003	Potassium	EPA 200.7
102.026	005	Sodium	EPA 200.7
102.030	001	Bromide	EPA 300.0
102.030	003	Chloride	EPA 300.0
102.030	005	Fluoride	EPA 300.0
102.030	006	Nitrate (as N)	EPA 300.0
102.030	007	Nitrite (as N)	EPA 300.0
102.030	009	Sulfate	EPA 300.0
102.100	001	Alkalinity	SM2320B-1997
102.120	001	Hardness (calculation)	SM2340B-1997
102.130	001	Conductivity	SM2510B-1997
102.140	001	Residue, Filterable TDS	SM2540C-1997
102.175	001	Chlorine, Free	SM4500-Cl G-2000
102.175	002	Chlorine, Total Residual	SM4500-Cl G-2000
102.240	001	Phosphate, Ortho (as P)	SM4500-P E-1999
102.262	001	Total Organic Carbon TOC	SM5310C-2000
102.263	001	Dissolved Organic Carbon (DOC)	SM5310C-2000
102.270	001	Surfactants	SM5540 C-2000
Field of Testing: 103 - Toxic Chemical Elements of Drinking Water			
103.130	001	Aluminum	EPA 200.7
103.130	003	Barium	EPA 200.7
103.130	004	Beryllium	EPA 200.7
103.130	005	Cadmium	EPA 200.7
103.130	007	Chromium	EPA 200.7
103.130	008	Copper	EPA 200.7
103.130	009	Iron	EPA 200.7
103.130	011	Manganese	EPA 200.7
103.130	012	Nickel	EPA 200.7
103.130	015	Silver	EPA 200.7

103.130	017	Zinc	EPA 200.7
103.130	018	Boron	EPA 200.7
103.140	001	Aluminum	EPA 200.8
103.140	002	Antimony	EPA 200.8
103.140	003	Arsenic	EPA 200.8
103.140	004	Barium	EPA 200.8
103.140	005	Beryllium	EPA 200.8
103.140	006	Cadmium	EPA 200.8
103.140	007	Chromium	EPA 200.8
103.140	008	Copper	EPA 200.8
103.140	009	Lead	EPA 200.8
103.140	010	Manganese	EPA 200.8
103.140	012	Nickel	EPA 200.8
103.140	013	Selenium	EPA 200.8
103.140	014	Silver	EPA 200.8
103.140	015	Thallium	EPA 200.8
103.140	016	Zinc	EPA 200.8
103.140	018	Vanadium	EPA 200.8
103.160	001	Mercury	EPA 245.1

Field of Testing: 104 - Volatile Organic Chemistry of Drinking Water

104.030	001	1,2-Dibromoethane (EDB, Ethylene Dibromide	EPA 504.1
104.030	002	1,2-Dibromo-3-chloropropane (DBCP)	EPA 504.1
104.040	000	Volatile Organic Compounds	EPA 524.2
104.040	001	Benzene	EPA 524.2
104.040	007	n-Butylbenzene	EPA 524.2
104.040	008	sec-Butylbenzene	EPA 524.2
104.040	009	tert-Butylbenzene	EPA 524.2
104.040	010	Carbon Tetrachloride	EPA 524.2
104.040	011	Chlorobenzene	EPA 524.2
104.040	015	2-Chlorotoluene	EPA 524.2
104.040	016	4-Chlorotoluene	EPA 524.2
104.040	019	1,3-Dichlorobenzene	EPA 524.2
104.040	020	1,2-Dichlorobenzene	EPA 524.2
104.040	021	1,4-Dichlorobenzene	EPA 524.2
104.040	022	Dichlorodifluoromethane	EPA 524.2
104.040	023	1,1-Dichloroethane	EPA 524.2
104.040	024	1,2-Dichloroethane	EPA 524.2
104.040	025	1,1-Dichloroethene (1,1-Dichloroethylene)	EPA 524.2
104.040	026	cis-1,2-Dichloroethene	EPA 524.2
104.040	027	trans-1,2-Dichloroethene	EPA 524.2
104.040	028	Dichloromethane (Methylene Chloride)	EPA 524.2
104.040	029	1,2-Dichloropropane	EPA 524.2
104.040	033	cis-1,3-Dichloropropene	EPA 524.2
104.040	034	trans-1,3-Dichloropropene	EPA 524.2
104.040	035	Ethylbenzene	EPA 524.2
104.040	037	Isopropylbenzene	EPA 524.2
104.040	039	Naphthalene	EPA 524.2

104.040	041	N-propylbenzene	EPA 524.2
104.040	042	Styrene	EPA 524.2
104.040	043	1,1,1,2-Tetrachloroethane	EPA 524.2
104.040	044	1,1,2,2-Tetrachloroethane	EPA 524.2
104.040	045	Tetrachloroethylene (Perchloroethylene)	EPA 524.2
104.040	046	Toluene	EPA 524.2
104.040	047	1,2,3-Trichlorobenzene	EPA 524.2
104.040	048	1,2,4-Trichlorobenzene	EPA 524.2
104.040	049	1,1,1-Trichloroethane	EPA 524.2
104.040	050	1,1,2-Trichloroethane	EPA 524.2
104.040	051	Trichloroethene	EPA 524.2
104.040	052	Trichlorofluoromethane	EPA 524.2
104.040	054	1,2,4-Trimethylbenzene	EPA 524.2
104.040	055	1,3,5-Trimethylbenzene	EPA 524.2
104.040	056	Vinyl Chloride	EPA 524.2
104.040	057	Xylenes, Total	EPA 524.2
104.045	000	Trihalomethanes, Total	EPA 524.2
104.045	001	Bromodichloromethane	EPA 524.2
104.045	002	Bromoform	EPA 524.2
104.045	003	Chloroform	EPA 524.2
104.045	004	Dibromochloromethane	EPA 524.2
104.050	000	Gasoline Additives	EPA 524.2
104.050	002	Methyl tert-butyl Ether (MTBE)	EPA 524.2
104.050	003	tert-Amyl Methyl Ether (TAME)	EPA 524.2
104.050	004	Ethyl tert-butyl Ether (ETBE)	EPA 524.2
104.050	005	Trichlorotrifluoroethane	EPA 524.2
104.050	006	tert-Butyl Alcohol (TBA)	EPA 524.2

Field of Testing: 105 - Semi-volatile Organic Chemistry of Drinking Water

105.010	000	Organochlorine Pesticides and PCBs	EPA 505
105.010	002	Alachlor	EPA 505
105.010	004	Chlordane	EPA 505
105.010	006	Endrin	EPA 505
105.010	007	Heptachlor	EPA 505
105.010	008	Heptachlor Epoxide	EPA 505
105.010	009	Hexachlorobenzene	EPA 505
105.010	010	Hexachlorocyclopentadiene	EPA 505
105.010	011	Lindane	EPA 505
105.010	012	Methoxychlor	EPA 505
105.010	014	Toxaphene	EPA 505
105.010	015	PCBs as Aroclors (screen)	EPA 505
105.020	000	Phthalates & Adiptate Esters	EPA 506
105.020	001	Di(2-ethylhexyl) Adipate	EPA 506
105.020	002	Di(2-ethylhexyl) Phthalate	EPA 506
105.030	000	N-, P- Pesticides	EPA 507
105.030	001	Alachlor	EPA 507
105.030	002	Atrazine	EPA 507
105.030	003	Butachlor	EPA 507

105.030	005	Metolachlor	EPA 507
105.030	006	Metribuzin	EPA 507
105.030	007	Molinate	EPA 507
105.030	008	Prometryn	EPA 507
105.030	009	Simazine	EPA 507
105.082	000	Chlorinated Acids	EPA 515.3
105.082	001	2,4-D	EPA 515.3
105.082	002	Dinoseb	EPA 515.3
105.082	003	Pentachlorophenol	EPA 515.3
105.082	004	Picloram	EPA 515.3
105.082	005	2,4,5-TP (Silvex)	EPA 515.3
105.082	006	Bentazon	EPA 515.3
105.082	007	Dalapon	EPA 515.3
105.082	008	Dicamba	EPA 515.3
105.100	000	Carbamates	EPA 531.1
105.100	001	Aldicarb	EPA 531.1
105.100	002	Aldicarb Sulfone	EPA 531.1
105.100	003	Aldicarb Sulfoxide	EPA 531.1
105.100	004	Carbaryl	EPA 531.1
105.100	005	Carbofuran	EPA 531.1
105.100	006	3-Hydroxycarbofuran	EPA 531.1
105.100	007	Methomyl	EPA 531.1
105.100	008	Oxamyl	EPA 531.1
105.120	001	Glyphosate	EPA 547
105.140	001	Endothall	EPA 548.1
105.150	001	Diquat	EPA 549.2
105.161	001	Benzo(a)pyrene	EPA 550.1
105.200	001	Bromoacetic Acid	EPA 552.2
105.200	003	Chloroacetic Acid	EPA 552.2
105.200	005	Dibromoacetic Acid	EPA 552.2
105.200	006	Dichloroacetic Acid	EPA 552.2
105.200	007	Trichloroacetic Acid	EPA 552.2
105.200	008	Haloacetic Acids (HAA5)	EPA 552.2
Field of Testing: 107 - Microbiology of Wastewater			
107.010	001	Heterotrophic Bacteria	SM9215 B
107.020	002	Total Coliform (Enumeration)	SM9221 B-2006
107.040	002	Fecal Coliform (Enumeration)	SM9221 C,E-2006
107.245	002	E. coli (Enumeration)	SM9223 B (Colilert)
Field of Testing: 108 - Inorganic Chemistry of Wastewater			
108.090	001	Residue, Volatile	EPA 160.4
108.110	001	Turbidity	EPA 180.1
108.112	001	Boron	EPA 200.7
108.112	002	Calcium	EPA 200.7
108.112	004	Magnesium	EPA 200.7
108.112	005	Potassium	EPA 200.7
108.112	007	Sodium	EPA 200.7

108.120	001	Bromide	EPA 300.0
108.120	002	Chloride	EPA 300.0
108.120	003	Fluoride	EPA 300.0
108.120	008	Sulfate	EPA 300.0
108.120	012	Nitrate (as N)	EPA 300.0
108.120	013	Nitrate-Nitrite (as N)	EPA 300.0
108.120	014	Nitrite (as N)	EPA 300.0
108.360	001	Phenols, Total	EPA 420.1
108.381	002	Oil & Grease Total	EPA 1664 Rev. B
108.410	001	Alkalinity	SM2320B-1997
108.420	001	Hardness (calculation)	SM2340B-1997
108.430	001	Conductivity	SM2510B-1997
108.440	001	Residue, Total	SM2540B-1997
108.441	001	Residue, Filterable TDS	SM2540C-1997
108.442	001	Residue, Non-filterable TSS	SM2540D-1997
108.443	001	Residue, Settleable	SM2540F-1997
108.465	001	Chlorine, Total Residual	SM4500-Cl G-2000
108.490	001	Hydrogen Ion (pH)	SM4500-H+ B-2000
108.540	001	Phosphate, Ortho (as P)	SM4500-P E-1999
108.541	001	Phosphorus, Total	SM4500-P E-1999
108.592	001	Biochemical Oxygen Demand	SM5210B-2001
108.592	002	Carbonaceous BOD	SM5210B-2001
108.597	001	Organic Carbon-Total (TOC)	SM5310C-2000
108.605	001	Surfactants	SM5540 C-2000
108.660	001	Chemical Oxygen Demand	HACH8000

Field of Testing: 109 - Toxic Chemical Elements of Wastewater

109.010	001	Aluminum	EPA 200.7
109.010	002	Antimony	EPA 200.7
109.010	003	Arsenic	EPA 200.7
109.010	004	Barium	EPA 200.7
109.010	005	Beryllium	EPA 200.7
109.010	006	Boron	EPA 200.7
109.010	007	Cadmium	EPA 200.7
109.010	009	Chromium	EPA 200.7
109.010	010	Cobalt	EPA 200.7
109.010	011	Copper	EPA 200.7
109.010	012	Iron	EPA 200.7
109.010	013	Lead	EPA 200.7
109.010	015	Manganese	EPA 200.7
109.010	016	Molybdenum	EPA 200.7
109.010	017	Nickel	EPA 200.7
109.010	019	Selenium	EPA 200.7
109.010	021	Silver	EPA 200.7
109.010	023	Thallium	EPA 200.7
109.010	026	Vanadium	EPA 200.7
109.010	027	Zinc	EPA 200.7
109.020	001	Aluminum	EPA 200.8

109.020	002	Antimony	EPA 200.8
109.020	003	Arsenic	EPA 200.8
109.020	004	Barium	EPA 200.8
109.020	005	Beryllium	EPA 200.8
109.020	006	Cadmium	EPA 200.8
109.020	007	Chromium	EPA 200.8
109.020	008	Cobalt	EPA 200.8
109.020	009	Copper	EPA 200.8
109.020	010	Lead	EPA 200.8
109.020	011	Manganese	EPA 200.8
109.020	012	Molybdenum	EPA 200.8
109.020	013	Nickel	EPA 200.8
109.020	014	Selenium	EPA 200.8
109.020	015	Silver	EPA 200.8
109.020	016	Thallium	EPA 200.8
109.020	017	Vanadium	EPA 200.8
109.020	018	Zinc	EPA 200.8
109.190	001	Mercury	EPA 245.1
109.446	001	Chromium (VI)	SM3500-Cr C-2009

Field of Testing: 110 - Volatile Organic Chemistry of Wastewater

110.040	000	Purgeable Organic Compounds	EPA 624

Field of Testing: 111 - Semi-volatile Organic Chemistry of Wastewater

111.030	000	Phthalate Esters	EPA 606
111.093	000	Chlorinated Herbicides	EPA 615
111.170	000	Organochlorine Pesticides and PCBs	EPA 608
111.190	000	Organophosphorus Pesticides	EPA 619
111.210	000	Carbamates	EPA 632

Field of Testing: 114 - Inorganic Chemistry of Hazardous Waste

114.010	001	Antimony	EPA 6010B
114.010	002	Arsenic	EPA 6010B
114.010	003	Barium	EPA 6010B
114.010	004	Beryllium	EPA 6010B
114.010	005	Cadmium	EPA 6010B
114.010	006	Chromium	EPA 6010B
114.010	007	Cobalt	EPA 6010B
114.010	008	Copper	EPA 6010B
114.010	009	Lead	EPA 6010B
114.010	010	Molybdenum	EPA 6010B
114.010	011	Nickel	EPA 6010B
114.010	012	Selenium	EPA 6010B
114.010	013	Silver	EPA 6010B
114.010	014	Thallium	EPA 6010B
114.010	015	Vanadium	EPA 6010B
114.010	016	Zinc	EPA 6010B
114.020	001	Antimony	EPA 6020
114.020	002	Arsenic	EPA 6020

114.020	003	Barium	EPA 6020
114.020	004	Beryllium	EPA 6020
114.020	005	Cadmium	EPA 6020
114.020	006	Chromium	EPA 6020
114.020	007	Cobalt	EPA 6020
114.020	008	Copper	EPA 6020
114.020	009	Lead	EPA 6020
114.020	010	Molybdenum	EPA 6020
114.020	011	Nickel	EPA 6020
114.020	012	Selenium	EPA 6020
114.020	013	Silver	EPA 6020
114.020	014	Thallium	EPA 6020
114.020	015	Vanadium	EPA 6020
114.020	016	Zinc	EPA 6020
114.141	001	Mercury	EPA 7471A
114.241	001	Corrosivity - pH Determination	EPA 9045C
Field of Testing: 115 - Extraction Test of Hazardous Waste			
115.021	001	TCLP Inorganics	EPA 1311 (TCLP)
115.030	001	Waste Extraction Test (WET)	CCR Chapter11, Article 5, Appendix II
Field of Testing: 116 - Volatile Organic Chemistry of Hazardous Waste			
116.080	000	Volatile Organic Compounds	EPA 8260B
116.080	120	Oxygenates	EPA 8260B
116.100	010	BTEX and MTBE	LUFT GC/MS
Field of Testing: 117 - Semi-volatile Organic Chemistry of Hazardous Waste			
117.010	001	Diesel-range Total Petroleum Hydrocarbons	EPA 8015B
117.016	001	Diesel-range Total Petroleum Hydrocarbons	LUFT
117.210	000	Organochlorine Pesticides	EPA 8081A
117.250	000	Chlorinated Herbicides	EPA 8151A
117.280	000	Carbamates	EPA 8321A

CALIFORNIA
Water Boards
STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

CERTIFICATE OF ENVIRONMENTAL ACCREDITATION

Is hereby granted to

Sierra Analytical Laboratories, Inc.

26052 Merit Circle

Laguna Hills, CA 92653

Scope of the certificate is limited to the
"Fields of Testing"
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site inspection, 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.: **2320**

Expiration Date: **9/30/2020**

Effective Date: **10/1/2018**

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

CALIFORNIA STATE
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Accredited Fields of Testing

Sierra Analytical Laboratories, Inc.

26052 Merit Circle
Laguna Hills, CA 92653
Phone: 9493489389

Certificate No. 2320
Expiration Date 9/30/2020

Field of Testing: 101 - Microbiology of Drinking Water			
101.010	001	Heterotrophic Plate Count	SM 9215 B
101.020	001	Total Coliform P/A	SM 9221 B
101.020	004	Total Coliform (Enumeration)	SM 9221 B,C
101.020	006	E. coli (Enumeration)	SM 9221 B,F
101.040	001	Total Coliform P/A	SM 9222 B
101.040	002	Fecal Coliform P/A	SM 9222 D
101.040	004	E. coli P/A	SM 9222 G
101.040	005	Total Coliform (Enumeration)	SM 9222 B
101.040	006	Fecal Coliform (Enumeration)	SM 9222 D
101.050	001	Total Coliform P/A	SM 9223 B Colilert
101.050	002	E. coli P/A	SM 9223 B Colilert
Field of Testing: 102 - Inorganic Chemistry of Drinking Water			
102.201	001	Fluoride	SM 4500-F D-2011
Field of Testing: 104 - Volatile Organic Chemistry of Drinking Water			
104.040	001	Benzene	EPA 524.2
104.040	008	sec-Butylbenzene	EPA 524.2
104.040	009	tert-Butylbenzene	EPA 524.2
104.040	010	Carbon Tetrachloride	EPA 524.2
104.040	011	Chlorobenzene	EPA 524.2
104.040	015	2-Chlorotoluene	EPA 524.2
104.040	016	4-Chlorotoluene	EPA 524.2
104.040	019	1,3-Dichlorobenzene	EPA 524.2
104.040	021	1,4-Dichlorobenzene	EPA 524.2
104.040	023	1,1-Dichloroethane	EPA 524.2
104.040	024	1,2-Dichloroethane	EPA 524.2
104.040	025	1,1-Dichloroethene (1,1-Dichloroethylene)	EPA 524.2
104.040	026	cis-1,2-Dichloroethene	EPA 524.2
104.040	027	trans-1,2-Dichloroethene	EPA 524.2
104.040	028	Dichloromethane (Methylene Chloride)	EPA 524.2
104.040	029	1,2-Dichloropropane	EPA 524.2
104.040	033	cis-1,3-Dichloropropene	EPA 524.2
104.040	034	trans-1,3-Dichloropropene	EPA 524.2
104.040	035	Ethylbenzene	EPA 524.2

As of 10/1/2019 , this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

104.040	037	Isopropylbenzene	EPA 524.2
104.040	041	N-propylbenzene	EPA 524.2
104.040	043	1,1,1,2-Tetrachloroethane	EPA 524.2
104.040	044	1,1,2,2-Tetrachloroethane	EPA 524.2
104.040	045	Tetrachloroethylene (Tetrachloroethene)	EPA 524.2
104.040	046	Toluene	EPA 524.2
104.040	047	1,2,3-Trichlorobenzene	EPA 524.2
104.040	049	1,1,1-Trichloroethane	EPA 524.2
104.040	050	1,1,2-Trichloroethane	EPA 524.2
104.040	051	Trichloroethene	EPA 524.2
104.040	052	Trichlorofluoromethane	EPA 524.2
104.040	056	Vinyl Chloride	EPA 524.2
104.040	057	Xylenes, Total	EPA 524.2
104.050	002	Methyl tert-butyl Ether (MTBE)	EPA 524.2
Field of Testing: 107 - Microbiological Methods for Non-Potable Water and Sewage Sludge			
107.060	002	Total Coliform (Enumeration)	SM 9222 B-1997
107.080	002	Fecal Coliform (Enumeration)	SM 9222 D-1997
107.100	002	Fecal Streptococci	SM 9230 B-2007
107.110	003	Enterococci	SM 9230 C-2007
107.247	001	E. coli (Enumeration)	SM 9221 B,F-2006
Field of Testing: 108 - Inorganic Constituents in Non-Potable Water			
108.112	002	Calcium	EPA 200.7
108.112	003	Hardness (Calculation)	EPA 200.7
108.112	004	Magnesium	EPA 200.7
108.112	005	Potassium	EPA 200.7
108.112	007	Sodium	EPA 200.7
108.385	001	Color	SM 2120 B-2001
108.390	001	Turbidity	SM 2130 B-2001
108.410	001	Alkalinity	SM 2320 B-1997
108.430	001	Specific Conductance	SM 2510 B-1997
108.440	001	Residue, Total	SM 2540 B-1997
108.442	001	Residue, Non-filterable TSS	SM 2540 D-1997
108.443	001	Residue, Settleable	SM 2540 F-1997
108.490	001	Hydrogen Ion (pH)	SM 4500-H+ B-2000
108.500	002	Ammonia (as N)	SM 4500-NH3 B,C-1997
108.536	001	Oxygen, Dissolved	SM 4500-O G-2001
108.572	001	Sulfate (as SO4)	SM 4500-SO4 E-1997
108.592	001	Biochemical Oxygen Demand	SM 5210 B -2001
108.592	002	Carbonaceous BOD	SM 5210 B -2001
108.670	001	Nitrite (as N)	Hach 8507
108.672	001	Phosphate,Ortho (as P)	Hach 8048
Field of Testing: 109 - Metals and Trace Elements in Non-Potable Water			

109.010	002	Antimony	EPA 200.7
109.010	003	Arsenic	EPA 200.7
109.010	004	Barium	EPA 200.7
109.010	005	Beryllium	EPA 200.7
109.010	006	Boron	EPA 200.7
109.010	007	Cadmium	EPA 200.7
109.010	009	Chromium	EPA 200.7
109.010	010	Cobalt	EPA 200.7
109.010	011	Copper	EPA 200.7
109.010	012	Iron	EPA 200.7
109.010	013	Lead	EPA 200.7
109.010	015	Manganese	EPA 200.7
109.010	016	Molybdenum	EPA 200.7
109.010	017	Nickel	EPA 200.7
109.010	019	Selenium	EPA 200.7
109.010	021	Silver	EPA 200.7
109.010	023	Thallium	EPA 200.7
109.010	024	Tin	EPA 200.7
109.010	026	Vanadium	EPA 200.7
109.010	027	Zinc	EPA 200.7
109.104	001	Chromium (VI)	EPA 218.6
109.190	001	Mercury	EPA 245.1
Field of Testing: 110 - Volatile Organic Constituents in Non-Potable Water			
110.040	000	Purgeable Organic Compounds	EPA 624
Field of Testing: 111 - Semi-volatile Organic Constituents in Non-Potable Water			
111.100	000	Base/Neutral & Acid Organics	EPA 625
111.170	000	Organochlorine Pesticides and PCBs	EPA 608
Field of Testing: 114 - Inorganic Chemistry of Hazardous Waste			
114.010	001	Antimony	EPA 6010 B
114.010	002	Arsenic	EPA 6010 B
114.010	003	Barium	EPA 6010 B
114.010	004	Beryllium	EPA 6010 B
114.010	005	Cadmium	EPA 6010 B
114.010	006	Chromium	EPA 6010 B
114.010	007	Cobalt	EPA 6010 B
114.010	008	Copper	EPA 6010 B
114.010	009	Lead	EPA 6010 B
114.010	010	Molybdenum	EPA 6010 B
114.010	011	Nickel	EPA 6010 B
114.010	012	Selenium	EPA 6010 B
114.010	013	Silver	EPA 6010 B
114.010	014	Thallium	EPA 6010 B

114.010	015	Vanadium	EPA 6010 B
114.010	016	Zinc	EPA 6010 B
114.106	001	Chromium (VI)	EPA 7199
114.140	001	Mercury	EPA 7470 A
Field of Testing: 115 - Extraction Test of Hazardous Waste			
115.020	001	Toxicity Characteristic Leaching Procedure (TCLP)	EPA 1311 (TCLP)
115.030	001	Waste Extraction Test (WET)	CCR Chapter11, Article 5, Appendix II
115.040	001	Synthetic Precipitation Leaching Procedure (SPLP)	EPA 1312 (SPLP)
Field of Testing: 116 - Volatile Organic Chemistry of Hazardous Waste			
116.030	001	Gasoline-range Organics	EPA 8015 B
116.040	062	BTEX	EPA 8021 B
116.080	000	Volatile Organic Compounds	EPA 8260 B
116.080	120	Oxygenates	EPA 8260 B
Field of Testing: 117 - Semi-volatile Organic Chemistry of Hazardous Waste			
117.010	001	Diesel-range Total Petroleum Hydrocarbons	EPA 8015 B
117.110	000	Extractable Organics	EPA 8270 C
117.140	000	Polynuclear Aromatic Hydrocarbons	EPA 8310
117.210	000	Organochlorine Pesticides	EPA 8081 A
117.220	000	PCBs	EPA 8082
117.250	000	Chlorinated Herbicides	EPA 8151 A
Field of Testing: 126 - Microbiological Methods for Ambient Water			
126.010	001	Total Coliform (Enumeration)	SM 9221 B-2006
126.020	001	Total Coliform (Enumeration)	SM 9222 B-1997
126.030	001	Fecal Coliform (Enumeration)	SM 9221 B,E-2006
126.040	001	Fecal Coliform (Enumeration)	SM 9222 D-1997
126.070	001	Enterococci	SM 9230 C-2007

CALIFORNIA
Water Boards
STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

CERTIFICATE OF ENVIRONMENTAL 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 Testing"
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site inspection, 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**

Expiration Date: **3/31/2022**

Effective Date: **4/1/2020**

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

CALIFORNIA STATE
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Accredited Fields of Testing

Weck Laboratories, Inc.

14859 East Clark Avenue
City of Industry, CA 91745
Phone: 6263362139

Certificate No. **1132**
Expiration Date **3/31/2022**

Field of Testing: 101 - Microbiology of Drinking Water

101.010	001	Heterotrophic Bacteria	SM 9215 B
101.020	004	Total Coliform (Enumeration)	SM 9221 B,C
101.020	005	Fecal Coliform (Enumeration)	SM 9221 B,E
101.020	006	E. coli (Enumeration)	SM 9221 B,F
101.050	001	Total Coliform P/A	SM 9223 B Colilert
101.050	002	E. coli P/A	SM 9223 B Colilert
101.050	003	Total Coliform (Enumeration)	SM 9223 B Colilert
101.050	004	E. coli (Enumeration)	SM 9223 B Colilert
101.050	005	Total Coliform P/A	SM 9223 B Colilert 18
101.050	006	E. coli P/A	SM 9223 B Colilert 18
101.050	007	Total Coliform (Enumeration)	SM 9223 B Colilert 18
101.050	008	E. coli (Enumeration)	SM 9223 B Colilert 18
101.050	009	Total Coliform P/A	SM 9223 B Colisure
101.050	010	E. coli P/A	SM 9223 B Colisure
101.140	001	Enterococci	SM 9230 B
101.170	001	Enterococci	Enterolert

Field of Testing: 102 - Inorganic Chemistry of Drinking Water

102.020	001	Turbidity	EPA 180.1
102.026	001	Calcium	EPA 200.7
102.026	002	Magnesium	EPA 200.7
102.026	003	Potassium	EPA 200.7
102.026	004	Silica	EPA 200.7
102.026	005	Sodium	EPA 200.7
102.026	006	Hardness (Calculation)	EPA 200.7
102.030	001	Bromide	EPA 300.0
102.030	003	Chloride	EPA 300.0
102.030	005	Fluoride	EPA 300.0
102.030	006	Nitrate (as N)	EPA 300.0
102.030	007	Nitrite (as N)	EPA 300.0
102.030	009	Sulfate (as SO4)	EPA 300.0
102.040	001	Bromide	EPA 300.1
102.040	002	Chlorite	EPA 300.1
102.040	003	Chlorate	EPA 300.1

102.040	004	Bromate	EPA 300.1
102.045	001	Perchlorate	EPA 314.0
102.047	001	Perchlorate	EPA 331.0
102.048	001	Perchlorate	EPA 332.0
102.050	001	Cyanide, Total	EPA 335.4
102.060	001	Nitrate (as N) (Calculation)	EPA 353.2
102.061	001	Nitrite (as N)	EPA 353.2
102.070	001	Phosphate,Ortho (as P)	EPA 365.1
102.086	001	Dissolved Organic Carbon (DOC)	EPA 415.3 Revision 1.2
102.086	002	Specific UV Absorbance SUVA	EPA 415.3 Revision 1.2
102.086	003	Organic Carbon-Total (TOC)	EPA 415.3 Revision 1.2
102.086	004	UV254	EPA 415.3 Revision 1.2
102.090	001	Bromate	EPA 557
102.100	001	Alkalinity	SM 2320 B-1997
102.130	001	Specific Conductance	SM 2510 B-1997
102.140	001	Residue, Filterable TDS	SM 2540 C-1997
102.175	001	Chlorine, Free	SM 4500-Cl G-2000
102.175	002	Chlorine, Total Residual	SM 4500-Cl G-2000
102.180	001	Chlorine Dioxide	SM 4500-ClO2 D-2000
102.203	001	Hydrogen Ion (pH)	SM 4500-H+ B-2000
102.260	001	Organic Carbon-Total (TOC)	SM 5310 B-2000
102.261	001	Dissolved Organic Carbon (DOC)	SM 5310 B-2000
102.270	001	Surfactants	SM 5540 C-2000
102.280	001	UV254	SM 5910 B-2011
102.570	001	Cyanide, Free	OIA-1677, DW

Field of Testing: 103 - Toxic Chemical Elements of Drinking Water

103.130	001	Aluminum	EPA 200.7
103.130	003	Barium	EPA 200.7
103.130	007	Chromium	EPA 200.7
103.130	008	Copper	EPA 200.7
103.130	009	Iron	EPA 200.7
103.130	011	Manganese	EPA 200.7
103.130	012	Nickel	EPA 200.7
103.130	015	Silver	EPA 200.7
103.130	017	Zinc	EPA 200.7
103.130	018	Boron	EPA 200.7
103.140	001	Aluminum	EPA 200.8
103.140	002	Antimony	EPA 200.8
103.140	003	Arsenic	EPA 200.8
103.140	004	Barium	EPA 200.8
103.140	005	Beryllium	EPA 200.8
103.140	006	Cadmium	EPA 200.8

103.140	007	Chromium	EPA 200.8
103.140	008	Copper	EPA 200.8
103.140	009	Lead	EPA 200.8
103.140	010	Manganese	EPA 200.8
103.140	011	Mercury	EPA 200.8
103.140	012	Nickel	EPA 200.8
103.140	013	Selenium	EPA 200.8
103.140	014	Silver	EPA 200.8
103.140	015	Thallium	EPA 200.8
103.140	016	Zinc	EPA 200.8
103.140	017	Boron	EPA 200.8
103.140	018	Vanadium	EPA 200.8
103.140	019	Strontium	EPA 200.8
103.160	001	Mercury	EPA 245.1
103.310	001	Chromium (VI)	EPA 218.6
103.311	001	Chromium (VI)	EPA 218.7

Field of Testing: 104 - Volatile Organic Chemistry of Drinking Water

104.030	001	1,2-Dibromoethane (EDB, Ethylene Dibromide)	EPA 504.1
104.030	002	1,2-Dibromo-3-chloropropane (DBCP)	EPA 504.1
104.035	001	1,2,3-Trichloropropane (TCP)	SRL 524M-TCP
104.040	000	Volatile Organic Compounds	EPA 524.2
104.040	001	Benzene	EPA 524.2
104.040	007	n-Butylbenzene	EPA 524.2
104.040	008	sec-Butylbenzene	EPA 524.2
104.040	009	tert-Butylbenzene	EPA 524.2
104.040	010	Carbon Tetrachloride	EPA 524.2
104.040	011	Chlorobenzene	EPA 524.2
104.040	015	2-Chlorotoluene	EPA 524.2
104.040	016	4-Chlorotoluene	EPA 524.2
104.040	019	1,3-Dichlorobenzene	EPA 524.2
104.040	020	1,2-Dichlorobenzene	EPA 524.2
104.040	021	1,4-Dichlorobenzene	EPA 524.2
104.040	022	Dichlorodifluoromethane	EPA 524.2
104.040	023	1,1-Dichloroethane	EPA 524.2
104.040	024	1,2-Dichloroethane	EPA 524.2
104.040	025	1,1-Dichloroethene (1,1-Dichloroethylene)	EPA 524.2
104.040	026	cis-1,2-Dichloroethene	EPA 524.2
104.040	027	trans-1,2-Dichloroethene	EPA 524.2
104.040	028	Dichloromethane (Methylene Chloride)	EPA 524.2
104.040	029	1,2-Dichloropropane	EPA 524.2
104.040	033	cis-1,3-Dichloropropene	EPA 524.2
104.040	034	trans-1,3-Dichloropropene	EPA 524.2

104.040	035	Ethylbenzene	EPA 524.2
104.040	037	Isopropylbenzene	EPA 524.2
104.040	039	Naphthalene	EPA 524.2
104.040	041	N-propylbenzene	EPA 524.2
104.040	042	Styrene	EPA 524.2
104.040	043	1,1,1,2-Tetrachloroethane	EPA 524.2
104.040	044	1,1,2,2-Tetrachloroethane	EPA 524.2
104.040	045	Tetrachloroethylene (Tetrachloroethene)	EPA 524.2
104.040	046	Toluene	EPA 524.2
104.040	047	1,2,3-Trichlorobenzene	EPA 524.2
104.040	048	1,2,4-Trichlorobenzene	EPA 524.2
104.040	049	1,1,1-Trichloroethane	EPA 524.2
104.040	050	1,1,2-Trichloroethane	EPA 524.2
104.040	051	Trichloroethene	EPA 524.2
104.040	052	Trichlorofluoromethane	EPA 524.2
104.040	054	1,2,4-Trimethylbenzene	EPA 524.2
104.040	055	1,3,5-Trimethylbenzene	EPA 524.2
104.040	056	Vinyl Chloride	EPA 524.2
104.040	057	Xylenes, Total	EPA 524.2
104.040	061	Carbon Disulfide	EPA 524.2
104.040	062	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	EPA 524.2
104.045	000	Trihalomethanes, Total	EPA 524.2
104.045	001	Bromodichloromethane	EPA 524.2
104.045	002	Bromoform	EPA 524.2
104.045	003	Chloroform	EPA 524.2
104.045	004	Dibromochloromethane	EPA 524.2
104.050	000	Gasoline Additives	EPA 524.2
104.050	002	Methyl tert-butyl Ether (MTBE)	EPA 524.2
104.050	003	tert-Amyl Methyl Ether (TAME)	EPA 524.2
104.050	004	Ethyl tert-butyl Ether (ETBE)	EPA 524.2
104.050	005	Trichlorotrifluoroethane	EPA 524.2
104.050	006	tert-Butyl Alcohol (TBA)	EPA 524.2
104.055	022	1,2-Dibromo-3-chloropropane (DBCP)	EPA 524.3
104.055	023	1,2-Dibromoethane (EDB, Ethylene Dibromide)	EPA 524.3
104.058	000	Volatile Organic Compounds	EPA 524.4
104.058	001	Benzene	EPA 524.4
104.058	002	Carbon Tetrachloride	EPA 524.4
104.058	003	Chlorobenzene	EPA 524.4
104.058	004	1,2-Dichlorobenzene	EPA 524.4
104.058	005	1,4-Dichlorobenzene	EPA 524.4
104.058	006	1,2-Dichloroethane	EPA 524.4
104.058	007	cis-1,2-Dichloroethene	EPA 524.4

104.058	008	trans-1,2-Dichloroethene	EPA 524.4
104.058	009	Dichloromethane (Methylene Chloride)	EPA 524.4
104.058	010	1,2-Dichloropropane	EPA 524.4
104.058	011	Ethylbenzene	EPA 524.4
104.058	012	Styrene	EPA 524.4
104.058	013	Tetrachloroethylene (Tetrachloroethene)	EPA 524.4
104.058	014	1,1,1-Trichloroethane	EPA 524.4
104.058	015	Trichloroethene	EPA 524.4
104.058	016	Toluene	EPA 524.4
104.058	017	1,2,4-Trichlorobenzene	EPA 524.4
104.058	018	1,1-Dichloroethene (1,1-Dichloroethylene)	EPA 524.4
104.058	019	1,1,2-Trichloroethane	EPA 524.4
104.058	020	Vinyl Chloride	EPA 524.4
104.058	021	Xylenes, Total	EPA 524.4
104.059	000	Trihalomethanes, Total	EPA 524.4
104.059	001	Bromodichloromethane	EPA 524.4
104.059	002	Bromoform	EPA 524.4
104.059	003	Chloroform	EPA 524.4
104.059	004	Dibromochloromethane	EPA 524.4
104.061	000	Gasoline Additives	EPA 524.4
104.061	001	Di-isopropyl Ether (DIPE)	EPA 524.4
104.061	003	tert-Amyl Methyl Ether (TAME)	EPA 524.4
104.061	004	Ethyl tert-butyl Ether (ETBE)	EPA 524.4
104.061	005	Trichlorofluoromethane (Freon 11)	EPA 524.4
104.061	006	tert-Butyl Alcohol (TBA)	EPA 524.4
104.061	007	Trichlorotrifluoroethane (Freon 113)	EPA 524.4

Field of Testing: 105 - Semi-volatile Organic Chemistry of Drinking Water

105.035	000	Organochlorine Pesticides and PCBs	EPA 508
105.035	001	Aldrin	EPA 508
105.035	005	Endrin	EPA 508
105.035	007	Heptachlor	EPA 508
105.035	008	Heptachlor Epoxide	EPA 508
105.035	009	Hexachlorobenzene	EPA 508
105.035	010	Lindane (HCH-gamma)	EPA 508
105.035	011	Methoxychlor	EPA 508
105.035	012	Propachlor	EPA 508
105.035	013	Chlordane	EPA 508
105.035	014	Toxaphene	EPA 508
105.035	015	PCBs as Aroclors	EPA 508
105.035	016	Aroclor 1016	EPA 508
105.035	017	Aroclor 1221	EPA 508
105.035	018	Aroclor 1232	EPA 508

105.035	019	Aroclor 1242	EPA 508
105.035	020	Aroclor 1248	EPA 508
105.035	021	Aroclor 1254	EPA 508
105.035	022	Aroclor 1260	EPA 508
105.050	000	Organochlorine Pesticides	EPA 508.1
105.050	005	Chlordane (total)	EPA 508.1
105.050	010	Endrin	EPA 508.1
105.050	011	Heptachlor	EPA 508.1
105.050	012	Heptachlor Epoxide	EPA 508.1
105.050	013	Hexachlorobenzene	EPA 508.1
105.050	014	Hexachlorocyclopentadiene	EPA 508.1
105.050	015	Lindane (HCH-gamma)	EPA 508.1
105.050	016	Methoxychlor	EPA 508.1
105.050	019	Propachlor	EPA 508.1
105.050	021	PCB-1016	EPA 508.1
105.050	022	PCB-1221	EPA 508.1
105.050	023	PCB-1232	EPA 508.1
105.050	024	PCB-1242	EPA 508.1
105.050	025	PCB-1248	EPA 508.1
105.050	026	PCB-1254	EPA 508.1
105.050	027	PCB-1260	EPA 508.1
105.050	028	PCBs as Aroclors	EPA 508.1
105.050	029	Toxaphene	EPA 508.1
105.083	000	Chlorinated Acids	EPA 515.4
105.083	001	2,4-D	EPA 515.4
105.083	002	Dinoseb	EPA 515.4
105.083	003	Pentachlorophenol	EPA 515.4
105.083	004	Picloram	EPA 515.4
105.083	005	2,4,5-TP (Silvex)	EPA 515.4
105.083	006	Dalapon	EPA 515.4
105.083	007	Bentazon	EPA 515.4
105.083	008	Dicamba	EPA 515.4
105.090	000	Semi-volatile Organic Compounds	EPA 525.2
105.090	001	Alachlor	EPA 525.2
105.090	003	Atrazine	EPA 525.2
105.090	004	Benzo(a)pyrene	EPA 525.2
105.090	005	Butachlor	EPA 525.2
105.090	007	Dieldrin	EPA 525.2
105.090	008	Di(2-ethylhexyl) Adipate	EPA 525.2
105.090	009	Di(2-ethylhexyl) Phthalate	EPA 525.2
105.090	013	Endrin	EPA 525.2
105.090	014	Heptachlor	EPA 525.2

105.090	015	Heptachlor Epoxide	EPA 525.2
105.090	016	Hexachlorobenzene	EPA 525.2
105.090	017	Hexachlorocyclopentadiene	EPA 525.2
105.090	018	Lindane (HCH-gamma)	EPA 525.2
105.090	019	Methoxychlor	EPA 525.2
105.090	022	Molinate	EPA 525.2
105.090	023	Pentachlorophenol	EPA 525.2
105.090	025	Simazine	EPA 525.2
105.090	028	Thiobencarb	EPA 525.2
105.101	000	Carbamates	EPA 531.2
105.101	001	Carbofuran	EPA 531.2
105.101	002	Oxamyl	EPA 531.2
105.101	003	Aldicarb	EPA 531.2
105.101	004	Aldicarb Sulfone	EPA 531.2
105.101	005	Aldicarb Sulfoxide	EPA 531.2
105.101	006	Carbaryl	EPA 531.2
105.101	007	3-Hydroxycarbofuran	EPA 531.2
105.101	008	Methomyl	EPA 531.2
105.106	000	Per- and Polyfluorinated Alkyl Substances (PFAS)	EPA 537.1
105.120	001	Glyphosate	EPA 547
105.140	001	Endothall	EPA 548.1
105.150	001	Diquat	EPA 549.2
105.170	031	Disinfection Byproducts	EPA 551.1
105.201	001	Haloacetic Acids (HAA5)	EPA 552.3
105.210	002	2,4-D	EPA 555
105.210	004	Dinoseb	EPA 555
105.210	005	Pentachlorophenol	EPA 555
105.210	006	Picloram	EPA 555
105.210	007	2,4,5-TP (Silvex)	EPA 555
105.210	008	Bentazon	EPA 555
105.215	001	Haloacetic Acids (HAA5)	EPA 557
105.215	002	Dalapon	EPA 557
105.230	002	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) Screen	EPA 1613 B

Field of Testing: 106 - Radionuclides in Drinking Water

106.010	001	Gross Alpha	EPA 900.0
106.010	002	Gross Beta	EPA 900.0
106.092	001	Uranium	EPA 200.8
106.270	001	Gross Alpha	SM 7110 C
106.610	001	Radon-222	SM 7500-Rn

Field of Testing: 107 - Microbiological Methods for Non-Potable Water and Sewage Sludge

107.001	001	Total Coliform (Enumeration)	SM 9221 B,C-2006
107.001	002	Fecal Coliform (Enumeration)	SM 9221 C,E-2006

107.001	003	E. coli (Enumeration)	SM 9221 C,F-2006
107.007	002	Fecal Streptococci	SM 9230 B-2007
107.013	001	E. coli (Enumeration)	Colilert
107.015	001	E. coli (Enumeration)	Colilert 18
107.015	002	Fecal Coliform (Enumeration)	Colilert 18
107.017	001	Enterococci	Enterolert

Field of Testing: 108 - Inorganic Constituents in Non-Potable Water

108.007	001	Residue, Volatile	EPA 160.4 (1971)
108.009	001	Turbidity	EPA 180.1 (1993 Rev. 2.0)
108.013	001	Calcium	EPA 200.7 (1994 Rev. 4.4)
108.013	002	Magnesium	EPA 200.7 (1994 Rev. 4.4)
108.013	003	Phosphorus,Total	EPA 200.7 (1994 Rev. 4.4)
108.013	004	Potassium	EPA 200.7 (1994 Rev. 4.4)
108.013	005	Silica, Dissolved	EPA 200.7 (1994 Rev. 4.4)
108.013	006	Sodium	EPA 200.7 (1994 Rev. 4.4)
108.015	001	Calcium	EPA 200.8 (1994 Rev. 5.4)
108.015	002	Magnesium	EPA 200.8 (1994 Rev. 5.4)
108.015	003	Potassium	EPA 200.8 (1994 Rev. 5.4)
108.015	005	Sodium	EPA 200.8 (1994 Rev. 5.4)
108.017	001	Bromide	EPA 300.0 (1993 Rev. 2.1)
108.017	002	Chloride	EPA 300.0 (1993 Rev. 2.1)
108.017	003	Fluoride	EPA 300.0 (1993 Rev. 2.1)
108.017	004	Nitrate (as N)	EPA 300.0 (1993 Rev. 2.1)
108.017	005	Nitrate-Nitrite (as N)	EPA 300.0 (1993 Rev. 2.1)
108.017	006	Nitrite (as N)	EPA 300.0 (1993 Rev. 2.1)
108.017	008	Sulfate (as SO4)	EPA 300.0 (1993 Rev. 2.1)
108.019	001	Bromide	EPA 300.1 (1997 Rev.1.0)
108.023	001	Cyanide, Total	EPA 335.4 (1993 Rev. 1.0)
108.025	001	Ammonia (as N)	EPA 350.1 (1993 Rev. 2.0)
108.029	001	Kjeldahl Nitrogen,Total (as N)	EPA 351.2 (1993 Rev. 2.0)
108.033	001	Nitrate-Nitrite (as N)	EPA 353.2 (1993 Rev. 2.0)
108.033	002	Nitrite (as N)	EPA 353.2 (1993 Rev. 2.0)
108.035	001	Phosphate,Ortho (as P)	EPA 365.1 (1993 Rev. 2.0)
108.035	002	Phosphorus,Total	EPA 365.1 (1993 Rev. 2.0)
108.037	001	Phosphate,Ortho (as P)	EPA 365.3 (1978)
108.037	002	Phosphorus,Total	EPA 365.3 (1978)
108.045	001	Chemical Oxygen Demand	EPA 410.4 (1993 Rev. 2.0)
108.049	001	Phenols, Total	EPA 420.4 (1993 Rev. 2.0)
108.053	002	Oil & Grease Total	EPA 1664 B
108.055	001	Color	SM 2120 B-2011
108.063	001	Alkalinity	SM 2320 B-2011
108.069	001	Specific Conductance	SM 2510 B-2011

108.071	001	Residue, Total	SM 2540 B-2011
108.073	001	Residue, Filterable TDS	SM 2540 C-2011
108.075	001	Residue, Non-filterable TSS	SM 2540 D-2011
108.077	001	Residue, Volatile	SM 2540 E-2011
108.079	001	Residue, Settleable	SM 2540 F-2011
108.080	001	Temperature	SM 2550 B-2010
108.114	001	Chlorine, Total Residual	SM 4500-Cl G-2011
108.114	002	Chlorine, Free	SM 4500-Cl G-2011
108.129	001	Cyanide, Available	SM 4500-CN G-2011
108.137	001	Hydrogen Ion (pH)	SM 4500-H+ B-2011
108.173	001	Oxygen, Dissolved	SM 4500-O G-2011
108.189	001	Sulfite (as SO3)	SM 4500-SO3 B-2011
108.201	001	Sulfide (as S)	SM 4500-S D-2011
108.207	001	Biochemical Oxygen Demand	SM 5210 B-2011
108.207	002	Carbonaceous BOD	SM 5210 B-2011
108.215	001	Organic Carbon-Total (TOC)	SM 5310 B-2011
108.225	001	Surfactants	SM 5540 C-2011
108.321	001	Cyanide, Total	ASTM D7511-12
108.339	001	Cyanide, Available	OIA-1677-09

Field of Testing: 109 - Metals and Trace Elements in Non-Potable Water

109.623	001	Aluminum	EPA 200.7 (1994 Rev. 4.4)
109.623	002	Antimony	EPA 200.7 (1994 Rev. 4.4)
109.623	003	Arsenic	EPA 200.7 (1994 Rev. 4.4)
109.623	004	Barium	EPA 200.7 (1994 Rev. 4.4)
109.623	005	Beryllium	EPA 200.7 (1994 Rev. 4.4)
109.623	006	Boron	EPA 200.7 (1994 Rev. 4.4)
109.623	007	Cadmium	EPA 200.7 (1994 Rev. 4.4)
109.623	008	Chromium	EPA 200.7 (1994 Rev. 4.4)
109.623	009	Cobalt	EPA 200.7 (1994 Rev. 4.4)
109.623	010	Copper	EPA 200.7 (1994 Rev. 4.4)
109.623	011	Iron	EPA 200.7 (1994 Rev. 4.4)
109.623	012	Lead	EPA 200.7 (1994 Rev. 4.4)
109.623	013	Manganese	EPA 200.7 (1994 Rev. 4.4)
109.623	014	Molybdenum	EPA 200.7 (1994 Rev. 4.4)
109.623	015	Nickel	EPA 200.7 (1994 Rev. 4.4)
109.623	016	Selenium	EPA 200.7 (1994 Rev. 4.4)
109.623	017	Silver	EPA 200.7 (1994 Rev. 4.4)
109.623	018	Thallium	EPA 200.7 (1994 Rev. 4.4)
109.623	019	Tin	EPA 200.7 (1994 Rev. 4.4)
109.623	020	Titanium	EPA 200.7 (1994 Rev. 4.4)
109.623	021	Vanadium	EPA 200.7 (1994 Rev. 4.4)
109.623	022	Zinc	EPA 200.7 (1994 Rev. 4.4)

109.625	001	Aluminum	EPA 200.8 (1994 Rev. 5.4)
109.625	002	Antimony	EPA 200.8 (1994 Rev. 5.4)
109.625	003	Arsenic	EPA 200.8 (1994 Rev. 5.4)
109.625	004	Barium	EPA 200.8 (1994 Rev. 5.4)
109.625	005	Beryllium	EPA 200.8 (1994 Rev. 5.4)
109.625	006	Boron	EPA 200.8 (1994 Rev. 5.4)
109.625	007	Cadmium	EPA 200.8 (1994 Rev. 5.4)
109.625	008	Chromium	EPA 200.8 (1994 Rev. 5.4)
109.625	009	Cobalt	EPA 200.8 (1994 Rev. 5.4)
109.625	010	Copper	EPA 200.8 (1994 Rev. 5.4)
109.625	012	Iron	EPA 200.8 (1994 Rev. 5.4)
109.625	013	Lead	EPA 200.8 (1994 Rev. 5.4)
109.625	014	Manganese	EPA 200.8 (1994 Rev. 5.4)
109.625	015	Molybdenum	EPA 200.8 (1994 Rev. 5.4)
109.625	016	Nickel	EPA 200.8 (1994 Rev. 5.4)
109.625	017	Selenium	EPA 200.8 (1994 Rev. 5.4)
109.625	018	Silver	EPA 200.8 (1994 Rev. 5.4)
109.625	019	Thallium	EPA 200.8 (1994 Rev. 5.4)
109.625	020	Tin	EPA 200.8 (1994 Rev. 5.4)
109.625	021	Titanium	EPA 200.8 (1994 Rev. 5.4)
109.625	022	Vanadium	EPA 200.8 (1994 Rev. 5.4)
109.625	023	Zinc	EPA 200.8 (1994 Rev. 5.4)
109.629	001	Chromium (VI)	EPA 218.6 (1994 Rev. 3.3)
109.635	001	Mercury	EPA 245.1 (1994 Rev. 3.0)
109.657	001	Mercury	EPA 1631 E (2002)

Field of Testing: 110 - Volatile Organic Constituents in Non-Potable Water

110.040	001	Acetone	EPA 624.1
110.040	002	Acetonitrile	EPA 624.1
110.040	003	Acrolein	EPA 624.1
110.040	004	Acrylonitrile	EPA 624.1
110.040	005	Benzene	EPA 624.1
110.040	006	Bromodichloromethane	EPA 624.1
110.040	007	Bromoform	EPA 624.1
110.040	008	Bromomethane (Methyl Bromide)	EPA 624.1
110.040	009	tert-Butyl Alcohol (TBA)	EPA 624.1
110.040	010	Carbon Tetrachloride	EPA 624.1
110.040	011	Chlorobenzene	EPA 624.1
110.040	012	Chloroethane	EPA 624.1
110.040	013	2-Chloroethylvinyl Ether	EPA 624.1
110.040	014	Chloroform	EPA 624.1
110.040	015	Chloromethane (Methyl Chloride)	EPA 624.1
110.040	016	Dibromochloromethane	EPA 624.1

110.040	017	1,2-Dichlorobenzene	EPA 624.1
110.040	018	1,3-Dichlorobenzene	EPA 624.1
110.040	019	1,4-Dichlorobenzene	EPA 624.1
110.040	020	1,1-Dichloroethane	EPA 624.1
110.040	021	1,2-Dichloroethane	EPA 624.1
110.040	022	1,1-Dichloroethene (1,1-Dichloroethylene)	EPA 624.1
110.040	023	trans-1,2-Dichloroethene	EPA 624.1
110.040	024	1,2-Dichloropropane	EPA 624.1
110.040	025	cis-1,3-Dichloropropene	EPA 624.1
110.040	026	trans-1,3-Dichloropropene	EPA 624.1
110.040	029	Ethylbenzene	EPA 624.1
110.040	031	Methylene Chloride (Dichloromethane)	EPA 624.1
110.040	032	4-Methyl-2-pentanone (MIBK)	EPA 624.1
110.040	034	1,1,2,2-Tetrachloroethane	EPA 624.1
110.040	035	Tetrachloroethylene (Tetrachloroethene)	EPA 624.1
110.040	037	Toluene	EPA 624.1
110.040	038	1,1,1-Trichloroethane	EPA 624.1
110.040	039	1,1,2-Trichloroethane	EPA 624.1
110.040	040	Trichloroethene	EPA 624.1
110.040	041	Vinyl Chloride	EPA 624.1
110.040	042	m-Xylene	EPA 624.1
110.040	043	o-Xylene	EPA 624.1
110.040	044	p-Xylene	EPA 624.1
110.040	045	Trichlorofluoromethane	EPA 624.1
110.070	002	n-Amyl Acetate	EPA 1666
110.070	004	n-Butyl Acetate	EPA 1666
110.070	005	tert-Butyl Alcohol (TBA)	EPA 1666
110.070	006	Diethylamine	EPA 1666
110.070	007	Dimethyl Sulfoxide	EPA 1666
110.070	009	Ethyl Acetate	EPA 1666
110.070	010	n-Heptane	EPA 1666
110.070	011	n-Hexane	EPA 1666
110.070	012	Isobutyraldehyde	EPA 1666
110.070	013	Isopropyl Acetate	EPA 1666
110.070	014	Isopropyl Alcohol (Isopropanol)	EPA 1666
110.070	015	Isopropyl Ether (DIPE)	EPA 1666
110.070	017	2-Methoxyethanol	EPA 1666
110.070	018	Methyl Formate	EPA 1666
110.070	019	4-Methyl-2-pentanone (MIBK)	EPA 1666
110.070	021	Tetrahydrofuran	EPA 1666
110.070	022	Triethylamine	EPA 1666
110.070	023	m-Xylene	EPA 1666

110.070	024	o-Xylene	EPA 1666
110.070	025	p-Xylene	EPA 1666

Field of Testing: 111 - Semi-volatile Organic Constituents in Non-Potable Water

111.055	001	Aldrin	EPA 608.3
111.055	002	alpha-BHC	EPA 608.3
111.055	003	beta-BHC	EPA 608.3
111.055	004	delta-BHC	EPA 608.3
111.055	005	gamma-BHC (Lindane)	EPA 608.3
111.055	006	Chlordane	EPA 608.3
111.055	007	4,4'-DDD	EPA 608.3
111.055	008	4,4'-DDE	EPA 608.3
111.055	009	4,4'-DDT	EPA 608.3
111.055	010	Dieldrin	EPA 608.3
111.055	011	Endosulfan I	EPA 608.3
111.055	012	Endosulfan II	EPA 608.3
111.055	013	Endosulfan Sulfate	EPA 608.3
111.055	014	Endrin	EPA 608.3
111.055	015	Endrin Aldehyde	EPA 608.3
111.055	016	Heptachlor	EPA 608.3
111.055	017	Heptachlor Epoxide	EPA 608.3
111.055	019	PCB-1016	EPA 608.3
111.055	020	PCB-1221	EPA 608.3
111.055	021	PCB-1232	EPA 608.3
111.055	022	PCB-1242	EPA 608.3
111.055	023	PCB-1248	EPA 608.3
111.055	024	PCB-1254	EPA 608.3
111.055	025	PCB-1260	EPA 608.3
111.055	046	Methoxychlor	EPA 608.3
111.055	050	Pentachloronitrobenzene (PCNB)	EPA 608.3
111.055	060	Toxaphene	EPA 608.3
111.160	001	Acenaphthene	EPA 625.1
111.160	002	Acenaphthylene	EPA 625.1
111.160	003	Anthracene	EPA 625.1
111.160	004	Benzidine	EPA 625.1
111.160	005	Benzo(a)anthracene	EPA 625.1
111.160	006	Benzo(a)pyrene	EPA 625.1
111.160	007	Benzo(b)fluoranthene	EPA 625.1
111.160	008	Benzo(g,h,i)perylene	EPA 625.1
111.160	009	Benzo(k)fluoranthene	EPA 625.1
111.160	010	Bis(2-chloroethoxy) Methane	EPA 625.1
111.160	011	Bis(2-chloroethyl) Ether	EPA 625.1
111.160	012	Bis(2-chloroisopropyl) Ether	EPA 625.1

111.160	013	Bis(2-ethylhexyl)phthalate	EPA 625.1
111.160	014	4-Bromophenyl Phenyl Ether	EPA 625.1
111.160	015	Butyl Benzyl Phthalate	EPA 625.1
111.160	016	2-Chloronaphthalene	EPA 625.1
111.160	017	4-Chlorophenyl Phenyl Ether	EPA 625.1
111.160	018	Chrysene	EPA 625.1
111.160	019	Dibenz(a,h)anthracene	EPA 625.1
111.160	020	3,3'-Dichlorobenzidine	EPA 625.1
111.160	021	Diethyl Phthalate	EPA 625.1
111.160	022	Dimethyl Phthalate	EPA 625.1
111.160	023	Di-n-butyl Phthalate	EPA 625.1
111.160	024	2,4-Dinitrotoluene	EPA 625.1
111.160	025	2,6-Dinitrotoluene	EPA 625.1
111.160	026	Di-n-octyl Phthalate	EPA 625.1
111.160	027	Fluoranthene	EPA 625.1
111.160	028	Fluorene	EPA 625.1
111.160	029	Hexachlorobenzene	EPA 625.1
111.160	030	Hexachlorobutadiene	EPA 625.1
111.160	031	Hexachloroethane	EPA 625.1
111.160	032	Indeno(1,2,3-c,d)pyrene	EPA 625.1
111.160	033	Isophorone	EPA 625.1
111.160	034	Naphthalene	EPA 625.1
111.160	035	Nitrobenzene	EPA 625.1
111.160	036	N-nitrosodi-n-propylamine	EPA 625.1
111.160	037	Phenanthrene	EPA 625.1
111.160	038	Pyrene	EPA 625.1
111.160	039	1,2,4-Trichlorobenzene	EPA 625.1
111.160	040	4-Chloro-3-methylphenol	EPA 625.1
111.160	041	2-Chlorophenol	EPA 625.1
111.160	042	2,4-Dichlorophenol	EPA 625.1
111.160	043	2,4-Dimethylphenol	EPA 625.1
111.160	044	2,4-Dinitrophenol	EPA 625.1
111.160	045	2-Methyl-4,6-dinitrophenol	EPA 625.1
111.160	046	2-Nitrophenol	EPA 625.1
111.160	047	4-Nitrophenol	EPA 625.1
111.160	048	Pentachlorophenol	EPA 625.1
111.160	049	Phenol	EPA 625.1
111.160	050	2,4,6-Trichlorophenol	EPA 625.1
111.210	006	Diuron	EPA 632
111.260	041	N-nitrosodimethylamine	EPA 1625 B
111.260	042	N-nitrosodi-n-propylamine	EPA 1625 B
111.260	043	N-nitrosodiphenylamine	EPA 1625 B

Field of Testing: 112 - Radionuclides in Non-Potable Water			
112.001	001	Gross Alpha	EPA 900.0
112.001	002	Gross Beta	EPA 900.0
Field of Testing: 114 - Inorganic Chemistry of Hazardous Waste			
114.010	001	Antimony	EPA 6010 B
114.010	002	Arsenic	EPA 6010 B
114.010	003	Barium	EPA 6010 B
114.010	004	Beryllium	EPA 6010 B
114.010	005	Cadmium	EPA 6010 B
114.010	006	Chromium	EPA 6010 B
114.010	007	Cobalt	EPA 6010 B
114.010	008	Copper	EPA 6010 B
114.010	009	Lead	EPA 6010 B
114.010	010	Molybdenum	EPA 6010 B
114.010	011	Nickel	EPA 6010 B
114.010	012	Selenium	EPA 6010 B
114.010	013	Silver	EPA 6010 B
114.010	014	Thallium	EPA 6010 B
114.010	015	Vanadium	EPA 6010 B
114.010	016	Zinc	EPA 6010 B
114.020	001	Antimony	EPA 6020
114.020	002	Arsenic	EPA 6020
114.020	003	Barium	EPA 6020
114.020	004	Beryllium	EPA 6020
114.020	005	Cadmium	EPA 6020
114.020	006	Chromium	EPA 6020
114.020	007	Cobalt	EPA 6020
114.020	008	Copper	EPA 6020
114.020	009	Lead	EPA 6020
114.020	010	Molybdenum	EPA 6020
114.020	011	Nickel	EPA 6020
114.020	012	Selenium	EPA 6020
114.020	013	Silver	EPA 6020
114.020	014	Thallium	EPA 6020
114.020	015	Vanadium	EPA 6020
114.020	016	Zinc	EPA 6020
114.106	001	Chromium (VI)	EPA 7199
114.140	001	Mercury	EPA 7470 A
114.141	001	Mercury	EPA 7471 A
114.222	001	Cyanide, Total	EPA 9014
114.240	001	Corrosivity - pH Determination	EPA 9040 B
114.241	001	Corrosivity - pH Determination	EPA 9045 C

114.250	001	Fluoride	EPA 9056

Field of Testing: 115 - Extraction Test of Hazardous Waste

115.020	001	Toxicity Characteristic Leaching Procedure (TCLP)	EPA 1311 (TCLP)
115.021	001	TCLP Inorganics	EPA 1311 (TCLP)
115.022	001	TCLP Extractables	EPA 1311 (TCLP)
115.023	001	TCLP Volatiles	EPA 1311 (TCLP)
115.030	001	Waste Extraction Test (WET)	CCR Chapter11, Article 5, Appendix II
115.040	001	Synthetic Precipitation Leaching Procedure (SPLP)	EPA 1312 (SPLP)

Field of Testing: 116 - Volatile Organic Chemistry of Hazardous Waste

116.020	030	Nonhalogenated Volatiles	EPA 8015 B
116.020	031	Ethanol and Methanol	EPA 8015 B
116.080	000	Volatile Organic Compounds	EPA 8260 B
116.090	000	Acrylamide, Acrylonitrile, Acrolein	EPA 8316
116.100	001	Total Petroleum Hydrocarbons - Gasoline (GRO)	LUFT GC/MS

Field of Testing: 117 - Semi-volatile Organic Chemistry of Hazardous Waste

117.010	001	Diesel-range Total Petroleum Hydrocarbons	EPA 8015 B
117.110	000	Extractable Organics	EPA 8270 C
117.111	071	Pesticides	EPA 8270 C
117.150	000	Carbonyl Compounds	EPA 8315 A
117.171	000	Nitroaromatics and Nitramines	EPA 8330 A
117.210	000	Organochlorine Pesticides	EPA 8081 A
117.220	000	PCBs	EPA 8082
117.240	000	Organophosphorus Pesticides	EPA 8141 A
117.250	000	Chlorinated Herbicides	EPA 8151 A
117.270	000	Carbamates, N-methylcarbamates	EPA 8318
117.280	000	Carbamates	EPA 8321 A

Field of Testing: 120 - Physical Properties of Hazardous Waste

120.010	001	Ignitability	EPA 1010
120.070	001	Corrosivity - pH Determination	EPA 9040 B
120.080	001	Corrosivity - pH Determination	EPA 9045 C

Field of Testing: 126 - Microbiological Methods for Ambient Water

126.003	001	Total Coliform (Enumeration)	SM 9221 B,C-2006
126.003	002	Fecal Coliform (Enumeration)	SM 9221 C,E-2006
126.007	001	E. coli (Enumeration)	SM 9223 B-2004
126.015	001	E. coli (Enumeration)	Colilert
126.017	001	E. coli (Enumeration)	Colilert 18
126.019	001	Enterococci	Enterolert