INTEGRATED
PERFORMANCE
CONSULTANTS

July 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 2nd Quarter Monitoring Report — MRP: CI-10042

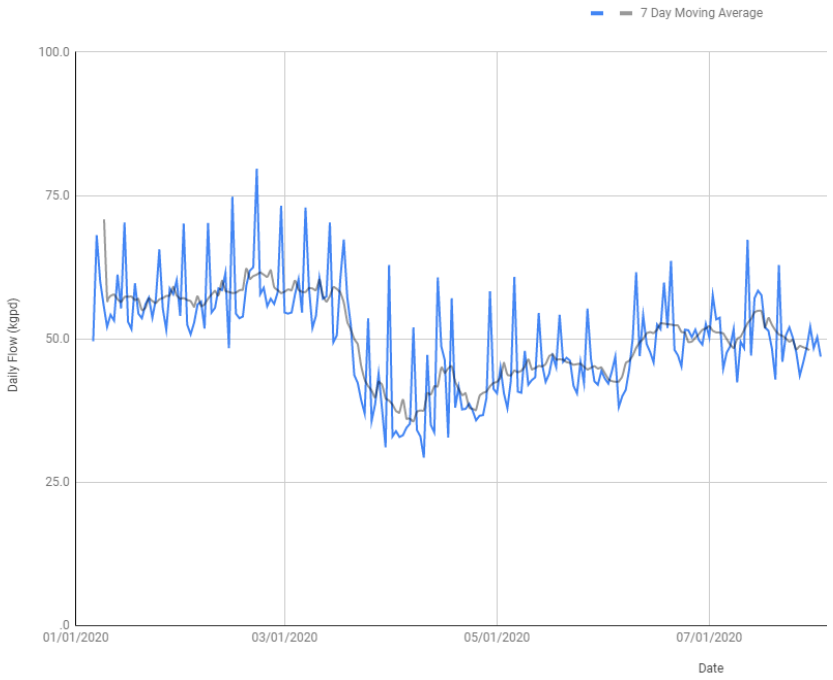
OVERVIEW

Malibu Civic Center Wastewater Treatment Plant performed well all quarter.

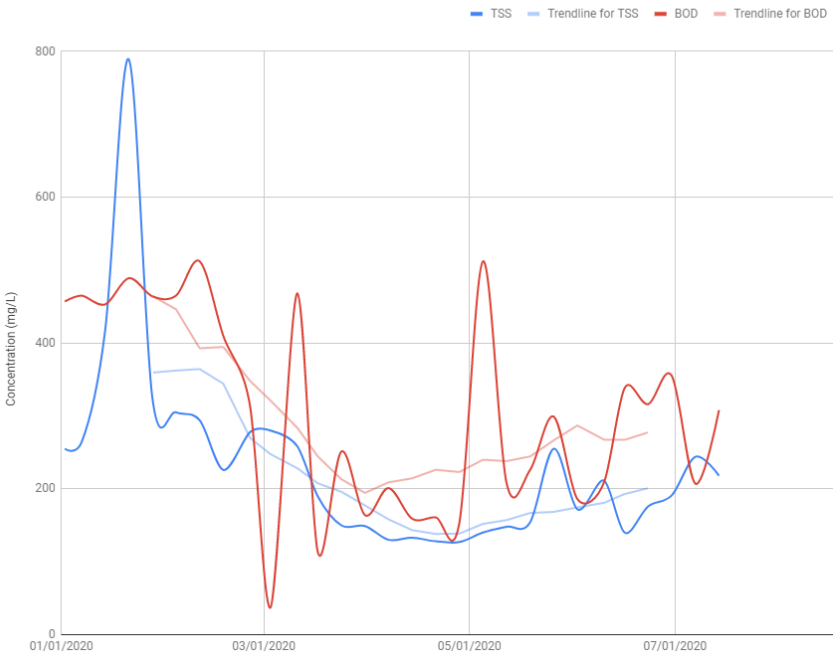
Irrigation demand at Bluffs Park increases after the cessation of persistent wet weather. The Upper Zone reclaimed water distribution system has operated smoothly since Bluffs Park was put online, delivering nearly 1 million gallons for reuse this quarter.

Stay at home orders and business shutdowns due to the COVID-19 pandemic reduced flow and load substantially for the first two months of the quarter. Flow and waste strength both decreased to 50% of normal values, yielding 25% of normal organic mass load. This made the biological process more difficult to operate. Continuous MicroC addition was required for BOD replacement and NOx control. Approximately half of the lost flow and load came back by the third month of the quarter as stay at home and business shutdown orders were released under the Governor's staged reopening plan. MicroC dose was decreased in concert with flow and load increases. Flow and load trends are provided on the following page.

MCP WTP Flow



MCC WTP Influent Strength



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 & B.

WASTE HAULING

35,000 gallons of thickened waste activated sludge were hauled off site from the MBT this quarter for biological process control. The results of waste hauling are shown in Attachment C.

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 July, 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															
04/01/2020	Wed	35.2			27.8	0.0	2.4	25.4	0.0	0.05	0.47	0.41	66.0	200.0	7.2	1.79	1.79	1.79	0.049	2.0	98.8	1.0	99.3	0.3	0.3	0.03	0.09	0.67	0.58	0.98								
04/02/2020	Thu	52.0			37.2	0.0	12.6	24.6	0.0	0.06	0.12	0.00	65.9	189.7	7.7	1.79	1.79	1.79	0.049																			
04/03/2020	Fri	34.1			24.2	0.0	2.3	21.9	0.0	0.06	0.19	0.00	66.1	199.9	7.7	1.79	1.79	1.79	0.049												4.9	5.7	1,264	345	299	0.47	0.19
04/04/2020	Sat	33.0			34.7	0.0	2.4	32.3	0.0	0.07	0.11	0.00	66.0	199.9	7.7	1.79	1.79	1.79	0.049																			
04/05/2020	Sun	29.3			51.9	0.0	23.9	28.0	0.0	0.09	0.18	0.00	66.2	199.9	7.7	1.79	1.79	1.79	0.049																			
04/06/2020	Mon	47.2			32.4	0.0	3.3	29.2	0.0	0.09	0.17	0.00	65.9	132.5	7.6	1.79	1.79	1.79	0.049																			
04/07/2020	Tue	35.0	130	201	48.8	0.0	2.3	46.5	0.0	0.06	0.13	0.00	66.0	133.9	7.7	1.79	1.79	1.79	0.049																			
04/08/2020	Wed	33.7			37.9	0.0	2.3	35.5	0.0	0.04	0.12	0.00	66.2	185.6	7.7	1.79	1.79	1.79	0.049	4.0	98.0	0.9	99.3	1.9	1.9	0.02	0.22	0.51	0.29	2.41								
04/09/2020	Thu	60.7			72.3	0.0	2.3	70.0	0.0	0.03	0.04	0.00	65.9	163.8	7.6	1.79	1.79	1.79	0.049																			
04/10/2020	Fri	48.7			66.3	0.0	2.4	63.9	0.0	0.02	0.03	0.00	67.2	168.4	7.6	1.79	1.79	1.79	0.049																			
04/11/2020	Sat	46.3			39.0	0.0	2.3	36.8	0.0	0.03	0.49	2.19	66.9	172.3	7.6	1.79	1.79	1.79	0.049																			
04/12/2020	Sun	32.8			43.1	0.0	2.4	40.7	0.0	0.02	0.08	0.00	65.5	183.9	7.8	1.79	1.79	1.79	0.049																			
04/13/2020	Mon	57.1			39.8	0.0	2.3	37.5	0.0	0.03	0.49	0.66	65.9	175.0	7.8	1.79	1.79	1.79	0.049																			
04/14/2020	Tue	38.0	133	159	46.7	0.0	2.2	44.6	0.0	0.03	0.45	0.25	65.9	147.2	7.6	1.79	1.79	1.79	0.049																			
04/15/2020	Wed	41.6			42.7	0.0	2.3	40.4	0.0	0.03	0.05	0.00	65.9	179.5	7.4	1.79	1.79	1.79	0.049	2.0	98.7	0.9	99.3	2.3	2.3	0.02	0.09	0.62	0.53	2.94								
04/16/2020	Thu	37.7			37.3	0.0	2.4	34.9	0.0	0.03	0.17	0.00	65.8	184.3	7.8	1.79	1.79	1.79	0.049																			
04/17/2020	Fri	55.8			33.4	0.0	2.3	31.1	0.0	0.05	0.07	0.00	65.9	192.9	7.7	1.79	1.79	1.79	0.049																			
04/18/2020	Sat	57.5			37.0	0.0	2.2	34.7	0.0	0.06	0.11	0.00	66.0	190.0	7.7	1.79	1.79	1.79	0.049																			
04/19/2020	Sun	60.0			33.7	0.0	2.4	31.4	0.0	0.07	0.15	0.00	65.8	196.2	7.8	1.79	1.79	1.79	0.049																			
04/20/2020	Mon	58.5			33.4	0.0	2.4	31.0	0.0	0.07	0.12	0.00	65.9	196.6	7.7	1.79	1.79	1.79	0.049																			
04/21/2020	Tue	48.9	128	161	39.0	0.0	11.1	27.8	0.0	0.08	0.35	0.15	65.9	198.2	7.7	1.79	1.79	1.79	2.200																			
04/22/2020	Wed	69.5			34.7	0.0	2.4	32.3	0.0	0.08	0.12	0.00	65.8	197.9	7.2	1.79	1.79	1.79	0.049	5.0	96.9	3.0	97.7	0.1	0.1	0.02	0.09	0.72	0.63	0.79								
04/23/2020	Thu	58.7			47.4	0.0	20.6	26.8	0.0	0.10	0.14	0.00	65.7	197.8	7.2	1.79	1.79	1.79	0.049																			
04/24/2020	Fri	55.3			24.1	0.0	2.3	21.8	0.0	0.12	0.22	0.05	66.0	199.9	7.8	1.79	1.79	1.79	0.049																			
04/25/2020	Sat	58.0			43.9	0.0	3.0	40.9	0.0	0.11	0.18	0.00	65.7	143.5	7.7	1.79	1.79	1.79	0.049																			
04/26/2020	Sun	54.3			54.7	0.0	22.2	32.5	0.0	0.12	0.27	0.15	66.3	179.9	7.8	1.79	1.79	1.79	0.049																			
04/27/2020	Mon	51.9			39.9	0.0	26.2	13.7	0.0	0.13	0.23	0.10	66.0	167.3	8.0	1.79	1.79	1.79	0.049																			
04/28/2020	Tue	49.1	127	153	52.7	0.0	21.2	31.5	0.0	0.12	0.30	0.10	66.8	164.5	7.6	1.79	1.79	1.79	0.049																			
04/29/2020	Wed	37.9			55.4	0.0	55.4	0.0	0.0	0.12	0.16	0.00	66.0	195.5	7.9	1.79	1.79	1.79	0.049	8.0	94.8	1.0	99.2	0.0	0.0	0.02	0.13	0.39	0.26	0.43								
04/30/2020	Thu	42.7			44.6	0.0	30.5	14.1	0.0	0.13	0.39	0.20	65.9	196.8	7.9	1.79	1.79	1.79	0.049																			
TOTAL		1,421			1,256.0	0.0	274.3	981.7	0.0																													
MAX		69.5	133	201	72.3	0.0	55.4	70.0	0.0	0.13	0.49	2.19	67.2	200.0	8.0	1.79	1.79	1.79	2.200	8.0	98.8	3.0	99.3	2.3	2.3	0.03	0.22	0.72	0.63	2.94	4.9	5.7	1,264	345	299	0.47	0.19
AVG		47.4	130	169	41.9	0.0	9.1	32.7	0.0	0.07	0.20	0.14	66.0	181.1	7.7	1.79	1.79	1.79	0.121	4.2	97.4	1.4	99.0	0.9	0.9	0.02	0.12	0.58	0.46	1.51	4.9	5.7	1,264	345	299	0.47	0.19
MIN		29.3	127	153	24.1	0.0	2.2	0.0	0.0	0.02	0.03	0.00	65.5	132.5	7.2	1.79	1.79	1.79	0.049	2.0	94.8	0.9	97.7	0.0	0.0	0.02	0.09	0.39	0.26	0.43	4.9	5.7	1,264	345	299	0.47	0.19

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															
05/01/2020	Fri	60.8			54.9	0.0	0.0	54.9	0.0	0.13	0.20	0.10	66.2	155.5	7.8	1.79	1.79	1.79	0.049																		
05/02/2020	Sat	40.8			0.3	0.0	0.3	0.0	0.0	0.12	0.26	0.15	66.9	156.0	7.8	1.79	1.79	1.79	0.049																		
05/03/2020	Sun	40.6			38.0	0.0	20.8	17.2	0.0	0.12	0.19	0.00	66.6	190.2	7.7	1.79	1.79	1.79	0.049																		
05/04/2020	Mon	47.9			32.1	0.0	16.9	15.1	0.0	0.13	0.15	0.00	66.2	173.7	7.7	1.79	1.79	1.79	0.049																4.9	2.0	1,644	363	267	0.61	0.05
05/05/2020	Tue	42.0	140	512	42.2	0.0	19.3	22.9	0.0	0.15	0.49	0.41	65.8	178.4	7.7	1.79	1.79	1.79	0.049																		
05/06/2020	Wed	42.8			48.9	0.0	22.5	26.4	0.0	0.15	0.18	0.00	65.7	177.5	7.4	1.79	1.79	1.79	0.049	5.0	99.0	0.9	99.4	0.0	0.0	0.02	0.18	0.73	0.55	0.77							
05/07/2020	Thu	43.3			25.5	0.0	19.3	6.2	0.0	0.12	0.16	0.00	65.6	179.6	7.8	1.79	1.79	1.79	0.049																		
05/08/2020	Fri	54.5			35.3	0.0	35.0	0.3	0.0	0.11	0.37	0.25	66.2	170.0	7.7	1.79	1.79	1.79	0.049																		
05/09/2020	Sat	45.5			34.0	0.0	0.6	33.4	0.0	0.12	0.18	0.00	66.2	189.3	7.6	1.79	1.79	1.79	0.049																		
05/10/2020	Sun	42.5			49.1	0.0	19.2	30.0	0.0	0.16	0.31	0.20	66.4	198.0	7.7	1.79	1.79	1.79	0.049																		
05/11/2020	Mon	43.9			43.7	0.0	36.9	6.8	0.0	0.18	0.22	0.15	66.1	195.8	7.7	1.79	1.79	1.79	0.049																		
05/12/2020	Tue	47.0	148	208	58.1	0.0	23.2	34.9	0.0	0.17	0.27	0.15	66.5	194.6	7.7	1.79	1.79	1.79	0.049																		
05/13/2020	Wed	45.1			49.9	0.0	28.3	21.6	0.0	0.18	0.26	0.31	66.4	194.0	7.7	1.79	1.79	1.79	0.049	3.0	98.6	0.9	99.4	0.0	0.0	0.02	0.17	1.13	0.96	1.17							
05/14/2020	Thu	54.2			48.4	0.0	21.7	26.7	0.0	0.14	0.34	1.22	66.0	184.1	7.7	1.79	1.79	1.79	0.049																		
05/15/2020	Fri	46.0			48.4	0.0	24.6	23.8	0.0	0.14	0.25	0.31	66.2	173.1	7.6	1.79	1.79	1.79	0.049																		
05/16/2020	Sat	46.7			45.7	0.0	2.4	43.3	0.0	0.15	0.31	0.97	66.2	185.8	7.6	1.79	1.79	1.79	0.049																		
05/17/2020	Sun	46.2			53.2	0.0	21.5	31.7	0.0	0.16	0.37	0.61	66.0	181.2	7.7	1.79	1.79	1.79	0.049																		
05/18/2020	Mon	41.8			46.0	0.0	30.6	15.4	0.0	0.15	0.41	1.48	65.8	159.4	7.8	1.79	1.79	1.79	0.049																		
05/19/2020	Tue	40.5	154	226	58.6	0.0	20.7	37.9	0.0	0.12	0.15	0.00	65.6	185.8	7.6	1.79	1.79	1.79	0.049																		
05/20/2020	Wed	46.0			36.7	0.0	12.2	24.4	0.0	0.08	0.42	0.36	66.0	184.1	7.8	1.79	1.79	1.79	0.049	3.0	98.7	2.0	98.7	1.3	1.3	0.02	0.90	0.92	0.02	2.21							
05/21/2020	Thu	42.3			54.2	0.0	20.8	33.4	0.0	0.08	0.30	0.20	66.0	170.4	7.3	1.79	1.79	1.79	0.049																		
05/22/2020	Fri	55.3			41.9	0.0	31.3	10.6	0.0	0.08	0.45	0.31	70.3	180.1	7.7	1.79	1.79	1.79	0.049																		
05/23/2020	Sat	46.5			42.3	0.0	3.0	39.3	0.0	0.07	0.38	0.25	74.7	174.4	7.5	1.79	1.79	1.79	0.049																		
05/24/2020	Sun	42.6			59.5	0.0	20.9	38.6	0.0	0.07	0.37	0.31	71.0	174.4	7.7	1.79	1.79	1.79	0.049																		
05/25/2020	Mon	42.0			38.4	0.0	29.5	8.8	0.0	0.07	0.45	0.36	70.5	178.3	7.7	1.79	1.79	1.79	0.049																		
05/26/2020	Tue	44.4	255	299	53.0	0.0	21.3	31.8	0.0	0.06	0.39	0.20	70.3	177.9	7.6	1.79	1.79	1.79	0.130																		
05/27/2020	Wed	43.1			39.1	0.0	28.3	10.7	0.0	0.05	0.48	0.31	69.4	167.9	7.4	1.79	1.79	1.79	0.049	3.0	99.0	2.0	99.2	0.0	0.0	0.02	0.59	1.11	0.52	1.15							
05/28/2020	Thu	42.2			57.3	0.0	21.3	36.0	0.0	0.06	0.39	0.15	68.3	179.6	7.7	1.79	1.79	1.79	0.049																		
05/29/2020	Fri	44.3			38.8	0.0	22.5	16.4	0.0	0.06	0.46	0.25	67.9	179.8	7.6	1.79	1.79	1.79	0.049																		
05/30/2020	Sat	46.9			39.8	0.0	2.6	37.2	0.0	0.06	0.37	0.36	66.0	168.5	7.6	1.79	1.79	1.79	0.049																		
05/31/2020	Sun	38.1			55.0	0.0	21.9	33.1	0.0	0.07	0.08	0.00	62.9	150.1	7.5	1.79	1.79	1.79	0.049																		
TOTAL	1,406			1,368.0	0.0	599.2	768.8	0.0																												
MAX	60.8	255	512	59.5	0.0	36.9	54.9	0.0	0.18	0.49	1.48	74.7	198.0	7.8	1.79	1.79	1.79	0.130	5.0	99.0	2.0	99.4	1.3	1.3	0.02	0.90	1.13	0.96	2.21	4.9	2.0	1,644	363	267	0.61	0.05
AVG	45.3	174	311	44.1	0.0	19.3	24.8	0.0	0.11	0.31	0.30	67.1	177.7	7.6	1.79	1.79	1.79	0.052	3.5	98.8	1.5	99.2	0.4	0.3	0.02	0.46	0.97	0.51	1.32	4.9	2.0	1,644	363	267	0.61	0.05
MIN	38.1	140	208	0.3	0.0	0.0	0.0	0.0	0.05	0.08	0.00	62.9	150.1	7.3	1.79	1.79	1.79	0.049	3.0	98.6	0.9	98.7	0.0	0.0	0.02	0.17	0.73	0.02	0.77	4.9	2.0	1,644	363	267	0.61	0.05

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															
06/01/2020	Mon	40.0			22.6	0.0	1.4	21.1	0.0	0.07	0.08	0.00	70.9	190.1	7.5	1.79	1.79	1.79	1.200																			
06/02/2020	Tue	41.1	172	186	35.9	0.0	3.7	32.2	0.0	0.07	0.39	0.15	72.5	184.2	7.4	1.79	1.79	1.79	0.290																			
06/03/2020	Wed	44.7			12.7	0.0	0.0	12.7	0.0	0.06	0.21	0.05	70.8	189.7	7.6	1.79	1.79	1.79	0.049	4.0	97.8	1.0	99.4	0.0	0.0	0.02	0.09	3.24	3.15	3.28	4.9	0.4	972	256	297	0.49	0.19
06/04/2020	Thu	50.0			44.6	0.0	8.0	36.6	0.0	0.09	0.39	0.41	70.1	171.5	7.6	1.79	1.79	1.79	0.049																			
06/05/2020	Fri	61.6			42.0	0.0	9.1	32.9	0.0	0.08	0.16	0.00	69.6	119.3	7.7	1.79	1.79	1.79	0.049																			
06/06/2020	Sat	47.0			50.7	0.0	0.0	50.7	0.0	0.09	0.41	0.20	70.6	125.9	7.6	1.79	1.79	1.79	0.049																			
06/07/2020	Sun	54.1			44.2	0.0	0.0	44.2	0.0	0.11	0.25	0.20	70.6	134.8	7.7	1.79	1.79	1.79	0.049																			
06/08/2020	Mon	49.1			18.0	0.0	7.3	10.7	0.0	0.10	0.44	0.31	70.8	133.8	7.7	1.79	1.79	1.79	0.049																			
06/09/2020	Tue	47.7			43.2	0.0	0.8	42.4	0.0	0.03	0.04	0.00	69.5	165.0	7.7	1.79	1.79	1.79	0.049																			
06/10/2020	Wed	45.9	211	210	11.5	0.0	1.0	10.5	0.0	0.04	0.12	0.00	69.6	169.8	7.8	1.79	1.79	1.79	0.049	2.0	99.0	1.0	99.5	0.0	0.0	0.02	0.18	0.51	0.33	0.55						
06/11/2020	Thu	52.5			34.3	0.0	0.2	34.1	0.0	0.06	0.38	1.27	74.4	162.4	8.0	1.79	1.79	1.79	0.049																			
06/12/2020	Fri	51.7			8.5	0.0	1.4	7.1	0.0	0.15	0.45	0.56	74.3	140.9	7.6	1.79	1.79	1.79	0.049																			
06/13/2020	Sat	59.8			51.1	0.0	1.8	49.3	0.0	0.15	0.35	0.41	74.4	152.7	7.6	1.79	1.79	1.79	0.049																			
06/14/2020	Sun	51.9			43.4	0.0	1.5	41.8	0.0	0.14	0.41	0.36	74.5	115.5	7.5	1.79	1.79	1.79	0.049																			
06/15/2020	Mon	63.6			15.1	0.0	0.6	14.5	0.0	0.11	0.14	0.00	74.4	105.3	7.8	1.79	1.79	1.79	0.049																			
06/16/2020	Tue	48.1	140	338	28.3	0.0	1.4	26.8	0.0	0.03	0.48	0.10	74.8	117.7	6.7	1.79	1.79	1.79	0.049																			
06/17/2020	Wed	47.1			1.7	0.0	0.1	1.7	0.0	0.03	0.35	0.15	74.3	154.6	7.4	1.79	1.79	1.79	0.049	5.0	98.5	0.9	99.4	0.0	0.0	0.02	0.09	1.05	0.96	1.09							
06/18/2020	Thu	45.2			26.2	0.0	0.0	26.2	0.0	0.08	0.45	0.51	72.0	168.4	7.6	1.79	1.79	1.79	0.049																			
06/19/2020	Fri	51.6			1.6	0.0	0.0	1.6	0.0	0.15	0.45	0.66	69.5	170.7	7.5	1.79	1.79	1.79	0.049																			
06/20/2020	Sat	51.5			43.1	0.0	1.5	41.6	0.0	0.16	0.40	0.71	69.4	163.2	7.7	1.79	1.79	1.79	0.049																			
06/21/2020	Sun	50.3			40.4	0.0	1.6	38.8	0.0	0.18	0.21	0.20	70.3	169.1	7.6	1.79	1.79	1.79	0.049																			
06/22/2020	Mon	51.6			27.5	0.0	6.2	21.3	0.0	0.17	0.21	0.76	67.8	134.2	7.5	1.79	1.79	1.79	0.049																			
06/23/2020	Tue	49.8	176	316	48.5	0.0	0.0	48.5	0.0	0.19	0.21	0.76	67.5	137.9	7.4	1.79	1.79	1.79	0.049																			
06/24/2020	Wed	49.0			23.9	0.0	0.0	23.9	0.0	0.12	0.34	0.20	71.6	140.1	7.2	1.79	1.79	1.79	0.049	2.0	99.4	0.9	99.5	0.2	0.2	0.02	0.23	0.77	0.54	1.02							
06/25/2020	Thu	52.6			48.4	0.0	0.8	47.5	0.0	0.11	0.43	0.25	68.4	138.7	7.6	1.79	1.79	1.79	0.049																			
06/26/2020	Fri	50.3			33.0	0.0	0.0	33.0	0.0	0.07	0.23	0.15	69.2	155.0	7.6	1.79	1.79	1.79	0.049																			
06/27/2020	Sat	57.6			24.0	0.0	5.7	18.3	0.0	0.04	0.49	0.36	75.8	194.8	7.5	1.79	1.79	1.79	0.049																			
06/28/2020	Sun	53.4			47.6	0.0	2.1	45.5	0.0	0.03	0.14	0.00	68.5	83.1	7.5	1.79	1.79	1.79	0.049																			
06/29/2020	Mon	53.7			51.4	0.0	2.3	49.1	0.0	0.03	0.41	0.15	66.3	94.1	7.6	1.79	1.79	1.79	0.049																			
06/30/2020	Tue	44.8	191	355	51.2	0.0	8.6	42.6	0.0	0.03	0.32	0.10	67.3	130.8	7.7	1.79	1.79	1.79	0.049																			
TOTAL		1,517.3			974.5	0.0	67.2	907.3	0.0																													
MAX		63.6	211	355	51.4	0.0	9.1	50.7	0.0	0.19	0.49	1.27	75.8	194.8	8.0	1.79	1.79	1.79	1.200	5.0	99.4	1.0	99.5	0.2	0.2	0.02	0.23	3.24	3.15	3.28	4.9	0.4	972	256	297	0.49	0.19
AVG		50.6	178	281	32.5	0.0	2.2	30.2	0.0	0.09	0.31	0.30	71.0	147.1	7.6	1.79	1.79	1.79	0.095	3.3	98.7	1.0	99.4	0.1	0.1	0.02	0.15	1.39	1.25	1.48	4.9	0.4	972	256	297	0.49	0.19
MIN		40.0	140	186	1.6	0.0	0.0	1.6	0.0	0.03	0.04	0.00	66.3	83.1	6.7	1.79	1.79	1.79	0.049	2.0	97.8	0.9	99.4	0.0	0.0	0.02	0.09	0.51	0.33	0.55	4.9	0.4	972	256	297	0.49	0.19

ATTACHMENT B: QUARTERLY EFF

	>> DATE >>		1/14	4/13						
	MCL	Units	Q1	Q2	Q3	Q3	Q4	MAX	AVG	MIN
A1 - Inorganic Chemicals										
Aluminum	1	mg/L	0.017	0.023					0.02	0.017
Antimony	0.006	mg/L	0.0009	0.0009					0.0009	0.0009
Arsenic	0.01	mg/L	0.0014	0.0022					0.0018	0.0014
Asbestos	7	MFL	0	0					0	0
Barium	1	mg/L	0.016	0.012					0.014	0.012
Beryllium	0.004	mg/L	0.00019	0.0019					0.001045	0.00019
Cadmium	0.005	mg/L	0.00019	0.0019					0.001045	0.00019
Chromium	0.05	mg/L	0.008	0.0025					0.00525	0.0025
Cyanide	0.15	mg/L	0.0000049	0.0000049					0.0000049	0.0000049
Mercury	0.002	mg/L	0.00019	0.00019					0.00019	0.00019
Nickel	0.1	mg/L	0.004	0.0035					0.00375	0.0035
Selenium	0.05	mg/L	0.0026	0.0085					0.00555	0.0026
Thallium	0.002	mg/L	0.0009	0.0009					0.0009	0.0009
Perchlorate	0.006	mg/L	0	0.004					0.002	0
Fluoride	2	mg/L	0.6	1.02					0.81	0.6
A2 - Radioactivity										
Radium-226 + Radium-228	5	pCi/L	0.762	0.867					0.8145	0.762
Gross Alpha Particle Activity[1]	15	pCi/L	1.18	1.35					1.265	1.18
Tritium	20,000	pCi/L	434	434					434	434
Strontium-90	8	pCi/L	0.546	0.546					0.546	0.546
Gross Beta Particle Activity	50	pCi/L	1.03	0.639					0.8345	0.639
Uranium	20	pCi/L	0.8	7.2					4	0.8
A3 - Volatile Organic Chemicals										
Benzene	0.001	mg/L	0.00049	0.00049					0.00049	0.00049
Carbon Tetrachloride (CTC)	0.0005	mg/L	0.00049	0.00049					0.00049	0.00049
1,2-Dichlorobenzene	0.6	mg/L	0.00049	0.00049					0.00049	0.00049
1.4-Dichlorobenzene	0.005	mg/L	0.00049	0.00049					0.00049	0.00049
1, 1-Dichloroethane	0.005	mg/L	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
1, 1-Dichloroethene (1, 1-DCE)	0.006	mg/L	0.00049	0.00049					0.00049	0.00049
Cis-1,2-Dichloroethylene	0.006	mg/L	0.00049	0.00049					0.00049	0.00049
Trans-1,2-Dichloroethylene	0.01	mg/L	0.00049	0.00049					0.00049	0.00049
Dichloromethane	0.005	mg/L	0.00049	0.00049					0.00049	0.00049
1,2-Dichloropropane	0.005	mg/L	0.00049	0.00049					0.00049	0.00049
1,3-Dichloropropene	0.0005	mg/L	0.00049	0.00049					0.00049	0.00049
Ethylbenzene	0.3	mg/L	0.00049	0.00049					0.00049	0.00049
Methyl-tert-butyl-ether (MTBE)	0.013	mg/L	0.01249	0.00049					0.00649	0.00049
Monochlorobenzene	0.07	mg/L	0.00049	0.00049					0.00049	0.00049
Styrene	0.1	mg/L	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
Tetrachloroethylene (PCE)	0.005	mg/L	0.00049	0.00049					0.00049	0.00049

	>> DATE >>		1/14	4/13						
	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
Atrazine	0.001	mg/L	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
Benzo(a)pyrene	0.0002	mg/L	0.000049	0.000049				0.000049	0.000049	0.000049
Carbofuran	0.018	mg/L	0.0019	0.0009				0.0019	0.0014	0.0009
Chlordane	0.0001	mg/L	0.000089	0.000089				0.000089	0.000089	0.000089
2,4-D	0.07	mg/L	0.00019	0.00019				0.00019	0.00019	0.00019
Dalapon	0.2	mg/L	0.0019	0.0019				0.0019	0.0019	0.0019
1,2-Dibromo-3-chloropropane (DBCP)	0.0002	mg/L	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
Di(2-ethylhexyl)phthalate	0.004	mg/L	0.0019	0.0019				0.0019	0.0019	0.0019
Dinoseb	0.007	mg/L	0.00019	0.00019				0.00019	0.00019	0.00019
Diquat	0.02	mg/L	0.001884	0.001863				0.001884	0.0018735	0.001863
Endothall	0.1	mg/L	0.2216	0.2188				0.2216	0.2202	0.2188
Endrin	0.002	mg/L	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
Glyphosate	0.7	mg/L	0.0498	0.03916				0.0498	0.04448	0.03916
Heptachlor	0.00001	mg/L	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
Hexachlorobenzene	0.001	mg/L	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
lindane	0.0002	mg/L	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
Molinate	0.02	mg/L	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
Pentachlorophenol	0.001	mg/L	0.0019	0.00019				0.0019	0.001045	0.00019
Picloram	0.5	mg/L	0.0019	0.00019				0.0019	0.001045	0.00019
Polychlorinated Biphenyls	0.0005	mg/L	0.000089	0.000089				0.000089	0.000089	0.000089
Simazine	0.004	mg/L	0.0019	0.00019				0.0019	0.001045	0.00019
Thiobencarb	0.07	mg/L	0.0019	0.00019				0.0019	0.001045	0.00019
Toxaphene	0.003	mg/L	0.000089	0.000089				0.000089	0.000089	0.000089
2,3,7,8-TCDD (Dioxin)	3x10-a	mg/L	2.48	2.24				2.48	2.36	2.24
2,4,5-TP (Silvex)	0.05	mg/L	0.00019	0.00019				0.00019	0.00019	0.00019
A4 - Disinfection Byproducts										
Total Trihalomethanes (TTHM)	0.08	ppb	33.8	51.7				51.7	42.75	33.8
Bromodichloromethane			4.9	17.5				17.5	11.2	4.9
Bromoform			0.49	7.1				7.1	3.795	0.49
Chloroform			28.5	6.8				28.5	17.65	6.8
Dibromochloromethane			0.49	20.3				20.3	10.395	0.49
Haloacetic acid (five) (HAA5)	0.06	ppb	94.4	247				247	170.7	94.4
Monochloroacetic acid		ppb	70.3	219				219	144.65	70.3
Dichloroacetic acid		ppb	18.6	7.9				18.6	13.25	7.9

Toluene	0.15	mg/L	0.00049	0.00049					0.00049	0.00049
1,2,4-Trichlorobenzene	0.005	mg/L	0.00049	0.00049					0.00049	0.00049
1, 1, 1-Trichloroethane	0.2	mg/L	0.00049	0.00049					0.00049	0.00049
1, 1,2-Trichloroethane	0.005	mg/L	0.00049	0.00049					0.00049	0.00049
Trichloroethylene (TCE)	0.005	mg/L	0.00049	0.00049					0.00049	0.00049
Trichlorofluoromethane	0.15	mg/L	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
Vinyl Chloride	0.0005	mg/L	0.00049	0.00049					0.00049	0.00049
Xylene (m,p)	1.75	mg/L	0.00049	0.00049					0.00049	0.00049

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

Trichloroacetic acid		ppb	4.4	2.5				4.4	3.45	2.5
Monobromoacetic acid		ppb	0.9	4.3				4.3	2.6	0.9
Dibromoacetic acid		ppb	0.9	14.1				14.1	7.5	0.9
Bromate 121	0.01	ppb	4.9	4.9				4.9	4.9	4.9
Chlorite131	1	ppb	19.9	19.9				19.9	19.9	19.9

A5 - Secondary MCLs										
Aluminum	0.2	mg/L	0.017	0.023				0.023	0.02	0.017
Color	150	CU	31	21.2				31	26.1	21.2
Copper	1	mg/L	0.0014	0.0023				0.0023	0.00185	0.0014
Corrosivity (Langelier Index)	Non		-0.11	-0.04				-0.04	-0.075	-0.11
Foam Agents (MBAS)	0.5	mg/L	0.08	0.19				0.19	0.135	0.08
Iron	0.3	mg/L	0.019	0.000019				0.019	0.0095095	0.000019
Manganese	0.05	mg/L	0.0033	0.0007				0.0033	0.002	0.0007
Methyl-tert-butyl-ether (MTBE)	0.005	mg/L	0.01249	0.00049				0.01249	0.00649	0.00049
Odor - Threshold	3	T.O.N.	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
Thiobencarb	0.001	mg/L	0.00019	0.00019				0.00019	0.00019	0.00019
Zinc	5	mg/L	0.013	0.0088				0.013	0.0109	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
	QUARTER TOTAL		5,000					
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: 12-Apr-20 16:33
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0017-01) Collected: 01-Apr-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AD00130	1.8	01-Apr-20	03-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD00130	1.8	01-Apr-20	03-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD00229	0.1	01-Apr-20	01-Apr-20	**7.2 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD00144	0.05	01-Apr-20	01-Apr-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 4/12/2020
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.#: 2020017

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	04/01/20	1130	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.23/17.5°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 (IPC)	04/01/20	17:30
Received by		ALMAVIVA COURIER (PAT)	4/1/20	17:30
Relinquished by		ALMAVIVA COURIER (PAT)	4/1/20	14:20
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	4/1/20	1420

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

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
Grab
Comp

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

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

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

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

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

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

Attention: Ric Vardel
Report Date: 12-Apr-20 16:57
Subject: (MCC) Weekly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0034-01) Collected: 01-Apr-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AD00227	1	02-Apr-20	02-Apr-20	**1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AD00310	0.10	03-Apr-20	03-Apr-20	**<0.10 mg/l**	
Nitrate as N	EPA 353.2	AD00136	0.02	01-Apr-20	01-Apr-20	**0.28 mg/l**	
Nitrite as N	EPA 353.2	AD00136	0.02	01-Apr-20	01-Apr-20	**0.03 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AD00635	0.10	06-Apr-20	07-Apr-20	**0.67 mg/l**	
Total Nitrogen	[CALC]	[CALC]	0.140	06-Apr-20	07-Apr-20	**0.979 mg/l**	
EFF (Sample I.D.# : 20D0034-02) Collected: 31-Mar-20 By CA							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AD00232	2	02-Apr-20	07-Apr-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 4/12/2020
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.#: 20D0034

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: (Field) Lab
EFF	04/01/20	1130	1	TSS	Grab	AQ	1L P	4°C	7.26 / 17.9°C
"	"	"	1	Ammonia, TKN	Grab	AQ	500 P	4°C	
"	"	"	1	Nitrate, Nitrite	Grab	AQ	250 P	4°C	
"	03/31/20	0000	1	BOD	Comp	AQ	1L P	4°C	

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

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	04/01/20	12:30
Received by		Armando Olmos (Pat-Chem)	4/1/20	12:30
Relinquished by		Armando Olmos (Pat-Chem)	4/1/20	14:20
Received by				
Relinquished by				
Received in lab by		MARIO SANTESTEBAN (PCL)	4/2/20	1420

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

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

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

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

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

Attention: Ric Vardel
Report Date: 12-Apr-20 16:37
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0051-01) Collected: 02-Apr-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AD00228	1.8	02-Apr-20	04-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD00228	1.8	02-Apr-20	04-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD00315	0.1	02-Apr-20	02-Apr-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD00316	0.05	03-Apr-20	03-Apr-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 4/12/2020
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.#: 20D0051

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	04/02/20	1105	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.7 / 22.6 °C
1	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
APR 02 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Alvarez	Carlos Alvarez (IPC)	04/02/20	1107
Received by		Cindy Marrone	4/2/20	1107
Relinquished by		Cindy Marrone	4/2/20	1245
Received by				
Relinquished by				
Received by		APR 02 2020		

Sample Received Checklist

Temperature upon receipt: 4

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

Compliance Monitor

Initial Flow _____

Final Flow _____

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

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

Rev 2 Effective 5/1/17

Pat-Chem Laboratories (PCL) Terms and Conditions

1. Definitions

"Terms and Conditions" means these Terms and Conditions of sale, including the price schedule, and any additional 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 replaced 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 does 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 initiation of consulting services constitutes the client's express promise 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 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 of services provided by PCL to the client's property and information obtained by PCL shall be held in confidence unless such information is generally available to the public or is the public domain or shall be filed by you PCL for which such information is necessary or is a part of the agreement, subject to any disclosure required by law or court process. PCL shall also have the right to use client data for reporting to lead agency data and results of all responsible representatives, contractors, or clients where such disclosure is required of PCL reports and information provided to the client. All reports are and shall remain the property of PCL and may not be used by the client or any other person or entity for any purpose without the written consent of PCL.

10. Hold Harmless

Client hereby agrees to indemnify, defend and hold PCL, its employees, officers, directors, parent, affiliates, subsidiaries and owners harmless from any and all claims, liabilities, losses, damages, costs and expenses, including, but not limited to, attorneys' fees and costs, litigation expenses and experts arising from or in connection with third party as a result of, and/or in any way relating to, Client's use of, or reliance upon, any of the services provided by PCL pursuant to this agreement and/or investigation, handling or analysis of client's hazardous materials. If, during the course of, or as a result of, services provided by PCL, any hazardous materials are discovered, Client agrees to immediately notify PCL of such discovery. Client agrees to hold PCL harmless for any and all claims, liabilities, losses, damages, costs and expenses arising from or in connection with the discovery of such hazardous materials, whether such claims, liabilities, losses, damages, costs and expenses are asserted by Client or by any third party. This indemnity shall apply to any and all claims, liabilities, losses, damages, costs and expenses arising from or in connection with the sole or concurrent negligence, gross negligence or willful misconduct of PCL or its employees, officers, directors, agents, subcontractors, and/or consultants. Client agrees to hold PCL harmless in every manner possible for any claims, liabilities, losses, damages, costs and expenses arising from or in connection with any violation of any federal, state or local law, regulation or ordinance by Client, its employees, agents, subcontractors, and/or consultants. Client agrees to indemnify, defend and hold PCL harmless for any and all claims, liabilities, losses, damages, costs and expenses arising from or in connection with the performance of services under this agreement. This indemnity shall apply to any and all claims, liabilities, losses, damages, costs and expenses arising from or in connection with the sole or concurrent negligence, gross negligence or willful misconduct of Client, its employees, officers, directors, agents, subcontractors, and/or consultants. Client agrees to hold PCL harmless in every manner possible for any claims, liabilities, losses, damages, costs and expenses arising from or in connection with any violation of any federal, state or local law, regulation or ordinance by Client, its employees, agents, subcontractors, and/or consultants. Client agrees to indemnify, defend and hold PCL harmless for any and all claims, liabilities, losses, damages, costs and expenses arising from or in connection with the performance of services under this agreement. This indemnity shall apply to any and all claims, liabilities, losses, damages, costs and expenses arising from or in connection with the sole or concurrent negligence, gross negligence or willful misconduct of Client, its employees, officers, directors, agents, subcontractors, and/or consultants. Client agrees to hold PCL harmless in every manner possible for any claims, liabilities, losses, damages, costs and expenses arising from or in connection with any violation of any federal, state or local law, regulation or ordinance by Client, its employees, agents, subcontractors, and/or consultants. Client agrees to indemnify, defend and hold PCL harmless for any and all claims, liabilities, losses, damages, costs and expenses arising from or in connection with the performance of services under this agreement. This indemnity shall apply to any and all claims, liabilities, losses, damages, costs and expenses arising from or in connection with the sole or concurrent negligence, gross negligence or willful misconduct of PCL or its employees, officers, directors, agents, subcontractors, and/or consultants. Client agrees to hold PCL harmless in every manner possible for any claims, liabilities, losses, damages, costs and expenses arising from or in connection with any violation of any federal, state or local law, regulation or ordinance by PCL

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-Apr-20 16:40
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0088-01) Collected: 03-Apr-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AD00313	1.8	03-Apr-20	05-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD00313	1.8	03-Apr-20	05-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD00405	0.1	03-Apr-20	03-Apr-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD00407	0.05	04-Apr-20	04-Apr-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 4/12/2020
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.#: 2000088

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	04/03/20	1155	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
1	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
APR 03 2020

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (SBC)	4/3/20	1155
Received by		Jairo Mendivar	4/3/20	12:28PM
Relinquished by		Jairo Mendivar	4/3/20	2:00PM
Received by				
Relinquished by				
Received in Lab by		APR 03 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
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 addenda or amendments hereto which are agreed to in writing. "Client" means the individual or entity who may request laboratory services, consulting or servicing services and his or its heirs, successors, assigns and representatives. "Price Schedule" means Pat-Chem Laboratories (PCL) standard price schedule, or 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 services.

3. **Orders and Acceptance**

PCL offers and will accept Client's order for services (as defined below) only under the following Service 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 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 order (a "Client's Order") to PCL. Any such order constitutes Client's acceptance by the Client of PCL's offer to do business with the Client under the Terms and intends to enter into an agreement to be bound by these Terms and all addenda. The Client's delivery of samples to PCL or obtaining PCL's 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 be a part of the contract created upon acceptance of the terms and conditions.

For purposes of the 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 and knowledge in the profession. Where applicable, PCL will use analytical methodologies which are in substantial conformity with the U.S. Environmental Protection Agency (EPA), CA Waterboards (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 and/or was based on the reasonable judgment of PCL. Deviations, if any, will be made in a manner consistent with the recognized standards of the industry and/or PCL Standard Operating Procedures (SOP) and/or our QA/QC program. 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 provision 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 dates 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 PCL's receipt 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 or on behalf of Client's request and the results of analysis thereof shall be held in confidence by PCL, and PCL shall not disclose such data to any third party (other than employees, agents and subcontractors of PCL) without the prior written consent of Client. Client agrees that PCL may disclose Client's data and results of analysis to governmental agencies as required by law, regulation or court order. Client shall indemnify and hold PCL harmless from any claim, liability, damage, cost or expense (including reasonable attorneys' fees) arising out of or in connection with any claim by any third party (including employees, agents and subcontractors of Client) relating to the services performed by PCL hereunder or the data or results of analysis thereof, except to the extent that such claim, liability, damage, cost or expense is caused by the gross negligence or willful misconduct of PCL. In addition, Client agrees that PCL may use Client's name in a list of customers for which PCL performs services, provided that PCL does not disclose the nature of the services performed for Client.

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: 12-Apr-20 16:53
Subject: (MCC) Monthly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0090-01) Collected: 03-Apr-20 By CA							
Physical Properties							
Total Dissolved Solids	SM 2540C	AD00842	5	08-Apr-20	09-Apr-20	**1264 mg/l**	
Inorganic Constituents							
Chloride	EPA 300.0	AD00633	1.0	06-Apr-20	07-Apr-20	**299 mg/l**	
Sulfate as SO4	EPA 300.0	AD00633	0.5	06-Apr-20	07-Apr-20	**345 mg/l**	
Boron	EPA 200.7	AD00631	0.10	06-Apr-20	07-Apr-20	**0.47 mg/l**	
Phosphorus, Total as P	EPA 365.3	AD00634	0.20	06-Apr-20	06-Apr-20	**5.73 mg/l**	
Aggregate Organic Constituents							
MBAS	SM 5540 C	AD00411	0.20	04-Apr-20	04-Apr-20	**<0.20 mg/l**	
Oil & Grease (HEM)	EPA 1664A	AD00838	5	08-Apr-20	10-Apr-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 4/12/2020
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.#: 2000090

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Monthly	
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	04/03/20	11:15	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	

RECEIVED
APR 03 2020
By

Geotracker EDD:
Logcode: IPCI -
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarado (IPC)	04/03/20	11:05
Received by		Jairo Mendivar	4/3/20	12:20
Relinquished by		Jairo Mendivar	4/3/20	2:00
Received by				
Relinquished by				
Received by		APR 03 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
(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

"Terms and Conditions" means those Terms and Conditions of sale, including the price schedule, and any additions or amendments hereto which are agreed to in writing. "Client" means the individual or entity who may request laboratory services, consulting or sampling services and his or its heirs, successors, assigns and representatives. "Price Schedule" means Pat-Chem Laboratories (PCL) standard price schedule as such document may be amended or reissued from time to time by PCL.

2. Independent Contractor

PCL acts solely as an independent contractor in performing all services.

3. Orders and Acceptance

PCL offers and will accept orders for services (as defined herein) only under the following General Terms and Conditions (the "Terms"). These Terms shall not apply if PCL and the Client shall have executed a separate agreement in writing which does not incorporate the Terms. No modifications to the Terms shall be valid and binding unless in writing and signed by an authorized representative of the client and PCL.

The client may order services by submitting a written chain of custody (COC) to PCL. Any such order constitutes 1. an acceptance by the client of PCL's offer to do business with the client under the terms and condition and 2. an agreement to be bound by these terms and conditions. The Client's delivery of samples to PCL or initiation of consulting services constitutes the client's express assent to be governed by these terms and conditions. No contrary or additional terms and conditions expressed in a client's document shall be deemed to become a part of the contract created upon acceptance of the terms and conditions.

For purpose of this agreement, "services" shall mean all work to be performed for the client, including provision of all equipment and materials to be furnished by PCL.

4. Limit of Liability

PCL will perform the services in accordance with the normal standards of workmanship in the profession. Where applicable, PCL will use analytical methodologies which are in substantial conformity with the U.S. Environmental Protection Agency (EPA), CA Waterboard (ELAP), American Society for Testing and Materials (ASTM), Association of Official Analytical Chemists (AOAC), Standard Methods (SM) of the Examination of Water and Wastewater and/or other recognized methodologies. PCL reserves the right to deviate from these methodologies if necessary or appropriate due to the nature or compositions of the samples or otherwise based on the reasonable judgement of PCL. Deviations, if any, will be made on a basis consistent with the recognized standards of the industry and/or PCL Standard Operating Procedures (SOP) and/or our QA/QC policies. The total liability of PCL, its officers, agents, employees or successors to the client arising out of or in connection with the services to be provided herein, shall not exceed the invoiced amount for said services. Client's acceptance of a work order and /or proposal releases PCL from any liability in excess of the invoiced amount for the services notwithstanding any provisions to the contrary in any client purchase orders or contracts.

5. Clients Responsibility

Unless PCL personnel performs the sampling, the client shall be responsible for the condition which the samples are collected and for conditions in and about the sampling site and for advising PCL of the same and all information required to enable PCL to perform its services safely and efficiently.

6. Cancellation

Client may cancel any order for services hereunder subject to payment for all services rendered and out-of-pocket expenses incurred up to the date of cancellation in accordance with the Applicable Price Schedule.

7. Overriding Agreement

The parties agree that the Terms shall govern performance of Client's initial order and all subsequent orders for additional services, whether placed in writing or verbally, except to the extent the Terms are modified in writing and executed by an authorized representative of both parties.

8. Force Majeure

PCL shall not be responsible for delay or failure to perform the services pursuant to this agreement due to causes beyond its control.

9. Confidentiality

Data and the sample materials provided by client or at client's request and the results obtained by PCL shall be held in confidence unless such information is generally available to the public or is in the public domain or client has failed to pay PCL for all services rendered or is otherwise in breach of the agreement subject to any disclosure required by law or legal process. PCL shall use the same standard of care it uses in protecting its own confidential data and shall not be responsible for unauthorized disclosure of said data where such standard was observed. PCL reports and information provided therein are for the exclusive use and benefit of client and the client agrees there shall be no third party beneficiaries of the PCL 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 agrees to [illegible] 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 costs fees (for litigation, expenses and awards arising in favor of Client or any third party as a result of, relating to, in any way involving 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 use of property and or 3. for any actual loss of money [illegible]. This indemnity does not apply to any of the foregoing losses, costs, damages or injuries caused solely by the active negligence or willful misconduct of PCL or its employees. Further, this indemnity shall specifically apply to losses, claims, damages, and [illegible] of every kind and character arising out of or in connection with the negligence 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 have 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 profits or business interruption) [illegible] 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 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 analyses, client will be charged a sample disposal fee, per sample submitted, in accordance with our QA/QC policies and procedures.

12. Prices/Payments

Client shall pay PCL in accordance with PCL's applicable price schedule in effect in the area of operations on the date the services were rendered or with prices quoted and later confirmed in writing. The price schedule is subject to change at any time without notice. Payment in advance or when analysis is completed is required for all new clients or until a history of payment and/or credit approval has been established with PCL. For those clients with an established credit account, the terms for payment of charges are NET CASH within thirty (30) days from date of invoices. To the fullest extent permitted (if at all) by applicable law, any amount unpaid at the end of thirty (30) days is subject to interest at the 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 for such legal proceedings or to an attorney, the client shall pay reasonable costs and attorney's fees or agents' fees associated with such collection procedure or efforts.

13. Agreement Modification

Changes, modifications or amendments to the terms shall be effective only in writing and executed by an officer of PCL and by client's authorized representative, except that subsequent orders for additional services may be verbal or in writing.

14. No Third Party Beneficiaries: No Right of Reliance

PCL shall have no responsibility or liability for client's use of or reliance on data, information, or reports furnished by PCL. Client is securing services hereunder for his own account, and not as agent or broker, or in any other representative capacity for any other person or entity. It is agreed and acknowledged that there are no third party beneficiaries to this agreement, and that no third party may rely on such data, information or reports. Client represents, warrants, and agrees that said data, information and reports are not requested, or shall be used 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 security, the securing, amendment, renewal, or extension of any loan from any financial institution or other lender or the certification to or contracting with, directly or indirectly, any governmental agency or department.

15. Rush Analysis

Rush analyses are available for an additional charge and must be arranged in advanced. If, for any unforeseen reason, the rush turnaround time cannot be met, the normal price will apply.

16. Holding Times

PCL cannot be responsible for holding times that are exceeded because of samples that are delivered on weekends or after 3pm on weekdays without prior notification and acceptance. Standard holding times and storage conditions should be reviewed prior to any samples being received by PCL. A list of holding times can be provided to the client if requested. All analyses with holding times of 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, 2-7 days, samples must arrive at the lab within 24 hours before expiration to insure that the holding times can be met. Short Holding Times of 48 hours or less (bacteria is 8 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 detailed 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: 12-Apr-20 16:43
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0100-01) Collected: 04-Apr-20 By MA							
Microbiological							
Fecal Coliforms	SM 9221E	AD00404	1.8	04-Apr-20	06-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD00404	1.8	04-Apr-20	06-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD00834	0.1	04-Apr-20	04-Apr-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD00529	0.05	05-Apr-20	05-Apr-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 4/12/2020
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.#: 20D0100

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	4/4/20	9:50	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
APR 04 2020
By JC

	Signature	Print Name (Company)	Date	Time
Relinquished by		Mario Aguirre (IPC)	4/4/20	12:00
Received by		Alex Walkup Jr	4/4/20	12:00
Relinquished by		Alex Walkup Jr	4/4/20	13:10
Received by				
Relinquished by				
Received in lab by		Jordan C.	4/4/20	13:10

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 SO - Soil / Sludge OT - Other	HP - H_3PO_4 OH - NaOH ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
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.

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 thereto 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 revised from time to time by PCL.

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The Client may order services by submitting a written order of samples to PCL. Any such order constitutes an acceptance by the client of PCL's offer to do business with the Client under the Terms and conditions and Client 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 appearing in a client's documents shall be deemed to have come a part of the contract created upon acceptance of the terms and conditions.

For purpose of the Agreement, "services" shall mean all work to be performed for the Client, including provision of all equipment and materials to be furnished by PCL.

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PCL will perform the services in accordance with the normal standards of workmanship in the profession. Where applicable, PCL will use analytical methodology which are in substantial conformity with the U.S. Environmental Protection Agency (EPA), CA Water Board (ELAP), American Society for Testing and Materials (ASTM), Association of Official Analytical Chemists (AOAC), Standard Methods (SM) or the Examinations 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.

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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

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: 12-Apr-20 16:47
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0104-01) Collected: 05-Apr-20 By VA							
Microbiological							
Fecal Coliforms	SM 9221E	AD00528	1.8	05-Apr-20	07-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD00528	1.8	05-Apr-20	07-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD00834	0.1	05-Apr-20	05-Apr-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD00723	0.05	07-Apr-20	07-Apr-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 4/12/2020
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.#: 20D0104

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Daily	
Address: 9257 Research Drive Irvine CA 92618		**Sampled by:** VICTOR ARZKIAN **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	4/5/20	09:47	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°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 ARZKIAN (IPC)	4/5/20	09:47
Received by	RM PCL	4/5/20	1350
Relinquished by			
Received by			
Relinquished by			
Received in lab by	RM PCL	4/5/20	1602

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

Sample Received Checklist

Temperature upon receipt: 4 °C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

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

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

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

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

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

Attention: Ric Vardel
Report Date: 12-Apr-20 16:49
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0124-01) Collected: 06-Apr-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AD00632	1.8	06-Apr-20	08-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD00632	1.8	06-Apr-20	08-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD00834	0.1	06-Apr-20	06-Apr-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD00723	0.05	07-Apr-20	07-Apr-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 4/12/2020
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.#: 20D0124

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	04/06/20	1150	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.58 / 22.0°C
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
APR 06 2020
By

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

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (Calc)	04/06/20	17:10
Received by		Hernando Ortiz (Calc)	4/6/20	12:10
Relinquished by		Hernando Ortiz (Calc)	4/6/20	14:05
Received by				
Relinquished by				
Received in lab by		APR 06 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
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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PCL acts solely as an independent contractor in performing all services.

3. Orders and Acceptance

PCL offers and will accept orders for services (as defined herein) only under the following General Terms and Conditions (the "Terms"). These Terms shall not apply if PCL and the Client shall have executed a separate agreement in writing which does not incorporate the Terms. No modifications to the Terms shall be valid and binding unless in writing and signed by an authorized representative of the client and PCL.
The client may order services by submitting a written chain of custody (COC) to PCL. Any such order constitutes 1. an acceptance by the client of PCL's offer to do business with the client under the terms and condition and 2. an agreement to be bound by these terms and conditions. The Client's delivery of samples to PCL or initiation of consulting services constitutes the client's express assent to be governed by these terms and conditions. No contrary or additional terms and conditions expressed in a client's document shall be deemed to become a part of the contract created upon acceptance of the terms and conditions.
For purpose of this agreement, "services" shall mean all work to be performed for the client, including provision of all equipment and materials to be furnished by PCL.

4. Limit of Liability

PCL will perform the services in accordance with the normal standards of workmanship in the profession. Where applicable, PCL will use analytical methodologies which are in substantial conformity with the U.S. Environmental Protection Agency (EPA), CA Water Board (ELAP), American Society for Testing and Materials (ASTM), Association of Official Analytical Chemists (AOAC), Standard Methods (SM) of the Examination of Water and Wastewater and/or other recognized methodologies. PCL reserves the right to deviate from these methodologies if necessary or appropriate due to the nature or compositions of the samples or otherwise based on the reasonable judgement of PCL. Deviations, if any, will be made on a basis consistent with the recognized standards of the industry and/or PCL Standard Operating Procedures (SOP) and/or our QA/QC policies. The total liability of PCL, its officers, agents, employees or successors to the client arising out of or in connection with the services to be provided herein, shall not exceed the invoiced amount for said services. Client's acceptance of a work order and /or proposal releases PCL from any liability in excess of the invoiced amount for the services notwithstanding any provisions to the contrary in any client purchase orders or contracts.

5. Clients Responsibility

Unless PCL personnel performs the sampling, the client shall be responsible for the condition which the samples are collected and for conditions in and about the sampling site and for advising PCL of the same and all information required to enable PCL to perform its services safely and efficiently.

6. Cancellation

Client may cancel any order for services hereunder subject to payment for all services rendered and out-of-pocket expenses incurred up to the date of cancellation in accordance with the applicable Price Schedule.

7. Overriding Agreement

The parties agree that the Terms shall govern performance of Client's initial order and all subsequent orders for additional services, whether placed in writing or verbally, except to the extent the Terms are modified in writing and executed by an authorized representative of both parties.

8. Force Majeure

PCL shall not be responsible for delay or failure to perform the services pursuant to this agreement due to causes beyond its control.

9. Confidentiality

Data and the sample materials submitted 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 fails to pay PCL for all services rendered) and otherwise in breach of the agreement subject to any discovery [illegible] PCL shall use the same standard of care it uses in protecting its own confidential data and shall not be responsible for an inadvertent disclosure of such data where such standard was observed. PCL reports and information provided therein are for the exclusive use and benefit of client and PCL agrees there shall be no third party beneficiary of the reports, data or information. Client will not disclose to any third company [illegible] technical information, software [illegible] other than its own.

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, including but not limited to attorney fees, expert witness fees, litigation expenses and costs [illegible] in favor of client or any third party as a result of, and/or in any way relating to and/or 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 or character. This indemnity does not apply to any of the foregoing liability, costs, damages or expenses caused solely by the active negligence or willful misconduct of PCL or its employees. Further, this indemnity shall specifically apply to losses, claims, damages, actions of every kind and character arising out of or in connection with the negligence or the breach of contract by any indemnified person, whether active or alleged, in the performance of services under this agreement. The foregoing indemnity shall survive the termination of any liability [illegible] PCL and the [illegible] the extent necessary under applicable law. Client agrees that its indemnity obligation will be supported by available liability insurance coverage [illegible] under applicable law. In no event shall PCL be liable for indirect, 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, or expert witness fees)) [illegible] incurred by client or any other party or any litigation against or involving PCL or any indemnified persons in connection with this agreement or the services provided under this agreement [illegible] the prevailing party.

11. Hazardous Substances

In order 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 materials, 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 thereof (called the "Hazardous Materials"). Client understands and agrees that any hazardous material received by PCL from client or at client's request shall remain the property of Client and that upon completion of PCL's services, PCL will dispose of all unused portions of samples as specified by client or by PCL's QA/QC policies. In the event the client does not specify its preferred method of disposal, PCL will return to the client all unused samples which contain Hazardous Materials. PCL reserves the right to charge the client for the disposal of unused samples in accordance with PCL's current sample disposal policy. In addition, all samples received by PCL for any (all bacterial analysis), client will be charged a sample disposal fee per sample submitted, in accordance with our QA/QC policies and procedures.

12. Prices/Payments

Client shall pay PCL in accordance with PCL's applicable price schedule in effect in the area of operations on the date the services were rendered or with prices quoted and later confirmed in writing. The price schedule is subject to change at any time without notice. Payment in advance or when analysis is completed is required for all new clients until a history of payment and/or credit account has been established with PCL. For those clients with an established credit account, the terms for payment of charges are NET CASH within thirty (30) days from date of invoices. To the fullest extent permitted by all applicable law, any amount unpaid at 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 agent's fees associated with such collection procedures or efforts.

13. Agreement Modification

Changes, modifications or amendments to the terms shall be effective only in writing and executed by an officer of PCL and by client's authorized representative, except that subsequent orders for additional services may be verbal or in writing.

14. No Third Party Beneficiaries: No Right of Reliance

PCL shall have no responsibility or liability for client's use of or reliance on data, information, or reports furnished by PCL. Client is securing services hereunder for his own account, and not as agent or broker, or in any other representative capacity for any other person or entity. It is agreed and acknowledged that there are no third party beneficiaries to this agreement, and that no third party may rely on such data, information or reports. Client represents, warrants, and agrees that said data, information and reports are not requested, nor shall be used to relied upon, in connection with or as part of, the purchase, sale, underwriting, or distribution of any securities, any permits, or other reporting to the holders of any security, the securing, amendment, renewal, or extension of any loan from any financial institution or other lender or the certification to or contracting with, directly or indirectly, any governmental agency or department.

15. Rush Analysis

Rush analyses are available for an additional charge and must be arranged in advanced. If, for any unforeseen reason, the rush turnaround time cannot be met, the normal price will apply.

16. Holding Times

PCL cannot be responsible for holding times that are exceeded because of samples that are delivered on weekends or after 5pm 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 2-7 days, samples must arrive at the lab within 24 hours before expiration to insure that the holding times can be met. Short Holding Times of 48 hours or less (bacteria [illegible] 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 assessed 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: 30-Apr-20 22:43
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0156-01) Collected: 07-Apr-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AD00727	1.8	07-Apr-20	09-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD00727	1.8	07-Apr-20	09-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD00834	0.1	07-Apr-20	07-Apr-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD00835	0.05	08-Apr-20	08-Apr-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 4/30/2020
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.#: 20D0156

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: C.	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	04/07/20	1135	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.7 / 21.0 °C
1	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
APR 07 2020

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	C.	Carlos Alvarez (IPC)	04/07/20	11:40
Received by		Cindy Mayorga	4/7/20	11:40
Relinquished by		Cindy Mayorga (by FedEx)	04/7/20	2:40
Received by				
Relinquished by				
Received in lab by		APR 07 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.

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

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20D0214-01) Collected: 07-Apr-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AD00939	1	09-Apr-20	09-Apr-20	**130 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AD00942	2	09-Apr-20	14-Apr-20	**201 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 4/30/2020
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.#: 20D0214

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	04/07/20	0000	1	TSS	Comp	AQ	1L P	4°C	
1	1	(	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
APR 08 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarado (IPC)	04/08/20	1:00 pm
Received by		Jairo Medinaceli	4/8/20	1:00PM
Relinquished by		Jairo Medinaceli	4/8/20	15:00PM
Received by				
Relinquished by				
Received by		APR 08 2020		15:00

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
(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: 30-Apr-20 22:46
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0210-01) Collected: 08-Apr-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AD00833	1.8	08-Apr-20	10-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD00833	1.8	08-Apr-20	10-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD00937	0.1	08-Apr-20	08-Apr-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD00938	0.05	09-Apr-20	09-Apr-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 4/30/2020
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.#: 20D0210

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Daily	
Address: 9297 Research Drive Irvine CA 92618	**Sampled by:** C.	**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	04/08/20	1130	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
APR 08 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (PCL)	04/08/20	1:00pm
Received by		Jairo Meñivar	4-8-20	1:00PM
Relinquished by		Jairo Meñivar	4-8-20	15:00PM
Received by				
Relinquished by				
Received by		APR 08 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
(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: 30-Apr-20 13:11
Subject: (MCC) Weekly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0215-01) Collected: 08-Apr-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AD00939	1	09-Apr-20	09-Apr-20	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AD01015	0.10	10-Apr-20	10-Apr-20	**0.22 mg/l**	
Nitrate as N	EPA 353.2	AD00934	0.02	09-Apr-20	09-Apr-20	**1.88 mg/l**	
Nitrite as N	EPA 353.2	AD00934	0.02	09-Apr-20	09-Apr-20	**0.02 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AD01341	0.10	13-Apr-20	14-Apr-20	**0.51 mg/l**	
Total Nitrogen	[CALC]	[CALC]	0.140	13-Apr-20	14-Apr-20	**2.41 mg/l**	
EFF (Sample I.D.# : 20D0215-02) Collected: 07-Apr-20 By CA							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AD00942	2	09-Apr-20	14-Apr-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 4/30/2020
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.#: 20D0215

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) EFF - Weekly	
Address: 9297 Research Drive		**Sampled by:** C. [illegible]	**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	04/08/20	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	
"	04/07/20	0000	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
APR 08 2020
By [illegible]

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	[illegible]	Carlos Alvarez (IPC)	04/08/20	11:30
Received by	[illegible]	Jairo Menjivar	4/8/20	1:00PM
Relinquished by	[illegible]	Jairo Menjivar	4/8/20	15:00PM
Received by				
Relinquished by				
Received by	[illegible]	APR 08 2020		15:00

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
(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-Apr-20 22:48
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0254-01) Collected: 09-Apr-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AD00936	1.8	09-Apr-20	11-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD00936	1.8	09-Apr-20	11-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD01017	0.1	09-Apr-20	09-Apr-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD01020	0.05	10-Apr-20	10-Apr-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 4/30/2020
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.#: 2000254

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	04/09/20	1150	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.05/8.62
1	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
APR 09 2020
BY

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	04/09/20	11:15
Received by		Alejandro Arias (BTEL)	4/9/20	12:15
Relinquished by		Alejandro Arias (BTEL)	4/9/20	15:00
Received by				
Relinquished by				
Received by		APR 09 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
(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-Apr-20 22:50
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0315-01) Collected: 10-Apr-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AD01016	1.8	10-Apr-20	12-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD01016	1.8	10-Apr-20	12-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD01107	0.1	10-Apr-20	10-Apr-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD01106	0.05	11-Apr-20	11-Apr-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 4/30/2020
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.#: 20D0315

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	04/10/20	1055	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
APR 10 2020
By

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Arroyo (Lab)	04/10/20	1225
Received by			4.10.20	1225
Relinquished by			4/10/20	1330
Received by				
Relinquished by				
Received by		APR 10 2020		1330

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
(Grab)
(Comp)

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

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

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

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

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QUALITY ANALYTICAL SERVICES SINCE 1987
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pat-chem.com

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

Attention: Ric Vardel
Report Date: 30-Apr-20 22:53
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0343-01) Collected: 11-Apr-20 By MA							
Microbiological							
Fecal Coliforms	SM 9221E	AD01105	1.8	11-Apr-20	13-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD01105	1.8	11-Apr-20	13-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD01111	0.1	11-Apr-20	11-Apr-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD01112	0.05	11-Apr-20	11-Apr-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 4/30/2020
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.#: 2008343

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 #: 949-382-9067	

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	4/11/20	9:45	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		Mario Aguirre (IPC)	4/11/20	~~1545~~ M.A. 1000
Received by		Alex Walker Jr (PCL)	4/11/20	1000
Relinquished by		Alex Walker Jr	4/11/20	12:30
Received by				
Relinquished by				
Received in lab by		Jordan Corkery	4/11/20	1230

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: 30-Apr-20 22:55
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0352-01) Collected: 12-Apr-20 By VA							
Microbiological							
Fecal Coliforms	SM 9221E	AD01230	1.8	12-Apr-20	14-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD01230	1.8	12-Apr-20	14-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD01535	0.1	12-Apr-20	12-Apr-20	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD01342	0.05	13-Apr-20	13-Apr-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 4/30/2020
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.#: 20D0352

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	4/12/20	09:51	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
	4/12/20	1425							
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by	VICTOR ARIKIAN (IPC)	4/12/20	09:51
Received by	RM PCL	4/12/20	1425
Relinquished by			
Received by			
Relinquished by			
Received in lab by	RM PCL	4/12/20	1616

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

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

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

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
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: 30-Apr-20 22:58
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0371-01) Collected: 13-Apr-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AD01340	1.8	13-Apr-20	15-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD01340	1.8	13-Apr-20	15-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD01535	0.1	13-Apr-20	13-Apr-20	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD01342	0.05	13-Apr-20	13-Apr-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 4/30/2020
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.#: 2000371

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	04/13/20	1140	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.91 / 20.1C
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
APR 13 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (CAFC)	04/13/20	12:30
Received by		Fernando Cruz (Pat-Chem)	4/13/20	12:30
Relinquished by		Fernando Cruz (Pat-Chem)	4/13/20	15:00
Received by				
Relinquished by				
Received by		APR 13 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
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
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pat-chem.com

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

Attention: Ric Vardel
Report Date: 06-Jul-20 17:23
Subject: (MCC) Quarterly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0374-01) Collected: 13-Apr-20 By CA							
Physical Properties							
Total Alkalinity	SM 2320B	AD01641	1	16-Apr-20	16-Apr-20	**210 mg/l**	
Carbonate Alkalinity	SM 2320B	AD01641	1	16-Apr-20	16-Apr-20	**<1 mg/l**	
Bicarbonate Alkalinity	SM 2320B	AD01641	1	16-Apr-20	16-Apr-20	**210 mg/l**	
Hydroxide Alkalinity	SM 2320B	AD01641	1	16-Apr-20	16-Apr-20	**<1 mg/l**	
Color	SM 2120 C	AD01427	5.0	14-Apr-20	14-Apr-20	**21.2 CU**	
Specific Conductance (EC)	SM 2510B	AD01549	0.1	15-Apr-20	16-Apr-20	**2060 uS/cm**	
Odor	SM 2150B	AD01536	1	15-Apr-20	15-Apr-20	**<1 T.O.N.**	
Inorganic Constituents							
Silver	EPA 200.8	AD01423	0.2	14-Apr-20	15-Apr-20	**<0.2 ug/l**	
Aluminum	EPA 200.8	AD01423	5.0	14-Apr-20	15-Apr-20	**23 ug/l**	
Fluoride	EPA 300.0	AD01344	0.10	14-Apr-20	15-Apr-20	**1.02 mg/l**	
Arsenic	EPA 200.8	AD01423	0.2	14-Apr-20	15-Apr-20	**2.2 ug/l**	
Barium	EPA 200.8	AD01423	0.5	14-Apr-20	15-Apr-20	**12 ug/l**	
Beryllium	EPA 200.8	AD01423	0.2	14-Apr-20	15-Apr-20	**<0.2 ug/l**	
Calcium	EPA 200.7	AD01422	0.05	14-Apr-20	20-Apr-20	**97.1 mg/l**	
Cadmium	EPA 200.8	AD01423	0.2	14-Apr-20	15-Apr-20	**<0.2 ug/l**	
Chromium	EPA 200.8	AD01423	0.2	14-Apr-20	15-Apr-20	**2.5 ug/l**	
Copper	EPA 200.8	AD01423	0.2	14-Apr-20	15-Apr-20	**2.3 ug/l**	
Cyanide (total)	SM 4500-CN-E	AD01634	0.0050	16-Apr-20	20-Apr-20	**<0.0050 mg/l**	
Iron	EPA 200.7	AD01422	0.02	14-Apr-20	16-Apr-20	**<0.02 mg/l**	
Mercury	EPA 245.1	AD01525	0.20	16-Apr-20	16-Apr-20	**<0.20 ug/l**	
Manganese	EPA 200.8	AD01423	0.5	14-Apr-20	15-Apr-20	**0.7 ug/l**	
Nickel	EPA 200.8	AD01423	0.5	14-Apr-20	15-Apr-20	**3.5 ug/l**	
Lead	EPA 200.8	AD01423	0.2	14-Apr-20	15-Apr-20	**<0.2 ug/l**	
pH	SM 4500H-B	AD01535	0.1	13-Apr-20	13-Apr-20	**7.8 pH Units**	A-01
Antimony	EPA 200.8	AD01423	1.0	14-Apr-20	15-Apr-20	**<1.0 ug/l**	

Respectfully Submitted,

Steve Jefferson 7/6/2020
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: 06-Jul-20 17:23
Subject: (MCC) Quarterly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0374-01) Collected: 13-Apr-20 By CA							
Inorganic Constituents							
Selenium	EPA 200.8	AD01423	2.0	14-Apr-20	15-Apr-20	**8.5 ug/l**	
Thallium	EPA 200.8	AD01423	1.0	14-Apr-20	15-Apr-20	**<1.0 ug/l**	
Uranium	EPA 200.8	AD01423	0.7	14-Apr-20	15-Apr-20	**7.2 pCi/L**	
Zinc	EPA 200.8	AD01423	1.0	14-Apr-20	15-Apr-20	**8.8 ug/l**	
Aggregate Organic Constituents							
MBAS	SM 5540 C	AD01428	0.20	14-Apr-20	14-Apr-20	**<0.20 mg/l**	
Volatile Organic Chemicals (VOCs)							
Benzene	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
Carbon tetrachloride	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
1,2-Dichlorobenzene	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
1,4-Dichlorobenzene	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
1,1-Dichloroethane	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
1,2-Dichloroethane	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
1,1-Dichloroethylene	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
cis-1,2-Dichloroethylene	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
trans-1,2-Dichloroethylene	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
Methylene chloride (Dichloromethane)	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
1,2-Dichloropropane	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
cis-1,3-Dichloropropene	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
trans-1,3-Dichloropropene	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
Ethylbenzene	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
Methyl tert-butyl ether	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
Chlorobenzene	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
Styrene	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
1,1,2,2-Tetrachloroethane	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
Tetrachloroethylene	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	

Respectfully Submitted,

Steve Jefferson 7/6/2020
Laboratory Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
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: 06-Jul-20 17:23
Subject: (MCC) Quarterly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0374-01) Collected: 13-Apr-20 By CA							
Volatile Organic Chemicals (VOCs)							
Toluene	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
1,2,4-Trichlorobenzene	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
1,1,1-Trichloroethane	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
1,1,2-Trichloroethane	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
Trichloroethylene	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
Trichlorofluoromethane (Freon 11)	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
Vinyl chloride	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
m,p-Xylene	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
o-Xylene	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**<0.5 ug/l**	
Bromodichloromethane	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**17.5 ug/l**	
Bromoform	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**7.1 ug/l**	
Chloroform	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**6.8 ug/l**	
Dibromochloromethane	EPA 524.2	AD02728	0.5	27-Apr-20	27-Apr-20	**20.3 ug/l**	
Surrogate: Bromofluorobenzene	EPA 524.2	AD02728		27-Apr-20	27-Apr-20	*95.3 % (80-120)*	
Surrogate: Dibromofluoromethane	EPA 524.2	AD02728		27-Apr-20	27-Apr-20	*109 % (80-120)*	
Surrogate: Toluene-d8	EPA 524.2	AD02728		27-Apr-20	27-Apr-20	*103 % (80-120)*	
Disinfection Byproducts							
Monochloroacetic Acid	EPA 552.2	AD02727	10.0	27-Apr-20	30-Apr-20	**219 ug/l**	
Dichloroacetic Acid	EPA 552.2	AD02727	1.0	27-Apr-20	29-Apr-20	**7.9 ug/l**	
Trichloroacetic Acid	EPA 552.2	AD02727	1.0	27-Apr-20	29-Apr-20	**2.5 ug/l**	
Monobromoacetic Acid	EPA 552.2	AD02727	1.0	27-Apr-20	29-Apr-20	**4.3 ug/l**	
Dibromoacetic Acid	EPA 552.2	AD02727	1.0	27-Apr-20	29-Apr-20	**14.1 ug/l**	
Surrogate: 2,3-Dibromopropionic Acid	EPA 552.2	AD02727		27-Apr-20	29-Apr-20	*121 % (60-140)*	
Bromate	EPA 300.0	AD02238	5.0	22-Apr-20	22-Apr-20	**<5.0 ug/l**	
Chlorite	EPA 300.0	AD02238	20.0	22-Apr-20	22-Apr-20	**<20.0 ug/l**	
Haloacetic Acids (HAA5)	[CALC]	[CALC]	14.0	27-Apr-20	30-Apr-20	**247 ug/l**	

Respectfully Submitted,

Steve Jefferson 7/6/2020
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: 06-Jul-20 17:23
Subject: (MCC) Quarterly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0374-01) Collected: 13-Apr-20 By CA							
Disinfection Byproducts							
Total Trihalomethanes	[CALC]	[CALC]	2.00	27-Apr-20	27-Apr-20	**51.7 ug/l**	
Synthetic Organic Chemicals (SOCs)							
1,2-Dibromo-3-Chloropropane (DBCP)	EPA 504.1	AD02719	0.01	27-Apr-20	27-Apr-20	**<0.01 ug/l**	
Ethylene Dibromide (EDB)	EPA 504.1	AD02719	0.02	27-Apr-20	27-Apr-20	**<0.02 ug/l**	
Di(2-ethylhexyl)adipate	EPA 506	AD01529	2.0	15-Apr-20	21-Apr-20	**<2.0 ug/l**	
Di(2-ethylhexyl)phthalate	EPA 506	AD01529	2.0	15-Apr-20	21-Apr-20	**<2.0 ug/l**	
Surrogate: o-Terphenyl	EPA 506	AD01529		15-Apr-20	21-Apr-20	*84.0 % (50-120)*	
Alachlor	EPA 507	AD01708	0.2	17-Apr-20	25-Apr-20	**<0.2 ug/l**	
Atrazine	EPA 507	AD01708	0.2	17-Apr-20	25-Apr-20	**<0.2 ug/l**	
Molinate	EPA 507	AD01708	0.2	17-Apr-20	25-Apr-20	**<0.2 ug/l**	
Simazine	EPA 507	AD01708	0.2	17-Apr-20	25-Apr-20	**<0.2 ug/l**	
Thiobencarb (Bolero)	EPA 507	AD01708	0.2	17-Apr-20	25-Apr-20	**<0.2 ug/l**	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 507	AD01708		17-Apr-20	25-Apr-20	*75.8 % (40-120)*	
Chlordane	EPA 508	AD01709	0.1	17-Apr-20	12-May-20	**<0.1 ug/l**	
Endrin	EPA 508	AD01709	0.01	17-Apr-20	12-May-20	**<0.01 ug/l**	
Heptachlor	EPA 508	AD01709	0.01	17-Apr-20	12-May-20	**<0.01 ug/l**	
Heptachlor Epoxide	EPA 508	AD01709	0.01	17-Apr-20	12-May-20	**<0.01 ug/l**	
Hexachlorobenzene	EPA 508	AD01709	0.01	17-Apr-20	12-May-20	**<0.01 ug/l**	
Hexachlorocyclopentadiene	EPA 508	AD01709	0.01	17-Apr-20	12-May-20	**<0.01 ug/l**	
gamma-BHC (Lindane)	EPA 508	AD01709	0.01	17-Apr-20	12-May-20	**<0.01 ug/l**	
Methoxychlor	EPA 508	AD01709	0.05	17-Apr-20	12-May-20	**<0.05 ug/l**	
Aroclor 1016 (PCB)	EPA 508	AD01709	0.1	17-Apr-20	12-May-20	**<0.1 ug/l**	
Aroclor 1221 (PCB)	EPA 508	AD01709	0.1	17-Apr-20	12-May-20	**<0.1 ug/l**	
Aroclor 1232 (PCB)	EPA 508	AD01709	0.1	17-Apr-20	12-May-20	**<0.1 ug/l**	
Aroclor 1242 (PCB)	EPA 508	AD01709	0.1	17-Apr-20	12-May-20	**<0.1 ug/l**	
Aroclor 1248 (PCB)	EPA 508	AD01709	0.1	17-Apr-20	12-May-20	**<0.1 ug/l**	

Respectfully Submitted,

Steve Jefferson 7/6/2020
Laboratory Director

PAT-CHEM LABORATORIES
QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
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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: 06-Jul-20 17:23
Subject: (MCC) Quarterly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0374-01) Collected: 13-Apr-20 By CA							
Synthetic Organic Chemicals (SOCs)							
Aroclor 1254 (PCB)	EPA 508	AD01709	0.1	17-Apr-20	12-May-20	**<0.1 ug/l**	
Aroclor 1260 (PCB)	EPA 508	AD01709	0.1	17-Apr-20	12-May-20	**<0.1 ug/l**	
Total PCBs	EPA 508	AD01709	0.1	17-Apr-20	12-May-20	**<0.1 ug/l**	
Toxaphene	EPA 508	AD01709	0.1	17-Apr-20	12-May-20	**<0.1 ug/l**	
Surrogate: Tetrachloro-m-xylene	EPA 508	AD01709		17-Apr-20	12-May-20	*65.5 % (50-120)*	
Surrogate: Decachlorobiphenyl	EPA 508	AD01709		17-Apr-20	12-May-20	*49.0 % (50-120)*	
Bentazon	EPA 515.1	AD02122	0.2	21-Apr-20	14-May-20	**<0.2 ug/l**	
2,4-D	EPA 515.1	AD02122	0.2	21-Apr-20	14-May-20	**<0.2 ug/l**	
Dalapon	EPA 515.1	AD02122	2.0	21-Apr-20	14-May-20	**<2.0 ug/l**	
Dinoseb	EPA 515.1	AD02122	0.2	21-Apr-20	14-May-20	**<0.2 ug/l**	
Pentachlorophenol (PCP)	EPA 515.1	AD02122	0.2	21-Apr-20	14-May-20	**<0.2 ug/l**	
Picloram	EPA 515.1	AD02122	0.2	21-Apr-20	14-May-20	**<0.2 ug/l**	
2,4,5-TP	EPA 515.1	AD02122	0.2	21-Apr-20	14-May-20	**<0.2 ug/l**	
Surrogate: 2,4-DCAA	EPA 515.1	AD02122		21-Apr-20	14-May-20	*62.2 % (60-140)*	
Benzo (a) pyrene	EPA 550	AD01530	0.05	15-Apr-20	11-May-20	**<0.05 ug/l**	
Surrogate: Decafluorobiphenyl	EPA 550	AD01530		15-Apr-20	11-May-20	*76.3 % (45-120)*	
Carbofuran	EPA 632	AD01421	1.0	14-Apr-20	15-May-20	**<1.0 ug/l**	
Oxamyl	EPA 632	AD01421	2.0	14-Apr-20	15-May-20	**<2.0 ug/l**	
Surrogate: Atrazine	EPA 632	AD01421		14-Apr-20	15-May-20	*137 % (60-140)*	

Respectfully Submitted,

Steve Jefferson 7/6/2020
Laboratory Director

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
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Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 06-Jul-20 17:23
Subject: (MCC) Quarterly EFF

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

Notes and Definitions

A-01 Langelier Index = -0.04 (Non-Corrosive)

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

Respectfully Submitted,

Steve Jefferson 7/6/2020
Laboratory Director

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

April 28, 2020 Ceres ID: 13494

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

The following report contains the results for the one aqueous sample received on April 22, 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 # 20D0374.

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
13494-001	IPC [MCC] EFF-Quarterly 20D0374-01	4/22/2020	4/13/2020	11:40

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 #:** 2168	**Date Received:** NA
	Matrix: Aqueous	**Date Extracted:** 4/26/2020
		ZB-5MS Analysis: 4/27/2020
Project ID: 20D0374	**Sample Size:** 1.000 L	

Analyte	Conc. (pg/L)	MDL	RL	Qual.	Labeled Standards	% R	LCL-UCL (a)	Qualifiers
2,3,7,8-TCDD	DL= 2.24	0.772	5.00		13C-2378-TCDD	71.6	31-137	
					CRS			
					37Cl4-2378-TCDD	68.3	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 #: 2168	**Date Extracted:** 4/26/2020
	Matrix: Aqueous	**ZB-5MS Analysis:** 4/27/2020
Project ID: 20D0374	**Sample Size:** 1.000 L	

Analyte	Conc. (ng/mL)	Limits (a)	Labeled Standards	% Rec.	Limits (a)
2,3,7,8-TCDD	9.11	7.3-14.6	13C-2378-TCDD	83.1	25-141
			CRS		
			37Cl4-2378-TCDD	81.4	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 20D0374-01		
Project ID: 20D0374	**Ceres Sample ID:** 13494-001	**Date Received:** 4/22/2020
	QC Batch #: 2168	**Date Extracted:** 4/26/2020
Date Collected: 4/13/2020	**Matrix:** Aqueous	**ZB-5MS Analysis:** 4/27/2020
Time Collected: 11:40	**Sample Size:** 0.951 L	

Analyte	Conc. (pg/L)	MDL	RL	Qual.	Labeled Standards	% R	LCL-UCL (a)	Qualifiers
2,3,7,8-TCDD	DL= 1.68	0.772	5.26		13C-2378-TCDD	73.7	31-137	
					CRS			
					37Cl4-2378-TCDD	73.6	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

20D0374

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: 20D0374-01 **Water**	**Sampled: 13-Apr-20 11:40**			**IPC [MCC] EFF-Quarterly**
Dioxin 2,3,7,8-TCDD 1613	27-Apr-20 12:00	20-Apr-20 11:40		
Containers Supplied:				

Released By	Date	Received By	Date
[signature]	4/17/20 15:00pm	[signature]	4/22/20 11:04
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: 322010350
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: 06/09/2020
Analyzed: 06/18/2020

Proj: 20D0374

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)		
20D0374-02 322010350-0001	6/9/2020 04:10 PM	30	1288	0.2176	≥ 0.5 µm	None Detected	ND	0.20	<0.20	0.00 - 0.73
					> 10 µm only	None Detected	ND	0.20	<0.20	0.00 - 0.73

Collection Date/Time: *06/09/2020 11:20 AM*

Analyst(s)
Kyeong Corbin (1)

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

Any questions please contact Jerry Drapala.

Initial report from: 06/18/2020 14:26:57

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

SUBCONTRACT ORDER

Pat-Chem Laboratories

20D0374

#322010350

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: 20D0374-02 **Water**	**Sampled: 09-Jun-20 11:20**			**IPC [MCC] EFF-Quarterly**
Asbestos Water	27-Apr-20 12:00	06-Dec-20 11:20		
Containers Supplied:				

Released By	Date	Received By	Date
		mckissack (PB)	06/09/2020 1515
Released By	Date	Received By	Date

May 04, 2020

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

Attn: Stephen Berensten

RE: 20D0374

Order No.: 2004378
Invoice No.: 152403
PO No.:
ELAP No.1247-Expires July 2020

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	20D0374-01
01B	20D0374-01
01C	20D0374-01

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

Flag = Explanation in Case Narrative

All solid results are expressed on a wet-weight basis unless otherwise noted.

Approved for release by:

Roxanne Moore, Project Manager

Date: 06-May-2020
WorkOrder: 2004378

CASE NARRATIVE

The sample was received outside the EPA recommended temperature of less than or equal to 6° C.

The sample was received and analyzed past the holding time as per client request.

EPA 547:
The laboratory control sample duplicate (LCSD) recovery was below the lower acceptance limit for glyphosate. The response of the reporting limit standard was such that the analyte would have been detected even with the low recovery; therefore, the data were accepted.

EPA 549.2:
Diquat strongly adsorbs to soil particles that are suspended in water. The strong chemical bonds make the herbicide chemically inactive. When bound with soil particles, the extraction procedure for method EPA 549.2 is ineffective at isolating the bound diquat. Any reported diquat represents the dissolved analyte in the water that has not been bound to the soil particles.

Date: 04-May-2020
WorkOrder: 2004378

ANALYTICAL REPORT

Client Sample ID: 20D0374-01
Lab ID: 2004378-01A
Received: 4/23/2020
Collected: 4/23/2020 11:40

Test Name: EPA 549.2 **Reference:** EPA 549.2

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Diquat (dissolved)	ND		0.40	µg/L	1.0	4/24/2020	5/3/2020

Client Sample ID: 20D0374-01
Lab ID: 2004378-01B
Received: 4/23/2020
Collected: 4/23/2020 11:40

Test Name: Endothall **Reference:** EPA 548.1

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Endothall	ND		45	µg/L	1.0	4/23/2020	4/28/2020

Client Sample ID: 20D0374-01
Lab ID: 2004378-01C
Received: 4/23/2020
Collected: 4/23/2020 11:40

Test Name: Glyphosate **Reference:** EPA 547

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Glyphosate	ND		5.0	µg/L	1.0	4/30/2020	4/30/2020

North Coast Laboratories, Ltd.

Date: 5/4/2020

CLIENT: Pat-Chem Laboratories
Work Order: 2004378
Project: 20D0374

QC SUMMARY REPORT

Method Blank

Sample ID **MB-043020** Batch ID: **R103219** Test Code: **547W** Units: **µg/L** Analysis Date **4/30/2020 4:13:24 PM** Prep Date **4/30/2020**
Client ID: Run ID: **ORLC9_200430A** SeqNo: **1471257**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Glyphosate	ND	5.0									

Sample ID **MB-38547** Batch ID: **38547** Test Code: **548W** Units: **µg/L** Analysis Date **4/28/2020 5:01:47 PM** Prep Date **4/23/2020**
Client ID: Run ID: **ORGC14_200428A** SeqNo: **1470762**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Endothall	ND	45									

Sample ID **MB-38549** Batch ID: **38549** Test Code: **549W** Units: **µg/L** Analysis Date **5/3/2020 1:52:25 PM** Prep Date **4/24/2020**
Client ID: Run ID: **ORLC8_200503A** SeqNo: **1471319**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diquat (dissolved)	ND	0.40									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 5/4/2020

CLIENT: Pat-Chem Laboratories
Work Order: 2004378
Project: 20D0374

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-043020** Batch ID: **R103219** Test Code: **547W** Units: **µg/L** Analysis Date **4/30/2020 4:56:55 PM** Prep Date **4/30/2020**
Client ID: Run ID: **ORLC9_200430A** SeqNo: **1471259**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Glyphosate	41.89	5.0	50.0	0	83.8%	80	118	0			

Sample ID **LCSD-043020** Batch ID: **R103219** Test Code: **547W** Units: **µg/L** Analysis Date **4/30/2020 5:18:40 PM** Prep Date **4/30/2020**
Client ID: Run ID: **ORLC9_200430A** SeqNo: **1471260**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Glyphosate	39.16	5.0	50.0	0	78.3%	80	118	41.9	6.74%	30	S

Sample ID **LCS-38547** Batch ID: **38547** Test Code: **548W** Units: **µg/L** Analysis Date **4/28/2020 5:28:35 PM** Prep Date **4/23/2020**
Client ID: Run ID: **ORGC14_200428A** SeqNo: **1470763**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Endothall	211.4	45	225	0	94.0%	61	114	0			

Sample ID **LCSD-38547** Batch ID: **38547** Test Code: **548W** Units: **µg/L** Analysis Date **4/28/2020 5:55:03 PM** Prep Date **4/23/2020**
Client ID: Run ID: **ORGC14_200428A** SeqNo: **1470764**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Endothall	218.8	45	225	0	97.2%	61	114	211	3.41%	30	

Sample ID **LCS-38549** Batch ID: **38549** Test Code: **549W** Units: **µg/L** Analysis Date **5/3/2020 2:13:50 PM** Prep Date **4/24/2020**
Client ID: Run ID: **ORLC8_200503A** SeqNo: **1471321**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diquat (dissolved)	1.863	0.40	2.00	0	93.2%	70	130	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Pat-Chem Laboratories
Work Order: 2004378
Project: 20D0374

QC SUMMARY REPORT
Laboratory Control Spike Duplicate

Sample ID **LCSD-38549** Batch ID: **38549** Test Code: **549W** Units: **µg/L** Analysis Date **5/3/2020 2:24:34 PM** Prep Date **4/24/2020**
Client ID: Run ID: **ORLC8_200503A** SeqNo: **1471322**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diquat (dissolved)	1.772	0.40	2.00	0	88.6%	70	130	1.86	5.01%	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

July 2, 2020

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

Lab ID : SP 2007686
Customer : 2-12670

Laboratory Report

Introduction: This report package contains total of 7 pages divided into 3 sections:

Case Narrative	(2 pages)	: An overview of the work performed at FGL.
Sample Results	(2 pages)	: Results for each sample submitted.
Quality Control	(3 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
20D0374-02	06/09/2020	06/10/2020	SP 2007686-001	W

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:

Radio QC

900.0	06/22/2020:209781 All analysis quality controls are within established criteria.
	06/26/2020:210085 All analysis quality controls are within established criteria.
	06/12/2020:206700 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573), except: The following note applies to Gross Alpha, Gross Beta: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
903.0	07/01/2020:210361 All analysis quality controls are within established criteria.
	06/18/2020:207020 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573).
905.0	06/18/2020:209724 All analysis quality controls are within established criteria.
	06/13/2020:206759 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573).

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

July 2, 2020 Lab ID : SP 2007686
Pat-Chem Laboratories Customer : 2-12670

Radio QC

906.0	06/29/2020:210209 All analysis quality controls are within established criteria.
	06/26/2020:207344 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573).
Ra - 05	06/27/2020:210304 All analysis quality controls are within established criteria.
	06/25/2020:206760 All preparation quality controls are within established criteria (performed at FGL-SP ELAP# 1573).

Inorganic - Wet Chemistry QC

314.0	06/11/2020:209152 All analysis quality controls are within established criteria.
	06/10/2020:206670 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:DMB

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2020-07-02

July 2, 2020

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

Description : 20D0374-02
Project : 20D0374

Lab ID : SP 2007686-001
Customer ID : 2-12670

Sampled On : June 9, 2020-11:20
Sampled By : Not Available
Received On : June 10, 2020-15:35
Matrix : 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	06/10/20:206670	314.0	06/11/20:209152

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

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July 2, 2020

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

Description : 20D0374-02
Project : 20D0374

Lab ID : SP 2007686-001
Customer ID : 2-12670

Sampled On : June 9, 2020-11:20
Sampled By : Not Available
Received On : June 10, 2020-15:35
Matrix : 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	3.53 ± 1.36	1.35	pCi/L	15/5	900.0	06/12/20-09:30 2P2006700	900.0	06/22/20-14:06 2A2009781
Gross Beta	2.90 ± 0.679	0.639	pCi/L	50	900.0	06/12/20-09:30 2P2006700	900.0	06/26/20-13:26 2A2010085
Strontium 90	0.000 ± 0.320	0.546	pCi/L	8	905.0	06/13/20-08:30 2P2006759	905.0	06/18/20-12:20 2A2009724
Total Alpha Radium (226)	0.303 ± 0.174	0.362	pCi/L	3	903.0	06/18/20-18:00 2P2007020	903.0	07/01/20-13:42 2A2010361
Tritium	125 ± 263	434	pCi/L	20000	906.0	06/26/20-07:30 2P2007344	906.0	06/29/20-15:19 2A2010209
Ra 228	0.000 ± 0.771	0.505	pCi/L	2	Ra - 05	06/25/20-17:40 2P2006760	Ra - 05	06/27/20-10:30 2A2010304

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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July 2, 2020 Lab ID : SP 2007686
Pat-Chem Laboratories Customer : 2-12670

Quality Control - Radio

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Radio								
Alpha	900.0	06/22/20:209781JCA	CCV	cpm	7977	39.7 %	35-47	
			CCB	cpm		0.100	0.14	
Beta	900.0	06/26/20:210085JCA	CCV	cpm	7631	93.8 %	83-94	
			CCB	cpm		0.3800	0.48	
Gross Alpha	900.0	06/12/20:206700jca	Blank	pCi/L		0.41	3	
			LCS	pCi/L	155.2	84.2 %	75-125	
			MS	pCi/L	155.2	164 %	60-140	435
		(SP 2007686-001)	MSD	pCi/L	155.2	170 %	60-140	435
			MSRPD	pCi/L	155.2	3.4%	≤30	
Gross Beta	900.0	06/12/20:206700jca	Blank	pCi/L		0.18	4	
			LCS	pCi/L	25.99	150 %	84-160	
			MS	pCi/L	25.99	139 %	80-130	435
		(SP 2007686-001)	MSD	pCi/L	25.99	137 %	80-130	435
			MSRPD	pCi/L	155.2	1.3%	≤30	
Alpha	903.0	07/01/20:210361JCA	CCV	cpm	7970	39.7 %	37-46	
			CCB	cpm		0.100	0.16	
Total Alpha Radium (226)	903.0	06/18/20:207020emv	RgBlk	pCi/L		0.06	2	
			LCS	pCi/L	23.32	57.2 %	52-107	
			BS	pCi/L	23.32	52.6 %	43-111	
			BSD	pCi/L	23.32	52.0 %	43-111	
			BSRPD	pCi/L	23.32	1.2%	≤35.5	
Beta	905.0	06/18/20:209724emv	CCV	cpm	7979	87.8 %	85-93	
			CCB	cpm		0.4000	0.58	
Strontium - 90	905.0	06/13/20:206759emv	RgBlk	pCi/L		0.52	2	
			LRS	pCi/L	15.23	105 %	53-133	
			BS	pCi/L	15.22	107 %	75-125	
			BSD	pCi/L	15.22	110 %	75-125	
			BSRPD	pCi/L	15.22	2.0%	≤20	
Tritium	906.0	06/26/20:207344jca	Blank	pCi/L		-2	<300	
			LCS	pCi/L	1673	104 %	75-125	
			BS	pCi/L	1673	102 %	75-125	
			BSD	pCi/L	1673	104 %	75-125	
			BSRPD	pCi/L	1673	1.7%	≤25	
	906.0	06/29/20:210209JCA	CCV	pCi/L	24360	101 %	90-110	
			CCB	pCi/L		28	500	
Beta	Ra - 05	06/27/20:210304emv	CCV	cpm	7973	89.0 %	84-94	
			CCB	cpm		0.4000	0.58	
Ra 228	Ra - 05	06/25/20:206760emv	RgBlk	pCi/L		0.17	3	
			LRS	pCi/L	13.17	67.7 %	65-108	
			BS	pCi/L	13.17	83.4 %	75-125	
			BSD	pCi/L	13.17	89.3 %	75-125	
			BSRPD	pCi/L	13.17	0.78	≤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.

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July 2, 2020 Lab ID : SP 2007686
Pat-Chem Laboratories Customer : 2-12670

Quality Control - Radio

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

July 2, 2020 Lab ID : SP 2007686

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	06/10/20:206670MCA	Blank	ug/L		ND	<4	
			LCS	ug/L	25.00	95.5 %	85-115	
			MS	ug/L	25.00	94.0 %	80-120	
		(STK2037938-001)	MSD	ug/L	25.00	90.9 %	80-120	
			MSRPD	ug/L	25.00	3.3%	≤15	
	314.0	06/11/20:209152MCA	CCB	ppb		0.00	2.0	
			CCV	ppb	10.00	98.5 %	85-115	
			CCB	ppb		0.32	2.0	
			CCV	ppb	20.00	104 %	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.

SUBCONTRACT ORDER

Pat-Chem Laboratories

20D0374

20071080

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: 20D0374-02 **Water**	**Sampled: 09-Jun-20 11:20**			**IPC [MCC] EFF-Quarterly**
Tritium (Sub out)	27-Apr-20 12:00	11-Jun-20 11:20		
Sr-90 (Strontium 90)	27-Apr-20 12:00	06-Dec-20 11:20		
Radium 226 228	27-Apr-20 12:00	06-Dec-20 11:20		
Perchlorate 314.0	27-Apr-20 12:00	07-Jul-20 11:20		
Gross beta SUB	27-Apr-20 12:00	06-Dec-20 11:20		
Gross alpha SUB	27-Apr-20 12:00	06-Dec-20 11:20		
Containers Supplied:				

Released By	6/10/20 Date	Drop off Received By	6/10/20 Date
Released By	Date	Received By	6/10/2020 15:35 Date

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

CHAIN OF CUSTODY RECORD

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

Environmental Sample

Sample I.D.#: 20D0374

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Quarterly	Page 1 of 2
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	04/13/20	1140	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	7.81/21°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
APR 13 2020
By

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Arana (PCL)	04/13/20	17:00
Received by		Armando Ochoa (PCL)	4/13/20	17:00
Relinquished by		Armando Ochoa (PCL)	4/13/20	15:00
Received by				
Relinquished by				
Received by		APR 13 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
Grab
Comp

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

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

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

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

Rev 2 Effective 5/1/17

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

CHAIN OF CUSTODY RECORD

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

Environmental Sample

Sample I.D.#: 20D0374

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Quarterly	Page 2 of 2
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	06/09/20	1120	5	Radium-226 & 228 **(Sub-Out)** Gross Alpha, Gross Beta	Grab	AQ	1L P	4°C	EC =
			1	Strontium-90 **(Sub-Out)**	Grab	AQ	1L P	4°C	
			1	Tritium **(Sub-Out)**	Grab	AQ	VOA	4°C	7.1/24.5°C
			1	Perchlorate **(Sub-Out, leave headspace)**	Grab	AQ	500 P	4°C	
			1	Asbestos **(Sub-Out)**	Grab	AQ	1L P	4°C	

RECEIVED
APRIL 13 2020
By

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (CPL)	06/09/20	1700
Received by		Alexis Ocampo (CPL)	6/9/20	1700
Relinquished by		Alexis Ocampo (CPL)	6/9/20	1700
Received by				
Relinquished by				
Received by		April 13, 2020		1140

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
C Grab Comp	HC - HCl HS - H_2SO_4
Matrix AQ - Water SO - Soil / Sludge OT - Other	HN - HNO_3 HP - H_3PO_4 OH - NaOH ST - Sodium Thiosulfate
Bottle Type P - Plastic G - Amber Glass VOA - 40 ml Vial Coli - bacteria	AA - Ascorbic Acid 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: 03-May-20 13:45
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0405-01) Collected: 14-Apr-20 By Customer							
Microbiological							
Fecal Coliforms	SM 9221E	AD01429	1.8	14-Apr-20	16-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD01429	1.8	14-Apr-20	16-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD01535	0.1	14-Apr-20	14-Apr-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD01537	0.05	15-Apr-20	15-Apr-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 5/3/2020
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.#: 2000405

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	04/14/20	1115	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
APR 14 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Arana (IPC)	04/14/20	12:40 PM
Received by		Jairo Mendivar	4/14/20	12:40PM
Relinquished by		Jairo Mendivar	4/14/20	2:40pm
Received by				
Relinquished by				
Received in lab by		APR 12 2020		1440

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC? (Yes) No

Samples intact? (Yes) No

Samples properly preserved? (Yes) No

Samples in holding time? Yes (No)

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
(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: 30-Apr-20 13:20
Subject: (MCC) Weekly INF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20D0448-01) Collected: 14-Apr-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AD01635	1	16-Apr-20	16-Apr-20	**133 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AD01640	2	16-Apr-20	21-Apr-20	**159 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 4/30/2020
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.#: 20D0448

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	04/14/20	0000	1	TSS	Comp	AQ	1L P	4°C	7.60/17.9°C
"	"	"	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
APR 15 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	04/15/20	17:20
Received by		[illegible]	4/15/20	17:20
Relinquished by		[illegible]	4/15/20	14:50
Received by				
Relinquished by				
Received at Lab by		APR 15 2020		1450

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
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: 03-May-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.# : 20D0439-01) Collected: 15-Apr-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AD01534	1.8	15-Apr-20	17-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD01534	1.8	15-Apr-20	17-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD01637	0.1	15-Apr-20	15-Apr-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD01639	0.05	16-Apr-20	16-Apr-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 5/3/2020
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.#: 20D0439

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	04/15/20	11:45	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.39/22.7
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

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APR 15 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	04/15/20	12:20
Received by		Armando Cano (Parker)	4/15/20	12:20
Relinquished by		Armando Cano (Parker)	4/15/20	14:50
Received by				
Relinquished by				
Received in lab by		APR 15 2020		1450

Sample Received Checklist

Temperature upon receipt: 4°

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

Compliance Monitor

Initial Flow _____

Final Flow _____

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

Preservations

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

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

Rev 2 Effective 5/1/17

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

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

Attention: Ric Vardel
Report Date: 30-Apr-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.# : 20D0447-01) Collected: 15-Apr-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AD01635	1	16-Apr-20	16-Apr-20	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AD01810	0.10	18-Apr-20	20-Apr-20	**<0.10 mg/l**	
Nitrate as N	EPA 353.2	AD01632	0.02	16-Apr-20	16-Apr-20	**2.30 mg/l**	
Nitrite as N	EPA 353.2	AD01632	0.02	16-Apr-20	16-Apr-20	**<0.02 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AD01633	0.10	16-Apr-20	17-Apr-20	**0.62 mg/l**	
Total Nitrogen	[CALC]	[CALC]	0.140	16-Apr-20	17-Apr-20	**2.92 mg/l**	
EFF (Sample I.D.# : 20D0447-02) Collected: 14-Apr-20 By CA							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AD01640	2	16-Apr-20	21-Apr-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 4/30/2020
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.#: 20D0447

Customer:	IPC - Integrated Performance Consultants, Inc.	**Project :**	(MCC) EFF - 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
EFF	04/15/20	1145	1	TSS	Grab	AQ	1L P	4°C	7.72 / 22.9 C
"	"	"	1	Ammonia, TKN	Grab	AQ	500 P	4°C	
"	"	"	1	Nitrate, Nitrite	Grab	AQ	250 P	4°C	
"	04/14/20	0000	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
APR 15 2020

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	04/15/20	17:20
Received by		Armando Ochoa (WSE)	4/15/20	17:20
Relinquished by		Armando Ochoa (WSE)	4/15/20	14:50
Received by				
Relinquished by				
Received by		APR 15 2020		1450

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
(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: 03-May-20 13:50
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0475-01) Collected: 16-Apr-20 By VA							
Microbiological							
Fecal Coliforms	SM 9221E	AD01636	1.8	16-Apr-20	18-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD01636	1.8	16-Apr-20	18-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD01711	0.1	16-Apr-20	16-Apr-20	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD01712	0.05	17-Apr-20	17-Apr-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 5/3/2020
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.#: 20D0475

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: (Field) Lab
EFF	4/16/20	10:57	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.81/20.4°C
	11	11	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
APR 16 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		VICTOR ARIKIAN (IPC)	4/16/20	10:57
Received by		Armando Olmos (Patchem)	4/16/20	17:05
Relinquished by		Armando Olmos (Patchem)	4/16/20	14:30
Received by				
Relinquished by				
Received by		APR 16 2020		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	Preservations
~~Grab~~	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO -Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu -$CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

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

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

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

Attention: Ric Vardel
Report Date: 03-May-20 13:52
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0502-01) Collected: 17-Apr-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AD01710	1.8	17-Apr-20	19-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD01710	1.8	17-Apr-20	19-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD01805	0.1	17-Apr-20	17-Apr-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD01718	0.05	17-Apr-20	17-Apr-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 5/3/2020
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.#: 20D0502

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	04/17/20	1145	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
1	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
APR 17 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Alvarez	Carlos Alvarez (CPC)	04/17/20	12:40Pm
Received by	Jairo	Jairo Meñivar	4/17/20	12:40PM
Relinquished by	Jairo	Jairo Meñivar	4/17/20	2:00Pm
Received by				
Relinquished by				
Received by		APR 17 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	Preservations
(Grab) Comp	HC - HCl
Matrix	HS - H_2SO_4
(AQ) - Water	HN - HNO_3
SO -Soil / Sludge	HP - H_3PO_4
OT - Other	OH - NaOH
Bottle Type	(ST) - Sodium Thiosulfate
(P) - Plastic	AA - Ascorbic Acid
G - Amber Glass	Al - $AlCl_3$
VOA - 40 ml Vial	Cu - $CuSO_4$
(Coli) bacteria	

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

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

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

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

Attention: Ric Vardel
Report Date: 03-May-20 13:55
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0512-01) Collected: 18-Apr-20 By MA							
Microbiological							
Fecal Coliforms	SM 9221E	AD01804	1.8	18-Apr-20	20-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD01804	1.8	18-Apr-20	20-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD01920	0.1	18-Apr-20	18-Apr-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD01811	0.05	18-Apr-20	18-Apr-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 5/3/2020
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.#: 20D0512

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	4/18/20	9:43	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
APR 18 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Mario Aguirre (IPC)	4/18/20	1200
Received by		Alex Wallin Sr (PCL)	4/18/20	1200
Relinquished by		Alex Wallin Sr	4/18/20	1400
Received by				
Relinquished by				
Received in lab by		APR 18 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	Preservations
(Grab) Comp	HC - HCl
Matrix	HS - H_2SO_4
(AQ) - Water	HN - HNO_3
SO -Soil / Sludge	HP - H_3PO_4
OT - Other	OH - NaOH
Bottle Type	(ST) - Sodium Thiosulfate
(P) - Plastic	AA - Ascorbic Acid
G - Amber Glass	Al - $AlCl_3$
VOA - 40 ml Vial	Cu - $CuSO_4$
(Coli) - bacteria	

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

Rev 2 Effective 5/1/17

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

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

Attention: Ric Vardel
Report Date: 03-May-20 13:57
Subject: (MCC) Daily EFF

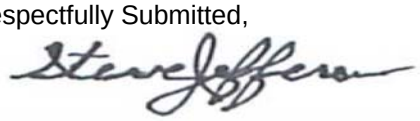
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0526-01) Collected: 19-Apr-20 By VA							
Microbiological							
Fecal Coliforms	SM 9221E	AD01919	1.8	19-Apr-20	21-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD01919	1.8	19-Apr-20	21-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD02227	0.1	19-Apr-20	19-Apr-20	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD02036	0.05	20-Apr-20	20-Apr-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 5/3/2020
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.#: 20D0526

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: VICTOR ARIKIAN 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	4/19/20	09:50	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	VICTOR ARIKIAN (IPC)	4/19/20	09:50
Received by	RM PCL	4/19/20	1345
Relinquished by			
Received by			
Relinquished by			
Received in lab by	RM PCL	4/19/20	1539

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: 03-May-20 14:00
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0543-01) Collected: 20-Apr-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AD02032	1.8	20-Apr-20	22-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD02032	1.8	20-Apr-20	22-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD02227	0.1	20-Apr-20	20-Apr-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD02036	0.05	20-Apr-20	20-Apr-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 5/3/2020
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.#: 2000543

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	04/20/20	1150	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
APR 20 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	04/20/20	1235
Received by		Jairo Mendivar	4/20/20	12:35PM
Relinquished by		Jairo Mendivar	4/20/20	15:00
Received by				
Relinquished by				
Received by/Lab by		APR 20 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
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: 03-May-20 14:02
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0574-01) Collected: 21-Apr-20 By VA							
Microbiological							
Fecal Coliforms	SM 9221E	AD02125	1.8	21-Apr-20	23-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD02125	1.8	21-Apr-20	23-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD02227	0.1	21-Apr-20	21-Apr-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD02228	0.25	22-Apr-20	22-Apr-20	**2.2 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 5/3/2020
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.#: 20D0574

Customer: IPC - Integrated Performance Consultants, Inc		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: VICTOR ARIKIAN Report Attention: Ric Vardei / 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	4/21/20	11:41	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	11	11	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

RECEIVED
APR 21 2020

Signature	Print Name (Company)	Date	Time
Relinquished by	VICTOR ARIKIAN (IPC)	4/21/20	11:41
Received by	Jairo Menjivar	4/21/20	12:42PM
Relinquished by	Jairo Menjivar	4/21/20	14:00
Received by			
Relinquished by			
Received in lab by	APR 21 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	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
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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: 30-Apr-20 13:22
Subject: (MCC) Weekly INF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20D0616-01) Collected: 21-Apr-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AD02339	1	23-Apr-20	24-Apr-20	**128 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AD02338	2	23-Apr-20	28-Apr-20	**161 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 4/30/2020
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.#: 20D0616

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	04/21/20	0000	1	TSS	Comp	AQ	1L P	4°C	7.45/18.8°C
"	"	"	1	BOD	Comp	AQ	1L P	4°C	

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APR 22 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	04/22/20	1230
Received by		Hermes Cruz-Perez	4/22/20	1230
Relinquished by		Hermes Cruz-Perez	4/22/20	1405
Received by				
Relinquished by				
Received in lab		APR 22 2020		1415

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
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: 03-May-20 14:05
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0609-01) Collected: 22-Apr-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AD02226	1.8	22-Apr-20	24-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD02226	1.8	22-Apr-20	24-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD02335	0.1	22-Apr-20	22-Apr-20	**7.2 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD02336	0.05	23-Apr-20	23-Apr-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 5/3/2020
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.#: 20D0609

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	04/22/20	1130	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.61 / 20.7°C
1	1	(	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

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APR 22 2020

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Carlos Alvarez (Cafe)	04/22/20	12:30
Received by	[illegible]	4/22/20	12:30
Relinquished by	[illegible]	4/22/20	14:15
Received by			
Relinquished by			
Received by	APR 22 2020		14:15

Sample Received Checklist

Temperature upon receipt: 4°

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

Compliance Monitor

Initial Flow _____

Final Flow _____

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

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

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

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

Attention: Ric Vardel
Report Date: 03-May-20 14:20
Subject: (MCC) Weekly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0615-01) Collected: 22-Apr-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AD02339	1	23-Apr-20	24-Apr-20	**3 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AD02330	0.10	23-Apr-20	23-Apr-20	**<0.10 mg/l**	
Nitrate as N	EPA 353.2	AD02332	0.02	23-Apr-20	23-Apr-20	**0.05 mg/l**	
Nitrite as N	EPA 353.2	AD02332	0.02	23-Apr-20	23-Apr-20	**<0.02 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AD02331	0.10	23-Apr-20	25-Apr-20	**0.72 mg/l**	
Total Nitrogen	[CALC]	[CALC]	0.140	23-Apr-20	25-Apr-20	**0.779 mg/l**	
EFF (Sample I.D.# : 20D0615-02) Collected: 21-Apr-20 By CA							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AD02338	2	23-Apr-20	28-Apr-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 5/3/2020
Laboratory Director

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
20D0615-02	BOD SM5210B		Sampled->Prepared > 2.00 days
	Total Nitrogen	(Water)	Result calculations based on MDL
			VERSION 6.18:2013
			Default Report (not modified)

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

CHAIN OF CUSTODY RECORD

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

Environmental Sample

Sample I.D.#: 20D0615

Customer:	IPC - Integrated Performance Consultants, Inc.	**Project :**	(MCC) EFF - 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
EFF	04/22/20	1130	1	TSS	Grab	AQ	1L P	4°C	7.78/20.1°C
"	"	"	1	Ammonia, TKN	Grab	AQ	500 P	4°C	
"	"	"	1	Nitrate, Nitrite	Grab	AQ	250 P	4°C	
"	04/21/20	0000	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
APR 22 2020

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

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	04/22/20	1230
Received by		Brandon Olson (GSTL)	4/22/20	1230
Relinquished by		Brandon Olson (GSTL)	4/22/20	1415
Received by				
Relinquished by				
Received by		APR 22 2020		1415

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
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: 03-May-20 14:07
Subject: (MCC) Daily EFF

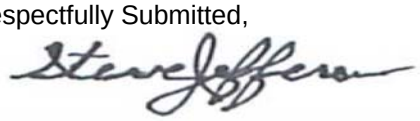
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0631-01) Collected: 23-Apr-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AD02334	1.8	23-Apr-20	25-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD02334	1.8	23-Apr-20	25-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD02413	0.1	23-Apr-20	23-Apr-20	**7.2 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD02344	0.05	23-Apr-20	23-Apr-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 5/3/2020
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.#: 2000631

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	04/23/20	1130	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.23/24.7°C
1	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
APR 23 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (SPC)	04/23/20	12:00
Received by		Hemming Ames (Waters)	4/23/20	12:00
Relinquished by		Hemming Ames (Waters)	4/23/20	14:15
Received by				
Relinquished by				
Received in lab by		APR 23 2020		1415

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

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

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

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

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

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

Attention: Ric Vardel
Report Date: 03-May-20 14:10
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0665-01) Collected: 24-Apr-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AD02411	1.8	24-Apr-20	26-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD02411	1.8	24-Apr-20	26-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD02510	0.1	24-Apr-20	24-Apr-20	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD02511	0.05	25-Apr-20	25-Apr-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 5/3/2020
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.#: 20D0665

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	04/24/20	1140	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
APR 24 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (CPC)	04/24/20	12:35Pm
Received by		Jairo Mejivar	4/24/20	12:35Pm
Relinquished by		Jairo Mejivar	4/24/20	12:35Pm
Received by				
Relinquished by				
Received by		APR 24 2020		13:44

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: 03-May-20 14:12
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0674-01) Collected: 25-Apr-20 By MA							
Microbiological							
Fecal Coliforms	SM 9221E	AD02504	1.8	25-Apr-20	28-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD02504	1.8	25-Apr-20	28-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD02510	0.1	25-Apr-20	25-Apr-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD02622	0.05	26-Apr-20	26-Apr-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 5/3/2020
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.#: 2000674

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	4/25/20	9:45	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	9:45	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

RECEIVED
APR 25 2020
By JC

	Signature	Print Name (Company)	Date	Time
Relinquished by		Mario Aguirre (IPC)	4/25/20	11:30
Received by		Alex Walker Jr. (PCL)	4/25/20	11:30
Relinquished by		Alex Walker Jr	4/25/20	14:00
Received by				
Relinquished by				
Received in lab by		Jordan Corkery	4/25/20	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	Matrix	Bottle Type
(Grab) Comp	AQ - Water	P - Plastic
	SO - Soil / Sludge	G - Amber Glass
	OT - Other	VOA - 40 ml Vial
		Coli - bacteria

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

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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: 03-May-20 14:15
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0679-01) Collected: 26-Apr-20 By Mario Aguirre							
Microbiological							
Fecal Coliforms	SM 9221E	AD02619	1.8	26-Apr-20	28-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD02619	1.8	26-Apr-20	28-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD02931	0.1	26-Apr-20	26-Apr-20	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD02722	0.05	27-Apr-20	27-Apr-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 5/3/2020
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.#: 20D0679

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	4/26/20	10:09	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°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 ARIKIAN (IPC)	4/26/20	10:09
Received by		RM PCL	4/26/20	1425
Relinquished by				
Received by				
Relinquished by				
Received in lab by		RM PCL	4/26/20	1651

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

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
Grab
Comp

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

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

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

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

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

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

Attention: Ric Vardel
Report Date: 03-May-20 14:17
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0694-01) Collected: 27-Apr-20 By MA							
Microbiological							
Fecal Coliforms	SM 9221E	AD02726	1.8	27-Apr-20	29-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD02726	1.8	27-Apr-20	29-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD02931	0.1	27-Apr-20	27-Apr-20	**8.0 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD02830	0.05	28-Apr-20	28-Apr-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 5/3/2020
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.#: 2000694

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	04/27/20	1115	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	8.01/29.3°C
1	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
APR 27 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	04/27/20	11:14
Received by		Juan Vasquez (PCL)	4/27/20	11:14
Relinquished by		Juan Vasquez (PCL)	4/27/20	12:00
Received by				
Relinquished by				
Received in lab by		APR 27 2020		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	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: 08-May-20 10:04
Subject: (MCC) Daily EFF

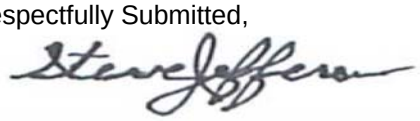
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0726-01) Collected: 28-Apr-20 By VA							
Microbiological							
Fecal Coliforms	SM 9221E	AD02828	1.8	28-Apr-20	30-Apr-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD02828	1.8	28-Apr-20	30-Apr-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD02931	0.1	28-Apr-20	28-Apr-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD02933	0.05	29-Apr-20	29-Apr-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 5/8/2020
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.#: 20J0726

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618		Sampled by: VICTOR ARJIKIAN	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	4/28/20	11:01	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.62 / 23.9°C
	11	11	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
APR 28 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	VICTOR ARJIKIAN (IPC)	4/28/20	11:01
Received by	[illegible]	4/28/20	12:00
Relinquished by	[illegible]	4/28/20	14:40
Received by			
Relinquished by			
Received in lab by	APR 28 2020		1440

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type	Preservations
(Grab) Comp	HC - HCl
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: 08-May-20 15:44
Subject: (MCC) Weekly INF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20D0753-01) Collected: 28-Apr-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AD03027	1	30-Apr-20	30-Apr-20	**127 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AD03026	2	30-Apr-20	05-May-20	**153 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 5/8/2020
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.#: 2DD0753

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
INF	04/28/20	0000	1	TSS	Comp	AQ	1L P	4°C	7.52 / 17.5°C
"	"	"	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
APR 29 2020
By Alex Valdez Jr.

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

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Alvarez	Carlos Alvarez (IPC)	04/29/20	12:25
Received by	Authorized Courier	Authorized Courier (Pat-Chem)	4/29/20	12:25
Relinquished by	Authorized Courier	Authorized Courier (Pat-Chem)	4/29/20	14:40
Received by				
Relinquished by				
Received in Lab by	Alex Valdez Jr.	APR 29 2020		1440

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: 08-May-20 10:13
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0752-01) Collected: 29-Apr-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AD02929	1.8	29-Apr-20	01-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD02929	1.8	29-Apr-20	01-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AD02941	0.1	29-Apr-20	29-Apr-20	**7.9 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD03030	0.05	30-Apr-20	30-Apr-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 5/8/2020
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.#: 20D0752

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	04/29/20	1140	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.06 / 23.22
1	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
APR 29 2020
BY

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	04/29/20	12:25
Received by		Armando Olivas (Apex)	4/29/20	12:25
Relinquished by		Armando Olivas (Apex)	4/29/20	14:40
Received by				
Relinquished by				
Received in lab by		APR 29 2020		1440

Sample Received Checklist

Temperature upon receipt: 4°c

# of bottles agrees with COC? (Yes) No

Samples intact? (Yes) No

Samples properly preserved? (Yes) No

Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
(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: 11-May-20 10:07
Subject: (MCC) Weekly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0754-01) Collected: 29-Apr-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AD03027	1	30-Apr-20	30-Apr-20	**1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AE00107	0.10	01-May-20	01-May-20	**0.13 mg/l**	
Nitrate as N	EPA 353.2	AD03024	0.02	30-Apr-20	30-Apr-20	**<0.02 mg/l**	
Nitrite as N	EPA 353.2	AD03024	0.02	30-Apr-20	30-Apr-20	**<0.02 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AE00424	0.10	04-May-20	05-May-20	**0.39 mg/l**	
Total Nitrogen	[CALC]	[CALC]	0.140	04-May-20	05-May-20	**0.387 mg/l**	
EFF (Sample I.D.# : 20D0754-02) Collected: 28-Apr-20 By CA							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AD03026	2	30-Apr-20	05-May-20	**8 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 5/11/2020
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: 08-May-20 12:44
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20D0771-01) Collected: 30-Apr-20 By VA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AD03029	1.8	30-Apr-20	02-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AD03029	1.8	30-Apr-20	02-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE00113	0.1	30-Apr-20	30-Apr-20	**7.9 pH Units**	
Residual Chlorine	SM 4500Cl-G	AD03036	0.05	30-Apr-20	30-Apr-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 5/8/2020
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.#: 2000771

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: (Field) Lab
EFF	4/30/20	11:24	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.86/21.8°C
	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
APR 30 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		VICTOR AREKIAN (EPC)	4/30/20	11:24
Received by		Armando Olmos (PatChem)	4/30/20	12:00
Relinquished by		Armando Olmos (PatChem)	4/30/20	14:30
Received by				
Relinquished by				
Received by Lab by		APR 30 2020		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; 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: 08-May-20 12:48
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0018-01) Collected: 01-May-20 By VA of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AE00112	1.8	01-May-20	03-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE00112	1.8	01-May-20	03-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE00207	0.1	01-May-20	01-May-20	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE00208	0.05	02-May-20	02-May-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 5/8/2020
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.#: 20E0018

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	05/01/20	1140	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.81/24.4°C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
MAY 01 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	05/01/20	11:45
Received by		Alejandro Olvera (CAL)	5/1/20	11:45
Relinquished by		Alejandro Olvera (CAL)	5/1/20	15:00
Received by				
Relinquished by				
Received by		MAY 01 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	HC - HCl
Comp	HS - H_2SO_4
Matrix	HN - HNO_3
AQ - Water	HP - H_3PO_4
SO - Soil / Sludge	OH - NaOH
OT - Other	ST - Sodium Thiosulfate
Bottle Type	AA - Ascorbic Acid
P - Plastic	Al - $AlCl_3$
G - Amber Glass	Cu - $CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

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

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

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

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

Attention: Ric Vardel
Report Date: 08-May-20 15:19
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0030-01) Collected: 02-May-20 By Mario Aguirre							
Microbiological							
Fecal Coliforms	SM 9221E	AE00211	1.8	02-May-20	04-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE00211	1.8	02-May-20	04-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE00329	0.1	02-May-20	02-May-20	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE00330	0.05	03-May-20	03-May-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 5/8/2020
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.#: 20E0030

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	5/2/20	9:53	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	Mario Aguirre (IPC)	5/2/20	~~13:00~~ 18
Received by	Alex Walkin Jr	5/2/20	13:00
Relinquished by	Alex Walkin Jr	5/2/20	1621
Received by			
Relinquished by			
Received in lab by	Jordan Corkery	5/2/20	1621

13:00

Sample Received Checklist M.A.

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
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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: 08-May-20 15:35
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0034-01) Collected: 03-May-20 By MA							
Microbiological							
Fecal Coliforms	SM 9221E	AE00328	1.8	03-May-20	05-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE00328	1.8	03-May-20	05-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE00637	0.1	03-May-20	03-May-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE00430	0.05	04-May-20	04-May-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 5/8/2020
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.#: 20E0034

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive		Sampled by: VICTOR ARIKIAN	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	5/3/20	09:45	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	VICTOR ARIKIAN (IPC)	5/3/20	09:45
Received by	RM PCL	5/3/20	1410
Relinquished by			
Received by			
Relinquished by			
Received in lab by	RM PCL	5/3/20	1620

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____

Final Flow _____

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

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

Rev 2 Effective 5/1/17

PAT-CHEM LABORATORIES
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: 08-May-20 15:38
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0055-01) Collected: 04-May-20 By Mario Aguirre							
Microbiological							
Fecal Coliforms	SM 9221E	AE00420	1.8	04-May-20	06-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE00420	1.8	04-May-20	06-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE00637	0.1	04-May-20	04-May-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE00527	0.05	05-May-20	05-May-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 5/8/2020
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.#: 20E0055

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	05/04/20	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
MAY 04 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Alvarez	Carlos Alvarez (IPC)	05/04/20	12:45PM
Received by		Jairo Menjivar	5-4-20	12:45PM
Relinquished by		Jairo Menjivar	5-4-20	3:25PM
Received by				
Relinquished by				
Received in lab by		MAY 04 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	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.

PAT-CHEM
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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: 02-Jun-20 17:30
Subject: (MCC) Monthly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0066-01) Collected: 04-May-20 By CA							
Physical Properties							
Total Dissolved Solids	SM 2540C	AE00635	5	06-May-20	08-May-20	**1644 mg/l**	
Inorganic Constituents							
Chloride	EPA 300.0	AE00643	25.0	06-May-20	06-May-20	**267 mg/l**	
Sulfate as SO4	EPA 300.0	AE00643	12.5	06-May-20	06-May-20	**363 mg/l**	
Boron	EPA 200.7	AE00627	0.10	06-May-20	07-May-20	**0.61 mg/l**	
Phosphorus, Total as P	EPA 365.3	AE01827	0.10	18-May-20	18-May-20	**2.01 mg/l**	
Aggregate Organic Constituents							
MBAS	SM 5540 C	AE00525	0.05	05-May-20	05-May-20	**0.05 mg/l**	
Oil & Grease (HEM)	EPA 1664A	AE00629	5	06-May-20	06-May-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 6/2/2020
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.#: 20E0066

Customer: IPC - Integrated Performance Consultants, Inc.		**Project:** (MCC) EFF - Monthly	
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	05/04/20	1115	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	

RECEIVED
MAY 04 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	05/04/20	12:45PM
Received by		Jairo Mendivar	5-4-20	12:45PM
Relinquished by		Jairo Mendivar	5-4-20	3:25PM
Received by				
Relinquished by				
Received in lab by		MAY 04 2020		1520

Sample Received Checklist

Temperature upon receipt: 20c

# of bottles agrees with COC?	Yes	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-May-20 13:10
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0093-01) Collected: 05-May-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AE00529	1.8	05-May-20	07-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE00529	1.8	05-May-20	07-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE00637	0.1	05-May-20	05-May-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE00639	0.05	06-May-20	06-May-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 5/11/2020
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.#: 20E0093

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: C. Duran	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	05/05/20	1130	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
MAY 05 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Duran	Carlos Duran (IPC)	05/05/20	1:10PM
Received by		Jairo Mendivil	5-5-20	1:10PM
Relinquished by		Jairo Mendivil	5-5-20	3:00PM
Received by				
Relinquished by				
Received in lab by		MAY 05 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: (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-May-20 15:52
Subject: (MCC) Weekly INF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20E0134-01) Collected: 05-May-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AE00729	1	07-May-20	08-May-20	**140 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AE00725	2	07-May-20	12-May-20	**512 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 5/17/2020
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.#: 20E0134

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	05/05/20	0000	1	TSS	Comp	AQ	1L P	4°C	7.2/21.0
1	1	1	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
MAY 06 2020

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

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	05/06/20	12:25
Received by		Cindy Mar (PCL)	5/6/20	12:25
Relinquished by		Cindy Mar (PCL)	5/6/20	14:21
Received by				
Relinquished by				
Received by/Lab by		MAY 06 2020		1421

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-May-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.# : 20E0122-01) Collected: 06-May-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AE00644	1.8	06-May-20	08-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE00644	1.8	06-May-20	08-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE00650	0.1	06-May-20	06-May-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE00649	0.05	06-May-20	06-May-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 5/11/2020
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.#: 20E0122

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	05/06/20	1140	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.4 / 27.3 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	Carlos Alvarez (GPC)	05/06/20	12:25
Received by	Cindy Martinez	5/6/20	12:25
Relinquished by	Cindy Martinez (PCL)	5/6	14:2
Received by			
Relinquished by			
Received in lab by	Jordan Corkery	5/6/20	14:21

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: 02-Jun-20 17:45
Subject: (MCC) Weekly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0131-01) Collected: 06-May-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AE00729	1	07-May-20	08-May-20	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AE00810	0.10	08-May-20	08-May-20	**0.18 mg/l**	
Nitrate as N	EPA 353.2	AE00730	0.02	07-May-20	07-May-20	**<0.02 mg/l**	
Nitrite as N	EPA 353.2	AE00730	0.02	07-May-20	07-May-20	**<0.02 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AE01341	0.10	13-May-20	15-May-20	**0.73 mg/l**	
EFF (Sample I.D.# : 20E0131-02) Collected: 05-May-20 By CA							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AE00725	2	07-May-20	12-May-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 6/2/2020
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.#: 20E0131

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	05/06/20	1140	1	TSS	Grab	AQ	1L P	4°C	7.5/ 26.0°C
"	"	"	1	Ammonia, TKN	Grab	AQ	500 P	HS	
"	"	"	1	Nitrate, Nitrite	Grab	AQ	250 P	4°C	
"	05/05/20	0000	1	BOD	~~Grab~~ Comp	AQ	1L P	4°C	

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MAY 06 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	05/06/20	12:25
Received by		Cindy Martinez (PCL)	5/6/2012:25	
Relinquished by		Cindy Martinez (PCL)	5/6/2014:21	
Received by				
Relinquished by				
Received in lab by		MAY 06 2020		1427

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

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

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

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

Rev 2 Effective 5/1/17

PAT-CHEM LABORATORIES
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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: 11-May-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.# : 20E0157-01) Collected: 07-May-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AE00728	1.8	07-May-20	09-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE00728	1.8	07-May-20	09-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE00812	0.1	07-May-20	07-May-20	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE00813	0.05	08-May-20	08-May-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 5/11/2020
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.#: 20E0157

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	05/07/20	1120	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

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By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Arroyo (IPC)	05/07/20	12:45
Received by		Jairo Mendivar	5/7/20	12:45
Relinquished by		Jairo Mendivar	5/7/20	2:20PM
Received by				
Relinquished by				
Received at lab by		MAY 07 2020		1440

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
(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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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-May-20 13:17
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0183-01) Collected: 08-May-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AE00811	1.8	08-May-20	10-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE00811	1.8	08-May-20	10-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE00908	0.1	08-May-20	08-May-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE00906	0.05	09-May-20	09-May-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 5/11/2020
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.#: 20E0183

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive Irvine CA 92618		Sampled by: C. Ch	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	05/08/20	1040	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

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By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (CPC)	05/08/20	1200
Received by	EC	Carlos	5/8/20	1200
Relinquished by	EC	Carlos	5/8/20	1400
Received by				
Relinquished by				
Received in Lab		MAY 08 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	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.

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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-May-20 15:32
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0195-01) Collected: 09-May-20 By MA							
Microbiological							
Fecal Coliforms	SM 9221E	AE00904	1.8	09-May-20	11-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE00904	1.8	09-May-20	11-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE00908	0.1	09-May-20	09-May-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE00909	0.05	09-May-20	09-May-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 5/17/2020
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.#: 20E0195

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	5/9/20	9:45	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	Mario Aguirre (IPC)	5/9/20	1010
Received by	Jose L Gomez	5/9/20	1010
Relinquished by	Jose L Gomez	5/9/20	1145
Received by			
Relinquished by			
Received in lab by	Jordan Corkery	5/9/20	1145

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: 17-May-20 15:39
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0201-01) Collected: 10-May-20 By VA							
Microbiological							
Fecal Coliforms	SM 9221E	AE01017	1.8	10-May-20	12-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE01017	1.8	10-May-20	12-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE01337	0.1	10-May-20	10-May-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE01023	0.05	10-May-20	10-May-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 5/17/2020
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.#: 20E0201

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: VICTOR ARIKIAN 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	5/10/20	09:35	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°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 ARIKIAN (IPC)	5/10/20	09:35
Received by		RM PCL	5/10/2020	1350
Relinquished by				
Received by				
Relinquished by				
Received in lab by		RM PCL	5/10/2020	1538

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: 17-May-20 15:42
Subject: (MCC) Daily EFF

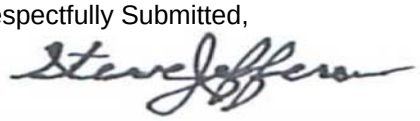
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0215-01) Collected: 11-May-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AE01125	1.8	11-May-20	13-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE01125	1.8	11-May-20	13-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE01337	0.1	11-May-20	11-May-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE01128	0.05	11-May-20	11-May-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 5/17/2020
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.#: 20E0215

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive Irvine CA 92618		Sampled by: C. Cruz	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	05/11/20	1120	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
1	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
MAY 11 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Cruz	Carlos Alvarez (IPC)	05/11/20	11:30
Received by	Juan Vasquez	Juan Vasquez (PCL)	5/11/20	11:30
Relinquished by	Juan Vasquez	Juan Vasquez (PCL)	5/11/20	12:50
Received by				
Relinquished by				
Received by		MAY 11 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: 17-May-20 15:44
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0241-01) Collected: 12-May-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AE01231	1.8	12-May-20	14-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE01231	1.8	12-May-20	14-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE01337	0.1	12-May-20	12-May-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE01338	0.05	13-May-20	13-May-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 5/17/2020
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.#: 20E0241

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	05/12/20	1130	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
1	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

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MAY 12 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID. WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	05/12/20	12:40PM
Received by		Jairo Manilvar	5-12-20	12:40PM
Relinquished by		Jairo Manilvar	5-12-20	2:30PM
Received by				
Relinquished by				
Received by		MAY 12 2020		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.

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-Jun-20 21:42
Subject: (MCC) Weekly INF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20E0269-01) Collected: 12-May-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AE01439	1	14-May-20	14-May-20	**148 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AE01441	2	14-May-20	19-May-20	**208 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 6/2/2020
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.#: 20E0269

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) INF - Weekly	
Address: 9297 Research Drive		**Sampled by:** C. D.	**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	05/12/20	0000	1	TSS	Comp	AQ	1L P	4°C	
"	"	"	1	BOD	Comp	AQ	1L P	4°C	

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By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (CPC)	05/13/20	12:55
Received by		Jairo Menjivar	5/13/20	12:55
Relinquished by		Jairo Menjivar	5/13/20	3:00PM
Received by				
Relinquished by				
Received in lab by		MAY 13 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
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-May-20 15:47
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0262-01) Collected: 13-May-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AE01336	1.8	13-May-20	15-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE01336	1.8	13-May-20	15-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE01346	0.1	13-May-20	13-May-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE01347	0.05	13-May-20	13-May-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 5/17/2020
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.#: 20E0262

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	05/13/20	1140	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
1	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

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MAY 13 2020

Geotracker EDF:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Arroyo (Cape)	05/13/20	12:55
Received by		Jairo Menjivar	5/13/20	12:55
Relinquished by		Jairo Menjivar	5/13/20	3:00PM
Received by				
Relinquished by				
Received in lab by		MAY 13 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
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: 02-Jun-20 17:37
Subject: (MCC) Weekly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0270-01) Collected: 13-May-20 By CA							
Physical Properties							
Total Suspended Solids	SM2540D	AE01439	1	14-May-20	14-May-20	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AE01821	0.10	18-May-20	18-May-20	**0.17 mg/l**	
Nitrate as N	EPA 353.2	AE01444	0.02	14-May-20	14-May-20	**<0.02 mg/l**	
Nitrite as N	EPA 353.2	AE01444	0.02	14-May-20	14-May-20	**<0.02 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AE01826	0.10	18-May-20	19-May-20	**1.13 mg/l**	
EFF (Sample I.D.# : 20E0270-02) Collected: 12-May-20 By CA							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AE01441	2	14-May-20	19-May-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 6/2/2020
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.#: 20E0270

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	05/13/20	1140	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	
	05/12/20	0000	1	BOD	Comp	AQ	1L P	4°C	

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MAY 13 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	05/13/20	12:55
Received by		Jairo Mendivil	5/13/20	12:55
Relinquished by		Jairo Mendivil	5/13/20	3:00PM
Received by				
Relinquished by				
Received in lab by		MAY 13 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
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.

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-May-20 15:50
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0300-01) Collected: 14-May-20 By VA							
Microbiological							
Fecal Coliforms	SM 9221E	AE01440	1.8	14-May-20	16-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE01440	1.8	14-May-20	16-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE01447	0.1	14-May-20	14-May-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE01448	0.05	14-May-20	14-May-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 5/17/2020
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.#: 20E0300

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	5/14/20	11:22	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	11	11	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD: Logcode: IPCI Global ID: WDR100000359									

RECEIVED
MAY 14 2020
By

Signature	Print Name (Company)	Date	Time
Relinquished by	VICTOR ARIKIAN (IPC)	5/14/20	11:22
Received by	Jairo Menjivar	5/14/20	1:05PM
Relinquished by	Jairo Menjivar	5/14/20	2:30PM
Received by			
Relinquished by			
Received by/Lab by	MAY 14 2020		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	Preservations
(Grab) Comp	HC - HCl HS - H_2SO_4
Matrix (AQ) - Water SO -Soil / Sludge OT - Other	HN - HNO_3 HP - H_3PO_4 OH - NaOH (ST) -Sodium Thiosulfate
Bottle Type (P) - Plastic G - Amber Glass VOA - 40 ml Vial (Coli) - bacteria	AA - Ascorbic Acid Al - $AlCl_3$ Cu -$CuSO_4$

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

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

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

Attention: Ric Vardel
Report Date: 05-Jun-20 14:34
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0312-01) Collected: 15-May-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AE01508	1.8	15-May-20	17-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE01508	1.8	15-May-20	17-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE01610	0.1	15-May-20	15-May-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE01608	0.05	16-May-20	16-May-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 6/5/2020
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.#: 20E0312

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: (Field) Lab
EFF	05/15/20	1115	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.63/27.8°
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
1	1	1							

RECEIVED
MAY 15 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Vardel	Carlos Alvarez (Cafe)	05/15/20	11:40
Received by		Primitivo Cruz (Parker)	5/15/20	11:40
Relinquished by		Primitivo Cruz (Parker)	5/15/20	14:20
Received by				
Relinquished by				
Received by		MAY 15 2020		1203

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: 05-Jun-20 14:40
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0323-01) Collected: 16-May-20 By MA							
Microbiological							
Fecal Coliforms	SM 9221E	AE01607	1.8	16-May-20	18-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE01607	1.8	16-May-20	18-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE01726	0.1	16-May-20	16-May-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE01725	0.05	17-May-20	17-May-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 6/5/2020
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.#: 20E0323

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 #:** 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	5/16/20	9:38	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
MAY 16 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Mario Aguirre (IPC)	5/16/20	12:30
Received by		Alex Walker Jr	5/16/20	12:30
Relinquished by				
Received by				
Relinquished by				
Received by/lab by		MAY 16 2020		1430

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

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

Preservations	
HC - HCl	
HS - H_2SO_4	
HN - HNO_3	
HP - H_3PO_4	
OH - NaOH	
(ST) - Sodium Thiosulfate	
AA - Ascorbic Acid	
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-Jun-20 14:42
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0328-01) Collected: 17-May-20 By VA							
Microbiological							
Fecal Coliforms	SM 9221E	AE01724	1.8	17-May-20	19-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE01724	1.8	17-May-20	19-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE02030	0.1	17-May-20	17-May-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE01831	0.05	18-May-20	18-May-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 6/5/2020
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.#: 20E0328

Customer: IPC - Integrated Performance Consultants, Inc.		Project: (MCC) EFF - Daily	
Address: 9297 Research Drive		Sampled by: VICTOR ARIKIAN	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	5/17/20	09:44	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	VICTOR ARIKIAN (IPC)	5/17/20	09:44
Received by	RM PCL	5/17/20	1350
Relinquished by			
Received by			
Relinquished by			
Received in lab by	RM PCL	5/17/20	1642

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	**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: 05-Jun-20 14:48
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0346-01) Collected: 18-May-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AE01832	1.8	18-May-20	20-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE01832	1.8	18-May-20	20-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE02030	0.1	18-May-20	18-May-20	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE01921	0.05	19-May-20	19-May-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 6/5/2020
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.#: 20E0346

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive	Sampled by: C. Q	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	05/18/20	1050	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.7@20.2°C
1	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
MAY 18 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: C. Q	Carlos Alvarez (IPC)	05/18/20	12:20
Received by: Alejandro Olivas (Calscience)		5/18/20	17:20
Relinquished by: Alejandro Olivas (Calscience)		5/18/20	1645
Received by:			
Relinquished by:			
Received in lab by:	MAY 18 2020		1507

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
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
(818) 639-5306 fx
pat-chem.com

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

Attention: Ric Vardel
Report Date: 05-Jun-20 14:53
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0374-01) Collected: 19-May-20 By VA							
Microbiological							
Fecal Coliforms	SM 9221E	AE01923	1.8	19-May-20	21-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE01923	1.8	19-May-20	21-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE02030	0.1	19-May-20	19-May-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE02029	0.05	20-May-20	20-May-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 6/5/2020
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.#: 20E0374

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: VICTOR ARIKIAN 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	5/19/20	11:05	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	11	11	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
MAY 19 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		VICTOR ARIKIAN (IPC)	5/19/20	11:05
Received by	Elo Cruz		5/19/20	1200
Relinquished by	Elo Cruz		5.19.20	1320
Received by				
Relinquished by				
Received by		MAY 19 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
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-Jun-20 21:45
Subject: (MCC) Weekly INF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20E0431-01) Collected: 19-May-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AE02130	1	21-May-20	22-May-20	**154 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AE02131	2	21-May-20	26-May-20	**226 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 6/2/2020
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.#: 20E0431

Customer: IPC - Integrated Performance Consultants, Inc.		**Project :** (MCC) INF - Weekly	
Address: 9297 Research Drive		**Sampled by:** C. Ca	**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	05/19/20	0000	1	TSS	Comp	AQ	1L P	4°C	7.52/17.2C
1	1	1	1	BOD	Comp	AQ	1L P	4°C	

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MAY 20 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Ca	Carlos Alvarez (CPC)	05/20/20	12:10
Received by		Hernando Ochoa (Patchem)	5/20/20	17:30
Relinquished by		Hernando Ochoa (Patchem)	5/20/20	15:00
Received by				
Relinquished by				
Received in lab by		MAY 20 2020		1527

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
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-Jun-20 14:55
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0429-01) Collected: 20-May-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AE02038	1.8	20-May-20	22-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE02038	1.8	20-May-20	22-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE02043	0.1	20-May-20	20-May-20	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE02044	0.05	20-May-20	20-May-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 6/5/2020
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.#: 20E0429

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	05/20/20	1115	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.05/23.0°C
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
MAY 20 2020
BY

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (APC)	05/20/20	1410
Received by		Armando Ochoa (APC)	5/20/20	12:10
Relinquished by		Armando Ochoa (APC)	5/20/20	15:00
Received by				
Relinquished by				
Received at lab by		MAY 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: 02-Jun-20 17:48
Subject: (MCC) Weekly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0430-01) Collected: 20-May-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AE02130	1	21-May-20	22-May-20	**2 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AE02128	0.10	21-May-20	21-May-20	**0.90 mg/l**	
Nitrate as N	EPA 353.2	AE02136	0.02	21-May-20	21-May-20	**1.27 mg/l**	
Nitrite as N	EPA 353.2	AE02136	0.02	21-May-20	21-May-20	**<0.02 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AE02133	0.10	21-May-20	22-May-20	**0.92 mg/l**	
EFF (Sample I.D.# : 20E0430-02) Collected: 19-May-20 By Carlos A. of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AE02131	2	21-May-20	26-May-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 6/2/2020
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.#: 20E0430

Customer:	IPC - Integrated Performance Consultants, Inc.	**Project :**	(MCC) EFF - Weekly
Address:	9297 Research Drive	**Sampled by:**	C. Ca
	Irvine CA 92618	**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	05/20/20	1115	1	TSS	Grab	AQ	1L P	4°C	7.85/23.9°C
"	"	"	1	Ammonia, TKN	Grab	AQ	500 P	4°C	
"	"	"	1	Nitrate, Nitrite	Grab	AQ	250 P	4°C	
"	05/19/20	0000	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
MAY 20 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Ca	Carlos Amaya (CPC)	05/20/20	17:10
Received by		Armando Chavez (CPC)	5/20/20	17:10
Relinquished by		Armando Chavez (CPC)	5/20/20	18:00
Received by				
Relinquished by				
Received in lab by		MAY 20 2020		1513

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-Jun-20 14:58
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0451-01) Collected: 21-May-20 By CA							
Microbiological							
Fecal Coliforms	SM 9221E	AE02129	1.8	21-May-20	23-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE02129	1.8	21-May-20	23-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE02140	0.1	21-May-20	21-May-20	**7.3 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE02139	0.05	21-May-20	21-May-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 6/5/2020
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.#: 20E0451

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: (Field) Lab
EFF	05/21/20	1020	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.33/21.6°C
1	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
MAY 21 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Alvarez	Carlos Alvarez (IPC)	05/21/20	12:20
Received by		Armando Olmos (Patchem)	5/21/20	12:20
Relinquished by		Armando Olmos (Patchem)	5/21/20	14:50
Received by				
Relinquished by				
Received in lab by		MAY 21 2020		1357

Sample Received Checklist 0°C

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: 05-Jun-20 15:00
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0481-01) Collected: 22-May-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AE02208	1.8	22-May-20	24-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE02208	1.8	22-May-20	24-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE02308	0.1	22-May-20	22-May-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE02307	0.05	23-May-20	23-May-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 6/5/2020
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.#: 20E0481

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	05/22/20	1105	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.72 / 27.4°C
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
MAY 22 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Arana (IPC)	05/22/20	12:05
Received by		Armando Ochoa (Client)	5/22/20	12:05
Relinquished by		Armando Ochoa (Client)	5/22/20	14:45
Received by				
Relinquished by				
Received for Lab by		MAY 22 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.

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-Jun-20 15:02
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0492-01) Collected: 23-May-20 By Mario Aguirre							
Microbiological							
Fecal Coliforms	SM 9221E	AE02306	1.8	23-May-20	25-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE02306	1.8	23-May-20	25-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE02313	0.1	23-May-20	23-May-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE02314	0.10	23-May-20	23-May-20	**1.4 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 6/5/2020
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.#: 20E0492

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	5/23/20	9:37	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	Mario Aguirre (IPC)	5/23/20	9:37
Received by	Alex Walker Jr	5/23/20	10:30
Relinquished by	Alex Walker Jr	5/23/20	1300
Received by			
Relinquished by			
Received in lab by	Jordan Corkery	5/23/20	1300

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

Sample Received Checklist

Temperature upon receipt: 4oc

# of bottles agrees with COC?	(Yes) 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: 05-Jun-20 15:34
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0496-01) Collected: 24-May-20 By Rem of PCL							
Microbiological							
Fecal Coliforms	SM 9221E	AE02423	1.8	24-May-20	26-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE02423	1.8	24-May-20	26-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE02730	0.1	24-May-20	24-May-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE02627	0.05	25-May-20	25-May-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 6/5/2020
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.#: 20E0496

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive		Sampled by: VICTOR ARIKIAN	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	5/24/20	09:08	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°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 ARIKIAN (IPC)	5/24/20	09:08
Received by	RM PCL	5/24/20	1412
Relinquished by			
Received by			
~~Relinquished by~~			
Received in lab by	RM PCL	5/24/2020	1553

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

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
Grab
Comp

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

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

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

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-Jun-20 15:37
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0502-01) Collected: 25-May-20 By Rem of PCL							
Microbiological							
Fecal Coliforms	SM 9221E	AE02530	1.8	25-May-20	27-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE02530	1.8	25-May-20	27-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE02730	0.1	25-May-20	25-May-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE02627	0.05	26-May-20	26-May-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 6/5/2020
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.#: 20E0502

(MCC) EFF - Daily

Customer: IPC - Integrated Performance Consultants, Inc.

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	5/25/20	9:50	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	Mario Aguirre (IPC)	5/25/20	1000
Received by	Alex Walker Jr	5/25/20	1000
Relinquished by			
Received by			
Relinquished by	JR (ACL)	5/25/20	12:30
Received by	RM PCL	5/25/20	12:30

Sample Received Checklist

Temperature upon receipt: _____

# of bottles agrees with COC? Yes No

Samples intact? Yes No

Samples properly preserved? Yes No

Samples in holding time? Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type: Grab, Comp

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

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

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

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

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-Jun-20 15:39
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0518-01) Collected: 26-May-20 By Golan Kfir of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AE02631	1.8	26-May-20	28-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE02631	1.8	26-May-20	28-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE02730	0.1	26-May-20	26-May-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE02727	0.05	27-May-20	27-May-20	**0.13 mg/l**	

Notes and Definitions

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

Respectfully Submitted,

Steve Jefferson 6/5/2020
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.#: 20E0518

(MCC) EFF - Daily

Customer: IPC - Integrated Performance Consultants, Inc.		Project :	
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	5/26/20	11:45	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
MAY 26 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name	(Company)	Date	Time
Relinquished by: GK	Golan	IPC	5/26/20	11:50
Received by: EG	Golan	IPC	5/26/20	11:50
Relinquished by: EG	Golan	IPC	5/26/20	12:45
Received by:				
Relinquished by:				
Received by:		MAY 26 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
(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: 02-Jun-20 21:48
Subject: (MCC) Weekly INF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20E0555-01) Collected: 26-May-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AE02828	1	28-May-20	28-May-20	**255 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AE02826	2	28-May-20	02-Jun-20	**299 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 6/2/2020
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.#: 20E0555

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	05/26/20	0000	1	TSS	Comp	AQ	1L P	4°C	7.54 / 18.42
〃	〃	〃	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
MAY 27 2020
By

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

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (SPC)	05/27/20	11:55
Received by		Amanda Ochoa (Waterbase)	5/27/20	11:55
Relinquished by		Amanda Ochoa (Waterbase)	5/27/20	14:25
Received by				
Relinquished by				
Received in lab by		MAY 27 2020		1424

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

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

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
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-Jun-20 15:42
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0550-01) Collected: 27-May-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AE02725	1.8	27-May-20	29-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE02725	1.8	27-May-20	29-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE02824	0.1	27-May-20	27-May-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE02825	0.05	28-May-20	28-May-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 6/5/2020
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.#: 20E0550

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	05/27/20	1100	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.44/20.6°C
1	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
MAY 27 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (3PC)	05/27/20	11:55
Received by		[illegible]	5/27/20	11:55
Relinquished by		[illegible]	5/27/20	14:05
Received by				
Relinquished by				
Received in lab by		MAY 27 2020		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
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: 05-Jun-20 14:29
Subject: (MCC) Weekly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0556-01) Collected: 27-May-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AE02828	1	28-May-20	28-May-20	**2 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AE02822	0.10	28-May-20	29-May-20	**0.59 mg/l**	
Nitrate as N	EPA 353.2	AE02821	0.02	28-May-20	28-May-20	**<0.02 mg/l**	
Nitrite as N	EPA 353.2	AE02821	0.02	28-May-20	28-May-20	**<0.02 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AF00345	0.20	03-Jun-20	05-Jun-20	**1.11 mg/l**	
EFF (Sample I.D.# : 20E0556-02) Collected: 26-May-20 By Carlos A. of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AE02826	2	28-May-20	02-Jun-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 6/5/2020
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.#: 20E0556

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	05/27/20	1100	1	TSS	Grab	AQ	1L P	4°C	7.44/20.6°C
"	"	"	1	Ammonia, TKN	Grab	AQ	500 P	4°C	
"	"	"	1	Nitrate, Nitrite	Grab	AQ	250 P	4°C	
"	05/26/20	0000	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
MAY 27 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	05/27/20	11:55
Received by		Hermelo Chavez (Pat-Chem)	5/27/20	11:55
Relinquished by		Hermelo Chavez (Pat-Chem)	5/27/20	11:55
Received by				
Relinquished by				
Received in Lab by		MAY 27 2020		1421

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: 05-Jun-20 15:45
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0576-01) Collected: 28-May-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AE02823	1.8	28-May-20	30-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE02823	1.8	28-May-20	30-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE02907	0.1	28-May-20	28-May-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE02908	0.05	29-May-20	29-May-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 6/5/2020
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.#: 20E0576

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	05/28/20	1130	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.66/27.6°C
1	(	(	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
MAY 28 2020
BY

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by:		Carlos Alvarez (GPI)	05/28/20	11:40
Received by		ARMANDO ALVAREZ (GPI)	5/28/20	11:40
Relinquished by		ARMANDO ALVAREZ (GPI)	5/28/20	14:35
Received by				
Relinquished by				
Received by		MAY 28 2020		1432

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

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

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

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
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-Jun-20 15:47
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0596-01) Collected: 29-May-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AE02906	1.8	29-May-20	31-May-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE02906	1.8	29-May-20	31-May-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE03008	0.1	29-May-20	29-May-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE03005	0.05	30-May-20	30-May-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 6/5/2020
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.#: 20E0596

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	05/29/20	1105	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
1	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
MAY 29 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Aiyam (IPC)	05/29/20	12:40PM
Received by		Jaird Menjivar	5/29/20	12:40PM
Relinquished by		Jaird Menjivar	5/29/20	14:20
Received by				
Relinquished by				
Received in lab by		MAY 29 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.

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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: 05-Jun-20 15:49
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0607-01) Collected: 30-May-20 By MA of PCL							
Microbiological							
Fecal Coliforms	SM 9221E	AE03004	1.8	30-May-20	01-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE03004	1.8	30-May-20	01-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AE03106	0.1	30-May-20	30-May-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AE03105	0.05	31-May-20	31-May-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 6/5/2020
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.#: 2050607

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 #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	5/30/20	9:30	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
MAY 30 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Mario Aguirre (IPC)	5/30/20	10:15
Received by	Alex Walker Jr.	5/30/20	10:15
Relinquished by			
Received by			
Relinquished by			
Received by	MAY 30 2020		1321

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; S - 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: 05-Jun-20 15:52
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20E0611-01) Collected: 31-May-20 By MA of PCL							
Microbiological							
Fecal Coliforms	SM 9221E	AE03104	1.8	31-May-20	02-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AE03104	1.8	31-May-20	02-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF00335	0.1	31-May-20	31-May-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF00132	0.05	01-Jun-20	01-Jun-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 6/5/2020
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.#: 20E0611

Customer: IPC - Integrated Performance Consultants, Inc.		**Project:** (MCC) EFF - Daily	
Address: 9297 Research Drive		**Sampled by:** VICTOR ARIKIAN	**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	5/31/20	09:26	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°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 ARIKIAN (IPC)	5/31/20	09:26
Received by	RM	PCL	5/31/20	1410
Relinquished by				
Received by				
Relinquished by				
Received in lab by	RM	PCL	5/31/2020	1559

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	**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	

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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: 05-Jun-20 15:54
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0019-01) Collected: 01-Jun-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AF00134	1.8	01-Jun-20	03-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF00134	1.8	01-Jun-20	03-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF00335	0.1	01-Jun-20	01-Jun-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF00221	0.10	02-Jun-20	02-Jun-20	**1.2 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 6/5/2020
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.#: 20F0019

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	06/01/20	1115	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

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JUN 01 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Golan Kfir (IPC)	06/01/20	1200
Received by	EG	Evan G (PCL)	6/1/20	1200
Relinquished by	EG	Evan G (PCL)	6.1.20	1405
Received by				
Relinquished by				
Received in lab by		JUN 01 2020		1513

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: 05-Jun-20 15:56
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0061-01) Collected: 02-Jun-20 By GK							
Microbiological							
Fecal Coliforms	SM 9221E	AF00230	1.8	02-Jun-20	04-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF00230	1.8	02-Jun-20	04-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF00335	0.1	02-Jun-20	02-Jun-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF00334	0.05	03-Jun-20	03-Jun-20	**0.29 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 6/5/2020
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.#: 20f0061

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	6/2/20	11:40	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

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JUN 02 2020
By

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

Signature	Print Name	(Company)	Date	Time
Relinquished by: Gk	Golan	IPC	6/2/20	11:45
Received by:	Jairo	Mensiver	6/2/20	12:30p
Relinquished by:	Jairo	Mensiver	6/2/20	15:00
Received by:				
Relinquished by:				
Received in lab by:		JUN 02 2020		1437

Sample Received Checklist

Temperature upon receipt: 4 °C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
(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: 05-Jun-20 15:59
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0104-01) Collected: 03-Jun-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AF00333	1.8	03-Jun-20	05-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF00333	1.8	03-Jun-20	05-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF00350	0.1	03-Jun-20	03-Jun-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF00348	0.05	03-Jun-20	03-Jun-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 6/5/2020
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.#: 20f0104

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	06/03/20	1155	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
1	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUN 03 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	06/03/20	12:40
Received by		Jairo Menjivar	6/3/20	12:40
Relinquished by		Jairo Menjivar	6/3/20	15:00
Received by				
Relinquished by				
Received in Lab		JUN 03 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.

Rev 2 Effective 5/1/17

PAT-CHEM
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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: 15-Jun-20 15:56
Subject: (MCC) Monthly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0108-01) Collected: 03-Jun-20 By Carlos A. of IPC							
Physical Properties							
Total Dissolved Solids	SM 2540C	AF00823	5	08-Jun-20	10-Jun-20	**972 mg/l**	
Inorganic Constituents							
Chloride	EPA 300.0	AF00822	25.0	08-Jun-20	08-Jun-20	**297 mg/l**	
Sulfate as SO4	EPA 300.0	AF00822	12.5	08-Jun-20	08-Jun-20	**256 mg/l**	
Boron	EPA 200.7	AF00503	0.10	05-Jun-20	08-Jun-20	**0.49 mg/l**	
Phosphorus, Total as P	EPA 365.3	AF00604	0.02	06-Jun-20	06-Jun-20	**0.39 mg/l**	
Aggregate Organic Constituents							
MBAS	SM 5540 C	AF00351	0.20	03-Jun-20	04-Jun-20	**<0.20 mg/l**	
Oil & Grease (HEM)	EPA 1664A	AF00821	5	08-Jun-20	08-Jun-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 6/15/2020
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.#: 20f0/08

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	06/03/20	1215	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									

RECEIVED
JUN 03 2020
By

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	06/03/20	12:40PM
Received by		Jairo Mendivar	6/3/20	12:40PM
Relinquished by		Jairo Mendivar	6/3/20	1500
Received by				
Relinquished by				
Received in lobby by		JUN 03 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
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: 15-Jun-20 16:02
Subject: (MCC) Weekly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0107-01) Collected: 03-Jun-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AF00504	1	05-Jun-20	05-Jun-20	**1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AF00434	0.10	04-Jun-20	04-Jun-20	**<0.10 mg/l**	
Nitrate as N	EPA 353.2	AF00423	0.02	04-Jun-20	04-Jun-20	**<0.02 mg/l**	
Nitrite as N	EPA 353.2	AF00423	0.02	04-Jun-20	04-Jun-20	**<0.02 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AF00816	0.50	08-Jun-20	09-Jun-20	**3.24 mg/l**	
EFF (Sample I.D.# : 20F0107-02) Collected: 02-Jun-20 By Carlos A. of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AF00432	2	04-Jun-20	09-Jun-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 6/15/2020
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.#: 20f0107

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	06/03/20	115T	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	
"	06/02/20	0000	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
JUN 03 2020
By

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

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	06/03/20	12:40pm
Received by		Jairo Mendivar	6/3/20	12:40pm
Relinquished by		Jairo Mendivar	6/3/20	1500
Received by				
Relinquished by				
Received by Lab		JUN 03 2020		1442

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____

Final Flow _____

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

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

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

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

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

Attention: Ric Vardel
Report Date: 15-Jun-20 16:05
Subject: (MCC) Weekly INF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20F0106-01) Collected: 03-Jun-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AF00504	1	05-Jun-20	05-Jun-20	**172 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AF00432	2	04-Jun-20	09-Jun-20	**186 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 6/15/2020
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.#: 20F0106

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	06/02/20	0000	1	TSS	Comp	AQ	1L P	4°C	
"	"	"	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
JUN 03 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	06/03/20	12:40PM
Received by		Jairo Menjivar	6/3/20	12:40PM
Relinquished by		Jairo Menjivar	6/3/20	
Received by				
Relinquished by				
Received by		JUN 03 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.

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-Jun-20 13:36
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0133-01) Collected: 04-Jun-20 By Golan Kfir of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AF00431	1.8	04-Jun-20	06-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF00431	1.8	04-Jun-20	06-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF00436	0.1	04-Jun-20	04-Jun-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF00435	0.05	04-Jun-20	04-Jun-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 6/8/2020
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.#: 20F0133

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	6/4/20	12:30	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUN 04 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: GK	Golan IPC	6/4/20	12:30
Received by: EG	Grant PL	6.4.20	1230
Relinquished by: EG	Grant PL	6.4.20	1400
Received by:			
Relinquished by:			
Received at Lab by:	JUN 04 2020		1505

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	Preservations
(Grab)	(AQ) - Water	(P) - Plastic	HC - HCl
Comp	SO - Soil / Sludge	G - Amber Glass	HS - H_2SO_4
	OT - Other	VOA - 40 ml Vial	HN - HNO_3
		(Coli) - bacteria	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: 08-Jun-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.# : 20F0153-01) Collected: 05-Jun-20 By C. A.							
Microbiological							
Fecal Coliforms	SM 9221E	AF00506	1.8	05-Jun-20	07-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF00506	1.8	05-Jun-20	07-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF00607	0.1	05-Jun-20	05-Jun-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF00609	0.05	06-Jun-20	06-Jun-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 6/8/2020
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

2 of 2 | 53

San
(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	06/05/20	1110	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.67/23.2
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
1	1	1							

RECEIVED
JUN 05 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	06/05/20	17:00
Received by		Armando Olmos (Pat-Chem)	6/5/20	12:00
Relinquished by		Armando Olmos (Pat-Chem)	6/5/20	14:20
Received by				
Relinquished by				
Received by		JUN 05 2020		1437

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
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.

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: 15-Jun-20 15:41
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0160-01) Collected: 06-Jun-20 By Mario Aguirre							
Microbiological							
Fecal Coliforms	SM 9221E	AF00606	1.8	06-Jun-20	09-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF00606	1.8	06-Jun-20	09-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF00723	0.1	06-Jun-20	06-Jun-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF00722	0.05	07-Jun-20	07-Jun-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 6/15/2020
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.#: 20F0160

Customer: IPC - Integrated Performance Consultants, Inc.

Project: ~~MCAF~~ M.A. **(MCC) EFF - Daily**

Address: 9297 Research Drive, Irvine, CA 92618

Sampled by: Mario Aguirre

Report Attention: Ric Vardel / Golan Kfir

P.O. #:

Phone #: 949-382-9067

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	6/6/20	9:41	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUN 06 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Mario Aguirre (IPC)	6/6/20	1200
Received by	Alex Walker Jr.	6/6/20	1200
Relinquished by	Alex Walker Jr.	6/6/20	1405
Received by			
Relinquished by			
Received by	JUN 06 2020		1405

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC? (Yes) No

Samples intact? (Yes) No

Samples properly preserved? (Yes) No

Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
(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: 15-Jun-20 15:43
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0164-01) Collected: 07-Jun-20 By Rem of PCL							
Microbiological							
Fecal Coliforms	SM 9221E	AF00721	1.8	07-Jun-20	09-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF00721	1.8	07-Jun-20	09-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF01034	0.1	07-Jun-20	07-Jun-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF00817	0.05	08-Jun-20	08-Jun-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 6/15/2020
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.#: 20F0164

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	6/7/20	10:29	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		VICTOR ARIKIAN (IPC)	6/7/20	10:29
Received by				
Relinquished by				
Received by		RM PCL	6/7/20	1437
Relinquished by				
Received in lab by		RM PCL	6/7/2020	1710

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 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: 15-Jun-20 15:45
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0178-01) Collected: 08-Jun-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AF00828	1.8	08-Jun-20	10-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF00828	1.8	08-Jun-20	10-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF01034	0.1	08-Jun-20	08-Jun-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF00940	0.05	09-Jun-20	09-Jun-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 6/15/2020
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.#: 20F0178

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	06/08/20	1125	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.70/25.2°C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUN 08 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	06/08/20	11:35
Received by		Armando Cruz (Patchem)	6/8/20	11:35
Relinquished by		Armando Cruz (Patchem)	6/8/20	15:10
Received by				
Relinquished by				
Received by		JUN 08 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: 15-Jun-20 15:48
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0197-01) Collected: 09-Jun-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AF00937	1.8	09-Jun-20	11-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF00937	1.8	09-Jun-20	11-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF01034	0.1	09-Jun-20	09-Jun-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF01032	0.05	10-Jun-20	10-Jun-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 6/15/2020
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.#: 20F0197

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: (Field) Lab
EFF	06/09/20	1120	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.71/20.5°C
1	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

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JUN 09 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Rivera (IPC)	6/09/20	12:00
Received by		Armando Chavez (Pats)	6/9/20	12:00
Relinquished by		Armando Chavez (Pats)	6/9/20	14:20
Received by				
Relinquished by				
Received by		JUN 09 2020		1423

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: 15-Jun-20 15:50
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0246-01) Collected: 10-Jun-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AF01030	1.8	10-Jun-20	12-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF01030	1.8	10-Jun-20	12-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF01139	0.1	10-Jun-20	10-Jun-20	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF01046	0.05	10-Jun-20	10-Jun-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 6/15/2020
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.#: 20F0246

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	06/10/20	1115	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.75/16.9°C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUN 10 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Carlos Alvarez (IPC)	06/10/20	17:30
Received by	[illegible]	6/10/20	12:30
Relinquished by	[illegible]	6/10/20	17:75
Received by			
Relinquished by			
Received by	JUN 10 2020		1451

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: 22-Jun-20 15:42
Subject: (MCC) Weekly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0250-01) Collected: 10-Jun-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AF01136	1	11-Jun-20	11-Jun-20	**1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AF01205	0.10	12-Jun-20	12-Jun-20	**0.18 mg/l**	
Nitrate as N	EPA 353.2	AF01143	0.02	11-Jun-20	11-Jun-20	**<0.02 mg/l**	
Nitrite as N	EPA 353.2	AF01143	0.02	11-Jun-20	11-Jun-20	**<0.02 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AF01135	0.10	11-Jun-20	12-Jun-20	**0.51 mg/l**	
EFF (Sample I.D.# : 20F0250-02) Collected: 09-Jun-20 By Carlos A. of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AF01137	2	11-Jun-20	16-Jun-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 6/22/2020
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.#: 20F0250

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	06/10/20	1115	1	TSS	Grab	AQ	1L P	4°C	7.75 / 26.8
	"	"	1	Ammonia, TKN	Grab	AQ	500 P	4°C	
	"	"	1	Nitrate, Nitrite	Grab	AQ	250 P	4°C	
	06/09/20	0000	1	BOD	Comp	AQ	1L P	4°C	

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JUN 10 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	06/10/20	17:30
Received by		Hermoso Cruz Peters	6/10/20	17:30
Relinquished by		Hermoso Cruz Peters	6/11/20	11:35
Received by				
Relinquished by				
Received in lab by		JUN 10 2020		1502

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: 22-Jun-20 15:46
Subject: (MCC) Weekly INF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20F0249-01) Collected: 10-Jun-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AF01136	1	11-Jun-20	11-Jun-20	**211 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AF01137	2	11-Jun-20	16-Jun-20	**210 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 6/22/2020
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.#: 20F0249

Customer:	IPC - Integrated Performance Consultants, Inc.	Project :	(MCC) INF - Weekly
Address:	9297 Research Drive	Sampled by:	C.
	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	06/09/20	0000	1	TSS	Comp	AQ	1L P	4°C	7.41 / 20.5°C
"	"	"	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
JUN 10 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	06/10/20	1230
Received by		Armando Olmos (Patchem)	6/10/20	1230
Relinquished by		Armando Olmos (Patchem)	6/10/20	1435
Received by				
Relinquished by				
Received in lab by		JUN 10 2020		1500

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.

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: 15-Jun-20 15:53
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0266-01) Collected: 11-Jun-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AF01138	1.8	11-Jun-20	13-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF01138	1.8	11-Jun-20	13-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF01210	0.1	11-Jun-20	11-Jun-20	**8.0 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF01209	0.05	12-Jun-20	12-Jun-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 6/15/2020
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.#: 20F0266

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	06/11/20	1025	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	8.02/14.1°C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
1	1	1							

RECEIVED
JUN 11 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	06/11/20	11:45
Received by		Hermanos Cano (Pat-Chem)	6/11/20	11:45
Relinquished by		Hermanos Cano (Pat-Chem)	6/11/20	13:30
Received by				
Relinquished by				
Received by		JUN 11 2020		1152

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: 22-Jun-20 15:16
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0284-01) Collected: 12-Jun-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AF01208	1.8	12-Jun-20	14-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF01208	1.8	12-Jun-20	14-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF01218	0.1	12-Jun-20	12-Jun-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF01304	0.05	13-Jun-20	13-Jun-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 6/22/2020
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.#: 20F0284

(MCC) EFF - Daily

Customer: IPC - Integrated Performance Consultants, Inc.		Project :	
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	06/12/20	1130	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
1	1	1	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUN 12 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (CPL)	06/12/20	12:05
Received by		Juan Vasquez (PCL)	6/12/20	12:05
Relinquished by		Juan Vasquez (PCL)	6/12/20	13:00
Received by				
Relinquished by				
Received by		JUN 12 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	Matrix	Bottle Type	Preservations
(Grab) Comp	(AQ) - Water SO -Soil / Sludge OT - Other	(P) - Plastic G - Amber Glass VOA - 40 ml Vial (Coli) - bacteria	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: 22-Jun-20 15:19
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0301-01) Collected: 13-Jun-20 By Mario Aguirre							
Microbiological							
Fecal Coliforms	SM 9221E	AF01305	1.8	13-Jun-20	16-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF01305	1.8	13-Jun-20	16-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF01309	0.1	13-Jun-20	13-Jun-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF01306	0.05	13-Jun-20	13-Jun-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 6/22/2020
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.#: 2050301

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	6/13/20	9:40	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	6/13/20	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Mario Aguirre (IPC)	6/13/20	11:00AM
Received by		Jairo Menjivar	6/13/20	11:00AM
Relinquished by		Jairo Menjivar	6/13/20	12:00PM
Received by				
Relinquished by				
Received in lab by		Jordan Corkery	6/13/20	1200

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

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	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: 22-Jun-20 15:25
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0306-01) Collected: 14-Jun-20 By VA							
Microbiological							
Fecal Coliforms	SM 9221E	AF01418	1.8	14-Jun-20	16-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF01418	1.8	14-Jun-20	16-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF01729	0.1	14-Jun-20	14-Jun-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF01629	0.05	15-Jun-20	15-Jun-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 6/22/2020
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.#: 20F0306

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: VICTOR ARIKIAN 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	6/14/20	09:29	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°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 ARIKIAN (IPC)	6/14/20	09:29
Received by		Alex Walker Jr	6/14/20	12:00
Relinquished by		Alex Walker Jr	6/14/20	1500
Received by				
Relinquished by				
Received in lab by		(PCL)	6/14/20	1602

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

Sample Received Checklist

Temperature upon receipt: _____

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

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

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

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

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

Rev 2 Effective 5/1/17

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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: 22-Jun-20 15:28
Subject: (MCC) Daily EFF

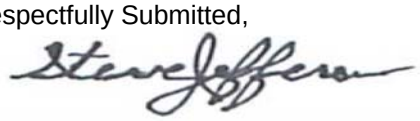
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0315-01) Collected: 15-Jun-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AF01536	1.8	15-Jun-20	17-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF01536	1.8	15-Jun-20	17-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF01729	0.1	15-Jun-20	15-Jun-20	**7.8 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF01629	0.05	16-Jun-20	16-Jun-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,



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Laboratory Director

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CHAIN OF CUSTODY RECORD

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

Environmental Sample

Sample I.D.#: ZWF0315

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	06/15/20	1155	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.76/22.1 °C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUN 15 2020
By

RECEIVED
JUN 15 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Rivera (IPC)	06/15/20	12:55
Received by		ACHIEVES OVERNIGHT	6/15/20	12:55
Relinquished by		ACHIEVES OVERNIGHT	6/15/20	14:35
Received by				
Relinquished by				
Received in lab		JUN 15 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.

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

Attention: Ric Vardel
Report Date: 22-Jun-20 15:31
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0355-01) Collected: 16-Jun-20 By VA							
Microbiological							
Fecal Coliforms	SM 9221E	AF01630	1.8	16-Jun-20	18-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF01630	1.8	16-Jun-20	18-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF01729	0.1	16-Jun-20	16-Jun-20	**6.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF01728	0.05	17-Jun-20	17-Jun-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 6/22/2020
Laboratory Director

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San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

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Environmental Sample

Sample I.D.#: 20F0355

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	6/16/20	12:10	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	6.72/13.4°C
	11	11	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUN 16 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	VICTOR ARIKIAN (IPC)	6/16/20	12:10
Received by	Hemmerson Courier (Driver)	6/16/20	13:20
Relinquished by	Hemmerson Courier	6/16/20	15:00
Received by			
Relinquished by			
Received by	JUN 16 2020		1341

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

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

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
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
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Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 24-Jun-20 15:19
Subject: (MCC) Weekly INF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20F0385-01) Collected: 16-Jun-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AF01831	1	18-Jun-20	18-Jun-20	**140 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AF01836	2	18-Jun-20	23-Jun-20	**338 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 6/24/2020
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.#: 20F0385

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	06/16/20	0000	1	TSS	Comp	AQ	1L P	4°C	7.39 / 18.7°C
"	"	"	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
JUN 17 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (SPE)	06/17/20	17:35
Received by		Armando Olivas (IPC)	6/17/20	17:35
Relinquished by		Armando Olivas (IPC)	6/17/20	15:10
Received by				
Relinquished by				
Received by		JUN 17 2020		1512

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	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: 22-Jun-20 15:34
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0388-01) Collected: 17-Jun-20 By VA							
Microbiological							
Fecal Coliforms	SM 9221E	AF01726	1.8	17-Jun-20	19-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF01726	1.8	17-Jun-20	19-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF01834	0.1	17-Jun-20	17-Jun-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF01833	0.05	18-Jun-20	18-Jun-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 6/22/2020
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.#: 20F0388

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	06/17/20	1145	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.40 / 24.3°C
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

RECEIVED
JUN 17 2020
By

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez Cabral	06/17/20	17:35
Received by		Armando Alvarez Cabral	6/17/20	17:35
Relinquished by		Armando Alvarez Cabral	6/17/20	15:10
Received by				
Relinquished by				
Received by		JUN 17 2020		1517

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

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

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
(ST) - Sodium Thiosulfate
AA - Ascorbic Acid
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: 24-Jun-20 15:13
Subject: (MCC) Weekly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0384-01) Collected: 17-Jun-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AF01831	1	18-Jun-20	18-Jun-20	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AF01830	0.10	18-Jun-20	18-Jun-20	**<0.10 mg/l**	
Nitrate as N	EPA 353.2	AF01828	0.02	18-Jun-20	18-Jun-20	**<0.02 mg/l**	
Nitrite as N	EPA 353.2	AF01828	0.02	18-Jun-20	18-Jun-20	**<0.02 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AF02223	0.10	22-Jun-20	23-Jun-20	**1.05 mg/l**	
EFF (Sample I.D.# : 20F0384-02) Collected: 16-Jun-20 By Carlos A. of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AF01836	2	18-Jun-20	23-Jun-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 6/24/2020
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.#: 20F0384

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	06/16/20	1145	1	TSS	Grab	AQ	1L P	4°C	7.40/20.7°C
"	"	"	1	Ammonia, TKN	Grab	AQ	500 P	4°C	
"	"	"	1	Nitrate, Nitrite	Grab	AQ	250 P	4°C	
"	06/16/20	0000	1	BOD	Comp	AQ	1L P	4°C	

RECEIVED
JUN 17 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Cates Alvarez (IPC)	06/17/20	12:35
Received by		[illegible] (Pat-Chem)	6/17/20	12:35
Relinquished by		[illegible] (Pat-Chem)	6/17/20	15:08
Received by				
Relinquished by				
Received by		JUN 17 2020		1508

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
Grab
Comp

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

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

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

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

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

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

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

Attention: Ric Vardel
Report Date: 22-Jun-20 15:36
Subject: (MCC) Daily EFF

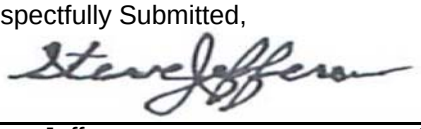
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0419-01) Collected: 18-Jun-20 By Golan Kfir of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AF01832	1.8	18-Jun-20	20-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF01832	1.8	18-Jun-20	20-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF01908	0.1	18-Jun-20	18-Jun-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF01906	0.05	19-Jun-20	19-Jun-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 6/22/2020
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.#: 20F0419

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	6/18/20	11:20	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUN 18 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: GK	Golan IPC	6/18/20	11:46
Received by: Juan Vasquez	Juan Vasquez (PCL)	6/18/20	11:46
Relinquished by: Juan Vasquez	Juan Vasquez (PCL)	6/18/20	13:30
Received by:			
Relinquished by:			
Received by:	JUN 18 2020		1415

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
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: 22-Jun-20 15:38
Subject: (MCC) Daily EFF

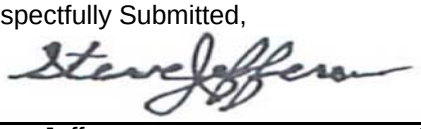
Project/P.O.#: (MCC) Daily EFF

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0446-01) Collected: 19-Jun-20 By Golan Kfir of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AF01905	1.8	19-Jun-20	21-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF01905	1.8	19-Jun-20	21-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF02006	0.1	19-Jun-20	19-Jun-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF01917	0.05	19-Jun-20	19-Jun-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 6/22/2020
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.#: 20FO446

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	06/19/20	1130	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.51/25.4°C
	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

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JUN 19 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (ZPE)	06/19/20	11:40
Received by		Francisco Cervantes (ZPE)	6/19/20	11:40
Relinquished by		Francisco Cervantes (ZPE)	6/19/20	1240
Received by				
Relinquished by				
Received in Lab		JUN 19 2020		1333

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
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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: 23-Jun-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.# : 20F0462-01) Collected: 20-Jun-20 By Mario Aguirre							
Microbiological							
Fecal Coliforms	SM 9221E	AF02005	1.8	20-Jun-20	22-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF02005	1.8	20-Jun-20	22-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF02122	0.1	20-Jun-20	20-Jun-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF02120	0.05	21-Jun-20	21-Jun-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 6/23/2020
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.#: 20F0462-

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	6/20/20	9:48	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUN 20 2020
By JC

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Mario Aguirre (IPC)	6/20/20	11:00
Received by		Jairo Mendivar	6/20/20	11:00
Relinquished by		Jairo Mendivar	6/20/20	12:05
Received by				
Relinquished by				
Received in lab by		Jordan Corkery	6/20/20	1205

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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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-Jun-20 13:02
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0467-01) Collected: 21-Jun-20 By Victor Arikian							
Microbiological							
Fecal Coliforms	SM 9221E	AF02121	1.8	21-Jun-20	23-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF02121	1.8	21-Jun-20	23-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF02122	0.1	21-Jun-20	21-Jun-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF02120	0.05	21-Jun-20	21-Jun-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 6/23/2020
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.#: 20F0467

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	6/21/20	08:37	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	〃	〃	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

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JUN 21 2020

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	VICTOR ARIKIAN (IPC)	6/21/20	08:37
Received by	Alex Walkon Sr	6/21/20	09:30
Relinquished by	Alex Walkon JR	6/21/20	10:15
Received by			
Relinquished by			
Received by	JUN 21 2020		09:32

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: 24-Jun-20 15:11
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0480-01) Collected: 22-Jun-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AF02230	1.8	22-Jun-20	24-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF02230	1.8	22-Jun-20	24-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF02429	0.1	22-Jun-20	22-Jun-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF02319	0.05	23-Jun-20	23-Jun-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 6/24/2020
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.#: 20F0480

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

Customer: 9297 Research Drive		Project :	
Address: 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	06/22/20	1130	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.55 / 24.4°C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	
1	1	1							

RECEIVED
JUN 22 2020

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (GPC)	06/22/20	11:45
Received by		Hernando Alvarez	6/22/20	11:45
Relinquished by		Hernando Alvarez	6/22/20	14:00
Received by				
Relinquished by				
Received in lab		JUN 22 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
(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: 29-Jun-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.# : 20F0495-01) Collected: 23-Jun-20 By Victor Arikian							
Microbiological							
Fecal Coliforms	SM 9221E	AF02329	1.8	23-Jun-20	25-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF02329	1.8	23-Jun-20	25-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF02429	0.1	23-Jun-20	23-Jun-20	**7.4 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF02430	0.05	24-Jun-20	24-Jun-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 6/29/2020
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.#: 20F0495

Customer: IPC - Integrated Performance Consultants, Inc.		Project : (MCC) EFF - Daily	
Address: 9297 Research Drive, Irvine, CA 92618		Sampled by: VICTOR ARSKIAN	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	6/23/20	11:17	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.43 / 22.6°C
	11	11	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

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JUN 23 2020
By

RECEIVED
JUN 23 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	VICTOR ARSKIAN (IPC)	6/23/20	11:17
Received by	Fernando Olmos (Pat-Chem)	6/23/20	12:00
Relinquished by	Fernando Olmos (Pat-Chem)	6/23/20	14:46
Received by			
Relinquished by			
Received in lab by	JUN 23 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: (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: 14-Jul-20 15:27
Subject: (MCC) Weekly INF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20F0514-01) Collected: 23-Jun-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AF02532	1	25-Jun-20	25-Jun-20	**176 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AF02539	2	25-Jun-20	30-Jun-20	**316 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 7/14/2020
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.#: 20F0514

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	06/23/20	0000	1	TSS	Comp	AQ	1L P	4°C	6.98/17.1°C
	1	1	1	BOD	Comp	AQ	1L P	4°C	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	06/24/20	1220
Received by		Armando Olmos (Spl)	6/24/20	1220
Relinquished by		Armando Olmos (Spl)	6/24/20	1445
Received by	EG	Guard	6.24.20	1500
Relinquished by				
Received in lab by	EG		6.24.20	1500

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.

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

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

Attention: Ric Vardel
Report Date: 29-Jun-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.# : 20F0516-01) Collected: 24-Jun-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AF02428	1.8	24-Jun-20	26-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF02428	1.8	24-Jun-20	26-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF02440	0.1	24-Jun-20	24-Jun-20	**7.2 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF02441	0.05	24-Jun-20	24-Jun-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 6/29/2020
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.#: 20F0516

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	06/24/20	1155	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.20/24.8°C
			1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUN 24 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (CPC)	06/24/20	12:20
Received by		Alejandro Chavez (CPC)	6/24/20	12:20
Relinquished by		Alejandro Chavez (CPC)	6/24/20	14:45
Received by				
Relinquished by				
Received by		JUN 24 2020		14:45

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	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: 14-Jul-20 15:25
Subject: (MCC) Weekly EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0515-01) Collected: 24-Jun-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AF02532	1	25-Jun-20	25-Jun-20	**<1 mg/l**	
Inorganic Constituents							
Ammonia as N	EPA 350.1	AF02913	0.10	29-Jun-20	29-Jun-20	**0.23 mg/l**	
Nitrate as N	EPA 353.2	AF02531	0.02	25-Jun-20	25-Jun-20	**0.23 mg/l**	
Nitrite as N	EPA 353.2	AF02531	0.02	25-Jun-20	25-Jun-20	**<0.02 mg/l**	
Total Kjeldahl Nitrogen	EPA 351.2	AF02912	0.10	29-Jun-20	30-Jun-20	**0.77 mg/l**	
EFF (Sample I.D.# : 20F0515-02) Collected: 23-Jun-20 By Carlos A. of IPC							
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AF02539	2	25-Jun-20	30-Jun-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 7/14/2020
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.#: 20F0515

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	06/24/20	1155	1	TSS	Grab	AQ	1L P	4°C	7.30/24.2°C
			1	Ammonia, TKN	Grab	AQ	500 P	4°C	
			1	Nitrate, Nitrite	Grab	AQ	250 P	4°C	
	06/23/20	0000	1	BOD	Comp	AQ	1L P	4°C	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	06/24/20	12:20
Received by		[illegible]	6/24/20	12:20
Relinquished by		[illegible]	6/24/20	14:45
Received by	EG	Golan G. pcl	6.24.20	1505
Relinquished by				
Received in lab by	EG	[illegible] pcl	6.24.20	1505

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
Grab
Comp

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

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

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

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

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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: 14-Jul-20 15:12
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0548-01) Collected: 25-Jun-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AF02536	1.8	25-Jun-20	27-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF02536	1.8	25-Jun-20	27-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF02540	0.1	25-Jun-20	25-Jun-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF02541	0.05	25-Jun-20	25-Jun-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 7/14/2020
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.#: 20F0548

(MCC) EFF - Daily

Customer: IPC - Integrated Performance Consultants, Inc.

Project :

Address: 9297 Research Drive, Irvine, CA 92618

Sampled by: C. Vardel

Report Attention: 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	06/25/20	1255	1	1 pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	1 Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUN 25 2020
B

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Vardel	Carlos Alvarez (IPC)	06/25/20	1320
Received by	EB	Eva G. (pcl)	6/25/20	1300
Relinquished by	EB	Eva G. (pcl)	6/25/20	1400
Received by				
Relinquished by				
Received by		JUN 25 2020		1432

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC? Yes No

Samples intact? Yes No

Samples properly preserved? Yes No

Samples in holding time? Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

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

Bottle Type
P - Plastic
G - Amber Glass
VOA - 40 ml Vial
Col - 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
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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: 14-Jul-20 15:14
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0567-01) Collected: 26-Jun-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AF02609	1.8	26-Jun-20	28-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF02609	1.8	26-Jun-20	28-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF02706	0.1	26-Jun-20	26-Jun-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF02614	0.05	26-Jun-20	26-Jun-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 7/14/2020
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.#: 20F0567

(MCC) EFF - Daily

Customer: IPC - Integrated Performance Consultants, Inc.		Project :	
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	06/26/20	1030	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.95 / 22.1°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		Carlos Alvarez (IPC)	06/26/20	17:10
Received by		[illegible]	6/26/20	17:10
Relinquished by		[illegible]	6/26/20	17:10
Received by				
Relinquished by				
Received in lab by		MARIO SANTESTEBAN (PCL)	6/26/20	1310

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type	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: 14-Jul-20 15:16
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0574-01) Collected: 27-Jun-20 By Mario Aguirre							
Microbiological							
Fecal Coliforms	SM 9221E	AF02705	1.8	27-Jun-20	30-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF02705	1.8	27-Jun-20	30-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF02710	0.1	27-Jun-20	27-Jun-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF02820	0.05	28-Jun-20	28-Jun-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 7/14/2020
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.#: 20F0574

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	6/27/20	9:50	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total Coliform, Fecal Coliform	Grab	AQ	Coli	ST	

RECEIVED
JUN 27 2020
By JC

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Mario Aguirre (IPC)	6/27/20	11:30am
Received by		Jairo Meniver	6/27/20	11:30am
Relinquished by		Jairo Meniver	6/27/20	12:20pm
Received by				
Relinquished by				
Received in lab by		Jordan Corkery	6/27/20	1220

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

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
(Grab)
Comp

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

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

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

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

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

Attention: Ric Vardel
Report Date: 14-Jul-20 15:18
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0579-01) Collected: 28-Jun-20 By Mario Aguirre							
Microbiological							
Fecal Coliforms	SM 9221E	AF02819	1.8	28-Jun-20	30-Jun-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF02819	1.8	28-Jun-20	30-Jun-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AF02823	0.1	28-Jun-20	28-Jun-20	**7.5 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF02822	0.05	28-Jun-20	28-Jun-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 7/14/2020
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.#: 20F0579

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	6/28/20	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	VICTOR AREKIAN (EPL)	6/28/20	09:54
Received by	RM PCL	6/28/20	1115
Relinquished by			
Received by			
Relinquished by			
Received in lab by	RM PCL	6/28/20	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: 14-Jul-20 15:20
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0591-01) Collected: 29-Jun-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AF02914	1.8	29-Jun-20	01-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF02914	1.8	29-Jun-20	01-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG00116	0.1	29-Jun-20	29-Jun-20	**7.6 pH Units**	
Residual Chlorine	SM 4500Cl-G	AF03030	0.05	30-Jun-20	30-Jun-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 7/14/2020
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.#: 20F0591

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	06/29/20	1040	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
JUN 29 2020
By

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Olvera (SDC)	06/29/20	12:23
Received by		Juan Vasquez (PCL)	6/29/20	12:23
Relinquished by		Juan Vasquez (PCL)	6/29/20	13:12
Received by				
Relinquished by				
Received by		JUN 29 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
G - Grab
C - 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
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: 14-Jul-20 15:22
Subject: (MCC) Daily EFF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
EFF (Sample I.D.# : 20F0614-01) Collected: 30-Jun-20 By Carlos A. of IPC							
Microbiological							
Fecal Coliforms	SM 9221E	AF03033	1.8	30-Jun-20	02-Jul-20	**<1.8 MPN/100 ml**	
Total Coliforms	SM 9221B	AF03033	1.8	30-Jun-20	02-Jul-20	**<1.8 MPN/100 ml**	
Inorganic Constituents							
pH	SM 4500H-B	AG00116	0.1	30-Jun-20	30-Jun-20	**7.7 pH Units**	
Residual Chlorine	SM 4500Cl-G	AG00118	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 7/14/2020
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.#: 20F0614

Customer: IPC - Integrated Performance Consultants, Inc.
Address: 9297 Research Drive, Irvine, CA 92618
Project: (MCC) EFF - Daily
Sampled by: C. 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	06/30/20	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
JUN 30 2020
By

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by: C. Vardel	Carlos Alvarez (IPC)	06/30/20	12:11
Received by: Juan Vasquez	Juan Vasquez (PCL)	6/30/20	12:11
Relinquished by: Juan Vasquez	Juan Vasquez (PCL)	6/30/20	13:24
Received by:			
Relinquished by:			
Received in lab by: A. Abdullah Jr.	JUN 30 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
(SH) - 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 16:10
Subject: (MCC) Weekly INF

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

Parameter	Method	QC Batch	RL	Prepared	Analyzed	Result	Notes
INF (Sample I.D.# : 20G0030-01) Collected: 30-Jun-20 By Carlos A. of IPC							
Physical Properties							
Total Suspended Solids	SM2540D	AG00224	1	02-Jul-20	02-Jul-20	**191 mg/l**	
Aggregate Organic Constituents							
Biochemical Oxygen Demand	SM 5210B	AG00223	2	02-Jul-20	07-Jul-20	**355 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.#: 20G0030

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
INF	06/30/20	0000	1	TSS	Comp	AQ	1L P	4°C	7.33 / 17.8
"	"	"	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	C. Alvarez	Carlos Alvarez (IPC)	07/01/20	12:10
Received by	[signature]	[illegible]	7/1/20	12:10
Relinquished by	[signature]	[illegible]	7/1/20	14:20
Received by				
Relinquished by				
Received (Lab) by	[signature]	JUL 01 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	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.

Malibu Civic Center Wastewater Treatment Facility

Second Quarter 2020 Long-Term Groundwater and Surface Water Monitoring Report

prepared by

Rincon Consultants, Inc.

July 30, 2020

RINCON CONSULTANTS, INC.
Environmental Scientists | Planners | Engineers
rinconconsultants.com

Rincon Consultants, Inc.
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Ventura, California 93003

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July 30, 2020
Project No: 15-01587

Yolanda Bundy
Environmental Sustainability Department Director
Building Official
City of Malibu
23825 Stuart Ranch Road
Malibu, California 90401

Subject: **Second Quarter 2020 Long-Term Groundwater and Surface Water Monitoring Report, Malibu Civic Center Wastewater Treatment Facility – City of Malibu, California**

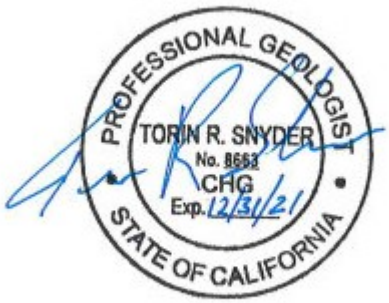
Dear Ms. Bundy:

Rincon Consultants, Inc. has prepared the Second 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 Second 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

"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 23 day of July at 7:15am

Yolanda Rundy

Signature

Environmental Sustainability Director / Building Official

Title

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Appendix A Groundwater and Surface Water Field Sheets
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1 Introduction

This report presents the results of groundwater and surface water monitoring activities conducted during the second quarter of 2020 for the Malibu Civic Center Wastewater Treatment Facility (CCWTF) located in the 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 Title 22 Recycled Water in the Prohibition area
- 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 monitoring surface water quality at ten (10) locations. 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. The nine (9) groundwater monitoring wells and ten (10) surface water sampling locations identified in Task II are currently sampled on a quarterly basis after the CCWTF began discharging treated wastewater in the third quarter of 2018. 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 branches from 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 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 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'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 Second Quarter 2020

The following activities were completed during the second quarter of 2020:

- Rincon measured depth to water in groundwater monitoring wells on April 27, May 28, and June 12, 2020 (Task V)
- Rincon collected and analyzed groundwater samples for WDR/MRP compliance on April 28 and 29, 2020 (Task II)
- Rincon collected and analyzed surface water samples for WDR/MRP compliance on April 28, 2020 (Task II)

5 Groundwater Elevations and Gradients

During each month of the quarter, Rincon mobilized to 45 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 45 groundwater monitoring wells, one well was reported to be buried (GH9-M4), one well has been removed (MBCMW-6), two wells were inaccessible during the April monitoring event (GH6-M1 and GH8-M3), one well was reported dry (SMBRP-15B), and two wells had a car parked over it during the June monitoring event (SMBRP-11 and MCWP-MW10). Therefore, groundwater elevations could not be calculated in these groundwater monitoring wells.

Groundwater Monitoring Locations

Shallow Zone (35 wells)				
C-1	C-2	CCPE	CCPNE	CCPSW
CCW-4	GH6-M1[1]	GH8-M3[1]	GH9-M4[2]	M6-1
M6-2	M7-1	M7-2	MBCMW-5	MBCMW-6[3]
MBCMW-7	MBCMW-8	MBCMW-9	MBCMW-10	MCWP-MW04S
MCWP-MW07S	MCWP-MW08	MCWP-MW10[4]	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[5]	SMBRP-16
Deep Zone (8 wells)				
MCWP-MW01	MCWP-MW02	MCWP-MW03	MCWP-MW04D	MCWP-MW05
MCWP-MW06	MCWP-MW07D	MCWP-MW09		
Winter Canyon Zone (2 wells)				
LAMW-5S	SMBRP-11[4]			

Notes:
1. GH6-M1 and GH8-M3 were inaccessible due to overgrown brush during the April monitoring event
2. GH9-M4 was reported to be buried during this monitoring period
3. Following grading activities in 2019, MBCMW-6 is understood to have been removed
4. SMBRP-11 and MCWP-MW10 were inaccessible during the June monitoring event
5. 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 second quarter of 2020, changes in elevation compared to the first quarter of 2020, and historical groundwater elevation ranges:

Summary of Groundwater Elevations – Shallow Zone

2nd Quarter 2020		1st Quarter 2020		Avg. Difference	Historical	
Minimum	**Maximum**	**Minimum**	**Maximum**	**(2Q20-1Q20)**	**Minimum**	**Maximum**
1.09 (CCPE)	25.02 (SMBRP-8)	1.74 (CCPE)	25.03 (SMBRP-8)	Decrease 0.19	1.09 (CCPE, 5/2020)	25.38 (SMBRP-8, 05/2017)

Changes from April to June 2020					
Decrease			**Increase**		
# Observed	**Maximum**	**Average**	**# Observed**	**Maximum**	**Average**
11	-3.31 (SMBRP-10C)	-1.18	13	0.67 (SMBRP-9)	0.24

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
April	0.0048	South-southeast
May	0.0047	South-southeast
June	0.0048	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 second quarter of 2020, changes in elevation compared to the first quarter of 2020, and historical groundwater elevation ranges:

Summary of Groundwater Elevations – Deep Zone

2nd Quarter 2020		1st Quarter 2020		Avg. Difference	Historical	
Minimum	**Maximum**	**Minimum**	**Maximum**	**(2Q20-1Q20)**	**Minimum**	**Maximum**
4.21 (MCWP-MW07D)	9.80 (MCWP-MW09)	4.67 (MCWP-MW07D)	10.80 (MCWP-MW09)	Decrease 0.45	4.09 (MCWP-MW07D, 12/2017)	11.55 (MCWP-MW09, 12/2015)

Summary of Groundwater Elevations – Deep Zone

Changes from April to June 2020					
Decrease			Increase		
# Observed	Maximum	Average	# Observed	Maximum	Average
7	0.74 (MCWP-MW07D)	-0.41	1	0.18 (MCWP-MW02)	-

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 second quarter of 2020, changes in elevation compared to the first quarter of 2020, and historical groundwater elevation ranges:

Summary of Groundwater Elevations – Winter Canyon

2nd Quarter 2020		1st Quarter 2020		Avg. Difference	Historical	
Minimum	Maximum	Minimum	Maximum	(2Q20-1Q20)	Minimum	Maximum
9.59 (SMBRP-11)	52.45 (LAMW-5S)	9.71 (SMBRP-11)	51.47 (LAMW-5S)	Increase 0.53	9.31 (SMBRP-11, 05/2018)	58.65 (LAMW-5S, 03/2019)

Changes from April to June 2020[1]					
Decrease			Increase		
# Observed	Maximum	Average	# Observed	Maximum	Average
2	0.97 (SMBRP-11)	-0.81	0	-	-

Notes:
1. SMBRP-11 was inaccessible during the June monitoring event; the difference between the April and May groundwater elevations was used
Elevations measured in feet above mean sea level

6 Water Quality Sampling Analysis

This section presents laboratory analytical results for samples collected during the second quarter 2020 monitoring event. Included below are the constituents required by the WDR for surface water monitoring, and which are analyzed for 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 second 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 April 28, 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

Malibu Lagoon and Creek	Near Shore Ocean
L-001	N-001
L-002	N-002
L-003	N-003
L-004	N-004
L-005	-
L-006	-

6.1.1 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. 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.

6.1.2 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	No. of Detections	Min Detected	Max Detected	Average	Units
Total Coliform	4	820 (N-002, N-004)	>2,400 (N-003)	1,435	MPN/100 mL
Fecal Coliform	4	1.0 (N-004)	34 (N-003)	12.2	MPN/100 mL
Nitrate as Nitrogen	0	-	-	-	mg/L
Nitrite as Nitrogen	0	-	-	-	mg/L

[1] Note that throughout this report, averages are calculated using the upper detection limit value for results that exceeded the upper detection limit and half of the RDL for results that were not detected

Summary of Detected Concentrations in Surface Water – Near Shore

Constituent	No. of Detections	Min Detected	Max Detected	Average	Units
Organic Nitrogen	4	0.18 (N-002)	0.32 (N-003)	0.27	mg/L
Ammonia Nitrogen	0	-	-	-	mg/L
Total Kjeldahl Nitrogen	4	0.18 (N-002)	0.32 (N-003)	0.27	mg/L
Total Phosphorous	4	0.028 (N-002)	0.099 (N-001)	0.050	mg/L

Notes:
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	1,700 (L-002)	>2,400 (L-001, L-003, L-004, L-005, L-006)	2,283	MPN/100 mL
Fecal Coliform	6	12 (L-002)	2,400 (L-005, L-006)	901	MPN/100 mL
Nitrate as Nitrogen	4	0.09 (L-003)	1.1 (L-002)	0.26	mg/L
Nitrite as Nitrogen	0	-	-	-	mg/L
Organic Nitrogen	6	0.29 (L-002)	0.98 (L-006)	0.502	mg/L
Ammonia Nitrogen	1	-	0.020 (L-006)	-	mg/L
Total Kjeldahl Nitrogen	6	0.29 (L-002)	1.0 (L-006)	0.505	mg/L
Total Phosphorous	6	0.19 (L-002)	0.37 (L-005)	0.26	mg/L

6.2 Groundwater

A total of nine (9) groundwater monitoring wells were sampled during the second quarter of 2020 in accordance with the WDR/MRP (Task II) monitoring requirements. The additional seven (7) groundwater monitoring wells that are sampled semi-annually in accordance with the SNMP (Task III) and MOU (Task IV) monitoring requirements are also listed.

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

Groundwater Sampling Locations

Well ID	Zone	Task	Sampling Frequency
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

6.2.1 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 500-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.

6.2.2 Laboratory Analyses

The following table summarizes constituent detections in groundwater samples collected in the second 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.

Summary of Detected Concentrations in Groundwater

Constituent	No. Analyzed	No. Detected	Min Detected	Max Detected	Average	Unit
Total Coliform	9	8	10 (SMBRP-11)	>2,400 (LAMW-5S, SMBRP-12, MCWP-MW07S, MCWP-MW07D)	1290	MPN/ 100 mL
Fecal Coliform	9	4	15 (MCWP-MW07S)	870 (MCWP-MW07D)	171	MPN/ 100 mL
Nitrate as Nitrogen	9	9	0.04 (MCWP-MW07D)	8.1 (LAMW-5S)	3.5	mg/L
Nitrite as Nitrogen	9	0	-	-	-	mg/L
Organic Nitrogen	9	9	0.10 (MCWP-MW07D)	1.8 (MCWP-MW09)	0.65	mg/L
Ammonia Nitrogen	9	5	0.031 (MCWP-MW07S)	7.7 (SMBRP-12)	1.66	mg/L
Total Kjeldahl Nitrogen	9	9	0.28 (MCWP-MW04D)	9.1 (SMBRP-12)	3.0	mg/L
Total Phosphorous	9	9	0.037 (SMBRP-11)	0.71 (SMBRP-12)	0.29	mg/L

Summary of Detected Concentrations in Groundwater

Constituent	No. Analyzed	No. Detected	Min Detected	Max Detected	Average	Unit
Total Dissolved Solids	9	9	92 (MCWP-MWO7D)	5,300 (MCWP-MW04S)	1,522	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 Third Quarter of 2020

The following activities will be completed during the third quarter of 2020:

- Prepare and submit the Second 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), SNMP (Task III), and MOU (Task IV) compliance
- Measure depth to water in the groundwater monitoring wells in July, August, and September 2020 (Task V)

8 Summary of Monitoring Activities

8.1 Groundwater Elevations

Consistent with past observations, shallow groundwater generally flows south-southeast. During the second quarter of 2020, groundwater elevations decreased in 59 percent of shallow, deep, and Winter Canyon wells, with an average change of -0.40 feet. Increases in groundwater elevations were observed in thirteen shallow wells and one deep well (MCWP-MW02).

8.2 Surface Water Quality

Total coliform samples were at or above 2,400 MPN/100 mL in six of the 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 first quarter of 2020, with an average increase of 507 MPN/100 mL.

Fecal coliform concentrations averaged 12.2 MPN/100 mL across all Near Shore surface water samples, which represents an average increase of 9.7 MPN/100 mL from the first quarter of 2020. In Malibu Lagoon and Creek locations, all six samples had detected concentrations of fecal coliform, averaging 901 MPN/100 mL, which represents an average decrease of 817 MPN/100 mL from the first quarter of 2020. Two samples, L-005 and L-006, had concentrations exceeding the upper detection limit value of 2,400 MPN/100 mL.

Nitrate as nitrogen was not detected above the RDL in any of the Near Shore samples, which is consistent with the first quarter of 2020 results. In the Malibu Lagoon and Creek, however, nitrate as nitrogen was detected in four of six samples; five samples were detected above the RDL in the first quarter of 2020. Nitrite as nitrogen was not detected in any surface water samples. Organic nitrogen averaged 0.27 mg/L in Near Shore samples and 0.502 mg/L in Malibu Lagoon and Creek samples. When compared to the first quarter of 2020, organic nitrogen concentrations had an average decrease of 0.11 mg/L in the Near Shore samples and an average decrease of 1.47 mg/L in the Malibu Lagoon and Creek samples.

Phosphorous concentrations decreased with an average concentration of 0.18 mg/L compared to the average concentration of 0.34 mg/L observed in the first quarter of 2020.

8.3 Groundwater Quality

When comparing analytical results from the first quarter of 2020 to the second quarter of 2020, note that sixteen groundwater monitoring wells were sampled during the first quarter of 2020 (Task II, III, IV), and nine wells were sampled for the second quarter of 2020 (Task II). Of the nine wells sampled during these two periods, total coliform decreased in two monitoring wells, increased in five monitoring wells, and remained below the RDL in two wells, with an average increase of 453 MPN/100 mL compared to the first quarter of 2020. Fecal coliform increased in three wells, decreased in one well, and remained below the RDL in five wells when compared to the first quarter of 2020.

Nitrate as nitrogen was detected in all nine groundwater monitoring wells. When compared to the first quarter of 2020, nitrate concentrations increased in five wells and decreased in four wells.

When compared to the first quarter of 2020, average TDS concentrations in groundwater samples decreased from an average of 2,007 mg/L to 1,522 mg/L in the second 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	4/27/2020	11.47	7.52	3.95
C-1	5/28/2020	11.47	7.21	4.26
C-1	6/12/2020	11.47	7.20	4.27
C-2	4/27/2020	11.19	7.30	3.89
C-2	5/28/2020	11.19	7.00	4.19
C-2	6/12/2020	11.19	7.10	4.09
CCPE	4/27/2020	12.94	11.44	1.50
CCPE	5/28/2020	12.94	11.85	1.09
CCPE	6/12/2020	12.94	11.35	1.59
CCPNE	4/27/2020	13.68	9.03	4.65
CCPNE	5/28/2020	13.68	8.76	4.92
CCPNE	6/12/2020	13.68	8.81	4.87
CCPSW	4/27/2020	13.67	8.50	5.17
CCPSW	5/28/2020	13.67	7.95	5.72
CCPSW	6/12/2020	13.67	8.30	5.37
CCW-4	4/27/2020	15.77	3.38	12.39
CCW-4	5/28/2020	15.77	4.50	11.27
CCW-4	6/12/2020	15.77	4.99	10.78
GH6-M1	4/27/2020	-	Inaccessible	-
GH6-M1	5/28/2020	-	26.50	-
GH6-M1	6/12/2020	-	26.50	-
GH8-M3	4/27/2020	-	Inaccessible	-
GH8-M3	5/28/2020	-	25.61	-
GH8-M3	6/12/2020	-	25.82	-
GH9-M4	4/27/2020	-	Buried	-
GH9-M4	5/28/2020	-	Buried	-
GH9-M4	6/12/2020	-	Buried	-
M6-1	4/27/2020	-	6.18	-
M6-1	5/28/2020	-	6.12	-
M6-1	6/12/2020	-	7.75	-
M6-2	4/27/2020	-	4.04	-
M6-2	5/28/2020	-	4.50	-
M6-2	6/12/2020	-	7.03	-
M7-1	4/27/2020	-	6.79	-
M7-1	5/28/2020	-	7.50	-
M7-1	6/12/2020	-	6.59	-
M7-2	4/27/2020	-	5.57	-
M7-2	5/28/2020	-	6.98	-
M7-2	6/12/2020	-	4.80	-
MBCMW-7	4/27/2020	16.64	11.79	4.85
MBCMW-7	5/28/2020	16.64	11.45	5.19
MBCMW-7	6/12/2020	16.64	11.82	4.82
MBCMW-8	4/27/2020	16.53	5.81	10.72
MBCMW-8	5/28/2020	16.53	6.86	9.67
MBCMW-8	6/12/2020	16.53	7.42	9.11
MBCMW-9	4/27/2020	17.71	5.60	12.11
MBCMW-9	5/28/2020	17.71	6.50	11.21
MBCMW-9	6/12/2020	17.71	6.80	10.91
MBCMW-10	4/27/2020	17.74	9.20	8.54
MBCMW-10	5/28/2020	17.74	8.98	8.76
MBCMW-10	6/12/2020	17.74	9.42	8.32

Table 1
Groundwater Elevations

Shallow Groundwater Monitoring Wells				
Well ID	**Date**	**TOC Elevation** (ft)	**Depth to Water** (ft bTOC)	**Groundwater Elevation**
MCWP-MW04S	4/27/2020	15.29	4.30	10.99
MCWP-MW04S	5/28/2020	15.29	5.30	9.99
MCWP-MW04S	6/12/2020	15.29	5.85	9.44
MCWP-MW07S	4/27/2020	13.72	5.03	8.69
MCWP-MW07S	5/28/2020	13.72	5.02	8.70
MCWP-MW07S	6/12/2020	13.72	5.05	8.67
MCWP-MW08	4/27/2020	12.21	8.90	3.31
MCWP-MW08	5/28/2020	12.21	8.50	3.71
MCWP-MW08	6/12/2020	12.21	8.80	3.41
MCWP-MW10	4/27/2020	11.11	8.50	2.61
MCWP-MW10	5/28/2020	11.11	8.05	3.06
MCWP-MW10	6/12/2020	11.11	Parked Over	-
P-4	4/27/2020	12.16	7.70	4.46
P-4	5/28/2020	12.16	7.30	4.86
P-4	6/12/2020	12.16	7.50	4.66
P-9	4/27/2020	12.17	8.07	4.10
P-9	5/28/2020	12.17	7.83	4.34
P-9	6/12/2020	12.17	7.80	4.37
SMBRP-2	4/27/2020	13.13	9.00	4.13
SMBRP-2	5/28/2020	13.13	8.68	4.45
SMBRP-2	6/12/2020	13.13	8.89	4.24
SMBRP-6	4/27/2020	26.88	14.45	12.43
SMBRP-6	5/28/2020	26.88	14.80	12.08
SMBRP-6	6/12/2020	26.88	15.28	11.60
SMBRP-7B	4/27/2020	18.99	9.18	9.81
SMBRP-7B	5/28/2020	18.99	9.55	9.44
SMBRP-7B	6/12/2020	18.99	9.86	9.13
SMBRP-8 (EC1-RC-MW01)	4/29/2020	48.69	23.86	24.83
SMBRP-8 (EC1-RC-MW01)	5/28/2020	48.69	23.67	25.02
SMBRP-8 (EC1-RC-MW01)	6/12/2020	48.69	23.80	24.89
SMBRP-9	4/27/2020	50.32	35.65	14.67
SMBRP-9	5/28/2020	50.32	35.15	15.17
SMBRP-9	6/12/2020	50.32	34.98	15.34
SMBRP-10C	4/27/2020	16.25	1.48	14.77
SMBRP-10C	5/28/2020	16.25	3.90	12.35
SMBRP-10C	6/12/2020	16.25	4.79	11.46
SMBRP-12	4/27/2020	12.62	7.69	4.93
SMBRP-12	5/28/2020	12.62	6.99	5.63
SMBRP-12	6/12/2020	12.62	7.08	5.54
SMBRP-13	4/27/2020	13.58	9.19	4.39
SMBRP-13	5/28/2020	13.58	8.90	4.68
SMBRP-13	6/12/2020	13.58	9.12	4.46
SMBRP-15B	4/27/2020	16.77	Dry	-
SMBRP-15B	5/28/2020	16.77	Dry	-
SMBRP-15B	6/12/2020	16.77	Dry	-
SMBRP-16	4/27/2020	14.50	2.02	12.48
SMBRP-16	5/28/2020	14.50	3.40	11.10
SMBRP-16	6/12/2020	14.50	3.90	10.60

Table 1
Groundwater Elevations

Deep Groundwater Monitoring Wells				
Well ID	**Date**	**TOC Elevation** (ft)	**Depth to Water** (ft bTOC)	**Groundwater Elevation**
MCWP-MW01	4/27/2020	17.90	10.88	7.02
MCWP-MW01	5/28/2020	17.90	10.75	7.15
MCWP-MW01	6/12/2020	17.90	11.20	6.70
MCWP-MW02	4/27/2020	18.06	12.30	5.76
MCWP-MW02	5/28/2020	18.06	11.60	6.46
MCWP-MW02	6/12/2020	18.06	12.12	5.94
MCWP-MW03	4/27/2020	15.31	8.42	6.89
MCWP-MW03	5/28/2020	15.31	8.75	6.56
MCWP-MW03	6/12/2020	15.31	9.10	6.21
MCWP-MW04D	4/27/2020	15.43	10.07	5.36
MCWP-MW04D	5/28/2020	15.43	9.91	5.52
MCWP-MW04D	6/12/2020	15.43	10.40	5.03
MCWP-MW05	4/27/2020	13.92	8.20	5.72
MCWP-MW05	5/28/2020	13.92	8.00	5.92
MCWP-MW05	6/12/2020	13.92	8.45	5.47
MCWP-MW06	4/27/2020	16.05	10.45	5.60
MCWP-MW06	5/28/2020	16.05	10.28	5.77
MCWP-MW06	6/12/2020	16.05	10.70	5.35
MCWP-MW07D	4/27/2020	13.21	8.26	4.95
MCWP-MW07D	5/28/2020	13.21	8.62	4.59
MCWP-MW07D	6/12/2020	13.21	9.00	4.21
MCWP-MW09	4/27/2020	16.30	6.68	9.62
MCWP-MW09	5/28/2020	16.30	6.50	9.80
MCWP-MW09	6/12/2020	16.30	6.90	9.40

Table 1
Groundwater Elevations

Winter Canyon Groundwater Monitoring Wells				
Well ID	**Date**	**TOC Elevation** (ft)	**Depth to Water** (ft bTOC)	**Groundwater Elevation**
LAMW-5S	4/27/2020	104.55	52.10	52.45
LAMW-5S	5/28/2020	104.55	52.38	52.17
LAMW-5S	6/12/2020	104.55	52.74	51.81
SMBRP-11	4/27/2020	18.35	7.79	10.56
SMBRP-11	5/28/2020	18.35	8.76	9.59
SMBRP-11	6/12/2020	18.35	Parked Over	-

TOC: Top of well casing
ft bTOC: Feet below top of well casing

Table 2
Long-Term Groundwater and Surface Water Analytical Matrix

Groundwater	Long-Term GW Monitoring SNMP MOU	SNMP MOU	Long-Term GW Monitoring SNMP MOU	Long-Term GW Monitoring SNMP MOU	Long-Term GW Monitoring SNMP MOU	SNMP MOU	SNMP MOU	Long-Term GW Monitoring SNMP MOU	Long-Term GW Monitoring SNMP MOU	SNMP	SNMP	Long-Term GW Monitoring SNMP MOU	Long-Term GW Monitoring SNMP MOU	Long-Term GW Monitoring SNMP MOU	SNMP MOU	SNMP MOU
Laboratory Analysis	*LAMW-5S*	*SMBRP-7B*	*SMBRP-9*	*SMBRP-11*[1]	*SMBRP-12*	*SMBRP-13*	*MBCMW-9*	*MCWP-MW04S*	*MCWP-MW04D*	*MCWP-MW05*	*MCWP-MW06*	*MCWP-MW07S*	*MCWP-MW07D*	*MCWP-MW09*	*MCWP-MW10*	*CCPE*
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)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
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	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-

Surface Water	Long-Term SW Monitoring	Long-Term SW Monitoring	Long-Term SW Monitoring	Long-Term SW Monitoring	Long-Term SW Monitoring	Long-Term SW Monitoring	Long-Term SW Monitoring	Long-Term SW Monitoring	Long-Term SW Monitoring	Long-Term SW Monitoring
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:
✓: Laboratory analysis completed
- : Sampling & analysis not required
[1]: TY-MW-1 was replaced by SMBRP-11 per LARWQCB correspondence with City of Malibu dated May 18, 2018

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	Total Organic Nitrogen	Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorous
Near Shore	Ankle Depth	N-001	4/28/2020	= **1,700**	= **6.3**	< 0.10	< 1.0	= **0.27**	< 0.10	= **0.27 J**	= **0.099**
Near Shore	Ankle Depth	N-002	4/28/2020	= **820**	= **7.5**	< 0.10	< 5.0	= **0.18**	< 0.10	= **0.18 J**	= **0.028**
Near Shore	Ankle Depth	N-003	4/28/2020	> **2,400**	= **34**	< 0.10	< 5.0	= **0.32**	< 0.10	= **0.32 J**	= **0.043**
Near Shore	Ankle Depth	N-004	4/28/2020	= **820**	= **1.0**	< 0.10	< 5.0	= **0.31**	< 0.10	= **0.31 J**	= **0.031**
Malibu Lagoon and Creek	1 foot BSW	L-001	4/28/2020	> **2,400**	= **34**	= **0.12**	< 0.10	= **0.34**	< 0.10	= **0.34 J**	= **0.24**
Malibu Lagoon and Creek	1 foot BSW	L-002	4/28/2020	= **1,700**	= **12**	= **1.1**	< 0.10	= **0.29**	< 0.10	= **0.29 J**	= **0.19**
Malibu Lagoon and Creek	1 foot BSW	L-003	4/28/2020	> **2,400**	= **70**	= **0.09 J**	< 2.0	= **0.55**	< 0.10	= **0.55**	= **0.20**
Malibu Lagoon and Creek	1 foot BSW	L-004	4/28/2020	> **2,400**	= **490**	= **0.15**	< 2.0	= **0.40**	< 0.10	= **0.40**	= **0.21**
Malibu Lagoon and Creek	1 foot BSW	L-005	4/28/2020	> **2,400**	> **2,400**	< 0.10	< 2.0	= **0.45**	< 0.10	= **0.45**	= **0.37**
Malibu Lagoon and Creek	1 foot BSW	L-006	4/28/2020	> **2,400**	> **2,400**	< 0.10	< 2.0	= **0.98**	= **0.020 J**	= **1.0**	= **0.35**

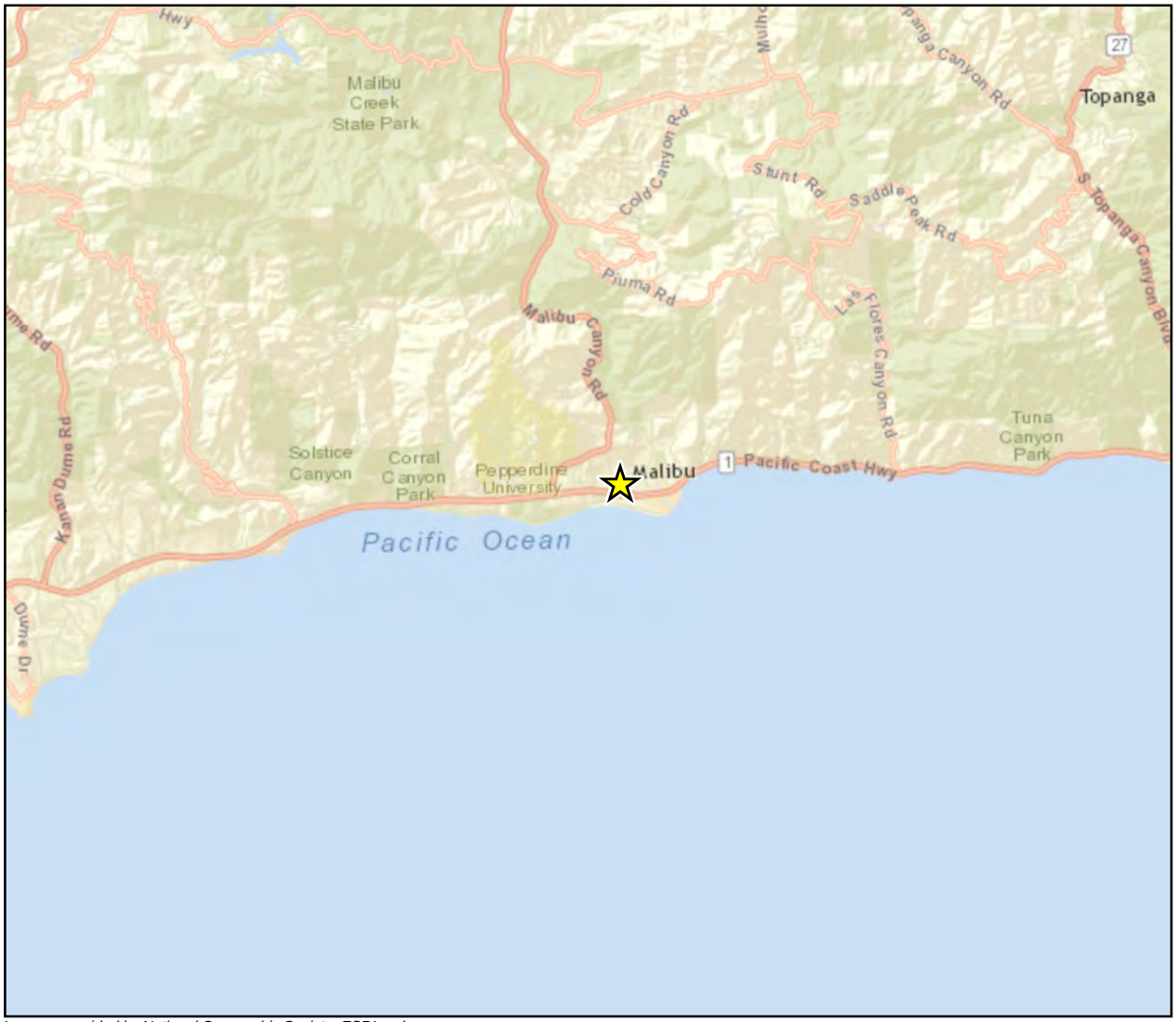
Notes:
bold: Constituent detected above Reporting Detection Limit (RDL)
<: Constituent not detected above the RDL
>: Constituent detected above the laboratory upper detection limit
BSW: Below surface of water
J: Estimated value; the consituent was detected above the method detection limit, but below the RDL
mg/L: Milligrams per liter
MPN/100mL: 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	74	4/28/2020	> **2,400**	< 1.0	= **8.1**	< 0.10	= **8.1**	= **0.32**	< 0.10	= **0.32 J**	= **8.4**	= **0.98**	= **0.18**	= **140**	= **560**	= **100**
SMBRP-9	45	4/29/2020	= **32**	< 1.0	= **3.1**	< 0.10	= **3.1**	= **0.39**	< 0.10	= **0.39 J**	= **3.5**	= **0.055**	= **0.51**	= **260**	= **1,400**	= **170**
SMBRP-11	20	4/28/2020	= **9.8**	< 1.0	= **2.4**	< 0.10	= **2.4**	= **0.20**	= **2.3**	= **2.5**	= **4.9**	= **0.037**	= **0.53**	= **470**	= **950**	= **260**
SMBRP-12	25	4/28/2020	> **2,400**	= **440**	= **0.06 J**	< 0.10	< 0.10	= **1.4**	= **7.7**	= **9.1**	= **9.2**	= **0.71**	= **0.33**	= **90**	= **1,400**	= **120**
MCWP-MW04S	20	4/28/2020	= **870**	< 1.0	= **2.7**	< 0.10	= **2.7**	= **0.82**	< 0.10	= **0.82**	= **3.5**	= **0.34**	= **1.4**	= **2,500**	= **5,300**	= **630**
MCWP-MW04D	145	4/29/2020	< 1.0	< 1.0	= **1.5**	< 0.10	= **1.5**	= **0.28**	< 0.10	= **0.28 J**	= **1.8**	= **0.066**	= **0.75**	= **540**	= **1,400**	= **240**
MCWP-MW07S	20	4/28/2020	> **2,400**	= **15**	= **3.4**	< 0.10	= **3.4**	= **0.55**	= **0.031 J**	= **0.58**	= **4.0**	= **0.070**	= **0.30**	= **240**	= **1,100**	= **210**
MCWP-MW07D	134	4/28/2020	> **2,400**	= **870**	= **0.04 J**	< 0.10	< 0.10	= **0.10**	= **1.7**	= **1.8**	= **1.8**	= **0.096**	< 0.050	= **11**	= **92**	= **20**
MCWP-MW09	89	4/28/2020	= **1,100**	= **210**	= **0.08 J**	< 0.10	< 0.10	= **1.8**	= **1.4**	= **3.2**	= **3.3**	= **0.22**	= **0.66**	= **500**	= **1,500**	= **430**

Notes:
bold: Constituent detected above Reporting Detection Limit (RDL)
<: 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



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Project Location

N

0 1 2

Miles

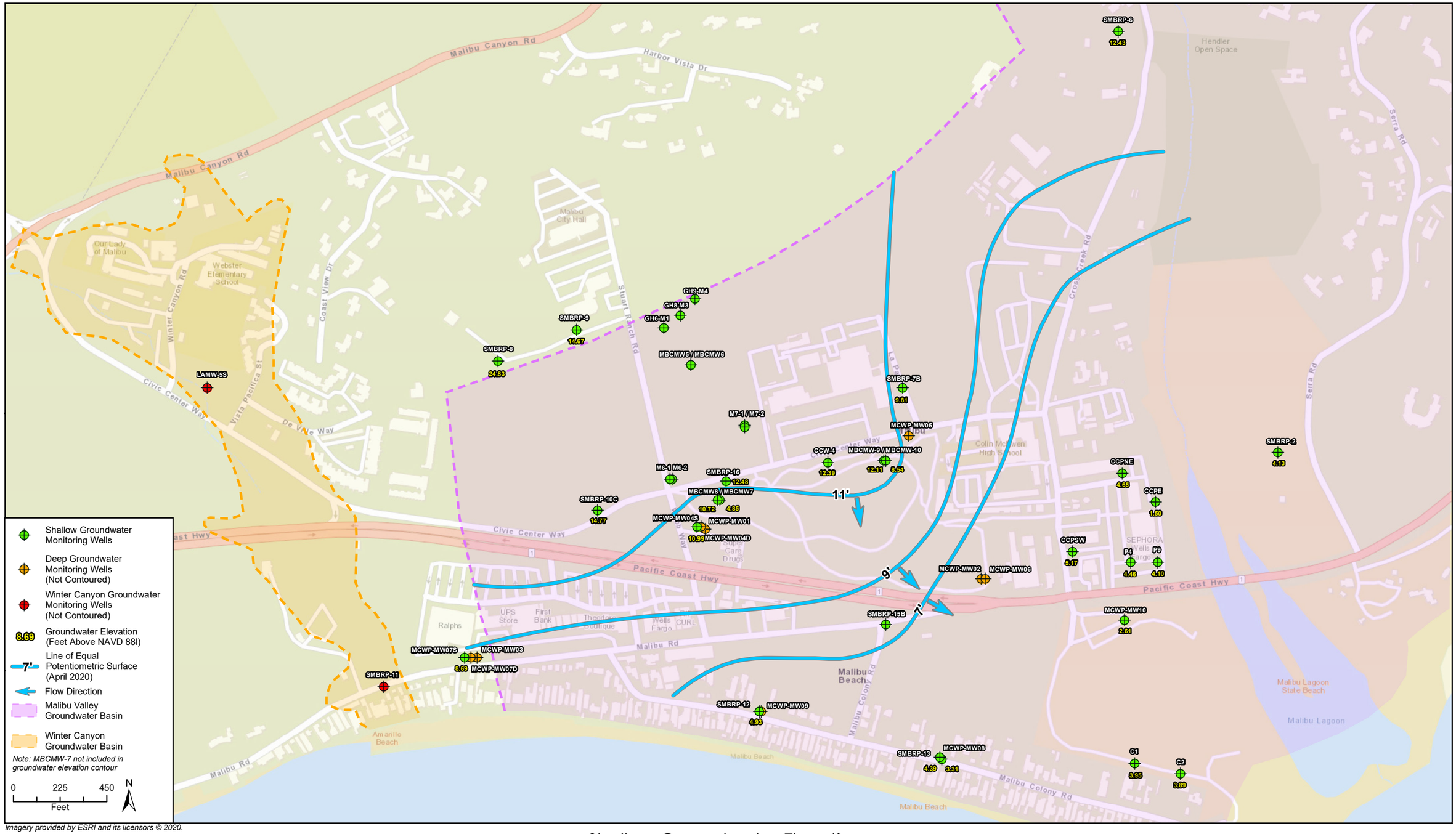
Vicinity Map

Figure 1

Imagery provided by Google and its licensors © 2018.

Site Map - Civic Center Area

Figure 2



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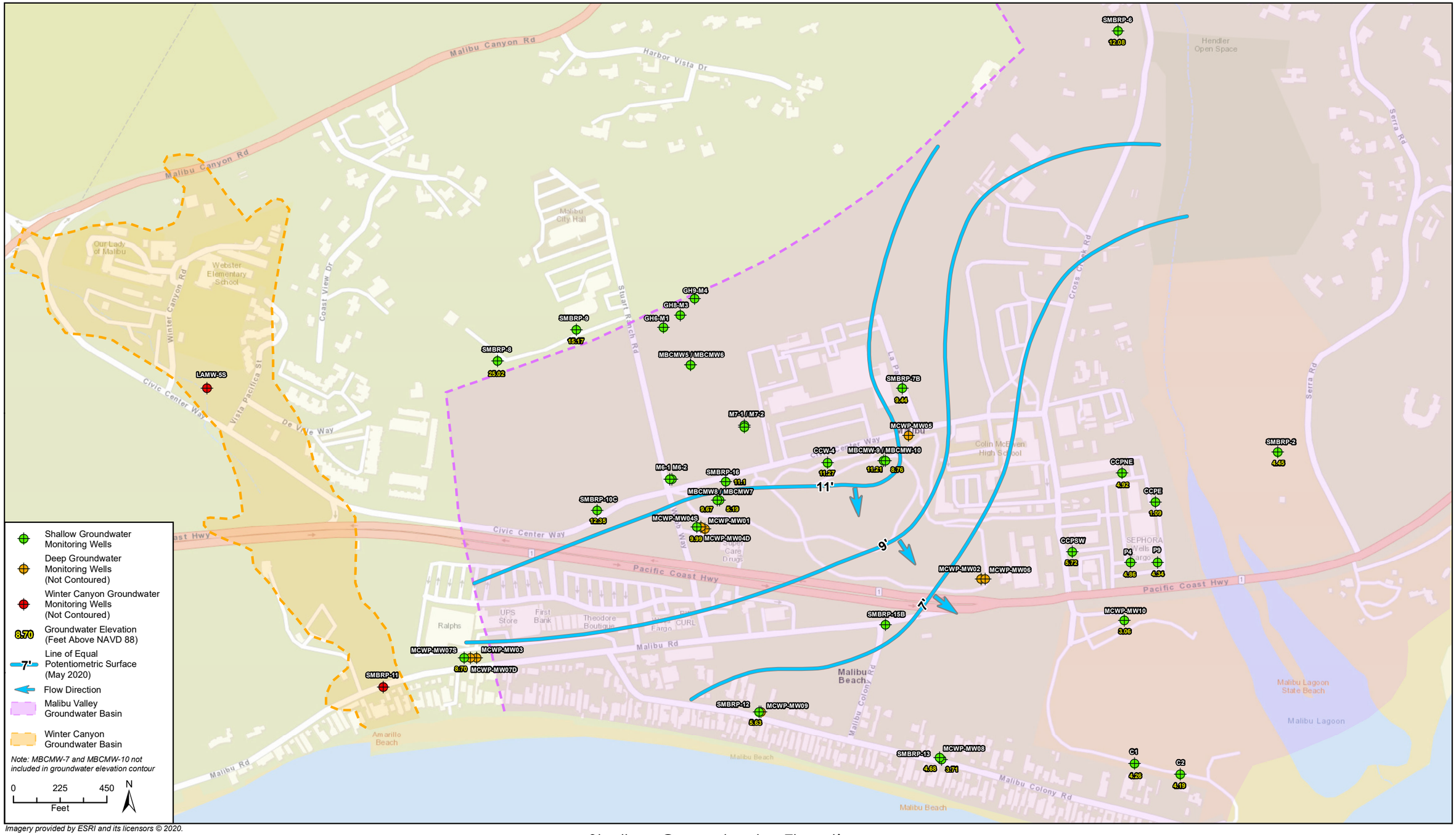
Shallow Groundwater Elevation
April 2020

Figure 3



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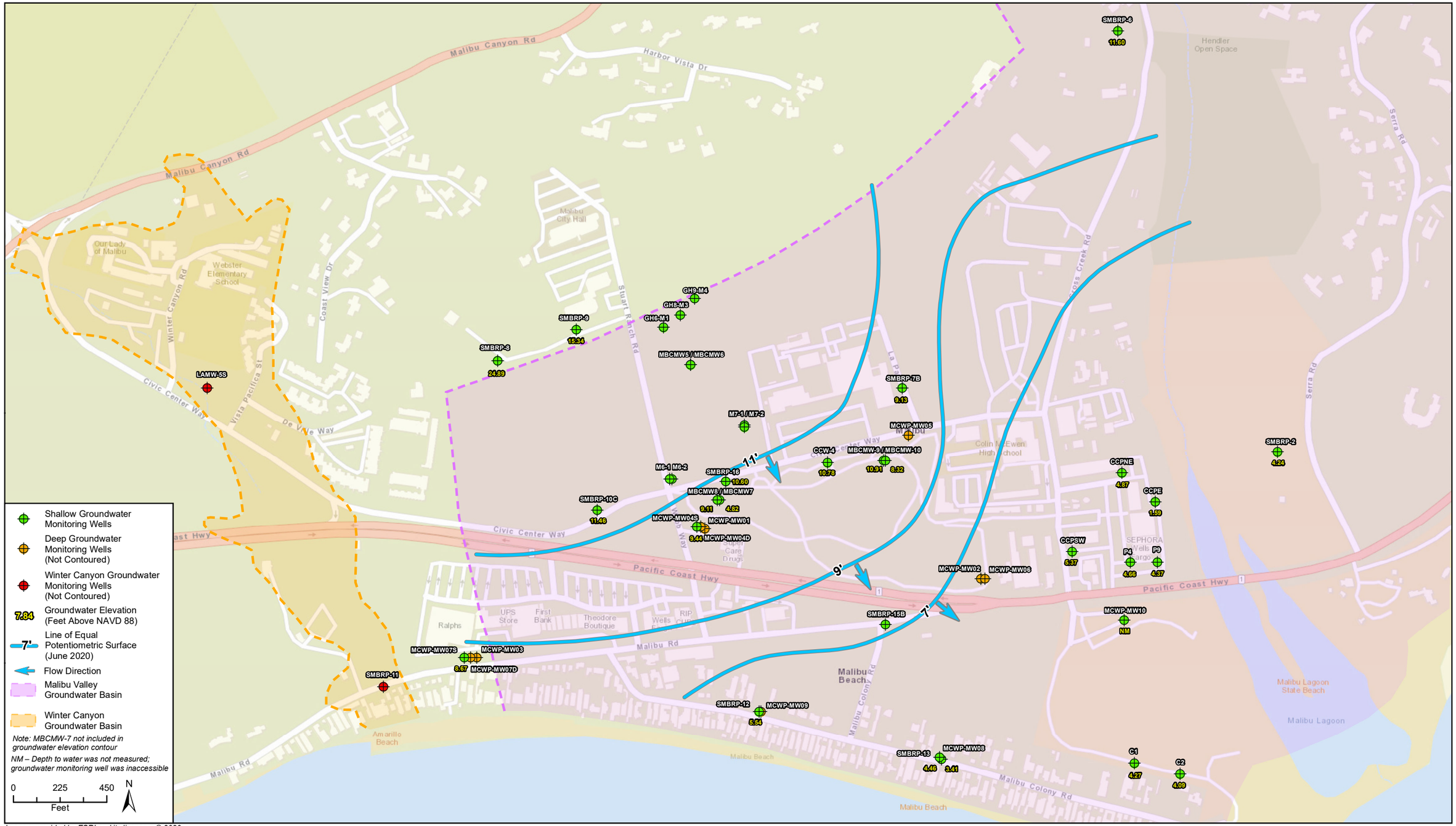
Shallow Groundwater Elevation
May 2020

Figure 4



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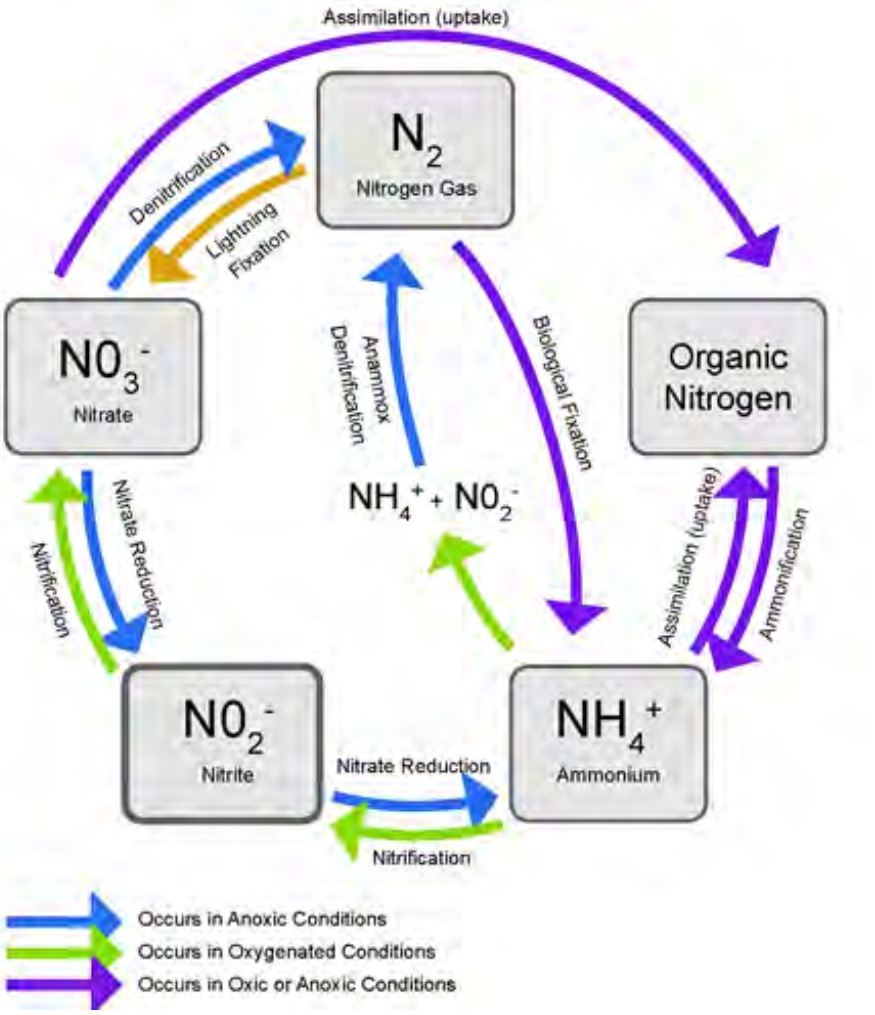
Shallow Groundwater Elevation
June 2020

Figure 5

Rincon Consultants Inc.



The Nitrogen Cycle Figure 6

Appendix A

Groundwater and Surface Water Field Sheets

Malibu

Monthly Gauging Sheet

Well ID	Total Well Depth (ft bTOC)	Well Diameter (in)	Time / /	Depth to Water	Well Head Deficiencies Comments
C-1	14.5	n/a	1212	7.52	
C-2	14.5	2	1215	7.3	
CCPE	52	2	0959	11.44	
CCPNE		2	0950	9.03	
CCPSW		2	1009	8.50	
CCW-4		1	1229	3.38	
GH6-M1	35	2	—	—	OVERGROWN - could not locate
GH8-M3	40	2	—	—	OVERGROWN - could not locate
GH9-M4	45	2	—	—	BURIED
Lagoon	n/a	n/a			
LAMW-5S	74	4	0915	52.10	TD= 74.16
M6-1	45	2	1149	6.18	
M6-2	20	2	1150	4.04	
M7-1	40	2	1125	6.79	
M7-2	25	2	1128	5.57	
MBCMW-5	19.4	n/a	1133	16.75	
MBCMW-6	64.26	n/a	—	—	REMOVED
MBCMW-7	52.5	2	1259	11.79	
MBCMW-8	10	2	1258	5.81	
MBCMW-9	9	2	0931	5.6	
MBCMW-10	53	2	0930	9.2	
MCWP-MW01	148	6	1032	10.88	
MCWP-MW02	145	6	~~1030~~	~~10.45~~	1031 | 12.3
MCWP-MW03	134	6	1140	8.42	
MCWP-MW04D	145	4	1031	10.07	TD= 145.45
MCWP-MW04S	20	4	1030	4.30	TD= 20.44
MCWP-MW05	150	4	0941	8.2	
MCWP-MW06	137	2	1030	10.45	
MCWP-MW07D	134	2	1137	8.26	TD= 128.14
MCWP-MW07S	20	2	1138	5.03	TD= 17.28
MCWP-MW08	77	2	1055	8.9	
MCWP-MW09	89	2	1049	6.68	TD= 89.12
MCWP-MW10	22	2	1204	8.50	
P-4	12.5	4	1005	7.7	
P-9	14.3	4	1003	8.07	
SMBRP-2	25	2	1017	9.0	
SMBRP-6	25	2	1025	14.45	
SMBRP-7b	25	2	0944	9.18	
SMBRP-8 (EG-RC MW01)	60	4	—	—	LOCKED GATE - DTW - 23.86 - 0915 4.29.20
SMBRP-9	45	2	0910	35.65	TD= 44.82
SMBRP-10C	25	2	0908	1.48	
SMBRP-11	20	2	1100	7.79	TD= 20.08
SMBRP-12	25	2	1045	7.69	TD= 24.61
SMBRP-13	20	2	1056	9.19	
SMBRP-15b	25	1	—	—	DRY
SMBRP-16	25	2	0917	2.02	

CODE:

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	15-01587	Date:	4.27.20
Project/Location	Malibu, CA Civic Center Area	Well Number:	LAMW-5
Observation Period	Start: 0915 Stop: 1020	Survey Reference Point:	TOC
Sampled By:	P. DORAN	Witnessed By:	-

PURGING DATA

Type of Pump	GRUNDFOS	Pump Inlet Depth (ft)	73
Well Diameter (in)	4	Depth of Well (ft)	74.16
Initial/Static Depth to Water (ft)	52.10	Length of Water Column (ft)	22.06
Product Thickness (ft)	-	Volume Multiplier (gal/ft)	0.65
One Casing Volume (gal)	14.3	Three Casing Volumes (gal)	43.0
Purge Time, Start	0939	Purge Time, Stop	1005
Total Purge Time (minutes)	26	Purge Rate (gpm)	0.8
Purge Volume (gal)	20.0	Depth to Water (ft) at Sampling	52.12

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	14.5	20.0					At Sampling
Temperature (C)	21.1	21.8	21.9					19.7
pH	6.22	6.72	6.80	WELL DEWATERED @ 20 GAL.				6.89
Conductivity (µS)	1244	1181	1203					~~701~~ 969
Dissolved Oxygen (mg/L)	2.96	2.05	2.88					4.35
Dissolved Oxygen (%)	32.8	23.4	33.6					47.7
TDS (ppm) mg/L	869	818	825					701
Turbidity (NTU)	22.6	105	20.8					10.3

Depth to Water at End of Purge (ft)	72.5	Drawdown (ft)	20.40

Comments:

MISCELLANEOUS DATA

Condition of Traffic Box:	Good
Drum Identification labeling:	**Non-Hazardous Waste**
Water Level Indicator:	**Solinst Model 101**
Weather Conditions:	Overcast.

Comments: Sampled Time: 0910 4.28.20

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

52.10 + 0.2 * 20.40 = 56.18

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	15-01587	Date:	4.29.20
Project/Location	Malibu, CA Civic Center Area	Well Number:	SMBRP-9
Observation Period	Start: 0845 Stop: 0940	Survey Reference Point:	TOC
Sampled By:	P.D. ML.	Witnessed By:	—

PURGING DATA

Type of Pump	Elect. Sub.	Pump Inlet Depth (ft)	43
Well Diameter (in)	2	Depth of Well (ft)	44.82
Initial/Static Depth to Water (ft)	35.65	Length of Water Column (ft)	9.17
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.46	Three Casing Volumes (gal)	4.4
Purge Time, Start	0904	Purge Time, Stop	0908
Total Purge Time (minutes)	4	Purge Rate (gpm)	1.0
Purge Volume (gal)	4.5	Depth to Water (ft) at Sampling	35.92

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	1.5	3.0	4.5				At Sampling
Temperature (C)	20.8	21.7	22.3	22.1				21.7
pH	7.16	7.17	7.2	7.23				7.25
Conductivity (µS)	2366	2383	2388	2440				2431
Dissolved Oxygen (mg/L)	3.75	4.29	4.10	3.60				4.9
Dissolved Oxygen (%)	47.2	48.5	46.6	47.1				55.6
TDS (ppm)	1676	1653	1641	1671				1689
Turbidity (NTU)	54.3	48.35	42.91	43.2				56.20

Depth to Water at End of Purge (ft)	42.26	Drawdown (ft)	6.61

Comments:

MISCELLANEOUS DATA

Condition of Traffic Box:	Good
Drum Identification labeling:	**Non-Hazardous Waste**
Water Level Indicator:	**Solinst Model 101**
Weather Conditions:	Overcast.

Comments: Sampled Time: 0920

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

35.65 + 0.2 * 6.61 = 36.97

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	15-01587	Date:	4.27.20
Project/Location	Malibu, CA Civic Center Area	Well Number:	SMBRP - 11
Observation Period	Start: 1100 Stop: 1130	Survey Reference Point:	TOC
Sampled By:	P. DORAN	Witnessed By:	—

PURGING DATA

Type of Pump	~~Hur~~ Elect. Sub.	Pump Inlet Depth (ft)	19
Well Diameter (in)	2	Depth of Well (ft)	20.05
Initial/Static Depth to Water (ft)	7.79	Length of Water Column (ft)	12.29
Product Thickness (ft)	-	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.9	Three Casing Volumes (gal)	5.9
Purge Time, Start	1116	Purge Time, Stop	1122
Total Purge Time (minutes)	6	Purge Rate (gpm)	
Purge Volume (gal)	6.0	Depth to Water (ft) at Sampling	7.85

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	2.0	4.0	6.0				At Sampling
Temperature (C)	24.2	24.1	24.0	24.0				21.5
pH	6.87	6.79	6.84	6.94				7.16
Conductivity (µS)	3657	3294	2982	2217				1629
Dissolved Oxygen (mg/L)	2.83	2.27	2.74	2.81				3.66
Dissolved Oxygen (%)	34.0	27.3	31.9	33.6				41.6
TDS (ppm) mg/L	2419	2179	1974	1460				1136
Turbidity (NTU)	45.6	23.6	16.0	28.4				462

Depth to Water at End of Purge (ft)	19.21	Drawdown (ft)	11.42

Comments:

MISCELLANEOUS DATA

Condition of Traffic Box:	Good
Drum Identification labeling:	**Non-Hazardous Waste**
Water Level Indicator:	**Solinst Model 101**
Weather Conditions:	Overcast

Comments: Sampled Time: 1000 4.28.20

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

7.79 + 0.2 * 11.42 = 10.07

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	15-01587	Date:	4·28·20
Project/Location	Malibu, CA Civic Center Area	Well Number:	SMTRP-17
Observation Period	Start: 1200 Stop: 1230	Survey Reference Point:	TOC
Sampled By:	RD. MC	Witnessed By:	—

PURGING DATA

Type of Pump	Grundfos	Pump Inlet Depth (ft)	24
Well Diameter (in)	2	Depth of Well (ft)	24.61
Initial/Static Depth to Water (ft)	7.69	Length of Water Column (ft)	16.92
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	2.7	Three Casing Volumes (gal)	8.1
Purge Time, Start	1205	Purge Time, Stop	1211
Total Purge Time (minutes)	~~1209~~ 6	Purge Rate (gpm)	1.4
Purge Volume (gal)	8.5	Depth to Water (ft) at Sampling	7.35

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	3.0	5.5	8.5				At Sampling
Temperature (C)	22.7	22.7	22.7	22.7				22.3
pH	7.06	7.04	7.04	7.05				7.24
Conductivity (µS)	2640	2657	2660	2662				1638
Dissolved Oxygen (mg/L)	1.64	1.60	1.48	1.46				2.92
Dissolved Oxygen (%)	18.7	18.4	16.8	16.6				34.3
TDS (ppm)	1795	1806	1806	1808				1121
Turbidity (NTU)	9.8	1.7	0.80	0.75				37.51

Depth to Water at End of Purge (ft): 8.10 Drawdown (ft): 0.41

Comments:

MISCELLANEOUS DATA

Condition of Traffic Box:	Good
Drum Identification labeling:	**Non-Hazardous Waste**
Water Level Indicator:	**Solinst Model 101**
Weather Conditions:	Overcast.

Comments: Sampled Time: 1225

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

7.69 + 0.2 * 0.41 = 7.77

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	15-01587	Date:	4.27.20
Project/Location	Malibu, CA Civic Center Area	Well Number:	MCWP-MW04S
Observation Period	Start: 1030 Stop: 1100	Survey Reference Point:	TOC
Sampled By:	P. DORAN	Witnessed By:	—

PURGING DATA

Type of Pump	GROUNDFOS	Pump Inlet Depth (ft)	20
Well Diameter (in)	4	Depth of Well (ft)	20.44
Initial/Static Depth to Water (ft)	4.30	Length of Water Column (ft)	16.14
Product Thickness (ft)	—	Volume Multiplier (gal/ft)	0.65
One Casing Volume (gal)	10.5	Three Casing Volumes (gal)	31.5
Purge Time, Start	1036	Purge Time, Stop	1050
Total Purge Time (minutes)	14	Purge Rate (gpm)	1.2
Purge Volume (gal)	18	Depth to Water (ft) at Sampling	4.61

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA 4/28/20

Volume Pumped (gal)	Before Purge	10.5						At Sampling
Temperature (C)	22.2	22.6						21.6
pH	7.29	7.30	WELL					7.32
Conductivity (µS)	7236	8406	DEWATERED @ 18gal.					6557
Dissolved Oxygen (mg/L)	4.65	4.05						7.46
Dissolved Oxygen (%)	54.6	48.8						86.6
TDS (ppm) mg/L	4972	5729						4557
Turbidity (NTU)	16.5	8.5						1.5

Depth to Water at End of Purge (ft): 19.31 Drawdown (ft): 15.01

Comments:

MISCELLANEOUS DATA

Condition of Traffic Box:	GOOD
Drum Identification labeling:	**Non-Hazardous Waste**
Water Level Indicator:	**Solinst Model 101**
Weather Conditions:	CLEAR

Comments: Sampled Time: 0950 4/28/20

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

4.30 + 0.2 * 19.31 = 7.30

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 15-01587	Date: 4.29.20
Project/Location Malibu, CA Civic Center Area	Well Number: MCWP - MW04D
Observation Period Start: 0915 Stop: 1300	Survey Reference Point: TOC
Sampled By: R.D. MC.	Witnessed By: —

PURGING DATA

Type of Pump	Grundfos.	Pump Inlet Depth (ft)	143
Well Diameter (in)	4	Depth of Well (ft)	145.45
Initial/Static Depth to Water (ft)	10.07	Length of Water Column (ft)	135.38
Product Thickness (ft)	-	Volume Multiplier (gal/ft)	0.65
One Casing Volume (gal)	87.99	Three Casing Volumes (gal)	263.9
Purge Time, Start	0925	Purge Time, Stop	1155
Total Purge Time (minutes)	150	Purge Rate (gpm)	1.7
Purge Volume (gal)	264	Depth to Water (ft) at Sampling	10.07

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	88	176	264				At Sampling
Temperature (C)	20.2	20.3	20.3	20.3				20.4
pH	7.21	7.46	7.44	7.35				7.31
Conductivity (µS)	2270	2271	2269	2280				2302
Dissolved Oxygen (mg/L)	2.51	1.81	1.57	1.60				1.60
Dissolved Oxygen (%)	27.7	20.6	17.5	17.9				18.9
TDS (ppm)	1623	1623	1620	1620				1622
Turbidity (NTU)	4.1	4.4	1.6	0.72				1.0

Depth to Water at End of Purge (ft): 10.24 Drawdown (ft): 0.17

Comments:

MISCELLANEOUS DATA

Condition of Traffic Box: Good

Drum Identification labeling: **Non-Hazardous Waste**

Water Level Indicator: **Solinst Model 101**

Weather Conditions: Overcast.

Comments: Sampled Time: 1200

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

10.07 + 0.2 * 0.17 = 10.10

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 15-01587	Date: 4.28.20
Project/Location Malibu, CA Civic Center Area	Well Number: MCWP-MW07S
Observation Period Start: 1030 Stop: 1125	Survey Reference Point: TOC
Sampled By: MC	Witnessed By: MC + PD

PURGING DATA

Type of Pump	ELECTRIC PUMP	Pump Inlet Depth (ft)	17
Well Diameter (in)	2	Depth of Well (ft)	17.28
Initial/Static Depth to Water (ft)	5.03	Length of Water Column (ft)	12.25
Product Thickness (ft)	-	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.96	Three Casing Volumes (gal)	5.88
Purge Time, Start	1030	Purge Time, Stop	1037
Total Purge Time (minutes)	7	Purge Rate (gpm)	0.6
Purge Volume (gal)	4.0	Depth to Water (ft) at Sampling	~~5.43~~ 5.17

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	2	4	5.8				At Sampling
Temperature (C)	20.4	20.3	20.4	|				20.5
pH	7.27	7.24	7.27	|				7.41
Conductivity (µS)	2204	1571	1983	|				1995
Dissolved Oxygen (mg/L)	3.62	3.86	3.06	Dewatered @ 4.93'				5.76
Dissolved Oxygen (%)	42.0	43.1	34.4					64.6
TDS (ppm)	1636	1117	1414					1412
Turbidity (NTU)	22.86	11.10	143.02	7.05				15.7

Depth to Water at End of Purge (ft) ↓ Drawdown (ft) 12.02

Comments:

MISCELLANEOUS DATA

Condition of Traffic Box:	Good
Drum Identification labeling:	**Non-Hazardous Waste**
Water Level Indicator:	**Solinst Model 101**
Weather Conditions:	Overcast

Comments: Sampled Time: 1110

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

5.03 + 0.2 * 12.02 = ~~7~~ 7.43

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	15-01587	Date:	4·28·20
Project/Location	Malibu, CA Civic Center Area	Well Number:	MCWP - MW07D
Observation Period	Start: 1020 Stop: 1200	Survey Reference Point:	TOC
Sampled By:	P. DORAN	Witnessed By:	MC

PURGING DATA

Type of Pump	GRUNDFOS	Pump Inlet Depth (ft)	125
Well Diameter (in)	2	Depth of Well (ft)	128.14
Initial/Static Depth to Water (ft)	8.26	Length of Water Column (ft)	119.88
Product Thickness (ft)	-	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	19.2	Three Casing Volumes (gal)	57.5
Purge Time, Start	1030	Purge Time, Stop	1110
Total Purge Time (minutes)	40	Purge Rate (gpm)	1.4
Purge Volume (gal)	57.5	Depth to Water (ft) at Sampling	8.28

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	19.5	38.5	57.5				At Sampling
Temperature (C)	22.6	22.7	22.7	22.7				22.6
pH	7.28	7.21	7.20	7.23				6.83
Conductivity (µS)	2410	2490	2576	2600				325.5
Dissolved Oxygen (mg/L)	2.33	1.36	1.65	1.70				3.44
Dissolved Oxygen (%)	26.4	15.8	19.2	19.6				43.0
TDS (ppm)	1646	1692	1751	1768				221
Turbidity (NTU)	2.5	1.1	0.8	0.2				61.85

Depth to Water at End of Purge (ft): 8.40 Drawdown (ft): 0.14

Comments: SEWER SMELL coming from well.

MISCELLANEOUS DATA

Condition of Traffic Box: 1/2 Bolts missing

Drum Identification labeling: **Non-Hazardous Waste**

Water Level Indicator: **Solinst Model 101**

Weather Conditions: OVERCAST.

Comments: Sampled Time: 1140

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

8.26 + 0.2 * 0.14 = 8.29

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	15-01587	Date:	4-28-20
Project/Location	Malibu, CA Civic Center Area	Well Number:	MCWP-MW09
Observation Period	Start: 1120 Stop: 1240	Survey Reference Point:	TOC
Sampled By:	P. DORAN	Witnessed By:	MC

PURGING DATA

Type of Pump	Grundfos	Pump Inlet Depth (ft)	88
Well Diameter (in)	2	Depth of Well (ft)	89.17
Initial/Static Depth to Water (ft)	6.65	Length of Water Column (ft)	82.44
Product Thickness (ft)	-	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	13.2	Three Casing Volumes (gal)	39.6
Purge Time, Start	1135	Purge Time, Stop	1155
Total Purge Time (minutes)	20	Purge Rate (gpm)	2.0
Purge Volume (gal)	40.0	Depth to Water (ft) at Sampling	6.65

CASING OR BOREHOLE VOLUME

0.5-inch Diameter = 0.010 gal/ft	4-inch Diameter = 0.65 gal/ft
0.75-inch Diameter = 0.023 gal/ft	6-inch Diameter = 1.46 gal/ft
1-inch Diameter = 0.041 gal/ft	9-inch Diameter = 3.30 gal/ft
1.5-inch Diameter = 0.092 gal/ft	12-inch Diameter = 5.87 gal/ft
2-inch Diameter = 0.16 gal/ft	15-inch Diameter = 9.18 gal/ft

INDICATOR DATA

Volume Pumped (gal)	Before Purge	13.5	26.5	40.0				At Sampling
Temperature (C)	22.2	22.4	22.4	22.4				22.6
pH	7.39	7.34	7.34	7.36				7.40
Conductivity (µS)	3136	3260	3284	3290				3032
Dissolved Oxygen (mg/L)	1.78	1.75	1.70	1.74				3.54
Dissolved Oxygen (%)	20.5	20.2	19.6	19.8				42.0
TDS (ppm)	2153	2231	2245	2250				2027
Turbidity (NTU)	28.9	8.2	4.0	3.5				6.8

Depth to Water at End of Purge (ft): 7.30 Drawdown (ft): 0.62

Comments:

MISCELLANEOUS DATA

Condition of Traffic Box: 1/2 TABS THISSILY

Drum Identification labeling: **Non-Hazardous Waste**

Water Level Indicator: **Solinst Model 101**

Weather Conditions: CLEAR.

Comments: Sampled Time: 1220

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

6.65 + 0.2 * 0.62 = 6.80

Malibu Civic Center Quartly Surface Water Sampling
Field Data Sheet

Date: 04/28/2020 Sampled By: Jaime McClain / James Grunder

Jan-Mar (Apr-Jun) July-Sep Oct-Dec
(Circle appropriate)

Estuary (Circle appropriate)
Berm: (open) / closed

General Weather Conditions
Dense coastal fog in morning cleared to sunny day in afternoon.

General Wind Conditions
Mild winds ≤ 7 kts out of the west to southwest

Daily Tides: **Low** Time: 0813 Feet: 1.70

High Time: 1622 Feet: 4.40

Location	Time	Sea State	Water Clarity	Water Color	Odors	Floatables	Birds/ wildlife	Photos Taken
		calm	clear	clear	none	none	Type & # land, # water	Y/N
		rough	cloudy	red	rotten eggs	sheen		
			muddy	brown	sewage	oily		
			milky	yellow	chlorine	garbage		
				gray	ammonia	sewage		
N-001	1317	Calm 2-3 Ft swell	Clear	Clear	none	none	1 longbilled curlew	Y
N-002	1300	Calm 2-3 Ft swell	clear	Clear	none	none	2 longbilled curlews	Y
N-003	1242	Calm 2-3 Ft Swell	Clear	Clear	none	none	2 western gulls	Y
N-004	1405	Calm 2-3 Ft swell	Clear	Clear	none	none	none	Y
L-001	1036	N/A	clear	Clear	none	none	2 mallards	Y
L-002	1120	N/A	Cloudy	Brown	none	none	none	Y
L-003	1056	N/A	Cloudy	Brown	rotten eggs	none	1 mallard 20 swallows	Y
L-004	1145	N/A	Cloudy	Brown	none	none	17 Pelicans 19 W. Gulls 5 Koots 1 Egret 1 mallard	Y
L-005	1230	Calm ~~2-3 Ft Swell~~ ~~Cloudy~~	Cloudy	Brown	none	none	9 cormorants 1 canada goose 3 mallards 15 gulls 2 egrets 10 Pelicans	Y
L-006	1205	N/A	Cloudy	Brown	rotten eggs	none	2 swallows	Y

Malibu

Monthly Gauging Sheet

5/28/20

Well ID	Total Well Depth (ft bTOC)	Well Diameter (in)	Time 5/28/20	Depth to Water	Well Head Deficiencies Comments
C-1	14.5	n/a	0955	7.21	
C-2	14.5	2	0956	7.0	
CCPE	52	2	1036	8.76	
CCPNE		2	1039	11.85	
CCPSW		2	10.50	7.95	
CCW-4		1	1117	4.5	
GH6-M1	35	2	1148	26.5	
GH8-M3	40	2	1151	25.61	
GH9-M4	45	2	—	—	BURIED
Lagoon	n/a	n/a	—	—	
LAMW-5S	74	4	0902	52.38	
M6-1	45	2	1201	6.12	
M6-2	20	2	1202	4.5	
M7-1	40	2	11.38	7.5	
M7-2	25	2	1139	6.98	
MBCMW-5	19.4	n/a	1144	16.78	
MBCMW-6	64.26	n/a	—	—	removed
MBCMW-7	52.5	2	1105	11.45	
MBCMW-8	10	2	1106	6.86	
MBCMW-9	9	2	1121	6.5	
MBCMW-10	53	2	1120	8.98	
MCWP-MW01	148	6	0847	10.75	
MCWP-MW02	145	6	1054	11.6	
MCWP-MW03	134	6	0918	8.75	
MCWP-MW04D	145	4	0844	9.91	
MCWP-MW04S	20	4	0840	5.3	
MCWP-MW05	150	4	11.28	8.0	
MCWP-MW06	137	2	1055	10.28	
MCWP-MW07D	134	2	0917	~~21.46~~	8.62
MCWP-MW07S	20	2	0916	5.02	
MCWP-MW08	77	2	0945	8.50	
MCWP-MW09	89	2	0935	~~6.90~~	6.5
MCWP-MW10	22	2	0952	8.05	
P-4	12.5	4	1047	7.3	
P-9	14.3	4	~~1022~~	~~8.68~~	1044 | 7.83
SMBRP-2	25	2	1022	8.68	
SMBRP-6	25	2	1030	14.80	
SMBRP-7b	25	2	1125	9.55	
SMBRP-8 (EG-RC MW01)	60	4	0854	23.67	
SMBRP-9	45	2	0850	35.15	
SMBRP-10C	25	2	0859	3.90	
SMBRP-11	20	2	0925	8.76	
SMBRP-12	25	2	0934	6.99	
SMBRP-13	20	2	0945	8.9	
SMBRP-15b	25	1	—	—	DRY
SMBRP-16	25	2	1111	3.4	

Malibu

Monthly Gauging Sheet

Well ID	Total Well Depth (ft bTOC)	Well Diameter (in)	Time / / 6/12/20	Depth to Water	Well Head Deficiencies Comments
C-1	14.5	n/a	1016	7.2	
C-2	14.5	2	1015	7.1	
CCPE	52	2	1049	11.35	
CCPNE		2	1045	8.81	
CCPSW		2	1058	8.3	
CCW-4		1	0929	4.99	
GH6-M1	35	2	1118	26.5	
GH8-M3	40	2	1121	25.82	
~~GH9-M4~~	~~45~~	~~2~~	~~—~~	~~—~~	BURIED
Lagoon	n/a	n/a	—	—	
LAMW-5S	74	4	0920	52.74	
M6-1	45	2	1112	7.75	
M6-2	20	2	1113	7.03	
M7-1	40	2	1124	6.59	
M7-2	25	2	1125	4.80	
MBCMW-5	19.4	n/a	1115	17.0	
MBCMW-6	64.26	n/a	—	—	REMOVED
MBCMW-7	52.5	2	0902	11.82	
MBCMW-8	10	2	0903	7.42	
MBCMW-9	9	2	0930	6.8	
MBCMW-10	53	2	0931	9.42	
MCWP-MW01	148	6	0854	11.2	
MCWP-MW02	145	6	1103	1212	
MCWP-MW03	134	6	0947	9.1	
MCWP-MW04D	145	4	0855	10.4	
MCWP-MW04S	20	4	0856	5.85	
MCWP-MW05	150	4	0938	8.45	
MCWP-MW06	137	2	1102	10.70	
MCWP-MW07D	134	2	0948	9.0	
MCWP-MW07S	20	2	0949	5.05	
MCWP-MW08	77	2	1003	8.8	
MCWP-MW09	89	2	0957	6.9	
MCWP-MW10	22	2		~~8.8~~	PARKED OVER
P-4	12.5	4	1055	7.5	
P-9	14.3	4	1053	7.8	
SMBRP-2	25	2	1034	8.89	
SMBRP-6	25	2	1040	15.28	
SMBRP-7b	25	2	0942	9.86	
SMBRP-8 (EG-RC MW01)	60	4	0915	23.8	
SMBRP-9	45	2	0910	34.98	
SMBRP-10C	25	2	0919	4.79	
SMBRP-11	20	2			PARKED OVER
SMBRP-12	25	2	0957	7.08	
SMBRP-13	20	2	1004	9.12	
~~SMBRP-15b~~	~~25~~	~~1~~	~~—~~	~~—~~	DRY
SMBRP-16	25	2	0925	3.9	

Appendix B

Laboratory Analytical Reports

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

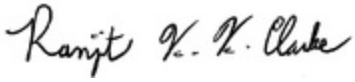
Lab Job Number: 427576
Report Level: II
Report Date: 05/07/2020

Analytical Report *prepared for:*

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Location: Malibu - Quarterly/Semi-Annual

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.

ENTHALPY ANALYTICAL

Sample Summary

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #: 427576
Location: Malibu - Quarterly/Semi-Annual
Date Received: 04/28/20

Sample ID	Lab ID	Collected	Matrix
LAMW-5S	427576-001	04/28/20 09:10	Water
SMBRP-11	427576-002	04/28/20 10:00	Water
SMBRP-12	427576-003	04/28/20 12:25	Water
MCWP-MW04S	427576-004	04/28/20 09:50	Water
MCWP-MW07S	427576-005	04/28/20 11:10	Water
MCWP-MW07D	427576-006	04/28/20 11:40	Water
MCWP-MW09	427576-007	04/28/20 12:20	Water

Case Narrative

Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003
Kiernan Brtalik

Lab Job Number: 427576
Location: Malibu - Quarterly/Semi-Annual
Date Received: 04/28/20

This data package contains sample and QC results for seven water samples, requested for the above referenced project on 04/28/20. The samples were received cold and intact.

Metals (EPA 200.7):
No analytical problems were encountered.

Ion Chromatography (EPA 300.0):
Low recoveries were observed for nitrogen, nitrite in the MS/MSD of N-001 (lab # 427580-001); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Total Carbon by High-Temperature Combust (SM 5310B):
No analytical problems were encountered.

Total Phosphorus as P (SM 4500-P-B5-E):
No analytical problems were encountered.

Total Oil & Grease (HEM) (EPA 1664A):
No analytical problems were encountered.

Total Notrogen, by Calculation (TOTAL NITROGEN):
No analytical problems were encountered.

Organic Nitrogen, by Calculation (ORGANIC NITROGEN):
No analytical problems were encountered.

Total Dissolved Solids (TDS) (SM2540C):
No analytical problems were encountered.

Total Suspended Solids (TSS) (SM2540D):
No analytical problems were encountered.

Free Chlorine (SM 4500-CL-G):
No analytical problems were encountered.

pH of Aqueous Samples (SM 4500-H+ B):
No analytical problems were encountered.

Soluble Biochemical Oxygen Demand (SM5210B):
No analytical problems were encountered.

Odor (SM 2150B):
No analytical problems were encountered.

Turbidity (SM2130B):
No analytical problems were encountered.

Color by Visual Comparison (SM2120B):
No analytical problems were encountered.

Surfactants (MBAS) (SM5540C):
No analytical problems were encountered.

Total Coliform / E. coli by Quanti-Tray (SM 9223Bb):
No analytical problems were encountered.

Ammonia and TKN- Semi-Automated Method (SM 4500-NH3-G):
Low recovery was observed for nitrogen, total kjeldahl in the MS for batch 245318; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

ENTHALPHY ANALYTICAL, INC.		Chain of Custody Record				Turn Around Time (Rush by advanced notice only)					
931 W. Barkley Ave., Orange, CA 92868	ENTHALPY analytical, inc.	Lab No: 427576				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 = Na2S2O3 2 = HCl 3 = HNO3 4 = H2SO4 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 - Quarterly/Semi-Annual
Report To:	Kiernan Brtalik	Number:	
Email:	KBrtalik@RinconConsultants.com	P.O. #:	15-01587
Address:	180 N. Ashwood Ave.	Address:	
	Ventura, CA 93003		
Phone:	8056444455	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)	EPA 300.0: Cl,NO2,NO3,SO4	TKN; NH3; Phosphorus	SM 5310C TOC; BOD; TSS; TDS	pH; Residual Cl; MBAS; Turbidity; Color; Odor	EPA 1664A Oil & Grease	Organic Nitrogen, Total Nitrogen			Test Instructions / Comments
LAMW-5S	4/28/20	0910	W	12		X	X	X	X	X	X	X	X			
~~SMBRP-9~~						X	X	X	X	X	X	X	X			PD
SMBRP-11	4/28/20	1000	W	12		X	X	X	X	X	X	X	X			
SMBRP-12	4/28/20	1225	W	12		X	X	X	X	X	X	X	X			
MCWP-MW04S	4/28/20	0950	W	12		X	X	X	X	X	X	X	X			
~~MCWP-MW04D~~						X	X	X	X	X	X	X	X			PD
MCWP-MW07S	4/28/20	1110	W	12		X	X	X	X	X	X	X	X			
MCWP-MW07D	4/28/20	1140	W	12		X	X	X	X	X	X	X	X			
MCWP-MW09	4/28/20	1220	W	12		X	X	X	X	X	X	X	X			

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		MICHELLE CARTER	RINCON CONSULTANTS INC.	4/28/20 / 1350
1 Received By:		HAO ZHAN	ENTHALPY	4/28/20 1352
2 Relinquished By:		HAO ZHAN	Enthalpy	4/28/20 1553
2 Received By:		FEDEX 2 DAY	ER	4/28/20 1553
3 Relinquished By:				
3 Received By:				

0.9 / 4-5

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: _____

Date Received: 4/28/20 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: 4.5 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 0.9 #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: 4/28/20

ENTHALPY ANALYTICAL

Analysis Results for 427576

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #: 427576
Location: Malibu - Quarterly/Semi-Annual
Date Received: 04/28/20

Sample ID: LAMW-5S **Lab ID: 427576-001** **Collected: 04/28/20 09:10**
Matrix: Water

427576-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 1664A Prep Method: METHOD										
Total Oil and Grease	ND		mg/L	5.6	1.6	1.1	245421	04/30/20	05/01/20	ECC
Method: EPA 200.7 Prep Method: EPA 200.7										
Boron	**0.18**	b	mg/L	0.050	0.030	1	245262	04/29/20	04/30/20	SBW
Method: EPA 300.0 Prep Method: METHOD										
Chloride	**100**		mg/L	1.0	0.086	1	245238	04/28/20 12:00	04/28/20 23:59	RKV
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	1	245238	04/28/20 12:00	04/28/20 17:38	RKV
Nitrogen, Nitrate	**8.1**		mg/L	0.10	0.01	1	245238	04/28/20 12:00	04/28/20 17:38	RKV
Sulfate	**140**		mg/L	10	0.77	10	245238	04/28/20 12:00	04/28/20 23:59	RKV
Method: EPA 351.2 Prep Method: METHOD										
Nitrogen, Total Kjeldahl	**0.32**	J	mg/L	0.40	0.052	1	245318	04/29/20	04/30/20	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.32**		mg/L			1	245641	05/07/20	05/07/20	SLL
Method: SM 2150B										
Odor	ND		TON	1.0		1	245231	04/28/20 17:00	04/28/20 17:00	WWC
Method: SM 4500-CL-G										
Chlorine, Total Residual	**0.032**	H,J	mg/L	0.10	0.016	1	245289	04/29/20 17:26	04/29/20 17:26	WWC
Method: SM 4500-H+ B										
pH	**7.01**	H	SU			1	245512	04/29/20 11:27	04/29/20 11:27	WWC
Temperature	**16.30**	H	deg C	1.00		1	245512	04/29/20 11:27	04/29/20 11:27	WWC
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	245465	05/04/20	05/04/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.98**		mg/L	0.040	0.020	2	245634	05/07/20	05/07/20	ATP
Method: SM 5310B										
Total Organic Carbon	**3.3**		mg/L	1.0	0.091	1	245354	04/30/20	04/30/20	ECC
Method: SM 9223Bb										
Fecal Coliform	<0		MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Coliform, Total	**2,400**	>	MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Method: SM2120B										
Color	ND		ColorUnits	5		1	245232	04/28/20 17:00	04/28/20 17:00	WWC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 427576

427576-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM2130B										
Turbidity	**18**		NTU	0.10	0.07	1	245233	04/28/20 17:00	04/28/20 17:00	WWC
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**560**		mg/L	20		2	245371	04/30/20	05/01/20	WWC
Method: SM2540D Prep Method: METHOD										
Total Suspended Solids	**27**		mg/L	0.6	0.6	1.1	245254	04/28/20	04/29/20	NLP
Method: SM5210B Prep Method: METHOD										
Biochemical Oxygen Demand	ND		mg/L	3.0		1	245275	04/29/20 11:27	05/04/20 12:00	WWC
Method: SM5540C										
Surfactants (MBAS)	**0.067**		mg/L	0.040	0.027	1	245323	04/29/20 15:00	04/29/20 18:40	NLP
Method: TOTAL NITROGEN										
Total Nitrogen	**8.4**		mg/L			1	245391	05/01/20	05/01/20	SLL

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 427576

Sample ID: SMBRP-11	Lab ID: 427576-002	Collected: 04/28/20 10:00
	Matrix: Water	

427576-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 1664A Prep Method: METHOD										
Total Oil and Grease	ND		mg/L	5.6	1.6	1.1	245421	04/30/20	05/01/20	ECC
Method: EPA 200.7 Prep Method: EPA 200.7										
Boron	**0.53**	b	mg/L	0.050	0.030	1	245262	04/29/20	04/30/20	SBW
Method: EPA 300.0 Prep Method: METHOD										
Chloride	**260**		mg/L	10	0.86	10	245238	04/28/20 12:00	04/29/20 23:59	RKV
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	1	245238	04/28/20 12:00	04/28/20 18:02	RKV
Nitrogen, Nitrate	**2.4**		mg/L	0.10	0.01	1	245238	04/28/20 12:00	04/28/20 18:02	RKV
Sulfate	**470**		mg/L	10	0.77	10	245238	04/28/20 12:00	04/29/20 23:59	RKV
Method: EPA 351.2 Prep Method: METHOD										
Nitrogen, Total Kjeldahl	**2.5**		mg/L	0.40	0.052	1	245318	04/29/20	04/30/20	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.20**		mg/L			1	245641	05/07/20	05/07/20	SLL
Method: SM 2150B										
Odor	ND		TON	1.0		1	245231	04/28/20 17:00	04/28/20 17:00	WWC
Method: SM 4500-CL-G										
Chlorine, Total Residual	**0.64**	H	mg/L	0.10	0.016	1	245289	04/29/20 17:26	04/29/20 17:26	WWC
Method: SM 4500-H+ B										
pH	**7.10**	H	SU			1	245512	04/29/20 11:30	04/29/20 11:30	WWC
Temperature	**16.90**	H	deg C	1.00		1	245512	04/29/20 11:30	04/29/20 11:30	WWC
Method: SM 4500-NH3-G										
Ammonia-N	**2.3**		mg/L	0.10	0.010	1	245465	05/04/20	05/04/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.037**		mg/L	0.020	0.010	1	245634	05/07/20	05/07/20	ATP
Method: SM 5310B										
Total Organic Carbon	**11**		mg/L	1.0	0.091	1	245354	04/30/20	04/30/20	ECC
Method: SM 9223Bb										
Fecal Coliform	<0		MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Coliform, Total	**9.8**		MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Method: SM2120B										
Color	ND		ColorUnits	5		1	245232	04/28/20 17:00	04/28/20 17:00	WWC
Method: SM2130B										
Turbidity	**110**		NTU	0.10	0.07	1	245233	04/28/20 17:00	04/28/20 17:00	WWC
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**950**		mg/L	20		2	245371	04/30/20	05/01/20	WWC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 427576

427576-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM2540D Prep Method: METHOD										
Total Suspended Solids	**170**		mg/L	2.0	2.0	4	245254	04/28/20	04/29/20	NLP
Method: SM5210B Prep Method: METHOD										
Biochemical Oxygen Demand	**3.1**		mg/L	3.0		1	245275	04/29/20 11:30	05/04/20 12:00	WWC
Method: SM5540C										
Surfactants (MBAS)	**0.040**		mg/L	0.040	0.027	1	245323	04/29/20 15:00	04/29/20 18:40	NLP
Method: TOTAL NITROGEN										
Total Nitrogen	**4.9**		mg/L			1	245391	05/01/20	05/01/20	SLL

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 427576

Sample ID: SMBRP-12	Lab ID: 427576-003	Collected: 04/28/20 12:25
	Matrix: Water	

427576-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 1664A Prep Method: METHOD										
Total Oil and Grease	ND		mg/L	5.6	1.6	1.1	245421	04/30/20	05/01/20	ECC
Method: EPA 200.7 Prep Method: EPA 200.7										
Boron	**0.33**	b	mg/L	0.050	0.030	1	245262	04/29/20	04/30/20	SBW
Method: EPA 300.0 Prep Method: METHOD										
Chloride	**120**		mg/L	1.0	0.086	1	245238	04/28/20 12:00	04/28/20 23:59	RKV
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	1	245238	04/28/20 12:00	04/28/20 18:27	RKV
Nitrogen, Nitrate	**0.06**	J	mg/L	0.10	0.01	1	245238	04/28/20 12:00	04/28/20 18:27	RKV
Sulfate	**90**		mg/L	1.0	0.077	1	245238	04/28/20 12:00	04/28/20 23:59	RKV
Method: EPA 351.2 Prep Method: METHOD										
Nitrogen, Total Kjeldahl	**9.1**		mg/L	0.80	0.10	2	245318	04/29/20	04/30/20	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**1.4**		mg/L			1	245641	05/07/20	05/07/20	SLL
Method: SM 2150B										
Odor	ND		TON	1.0		1	245231	04/28/20 17:00	04/28/20 17:00	WWC
Method: SM 4500-CL-G										
Chlorine, Total Residual	**0.22**	H	mg/L	0.10	0.016	1	245289	04/29/20 17:26	04/29/20 17:26	WWC
Method: SM 4500-H+ B										
pH	**7.09**	H	SU			1	245512	04/29/20 11:31	04/29/20 11:31	WWC
Temperature	**15.90**	H	deg C	1.00		1	245512	04/29/20 11:31	04/29/20 11:31	WWC
Method: SM 4500-NH3-G										
Ammonia-N	**7.7**		mg/L	0.50	0.050	5	245465	05/04/20	05/04/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.71**		mg/L	0.020	0.010	1	245634	05/07/20	05/07/20	ATP
Method: SM 5310B										
Total Organic Carbon	**11**		mg/L	1.0	0.091	1	245354	04/30/20	04/30/20	ECC
Method: SM 9223Bb										
Fecal Coliform	**440**		MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Coliform, Total	**2,400**	>	MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Method: SM2120B										
Color	ND		ColorUnits	5		1	245232	04/28/20 17:00	04/28/20 17:00	WWC
Method: SM2130B										
Turbidity	**52**		NTU	0.10	0.07	1	245233	04/28/20 17:00	04/28/20 17:00	WWC
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**1,400**		mg/L	20		2	245371	04/30/20	05/01/20	WWC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 427576

427576-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM2540D Prep Method: METHOD										
Total Suspended Solids	**140**		mg/L	1.4	1.4	2.9	245254	04/28/20	04/29/20	NLP
Method: SM5210B Prep Method: METHOD										
Biochemical Oxygen Demand	**8.0**		mg/L	3.0		1	245275	04/29/20 11:31	05/04/20 12:00	WWC
Method: SM5540C										
Surfactants (MBAS)	**1.3**		mg/L	0.20	0.14	5	245323	04/29/20 15:00	04/29/20 18:40	NLP
Method: TOTAL NITROGEN										
Total Nitrogen	**9.2**		mg/L			1	245391	05/01/20	05/01/20	SLL

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 427576

Sample ID: MCWP-MW04S	Lab ID: 427576-004	Collected: 04/28/20 09:50
	Matrix: Water	

427576-004 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 1664A Prep Method: METHOD										
Total Oil and Grease	ND		mg/L	5.6	1.6	1.1	245421	04/30/20	05/01/20	ECC
Method: EPA 200.7 Prep Method: EPA 200.7										
Boron	**1.4**	b	mg/L	0.050	0.030	1	245262	04/29/20	04/30/20	SBW
Method: EPA 300.0 Prep Method: METHOD										
Chloride	**630**		mg/L	10	0.86	10	245238	04/28/20 12:00	04/29/20 23:59	RKV
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	1	245238	04/28/20 12:00	04/28/20 18:51	RKV
Nitrogen, Nitrate	**2.7**		mg/L	0.10	0.01	1	245238	04/28/20 12:00	04/28/20 18:51	RKV
Sulfate	**2,500**		mg/L	50	3.9	50	245238	04/28/20 12:00	04/28/20 23:59	RKV
Method: EPA 351.2 Prep Method: METHOD										
Nitrogen, Total Kjeldahl	**0.82**		mg/L	0.40	0.052	1	245318	04/29/20	04/30/20	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.82**		mg/L			1	245641	05/07/20	05/07/20	SLL
Method: SM 2150B										
Odor	ND		TON	1.0		1	245231	04/28/20 17:00	04/28/20 17:00	WWC
Method: SM 4500-CL-G										
Chlorine, Total Residual	**0.15**	H	mg/L	0.10	0.016	1	245289	04/29/20 17:26	04/29/20 17:26	WWC
Method: SM 4500-H+ B										
pH	**7.24**	H	SU			1	245512	04/29/20 11:33	04/29/20 11:33	WWC
Temperature	**16.10**	H	deg C	1.00		1	245512	04/29/20 11:33	04/29/20 11:33	WWC
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	245465	05/04/20	05/04/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.34**		mg/L	0.020	0.010	1	245634	05/07/20	05/07/20	ATP
Method: SM 5310B										
Total Organic Carbon	**24**		mg/L	1.0	0.091	1	245354	04/30/20	04/30/20	ECC
Method: SM 9223Bb										
Fecal Coliform	<0		MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Coliform, Total	**870**		MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Method: SM2120B										
Color	ND		ColorUnits	5		1	245232	04/28/20 17:00	04/28/20 17:00	WWC
Method: SM2130B										
Turbidity	**7.0**		NTU	0.10	0.07	1	245233	04/28/20 17:00	04/28/20 17:00	WWC
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**5,300**		mg/L	20		2	245371	04/30/20	05/01/20	WWC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 427576

427576-004 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM2540D Prep Method: METHOD										
Total Suspended Solids	**3.1**		mg/L	0.6	0.6	1.1	245254	04/28/20	04/29/20	NLP
Method: SM5210B Prep Method: METHOD										
Biochemical Oxygen Demand	ND		mg/L	3.0		1	245275	04/29/20 11:33	05/04/20 12:00	WWC
Method: SM5540C										
Surfactants (MBAS)	**0.52**		mg/L	0.080	0.054	2	245323	04/29/20 15:00	04/29/20 18:40	NLP
Method: TOTAL NITROGEN										
Total Nitrogen	**3.5**		mg/L			1	245391	05/01/20	05/01/20	SLL

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 427576

Sample ID: MCWP-MW07S	Lab ID: 427576-005	Collected: 04/28/20 11:10
	Matrix: Water	

427576-005 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 1664A Prep Method: METHOD										
Total Oil and Grease	ND		mg/L	5.3	1.5	1.1	245421	04/30/20	05/01/20	ECC
Method: EPA 200.7 Prep Method: EPA 200.7										
Boron	**0.30**	b	mg/L	0.050	0.030	1	245262	04/29/20	04/30/20	SBW
Method: EPA 300.0 Prep Method: METHOD										
Chloride	**210**		mg/L	10	0.86	10	245238	04/28/20 12:00	04/29/20 23:59	RKV
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	1	245238	04/28/20 12:00	04/28/20 19:16	RKV
Nitrogen, Nitrate	**3.4**		mg/L	0.10	0.01	1	245238	04/28/20 12:00	04/28/20 19:16	RKV
Sulfate	**240**		mg/L	10	0.77	10	245238	04/28/20 12:00	04/29/20 23:59	RKV
Method: EPA 351.2 Prep Method: METHOD										
Nitrogen, Total Kjeldahl	**0.58**		mg/L	0.40	0.052	1	245318	04/29/20	04/30/20	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.55**		mg/L			1	245641	05/07/20	05/07/20	SLL
Method: SM 2150B										
Odor	ND		TON	1.0		1	245231	04/28/20 17:00	04/28/20 17:00	WWC
Method: SM 4500-CL-G										
Chlorine, Total Residual	**0.11**	H	mg/L	0.10	0.016	1	245289	04/29/20 17:26	04/29/20 17:26	WWC
Method: SM 4500-H+ B										
pH	**7.12**	H	SU			1	245512	04/29/20 11:35	04/29/20 11:35	WWC
Temperature	**16.40**	H	deg C	1.00		1	245512	04/29/20 11:35	04/29/20 11:35	WWC
Method: SM 4500-NH3-G										
Ammonia-N	**0.031**	J	mg/L	0.10	0.010	1	245465	05/04/20	05/04/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.070**		mg/L	0.020	0.010	1	245634	05/07/20	05/07/20	ATP
Method: SM 5310B										
Total Organic Carbon	**8.5**		mg/L	1.0	0.091	1	245354	04/30/20	04/30/20	ECC
Method: SM 9223Bb										
Fecal Coliform	**15**		MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Coliform, Total	**2,400**	>	MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Method: SM2120B										
Color	ND		ColorUnits	5		1	245232	04/28/20 17:00	04/28/20 17:00	WWC
Method: SM2130B										
Turbidity	**33**		NTU	0.10	0.07	1	245233	04/28/20 17:00	04/28/20 17:00	WWC
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**1,100**		mg/L	20		2	245371	04/30/20	05/01/20	WWC

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 427576

427576-005 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM2540D Prep Method: METHOD										
Total Suspended Solids	**84**		mg/L	1.0	1.0	2	245254	04/28/20	04/29/20	NLP
Method: SM5210B Prep Method: METHOD										
Biochemical Oxygen Demand	**3.5**		mg/L	3.0		1	245275	04/29/20 11:35	05/04/20 12:00	WWC
Method: SM5540C										
Surfactants (MBAS)	**0.46**		mg/L	0.080	0.054	2	245323	04/29/20 15:00	04/29/20 18:40	NLP
Method: TOTAL NITROGEN										
Total Nitrogen	**4.0**		mg/L			1	245391	05/01/20	05/01/20	SLL

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 427576

Sample ID: MCWP-MW07D	Lab ID: 427576-006	Collected: 04/28/20 11:40
	Matrix: Water	

427576-006 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 1664A Prep Method: METHOD										
Total Oil and Grease	**2.1**	J	mg/L	5.6	1.6	1.1	245561	05/05/20	05/05/20	ECC
Method: EPA 200.7 Prep Method: EPA 200.7										
Boron	ND	b	mg/L	0.050	0.030	1	245262	04/29/20	04/30/20	SBW
Method: EPA 300.0 Prep Method: METHOD										
Chloride	**20**		mg/L	1.0	0.086	1	245238	04/28/20 12:00	04/28/20 23:59	RKV
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	1	245238	04/28/20 12:00	04/28/20 19:40	RKV
Nitrogen, Nitrate	**0.04**	J	mg/L	0.10	0.01	1	245238	04/28/20 12:00	04/28/20 19:40	RKV
Sulfate	**11**		mg/L	1.0	0.077	1	245238	04/28/20 12:00	04/28/20 23:59	RKV
Method: EPA 351.2 Prep Method: METHOD										
Nitrogen, Total Kjeldahl	**1.8**		mg/L	0.40	0.052	1	245318	04/29/20	04/30/20	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.10**		mg/L			1	245641	05/07/20	05/07/20	SLL
Method: SM 2150B										
Odor	ND		TON	1.0		1	245231	04/28/20 17:00	04/28/20 17:00	WWC
Method: SM 4500-CL-G										
Chlorine, Total Residual	**0.39**	H	mg/L	0.10	0.016	1	245289	04/29/20 17:26	04/29/20 17:26	WWC
Method: SM 4500-H+ B										
pH	**6.35**	H	SU			1	245512	04/29/20 11:40	04/29/20 11:40	WWC
Temperature	**16.40**	H	deg C	1.00		1	245512	04/29/20 11:40	04/29/20 11:40	WWC
Method: SM 4500-NH3-G										
Ammonia-N	**1.7**		mg/L	0.10	0.010	1	245465	05/04/20	05/04/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.096**		mg/L	0.020	0.010	1	245634	05/07/20	05/07/20	ATP
Method: SM 5310B										
Total Organic Carbon	**16**		mg/L	1.0	0.091	1	245354	04/30/20	04/30/20	ECC
Method: SM 9223Bb										
Fecal Coliform	**870**		MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Coliform, Total	**2,400**	>	MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Method: SM2120B										
Color	ND		ColorUnits	5		1	245232	04/28/20 17:00	04/28/20 17:00	WWC
Method: SM2130B										
Turbidity	**130**		NTU	0.10	0.07	1	245233	04/28/20 17:00	04/28/20 17:00	WWC
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**92**		mg/L	20		2	245371	04/30/20	05/01/20	WWC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 427576

427576-006 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM2540D Prep Method: METHOD										
Total Suspended Solids	**140**		mg/L	5.0	5.0	10	245254	04/28/20	04/29/20	NLP
Method: SM5210B Prep Method: METHOD										
Biochemical Oxygen Demand	**15**		mg/L	3.0		1	245275	04/29/20 11:40	05/04/20 12:00	WWC
Method: SM5540C										
Surfactants (MBAS)	**2.1**		mg/L	0.080	0.054	2	245323	04/29/20 15:00	04/29/20 18:40	NLP
Method: TOTAL NITROGEN										
Total Nitrogen	**1.8**		mg/L			1	245391	05/01/20	05/01/20	SLL

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 427576

Sample ID: MCWP-MW09	Lab ID: 427576-007	Collected: 04/28/20 12:20
	Matrix: Water	

427576-007 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 1664A Prep Method: METHOD										
Total Oil and Grease	ND		mg/L	5.6	1.6	1.1	245561	05/05/20	05/05/20	ECC
Method: EPA 200.7 Prep Method: EPA 200.7										
Boron	**0.66**	b	mg/L	0.050	0.030	1	245262	04/29/20	04/30/20	SBW
Method: EPA 300.0 Prep Method: METHOD										
Chloride	**430**		mg/L	10	0.86	10	245238	04/28/20 12:00	04/29/20 23:59	RKV
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	1	245238	04/28/20 12:00	04/28/20 20:04	RKV
Nitrogen, Nitrate	**0.08**	J	mg/L	0.10	0.01	1	245238	04/28/20 12:00	04/28/20 20:04	RKV
Sulfate	**500**		mg/L	10	0.77	10	245238	04/28/20 12:00	04/29/20 23:59	RKV
Method: EPA 351.2 Prep Method: METHOD										
Nitrogen, Total Kjeldahl	**3.2**		mg/L	0.40	0.052	1	245318	04/29/20	04/30/20	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**1.8**		mg/L			1	245641	05/07/20	05/07/20	SLL
Method: SM 2150B										
Odor	ND		TON	1.0		1	245231	04/28/20 17:00	04/28/20 17:00	WWC
Method: SM 4500-CL-G										
Chlorine, Total Residual	**0.066**	H,J	mg/L	0.10	0.016	1	245289	04/29/20 17:26	04/29/20 17:26	WWC
Method: SM 4500-H+ B										
pH	**7.47**	H	SU			1	245512	04/29/20 11:45	04/29/20 11:45	WWC
Temperature	**17.10**	H	deg C	1.00		1	245512	04/29/20 11:45	04/29/20 11:45	WWC
Method: SM 4500-NH3-G										
Ammonia-N	**1.4**		mg/L	0.10	0.010	1	245465	05/04/20	05/04/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.22**		mg/L	0.020	0.010	1	245634	05/07/20	05/07/20	ATP
Method: SM 5310B										
Total Organic Carbon	**10**		mg/L	1.0	0.091	1	245354	04/30/20	04/30/20	ECC
Method: SM 9223Bb										
Fecal Coliform	**210**		MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Coliform, Total	**1,100**		MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Method: SM2120B										
Color	ND		ColorUnits	5		1	245232	04/28/20 17:00	04/28/20 17:00	WWC
Method: SM2130B										
Turbidity	**29**		NTU	0.10	0.07	1	245233	04/28/20 17:00	04/28/20 17:00	WWC
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**1,500**		mg/L	20		2	245371	04/30/20	05/01/20	WWC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 427576

427576-007 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM2540D Prep Method: METHOD										
Total Suspended Solids	**9.6**		mg/L	0.6	0.6	1.1	245254	04/28/20	04/29/20	NLP
Method: SM5210B Prep Method: METHOD										
Biochemical Oxygen Demand	**7.5**		mg/L	3.0		1	245275	04/29/20 11:45	05/04/20 12:00	WWC
Method: SM5540C										
Surfactants (MBAS)	**2.0**		mg/L	0.080	0.054	2	245323	04/29/20 15:00	04/29/20 18:40	NLP
Method: TOTAL NITROGEN										
Total Nitrogen	**3.3**		mg/L			1	245391	05/01/20	05/01/20	SLL

< Value is less than indicated concentration
> Value exceeds indicated concentration
H Holding time was exceeded
J Estimated value
ND Not Detected
b See narrative

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank **Lab ID: QC867860** **Batch: 245634**
Matrix: Water **Method: SM 4500-P-B5-E**

QC867860 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Phosphorus	ND		mg/L	0.020	0.010	05/07/20	05/07/20

Type: Lab Control Sample **Lab ID: QC867861** **Batch: 245634**
Matrix: Water **Method: SM 4500-P-B5-E**

QC867861 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phosphorus	0.3830	0.4000	mg/L	96%		80-120

Type: Matrix Spike **Lab ID: QC867862** **Batch: 245634**
Matrix (Source ID): Water (427580-010) **Method: SM 4500-P-B5-E**

QC867862 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phosphorus	0.7180	0.3460	0.4000	mg/L	93%		75-125	1

Type: Matrix Spike Duplicate **Lab ID: QC867863** **Batch: 245634**
Matrix (Source ID): Water (427580-010) **Method: SM 4500-P-B5-E**

QC867863 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phosphorus	0.7170	0.3460	0.4000	mg/L	93%		75-125	0	20	1

Type: Sample Duplicate **Lab ID: QC866929** **Batch: 245231**
Matrix (Source ID): Water (427576-007) **Method: SM 2150B**

QC866929 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Odor	ND	ND	TON			20	1

Type: Blank **Lab ID: QC866995** **Batch: 245262**
Matrix: Water **Method: EPA 200.7** **Prep Method: EPA 200.7**

QC866995 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Boron	ND	b	mg/L	0.050	0.030	04/29/20	04/30/20

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	Lab ID: QC866996	Batch: 245262
Matrix: Water	Method: EPA 200.7	Prep Method: EPA 200.7

QC866996 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Boron	1.873	2.000	mg/L	94%	b	85-115

Type: Sample Spike	Lab ID: QC866997	Batch: 245262
Matrix (Source ID): Water (427553-001)	Method: EPA 200.7	Prep Method: EPA 200.7

QC866997 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Boron	5.403	4.638	1.000	mg/L		b,NM	75-125	25

Type: Sample Spike	Lab ID: QC866998	Batch: 245262
Matrix (Source ID): Water (427597-001)	Method: EPA 200.7	Prep Method: EPA 200.7

QC866998 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Boron	7.460	6.305	1.000	mg/L	116%	b,NM	75-125	10

Type: Blank	Lab ID: QC867249	Batch: 245371
Matrix: Drinking Water	Method: SM2540C	Prep Method: METHOD

QC867249 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Dissolved Solids	ND		mg/L	10		04/30/20	05/01/20

Type: Lab Control Sample	Lab ID: QC867250	Batch: 245371
Matrix: Drinking Water	Method: SM2540C	Prep Method: METHOD

QC867250 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Dissolved Solids	94.00	100.0	mg/L	94%		90-110

Type: Sample Duplicate	Lab ID: QC867251	Batch: 245371
Matrix (Source ID): Drinking Water (427611-001)	Method: SM2540C	Prep Method: METHOD

QC867251 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Dissolved Solids	346.0	346.0	mg/L		0	5	2

ENTHALPY ANALYTICAL

Batch QC

Type: Blank **Lab ID: QC867473** **Batch: 245465**
Matrix: Water **Method: SM 4500-NH3-G**

QC867473 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Ammonia-N	ND		mg/L	0.10	0.010	05/04/20	05/04/20

Type: Lab Control Sample **Lab ID: QC867474** **Batch: 245465**
Matrix: Water **Method: SM 4500-NH3-G**

QC867474 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Ammonia-N	2.360	2.500	mg/L	94%		80-120

Type: Matrix Spike **Lab ID: QC867475** **Batch: 245465**
Matrix (Source ID): Water (427576-001) **Method: SM 4500-NH3-G**

QC867475 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Ammonia-N	2.400	ND	2.500	mg/L	96%		80-120	1

Type: Matrix Spike Duplicate **Lab ID: QC867476** **Batch: 245465**
Matrix (Source ID): Water (427576-001) **Method: SM 4500-NH3-G**

QC867476 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Ammonia-N	2.450	ND	2.500	mg/L	98%		80-120	2	20	1

Type: Blank **Lab ID: QC866971** **Batch: 245254**
Matrix: Water **Method: SM2540D** **Prep Method: METHOD**

QC866971 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Suspended Solids	ND		mg/L	0.5	0.5	04/28/20	04/29/20

Type: Sample Duplicate **Lab ID: QC866972** **Batch: 245254**
Matrix (Source ID): Water (427576-006) **Method: SM2540D** **Prep Method: METHOD**

QC866972 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Suspended Solids	145.0	143.0	mg/L		1	5	10

ENTHALPY ANALYTICAL

Batch QC

Type:	**Sample Duplicate**	**Lab ID:**	**QC867574**	**Batch:**	**245512**
Matrix (Source ID):	**Water (427552-001)**	**Method:**	**SM 4500-H+ B**		

QC867574 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
pH	8.100	8.090	SU		0	20	1
Temperature	14.20	14.20	deg C		0	20	1

Type:	**Blank**	**Lab ID:**	**QC866938**	**Batch:**	**245238**
Matrix:	**Water**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC866938 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Chloride	ND		mg/L	1.0	0.086	04/28/20 12:00	04/28/20 23:59
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	04/28/20 12:00	04/28/20 16:19
Nitrogen, Nitrate	ND		mg/L	0.10	0.01	04/28/20 12:00	04/28/20 16:19
Sulfate	ND		mg/L	1.0	0.077	04/28/20 12:00	04/28/20 23:59

Type:	**Lab Control Sample**	**Lab ID:**	**QC866939**	**Batch:**	**245238**
Matrix:	**Water**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC866939 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chloride	107.3	100.0	mg/L	107%		90-110
Nitrogen, Nitrite	9.627	9.150	mg/L	105%		90-110
Nitrogen, Nitrate	9.871	9.030	mg/L	109%		90-110
Sulfate	53.63	50.00	mg/L	107%		90-110

Type:	**Matrix Spike**	**Lab ID:**	**QC866940**	**Batch:**	**245238**
Matrix (Source ID):	**Water (427580-001)**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC866940 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Chloride	19,300	19690	100.0	mg/L	-398%	*,NM	80-120	200
Nitrogen, Nitrite	6.865	ND	9.150	mg/L	75%	*	80-120	10
Nitrogen, Nitrate	9.414	ND	9.030	mg/L	104%		80-120	1
Sulfate	2,477	2523	50.00	mg/L	-93%	*,NM	80-120	200

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike Duplicate	Lab ID:	QC866941	Batch:	245238
Matrix (Source ID):	Water (427580-001)	Method:	EPA 300.0	Prep Method:	METHOD

QC866941 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Chloride	19,240	19690	100.0	mg/L	-451%	*,NM	80-120	0	20	200
Nitrogen, Nitrite	6.730	ND	9.150	mg/L	74%	*	80-120	2	20	10
Nitrogen, Nitrate	9.476	ND	9.030	mg/L	105%		80-120	1	20	1
Sulfate	2,495	2523	50.00	mg/L	-55%	*,NM	80-120	1	20	200

Type:	Matrix Spike	Lab ID:	QC866942	Batch:	245238
Matrix (Source ID):	Water (427586-009)	Method:	EPA 300.0	Prep Method:	METHOD

QC866942 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Chloride	349.0	248.7	100.0	mg/L	100%		80-120	10
Nitrogen, Nitrite	9.297	ND	9.150	mg/L	102%		80-120	1
Nitrogen, Nitrate	27.08	18.24	9.030	mg/L	98%		80-120	10
Sulfate	143.3	96.51	50.00	mg/L	94%		80-120	1

Type:	Matrix Spike Duplicate	Lab ID:	QC866943	Batch:	245238
Matrix (Source ID):	Water (427586-009)	Method:	EPA 300.0	Prep Method:	METHOD

QC866943 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Chloride	343.0	248.7	100.0	mg/L	94%		80-120	2	20	10
Nitrogen, Nitrite	9.562	ND	9.150	mg/L	105%		80-120	3	20	1
Nitrogen, Nitrate	26.56	18.24	9.030	mg/L	92%		80-120	2	20	10
Sulfate	144.8	96.51	50.00	mg/L	97%		80-120	1	20	1

Type:	Blank	Lab ID:	QC867038	Batch:	245275
Matrix:	Water	Method:	SM5210B	Prep Method:	METHOD

QC867038 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Biochemical Oxygen Demand	ND		mg/L	3.0		04/29/20 12:00	05/04/20 12:00

Type:	Lab Control Sample	Lab ID:	QC867039	Batch:	245275
Matrix:	Water	Method:	SM5210B	Prep Method:	METHOD

QC867039 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Biochemical Oxygen Demand	209.0	198.0	mg/L	106%		84.6-115.4

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID: QC867361**	**Batch: 245421**
Matrix: Water	**Method: EPA 1664A**	**Prep Method: METHOD**

QC867361 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Oil and Grease	ND		mg/L	5.0	1.4	04/30/20	05/01/20

Type: Lab Control Sample	**Lab ID: QC867362**	**Batch: 245421**
Matrix: Water	**Method: EPA 1664A**	**Prep Method: METHOD**

QC867362 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Oil and Grease	34.60	40.00	mg/L	87%		78-114

Type: Lab Control Sample Duplicate	**Lab ID: QC867363**	**Batch: 245421**
Matrix: Water	**Method: EPA 1664A**	**Prep Method: METHOD**

QC867363 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Total Oil and Grease	33.00	40.00	mg/L	83%		78-114	5	18

Type: Blank	**Lab ID: QC867204**	**Batch: 245354**
Matrix: Water	**Method: SM 5310B**	

QC867204 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Organic Carbon	ND		mg/L	1.0	0.091	04/30/20	04/30/20

Type: Lab Control Sample	**Lab ID: QC867205**	**Batch: 245354**
Matrix: Water	**Method: SM 5310B**	

QC867205 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	9.718	10.00	mg/L	97%		80-120

Type: Matrix Spike	**Lab ID: QC867206**	**Batch: 245354**
Matrix (Source ID): Water (427633-001)	**Method: SM 5310B**	

QC867206 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Organic Carbon	22.62	3.991	20.00	mg/L	93%		80-120	2

ENTHALPY ANALYTICAL

Batch QC

Type: Matrix Spike Duplicate **Lab ID:** QC867207 **Batch:** 245354
Matrix (Source ID): Water (427633-001) **Method:** SM 5310B

QC867207 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	20.90	3.991	20.00	mg/L	85%		80-120	8	20	2

Type: Sample Duplicate **Lab ID:** QC866931 **Batch:** 245233
Matrix (Source ID): Water (427576-007) **Method:** SM2130B

QC866931 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Turbidity	28.10	28.50	NTU		1	20	1

Type: Sample Duplicate **Lab ID:** QC866930 **Batch:** 245232
Matrix (Source ID): Water (427576-007) **Method:** SM2120B

QC866930 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Color	ND	ND	ColorUnits			20	1

Type: Blank **Lab ID:** QC867122 **Batch:** 245318
Matrix: Water **Method:** EPA 351.2 **Prep Method:** METHOD

QC867122 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Total Kjeldahl	ND		mg/L	0.20	0.026	04/29/20	04/30/20

Type: Lab Control Sample **Lab ID:** QC867123 **Batch:** 245318
Matrix: Water **Method:** EPA 351.2 **Prep Method:** METHOD

QC867123 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Total Kjeldahl	2.370	2.500	mg/L	95%		90-110

Type: Matrix Spike **Lab ID:** QC867124 **Batch:** 245318
Matrix (Source ID): Water (427509-008) **Method:** EPA 351.2 **Prep Method:** METHOD

QC867124 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Total Kjeldahl	11.30	ND	12.50	mg/L	89%	*	90-110	2.5

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC867125**	**Batch:**	**245318**
Matrix (Source ID):	**Water (427509-008)**	**Method:**	**EPA 351.2**	**Prep Method:**	**METHOD**

QC867125 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Total Kjeldahl	12.20	ND	12.50	mg/L	96%		90-110	8	20	2.5

Type: **Blank**	**Lab ID:** **QC867069**		**Batch:** **245289**
Matrix: **Water**	**Method:** **SM 4500-CL-G**		

QC867069 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Chlorine, Total Residual	ND		mg/L	0.10	0.016	04/29/20 17:26	04/29/20 17:26

Type: **Lab Control Sample**	**Lab ID:** **QC867070**		**Batch:** **245289**
Matrix: **Water**	**Method:** **SM 4500-CL-G**		

QC867070 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chlorine, Total Residual	0.9560	1.000	mg/L	96%		80-120

Type: **Sample Duplicate**	**Lab ID:** **QC867071**		**Batch:** **245289**
Matrix (Source ID): **Water (427576-002)**	**Method:** **SM 4500-CL-G**		

QC867071 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Chlorine, Total Residual	0.6400	0.6410	mg/L		0	20	1

Type: **Blank**	**Lab ID:** **QC867663**		**Batch:** **245561**
Matrix: **Water**	**Method:** **EPA 1664A**		**Prep Method:** **METHOD**

QC867663 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Oil and Grease	ND		mg/L	5.0	1.4	05/05/20	05/05/20

Type: **Lab Control Sample**	**Lab ID:** **QC867664**		**Batch:** **245561**
Matrix: **Water**	**Method:** **EPA 1664A**		**Prep Method:** **METHOD**

QC867664 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Oil and Grease	36.50	40.00	mg/L	91%		78-114

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample Duplicate	**Lab ID:** QC867665	**Batch:** 245561
Matrix: Water	**Method:** EPA 1664A	**Prep Method:** METHOD

QC867665 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Total Oil and Grease	39.60	40.00	mg/L	99%		78-114	8	18

Type: Blank	**Lab ID:** QC867134	**Batch:** 245323
Matrix: Water	**Method:** SM5540C	

QC867134 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Surfactants (MBAS)	ND		mg/L	0.040	0.027	04/29/20 15:00	04/29/20 18:40

Type: Lab Control Sample	**Lab ID:** QC867135	**Batch:** 245323
Matrix: Water	**Method:** SM5540C	

QC867135 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Surfactants (MBAS)	0.9930	1.000	mg/L	99%		90-110

Type: Matrix Spike	**Lab ID:** QC867136	**Batch:** 245323
Matrix (Source ID): Water (427620-002)	**Method:** SM5540C	

QC867136 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Surfactants (MBAS)	1.011	ND	1.000	mg/L	100%		80-120	1

Type: Matrix Spike Duplicate	**Lab ID:** QC867137	**Batch:** 245323
Matrix (Source ID): Water (427620-002)	**Method:** SM5540C	

QC867137 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Surfactants (MBAS)	0.9760	ND	1.000	mg/L	97%		80-120	4	20	1

* Value is outside QC limits
ND Not Detected
NM Not Meaningful: Sample concentration > 4X spike concentration
b See narrative

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

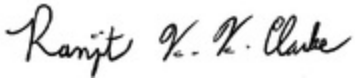
Lab Job Number:	427580
Report Level:	II
Report Date:	05/07/2020

Analytical Report *prepared for:*

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Location: Malibu - Quarterly/Semi-Annual

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.

ENTHALPY ANALYTICAL

Sample Summary

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #: 427580
Location: Malibu - Quarterly/Semi-Annual
Date Received: 04/28/20

Sample ID	Lab ID	Collected	Matrix
N-001	427580-001	04/28/20 13:17	Water
N-002	427580-002	04/28/20 13:00	Water
N-003	427580-003	04/28/20 12:42	Water
N-004	427580-004	04/28/20 14:05	Water
L-001	427580-005	04/28/20 10:36	Water
L-002	427580-006	04/28/20 11:20	Water
L-003	427580-007	04/28/20 10:56	Water
L-004	427580-008	04/28/20 11:45	Water
L-005	427580-009	04/28/20 12:30	Water
L-006	427580-010	04/28/20 12:05	Water

ENTHALPY ANALYTICAL

Case Narrative

Rincon Consultants - Ventura 180 North Ashwood Ave. Ventura, CA 93003 Kiernan Brtalik	Lab Job Number: 427580 Location: Malibu - Quarterly/Semi-Annual Date Received: 04/28/20

This data package contains sample and QC results for ten water samples, requested for the above referenced project on 04/28/20. The samples were received cold and intact.

Ion Chromatography (EPA 300.0):
Low recoveries were observed for nitrogen, nitrite in the MS/MSD of N-001 (lab # 427580-001); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Total Phosphorus as P (SM 4500-P-B5-E):
No analytical problems were encountered.

Organic Nitrogen, by Calculation (ORGANIC NITROGEN):
No analytical problems were encountered.

Total Coliform / E. coli by Quanti-Tray (SM 9223Bb):
No analytical problems were encountered.

Ammonia and TKN- Semi-Automated Method (SM 4500-NH3-G):
No analytical problems were encountered.

ENTHALPHY ANALYTICAL, INC.		Chain of Custody Record				Turn Around Time (Rush by advanced notice only)					
931 W. Barkley Ave., Orange, CA 92868	ENTHALPY analytical, inc.	Lab No: 427580				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 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 = Na2S2O3 2 = HCl 3 = HNO3 4 = H2SO4 5 = NaOH 6 = Other					

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants	Name:	Malibu - Quarterly/Semi-Annual
Report To:	Kiernan Brtalik	Number:	
Email:		P.O. #:	
Address:	180 N. Ashwood Ave.	Address:	
	Ventura, CA 93003		
Phone:		Global ID:	
Cell:		Sampled By:	

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Total /Fecal Coliforms - SM 9223 Quantitray	EPA 300.0: NO2,NO3	TKN; NH3; Phosphorus, Organic Nitrogen							Test Instructions / Comments
N-001	4/28/20	1317	water	5		X	X	X							
N-002		1300				X	X	X							
N-003		1242				X	X	X							
N-004		1405				X	X	X							
L-001		1036				X	X	X							
L-002		1120				X	X	X							
L-003		1056				X	X	X							
L-004		1145				X	X	X							
L-005		1230				X	X	X							
L-006		1205				X	X	X							

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Jaime McClain	Rincon Consultants	4/28/20 1420
1 Received By:			Enthalpy	4/28/20 1420
2 Relinquished By:			"	4/28/20 1553
2 Received By:		FERNANDO DIAZ	EA	4/29/20 1553
3 Relinquished By:				
3 Received By:				

0-9 / 4-5

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: _____

Date Received: 4/28/20 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: 4.5 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 0.9 #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: 4/28/20

ENTHALPY ANALYTICAL

Analysis Results for 427580

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #: 427580
Location: Malibu - Quarterly/Semi-Annual
Date Received: 04/28/20

Sample ID: N-001 **Lab ID: 427580-001** **Collected: 04/28/20 13:17**
Matrix: Water

427580-001 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	245238	04/28/20 12:00	04/29/20 01:22	RKV
Nitrogen, Nitrate	ND		mg/L	0.10	0.01	1	245238	04/28/20 12:00	04/29/20 00:09	RKV
Method: EPA 351.2 Prep Method: METHOD										
Nitrogen, Total Kjeldahl	**0.27**	J	mg/L	0.40	0.052	1	245320	04/29/20	04/30/20	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.27**		mg/L			1	245641	05/07/20	05/07/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	245465	05/04/20	05/04/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.099**		mg/L	0.020	0.010	1	245634	05/07/20	05/07/20	ATP
Method: SM 9223Bb										
Fecal Coliform	**6.3**		MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Coliform, Total	**1,700**		MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 427580

Sample ID: N-002	Lab ID: 427580-002	Collected: 04/28/20 13:00
	Matrix: Water	

427580-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrite	ND		mg/L	5.0	0.90	50	245238	04/28/20 12:00	04/29/20 06:16	RKV
Nitrogen, Nitrate	ND		mg/L	0.10	0.01	1	245238	04/28/20 12:00	04/29/20 03:25	RKV
Method: EPA 351.2 Prep Method: METHOD										
Nitrogen, Total Kjeldahl	**0.18**	J	mg/L	0.40	0.052	1	245320	04/29/20	04/30/20	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.18**		mg/L			1	245641	05/07/20	05/07/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	245465	05/04/20	05/04/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.028**		mg/L	0.020	0.010	1	245634	05/07/20	05/07/20	ATP
Method: SM 9223Bb										
Fecal Coliform	**7.5**		MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Coliform, Total	**820**		MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO

Sample ID: N-003	Lab ID: 427580-003	Collected: 04/28/20 12:42
	Matrix: Water	

427580-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrite	ND		mg/L	5.0	0.90	50	245238	04/28/20 12:00	04/29/20 08:18	RKV
Nitrogen, Nitrate	ND		mg/L	0.10	0.01	1	245238	04/28/20 12:00	04/29/20 03:49	RKV
Method: EPA 351.2 Prep Method: METHOD										
Nitrogen, Total Kjeldahl	**0.32**	J	mg/L	0.40	0.052	1	245320	04/29/20	04/30/20	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.32**		mg/L			1	245641	05/07/20	05/07/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	245465	05/04/20	05/04/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.043**		mg/L	0.020	0.010	1	245634	05/07/20	05/07/20	ATP
Method: SM 9223Bb										
Fecal Coliform	**34**		MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Coliform, Total	**2,400**	>	MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 427580

Sample ID: N-004	Lab ID: 427580-004	Collected: 04/28/20 14:05
	Matrix: Water	

427580-004 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrite	ND		mg/L	5.0	0.90	50	245238	04/28/20 12:00	04/29/20 08:42	RKV
Nitrogen, Nitrate	ND		mg/L	0.10	0.01	1	245238	04/28/20 12:00	04/29/20 04:14	RKV
Method: EPA 351.2 Prep Method: METHOD										
Nitrogen, Total Kjeldahl	**0.31**	J	mg/L	0.40	0.052	1	245320	04/29/20	04/30/20	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.31**		mg/L			1	245641	05/07/20	05/07/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	245465	05/04/20	05/04/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.031**		mg/L	0.020	0.010	1	245634	05/07/20	05/07/20	ATP
Method: SM 9223Bb										
Fecal Coliform	**1.0**		MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Coliform, Total	**820**		MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO

Sample ID: L-001	Lab ID: 427580-005	Collected: 04/28/20 10:36
	Matrix: Water	

427580-005 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	245238	04/28/20 12:00	04/29/20 04:38	RKV
Nitrogen, Nitrate	**0.12**		mg/L	0.10	0.01	1	245238	04/28/20 12:00	04/29/20 04:38	RKV
Method: EPA 351.2 Prep Method: METHOD										
Nitrogen, Total Kjeldahl	**0.34**	J	mg/L	0.40	0.052	1	245320	04/29/20	04/30/20	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.34**		mg/L			1	245641	05/07/20	05/07/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	245465	05/04/20	05/04/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.24**		mg/L	0.020	0.010	1	245634	05/07/20	05/07/20	ATP
Method: SM 9223Bb										
Fecal Coliform	**34**		MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Coliform, Total	**2,400**	>	MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 427580

Sample ID: L-002	Lab ID: 427580-006	Collected: 04/28/20 11:20
	Matrix: Water	

427580-006 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	245238	04/28/20 12:00	04/29/20 05:02	RKV
Nitrogen, Nitrate	**1.1**		mg/L	0.10	0.01	1	245238	04/28/20 12:00	04/29/20 05:02	RKV
Method: EPA 351.2 Prep Method: METHOD										
Nitrogen, Total Kjeldahl	**0.29**	J	mg/L	0.40	0.052	1	245320	04/29/20	04/30/20	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.29**		mg/L			1	245641	05/07/20	05/07/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	245465	05/04/20	05/04/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.19**		mg/L	0.020	0.010	1	245634	05/07/20	05/07/20	ATP
Method: SM 9223Bb										
Fecal Coliform	**12**		MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Coliform, Total	**1,700**		MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO

Sample ID: L-003	Lab ID: 427580-007	Collected: 04/28/20 10:56
	Matrix: Water	

427580-007 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrite	ND		mg/L	2.0	0.36	20	245238	04/28/20 12:00	04/29/20 15:38	RKV
Nitrogen, Nitrate	**0.09**	J	mg/L	0.10	0.01	1	245238	04/28/20 12:00	04/29/20 05:27	RKV
Method: EPA 351.2 Prep Method: METHOD										
Nitrogen, Total Kjeldahl	**0.55**		mg/L	0.40	0.052	1	245320	04/29/20	04/30/20	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.55**		mg/L			1	245641	05/07/20	05/07/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	245465	05/04/20	05/04/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.20**		mg/L	0.020	0.010	1	245634	05/07/20	05/07/20	ATP
Method: SM 9223Bb										
Fecal Coliform	**70**		MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Coliform, Total	**2,400**	>	MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 427580

Sample ID: L-004	Lab ID: 427580-008	Collected: 04/28/20 11:45
	Matrix: Water	

427580-008 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrite	ND		mg/L	2.0	0.36	20	245238	04/28/20 12:00	04/29/20 16:03	RKV
Nitrogen, Nitrate	**0.15**		mg/L	0.10	0.01	1	245238	04/28/20 12:00	04/29/20 05:51	RKV
Method: EPA 351.2 Prep Method: METHOD										
Nitrogen, Total Kjeldahl	**0.40**		mg/L	0.40	0.052	1	245320	04/29/20	04/30/20	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.40**		mg/L			1	245641	05/07/20	05/07/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	245465	05/04/20	05/04/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.21**		mg/L	0.020	0.010	1	245634	05/07/20	05/07/20	ATP
Method: SM 9223Bb										
Fecal Coliform	**490**		MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Coliform, Total	**2,400**	>	MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO

Sample ID: L-005	Lab ID: 427580-009	Collected: 04/28/20 12:30
	Matrix: Water	

427580-009 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrite	ND		mg/L	2.0	0.36	20	245238	04/28/20 12:00	04/29/20 17:16	RKV
Nitrogen, Nitrate	ND		mg/L	0.10	0.01	1	245238	04/28/20 12:00	04/29/20 07:54	RKV
Method: EPA 351.2 Prep Method: METHOD										
Nitrogen, Total Kjeldahl	**0.45**		mg/L	0.40	0.052	1	245320	04/29/20	04/30/20	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.45**		mg/L			1	245641	05/07/20	05/07/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	245465	05/04/20	05/04/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.37**		mg/L	0.020	0.010	1	245634	05/07/20	05/07/20	ATP
Method: SM 9223Bb										
Fecal Coliform	**2,400**	>	MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Coliform, Total	**2,400**	>	MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 427580

Sample ID: L-006	Lab ID: 427580-010	Collected: 04/28/20 12:05
	Matrix: Water	

427580-010 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Nitrogen, Nitrite	ND		mg/L	2.0	0.36	20	245238	04/28/20 12:00	04/29/20 17:41	RKV
Nitrogen, Nitrate	ND		mg/L	0.10	0.01	1	245238	04/28/20 12:00	04/29/20 07:29	RKV
Method: EPA 351.2 Prep Method: METHOD										
Nitrogen, Total Kjeldahl	**1.0**		mg/L	0.40	0.052	1	245320	04/29/20	04/30/20	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.98**		mg/L			1	245641	05/07/20	05/07/20	SLL
Method: SM 4500-NH3-G										
Ammonia-N	**0.020**	J	mg/L	0.10	0.010	1	245465	05/04/20	05/04/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.35**		mg/L	0.020	0.010	1	245634	05/07/20	05/07/20	ATP
Method: SM 9223Bb										
Fecal Coliform	**2,400**	>	MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO
Coliform, Total	**2,400**	>	MPN/100ml	1.0		1	245235	04/28/20 16:59	04/29/20 15:20	CCO

> 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:** QC866938	**Batch:** 245238
Matrix: Water	**Method:** EPA 300.0	**Prep Method:** METHOD

QC866938 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	04/28/20 12:00	04/28/20 16:19
Nitrogen, Nitrate	ND		mg/L	0.10	0.01	04/28/20 12:00	04/28/20 16:19

Type: Lab Control Sample	**Lab ID:** QC866939	**Batch:** 245238
Matrix: Water	**Method:** EPA 300.0	**Prep Method:** METHOD

QC866939 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Nitrite	9.627	9.150	mg/L	105%		90-110
Nitrogen, Nitrate	9.871	9.030	mg/L	109%		90-110

Type: Matrix Spike	**Lab ID:** QC866940	**Batch:** 245238
Matrix (Source ID): Water (427580-001)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC866940 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Nitrite	6.865	ND	9.150	mg/L	75%	*	80-120	10
Nitrogen, Nitrate	9.414	ND	9.030	mg/L	104%		80-120	1

Type: Matrix Spike Duplicate	**Lab ID:** QC866941	**Batch:** 245238
Matrix (Source ID): Water (427580-001)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC866941 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Nitrite	6.730	ND	9.150	mg/L	74%	*	80-120	2	20	10
Nitrogen, Nitrate	9.476	ND	9.030	mg/L	105%		80-120	1	20	1

Type: Matrix Spike	**Lab ID:** QC866942	**Batch:** 245238
Matrix (Source ID): Water (427586-009)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC866942 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Nitrite	9.297	ND	9.150	mg/L	102%		80-120	1
Nitrogen, Nitrate	27.08	18.24	9.030	mg/L	98%		80-120	10

ENTHALPY ANALYTICAL

Batch QC

Type: Matrix Spike Duplicate **Lab ID:** QC866943 **Batch:** 245238
Matrix (Source ID): Water (427586-009) **Method:** EPA 300.0 **Prep Method:** METHOD

QC866943 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Nitrite	9.562	ND	9.150	mg/L	105%		80-120	3	20	1
Nitrogen, Nitrate	26.56	18.24	9.030	mg/L	92%		80-120	2	20	10

Type: Blank **Lab ID:** QC867860 **Batch:** 245634
Matrix: Water **Method:** SM 4500-P-B5-E

QC867860 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Phosphorus	ND		mg/L	0.020	0.010	05/07/20	05/07/20

Type: Lab Control Sample **Lab ID:** QC867861 **Batch:** 245634
Matrix: Water **Method:** SM 4500-P-B5-E

QC867861 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phosphorus	0.3830	0.4000	mg/L	96%		80-120

Type: Matrix Spike **Lab ID:** QC867862 **Batch:** 245634
Matrix (Source ID): Water (427580-010) **Method:** SM 4500-P-B5-E

QC867862 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phosphorus	0.7180	0.3460	0.4000	mg/L	93%		75-125	1

Type: Matrix Spike Duplicate **Lab ID:** QC867863 **Batch:** 245634
Matrix (Source ID): Water (427580-010) **Method:** SM 4500-P-B5-E

QC867863 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phosphorus	0.7170	0.3460	0.4000	mg/L	93%		75-125	0	20	1

Type: Blank **Lab ID:** QC867473 **Batch:** 245465
Matrix: Water **Method:** SM 4500-NH3-G

QC867473 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Ammonia-N	ND		mg/L	0.10	0.010	05/04/20	05/04/20

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample **Lab ID:** QC867474 **Batch:** 245465
Matrix: Water **Method:** SM 4500-NH3-G

QC867474 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Ammonia-N	2.360	2.500	mg/L	94%		80-120

Type: Matrix Spike **Lab ID:** QC867475 **Batch:** 245465
Matrix (Source ID): Water (427576-001) **Method:** SM 4500-NH3-G

QC867475 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Ammonia-N	2.400	ND	2.500	mg/L	96%		80-120	1

Type: Matrix Spike Duplicate **Lab ID:** QC867476 **Batch:** 245465
Matrix (Source ID): Water (427576-001) **Method:** SM 4500-NH3-G

QC867476 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Ammonia-N	2.450	ND	2.500	mg/L	98%		80-120	2	20	1

Type: Blank **Lab ID:** QC867126 **Batch:** 245320
Matrix: Water **Method:** EPA 351.2 **Prep Method:** METHOD

QC867126 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Total Kjeldahl	ND		mg/L	0.20	0.026	04/29/20	04/30/20

Type: Lab Control Sample **Lab ID:** QC867127 **Batch:** 245320
Matrix: Water **Method:** EPA 351.2 **Prep Method:** METHOD

QC867127 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Total Kjeldahl	2.340	2.500	mg/L	94%		90-110

Type: Matrix Spike **Lab ID:** QC867128 **Batch:** 245320
Matrix (Source ID): Water (427580-010) **Method:** EPA 351.2 **Prep Method:** METHOD

QC867128 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Total Kjeldahl	13.20	1.030	12.50	mg/L	97%		90-110	2.5

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC867129**	**Batch:**	**245320**
Matrix (Source ID):	**Water (427580-010)**	**Method:**	**EPA 351.2**	**Prep Method:**	**METHOD**

QC867129 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Total Kjeldahl	12.50	1.030	12.50	mg/L	92%		90-110	5	20	2.5

* Value is outside QC limits

ND Not Detected

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

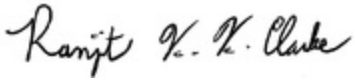
Lab Job Number:	427620
Report Level:	II
Report Date:	05/09/2020

Analytical Report *prepared for:*

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Location: Malibu - Quarterly/Semi-Annual

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.

ENTHALPY ANALYTICAL

Sample Summary

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #: 427620
Location: Malibu - Quarterly/Semi-Annual
Date Received: 04/29/20

Sample ID	Lab ID	Collected	Matrix
SMBRP-9	427620-001	04/29/20 09:20	Water
MCWP-MW04D	427620-002	04/29/20 12:00	Water

ENTHALPY ANALYTICAL

Case Narrative

Rincon Consultants - Ventura 180 North Ashwood Ave. Ventura, CA 93003 Kiernan Brtalik	Lab Job Number: 427620 Location: Malibu - Quarterly/Semi-Annual Date Received: 04/29/20

This data package contains sample and QC results for two water samples, requested for the above referenced project on 04/29/20. The samples were received cold and intact.

Metals (EPA 200.7):
No analytical problems were encountered.

Ion Chromatography (EPA 300.0):
No analytical problems were encountered.

Total Carbon by High-Temperature Combust (SM 5310B):
No analytical problems were encountered.

Total Phosphorus as P (SM 4500-P-B5-E):
No analytical problems were encountered.

Total Oil & Grease (HEM) (EPA 1664A):
Matrix spikes were not performed for this analysis due to insufficient sample volume. No analytical problems were encountered.

Total Notrogen, by Calculation (TOTAL NITROGEN):
No analytical problems were encountered.

Organic Nitrogen, by Calculation (ORGANIC NITROGEN):
No analytical problems were encountered.

Total Dissolved Solids (TDS) (SM2540C):
No analytical problems were encountered.

Total Suspended Solids (TSS) (SM2540D):
No analytical problems were encountered.

Free Chlorine (SM 4500-CL-G):
No analytical problems were encountered.

pH of Aqueous Samples (SM 4500-H+ B):
No analytical problems were encountered.

Soluble Biochemical Oxygen Demand (SM5210B):
No analytical problems were encountered.

Odor (SM 2150B):
No analytical problems were encountered.

Turbidity (SM2130B):
No analytical problems were encountered.

Color by Visual Comparison (SM2120B):
No analytical problems were encountered.

Surfactants (MBAS) (SM5540C):
No analytical problems were encountered.

Total Coliform / E. coli by Quanti-Tray (SM 9223Bb):
No analytical problems were encountered.

Ammonia and TKN- Semi-Automated Method (SM 4500-NH3-G):
No analytical problems were encountered.

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
931 W. Barkley Ave., Orange, CA 92868	Lab No: 427620	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:	15-01587
Email:		P.O. #:	~~15-10587~~
Address:	180 N. Ashwood Ave.	Address:	
	Ventura, CA 93003		
Phone:		Global ID:	
Cell:		Sampled By:	

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Total /Fecal Coliforms - SM 9223 Quantitray	EPA 200.7 (B)	EPA 300.0: Cl,NO2,NO3,SO4	TKN; NH3; Phosphorus	SM 5310C TOC; BOD; TSS; TDS	pH; Residual Cl; MBAS; Turbidity; Color; Odor	EPA 1664A Oil & Grease	Organic Nitrogen, Total Nitrogen	Test Instructions / Comments
~~LAMW-55~~						X	X	X	X	X	X	X	X	MC
SMBRP-9	4/29/20	0920	W	12		X	X	X	X	X	X	X	X	
~~SMBRP-11~~						X	X	X	X	X	X	X	X	MC
~~SMBRP-12~~						X	X	X	X	X	X	X	X	MC
~~MCWP-MW04S~~						X	X	X	X	X	X	X	X	MC
MCWP-MW04D	4/29/20	1200	W	12		X	X	X	X	X	X	X	X	
~~MCWP-MW07S~~						X	X	X	X	X	X	X	X	MC
~~MCWP-MW07D~~						X	X	X	X	X	X	X	X	MC
~~MCWP-MW09~~						X	X	X	X	X	X	X	X	MC

	Signature	Print Name	Company / Title	Date / Time
Relinquished By:		MICHELLE CARTER	RINCON CONSULTANTS INC.	4/29/20 / 1345
Received By:		[illegible]	Enthalpy	4/29/20 1345
Relinquished By:		[illegible]	"	4/29/20 1500
Received By:		CHRISTINE C.	EA	4/29/20 1536
Relinquished By:				

0.8 / 3.5

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon

Date Received: 4/29/20

Project: Malibu - Annual

Sampler's Name Present: ☐ Yes ☑ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2)

Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 3.5 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 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: Chanel Cano Date: 4/29/20

ENTHALPY ANALYTICAL

Analysis Results for 427620

Kiernan Brtalik
Rincon Consultants - Ventura
180 North Ashwood Ave.
Ventura, CA 93003

Lab Job #: 427620
Location: Malibu - Quarterly/Semi-Annual
Date Received: 04/29/20

Sample ID: SMBRP-9 **Lab ID: 427620-001** **Collected: 04/29/20 09:20**
Matrix: Water

427620-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 1664A Prep Method: METHOD										
Total Oil and Grease	ND		mg/L	5.6	1.6	1.1	245561	05/05/20	05/05/20	ECC
Method: EPA 200.7 Prep Method: EPA 200.7										
Boron	**0.51**	b	mg/L	0.050	0.030	1	245303	04/29/20	04/30/20	SBW
Method: EPA 300.0 Prep Method: METHOD										
Chloride	**170**		mg/L	1.0	0.086	1	245279	04/29/20 12:00	04/30/20 23:59	RKV
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	1	245279	04/29/20 12:00	04/30/20 09:10	RKV
Nitrogen, Nitrate	**3.1**		mg/L	0.10	0.01	1	245279	04/29/20 12:00	04/30/20 09:10	RKV
Sulfate	**260**		mg/L	50	3.9	50	245279	04/29/20 12:00	04/30/20 23:59	RKV
Method: EPA 351.2 Prep Method: METHOD										
Nitrogen, Total Kjeldahl	**0.39**	J	mg/L	0.40	0.052	1	245357	04/29/20	04/30/20	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.39**		mg/L			1	245641	05/07/20	05/07/20	SLL
Method: SM 2150B										
Odor	ND		TON	1.0		1	245297	04/29/20 18:20	04/29/20 18:20	WWC
Method: SM 4500-CL-G										
Chlorine, Total Residual	**0.37**	H	mg/L	0.10	0.016	1	245289	04/29/20 17:26	04/29/20 17:26	WWC
Method: SM 4500-H+ B										
pH	**7.06**	H	SU			1	245515	04/29/20 15:40	04/29/20 15:40	WWC
Temperature	**15.30**	H	deg C	1.00		1	245515	04/29/20 15:40	04/29/20 15:40	WWC
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	245463	05/04/20	05/04/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.055**		mg/L	0.020	0.010	1	245634	05/07/20	05/07/20	ATP
Method: SM 5310B										
Total Organic Carbon	**10**		mg/L	1.0	0.091	1	245354	04/30/20	04/30/20	ECC
Method: SM 9223Bb										
Fecal Coliform	<1.0		MPN/100ml	1.0		1	245433	04/29/20 17:16	04/30/20 15:46	LXH
Coliform, Total	**32**		MPN/100ml	1.0		1	245433	04/29/20 17:16	04/30/20 15:46	LXH
Method: SM2120B										
Color	ND		ColorUnits	5		1	245295	04/29/20 18:20	04/29/20 18:20	WWC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 427620

427620-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM2130B										
Turbidity	**250**		NTU	0.10	0.07	1	245302	04/29/20 18:20	04/30/20 10:24	WWC
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**1,400**		mg/L	20		2	245371	04/30/20	05/01/20	WWC
Method: SM2540D Prep Method: METHOD										
Total Suspended Solids	**280**		mg/L	2.0	2.0	4	245359	04/30/20	05/01/20	NLP
Method: SM5210B Prep Method: METHOD										
Biochemical Oxygen Demand	ND		mg/L	3.0		1	245278	04/29/20 15:40	05/04/20 14:00	WWC
Method: SM5540C										
Surfactants (MBAS)	**0.43**		mg/L	0.080	0.054	2	245323	04/29/20 15:00	04/29/20 18:40	NLP
Method: TOTAL NITROGEN										
Total Nitrogen	**3.5**		mg/L			1	245648	05/07/20	05/07/20	SLL

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 427620

Sample ID: MCWP-MW04D	Lab ID: 427620-002	Collected: 04/29/20 12:00
	Matrix: Water	

427620-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 1664A Prep Method: METHOD										
Total Oil and Grease	ND		mg/L	5.6	1.6	1.1	245561	05/05/20	05/05/20	ECC
Method: EPA 200.7 Prep Method: EPA 200.7										
Boron	**0.75**	b	mg/L	0.050	0.030	1	245303	04/29/20	04/30/20	SBW
Method: EPA 300.0 Prep Method: METHOD										
Chloride	**240**		mg/L	50	4.3	50	245279	04/29/20 12:00	04/30/20 23:59	RKV
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	1	245279	04/29/20 12:00	04/30/20 09:59	RKV
Nitrogen, Nitrate	**1.5**		mg/L	0.10	0.01	1	245279	04/29/20 12:00	04/30/20 09:59	RKV
Sulfate	**540**		mg/L	50	3.9	50	245279	04/29/20 12:00	04/30/20 23:59	RKV
Method: EPA 351.2 Prep Method: METHOD										
Nitrogen, Total Kjeldahl	**0.28**	J	mg/L	0.40	0.052	1	245357	04/29/20	04/30/20	ATP
Method: ORGANIC NITROGEN										
Organic Nitrogen as N	**0.28**		mg/L			1	245641	05/07/20	05/07/20	SLL
Method: SM 2150B										
Odor	ND		TON	1.0		1	245297	04/29/20 18:20	04/29/20 18:20	WWC
Method: SM 4500-CL-G										
Chlorine, Total Residual	ND	H	mg/L	0.10	0.016	1	245289	04/29/20 17:26	04/29/20 17:26	WWC
Method: SM 4500-H+ B										
pH	**6.97**	H	SU			1	245515	04/29/20 15:45	04/29/20 15:45	WWC
Temperature	**15.00**	H	deg C	1.00		1	245515	04/29/20 15:45	04/29/20 15:45	WWC
Method: SM 4500-NH3-G										
Ammonia-N	ND		mg/L	0.10	0.010	1	245463	05/04/20	05/04/20	ATP
Method: SM 4500-P-B5-E										
Phosphorus	**0.066**		mg/L	0.020	0.010	1	245634	05/07/20	05/07/20	ATP
Method: SM 5310B										
Total Organic Carbon	**6.8**		mg/L	1.0	0.091	1	245354	04/30/20	04/30/20	ECC
Method: SM 9223Bb										
Fecal Coliform	<1.0		MPN/100ml	1.0		1	245433	04/29/20 17:16	04/30/20 15:46	LXH
Coliform, Total	<1.0		MPN/100ml	1.0		1	245433	04/29/20 17:16	04/30/20 15:46	LXH
Method: SM2120B										
Color	ND		ColorUnits	5		1	245295	04/29/20 18:20	04/29/20 18:20	WWC
Method: SM2130B										
Turbidity	**0.67**		NTU	0.10	0.07	1	245302	04/29/20 18:20	04/30/20 10:24	WWC
Method: SM2540C Prep Method: METHOD										
Total Dissolved Solids	**1,400**		mg/L	20		2	245371	04/30/20	05/01/20	WWC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 427620

427620-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM2540D Prep Method: METHOD										
Total Suspended Solids	ND		mg/L	0.6	0.6	1.1	245359	04/30/20	05/01/20	NLP
Method: SM5210B Prep Method: METHOD										
Biochemical Oxygen Demand	ND		mg/L	3.0		1	245278	04/29/20 15:45	05/04/20 14:00	WWC
Method: SM5540C										
Surfactants (MBAS)	ND		mg/L	0.040	0.027	1	245323	04/29/20 15:00	04/29/20 18:40	NLP
Method: TOTAL NITROGEN										
Total Nitrogen	**1.8**		mg/L			1	245648	05/07/20	05/07/20	SLL

< Value is less than indicated concentration
H Holding time was exceeded
J Estimated value
ND Not Detected
b See narrative

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type:	**Blank**	**Lab ID:**	**QC867050**	**Batch:**	**245279**
Matrix:	**Drinking Water**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC867050 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Chloride	ND		mg/L	1.0	0.086	04/29/20 12:00	04/30/20 02:38
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	04/29/20 12:00	04/30/20 02:38
Nitrogen, Nitrate	ND		mg/L	0.10	0.01	04/29/20 12:00	04/30/20 02:38
Sulfate	ND		mg/L	1.0	0.077	04/29/20 12:00	04/30/20 02:38

Type:	**Lab Control Sample**	**Lab ID:**	**QC867051**	**Batch:**	**245279**
Matrix:	**Drinking Water**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC867051 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chloride	106.3	100.0	mg/L	106%		90-110
Nitrogen, Nitrite	9.501	9.150	mg/L	104%		90-110
Nitrogen, Nitrate	9.622	9.030	mg/L	107%		90-110
Sulfate	52.66	50.00	mg/L	105%		90-110

Type:	**Matrix Spike**	**Lab ID:**	**QC867052**	**Batch:**	**245279**
Matrix (Source ID):	**Drinking Water (427611-001)**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC867052 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Chloride	171.8	76.08	100.0	mg/L	96%		80-120	1
Nitrogen, Nitrite	9.386	ND	9.150	mg/L	103%		80-120	1
Nitrogen, Nitrate	14.02	4.517	9.030	mg/L	105%		80-120	1
Sulfate	117.7	77.90	50.00	mg/L	80%		80-120	10

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC867053**	**Batch:**	**245279**
Matrix (Source ID):	**Drinking Water (427611-001)**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC867053 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Chloride	172.1	76.08	100.0	mg/L	96%		80-120	0	20	1
Nitrogen, Nitrite	9.365	ND	9.150	mg/L	102%		80-120	0	20	1
Nitrogen, Nitrate	14.17	4.517	9.030	mg/L	107%		80-120	1	20	1
Sulfate	119.1	77.90	50.00	mg/L	82%		80-120	1	20	10

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC867054**	**Batch:**	**245279**
Matrix (Source ID):	**Drinking Water (427631-001)**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC867054 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Chloride	244.9	159.4	100.0	mg/L	85%		80-120	10
Nitrogen, Nitrite	9.375	ND	9.150	mg/L	102%		80-120	1
Nitrogen, Nitrate	11.76	2.485	9.030	mg/L	103%		80-120	1
Sulfate	51.69	ND	50.00	mg/L	102%		80-120	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC867055**	**Batch:**	**245279**
Matrix (Source ID):	**Drinking Water (427631-001)**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC867055 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Chloride	242.6	159.4	100.0	mg/L	83%		80-120	1	20	10
Nitrogen, Nitrite	9.601	ND	9.150	mg/L	105%		80-120	2	20	1
Nitrogen, Nitrate	11.98	2.485	9.030	mg/L	105%		80-120	2	20	1
Sulfate	52.36	ND	50.00	mg/L	103%		80-120	1	20	1

Type:	**Blank**	**Lab ID:**	**QC867860**	**Batch:**	**245634**
Matrix:	**Water**	**Method:**	**SM 4500-P-B5-E**		

QC867860 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Phosphorus	ND		mg/L	0.020	0.010	05/07/20	05/07/20

Type:	**Lab Control Sample**	**Lab ID:**	**QC867861**	**Batch:**	**245634**
Matrix:	**Water**	**Method:**	**SM 4500-P-B5-E**		

QC867861 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phosphorus	0.3830	0.4000	mg/L	96%		80-120

Type:	**Matrix Spike**	**Lab ID:**	**QC867862**	**Batch:**	**245634**
Matrix (Source ID):	**Water (427580-010)**	**Method:**	**SM 4500-P-B5-E**		

QC867862 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phosphorus	0.7180	0.3460	0.4000	mg/L	93%		75-125	1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC867863**	**Batch:**	**245634**
Matrix (Source ID):	**Water (427580-010)**	**Method:**	**SM 4500-P-B5-E**		

QC867863 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phosphorus	0.7170	0.3460	0.4000	mg/L	93%		75-125	0	20	1

Type:	**Blank**	**Lab ID:**	**QC867048**	**Batch:**	**245278**
Matrix:	**Water**	**Method:**	**SM5210B**	**Prep Method:**	**METHOD**

QC867048 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Biochemical Oxygen Demand	ND		mg/L	3.0		04/29/20 16:30	05/04/20 14:00

Type:	**Lab Control Sample**	**Lab ID:**	**QC867049**	**Batch:**	**245278**
Matrix:	**Water**	**Method:**	**SM5210B**	**Prep Method:**	**METHOD**

QC867049 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Biochemical Oxygen Demand	206.0	198.0	mg/L	104%		84.6-115.4

Type:	**Blank**	**Lab ID:**	**QC867085**	**Batch:**	**245303**
Matrix:	**Water**	**Method:**	**EPA 200.7**	**Prep Method:**	**EPA 200.7**

QC867085 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Boron	ND	b	mg/L	0.050	0.030	04/29/20	04/30/20

Type:	**Lab Control Sample**	**Lab ID:**	**QC867086**	**Batch:**	**245303**
Matrix:	**Water**	**Method:**	**EPA 200.7**	**Prep Method:**	**EPA 200.7**

QC867086 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Boron	1.850	2.000	mg/L	93%	b	85-115

Type:	**Sample Spike**	**Lab ID:**	**QC867087**	**Batch:**	**245303**
Matrix (Source ID):	**Water (427607-001)**	**Method:**	**EPA 200.7**	**Prep Method:**	**EPA 200.7**

QC867087 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Boron	0.9571	0.08220	1.000	mg/L	87%	b	75-125	1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC867223	**Batch:** 245359
Matrix: Water	**Method:** SM2540D	**Prep Method:** METHOD

QC867223 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Suspended Solids	ND		mg/L	0.5	0.5	04/30/20	05/01/20

Type: Sample Duplicate	**Lab ID:** QC867224	**Batch:** 245359
Matrix (Source ID): Water (427620-001)	**Method:** SM2540D	**Prep Method:** METHOD

QC867224 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Suspended Solids	288.0	279.6	mg/L		3	5	4

Type: Blank	**Lab ID:** QC867249	**Batch:** 245371
Matrix: Drinking Water	**Method:** SM2540C	**Prep Method:** METHOD

QC867249 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Dissolved Solids	ND		mg/L	10		04/30/20	05/01/20

Type: Lab Control Sample	**Lab ID:** QC867250	**Batch:** 245371
Matrix: Drinking Water	**Method:** SM2540C	**Prep Method:** METHOD

QC867250 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Dissolved Solids	94.00	100.0	mg/L	94%		90-110

Type: Sample Duplicate	**Lab ID:** QC867251	**Batch:** 245371
Matrix (Source ID): Drinking Water (427611-001)	**Method:** SM2540C	**Prep Method:** METHOD

QC867251 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Dissolved Solids	346.0	346.0	mg/L		0	5	2

Type: Blank	**Lab ID:** QC867216	**Batch:** 245357
Matrix: Water	**Method:** EPA 351.2	**Prep Method:** METHOD

QC867216 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Nitrogen, Total Kjeldahl	ND		mg/L	0.13	0.052	04/29/20	04/30/20

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	Lab ID: QC867217	Batch: 245357
Matrix: Water	Method: EPA 351.2	Prep Method: METHOD

QC867217 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Nitrogen, Total Kjeldahl	2.640	2.500	mg/L	106%		90-110

Type: Matrix Spike	Lab ID: QC867218	Batch: 245357
Matrix (Source ID): Water (427620-002)	Method: EPA 351.2	Prep Method: METHOD

QC867218 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Nitrogen, Total Kjeldahl	12.70	0.2840	12.50	mg/L	99%		90-110	2.5

Type: Matrix Spike Duplicate	Lab ID: QC867219	Batch: 245357
Matrix (Source ID): Water (427620-002)	Method: EPA 351.2	Prep Method: METHOD

QC867219 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Nitrogen, Total Kjeldahl	12.50	0.2840	12.50	mg/L	98%		90-110	2	20	2.5

Type: Sample Duplicate	Lab ID: QC867084	Batch: 245302
Matrix (Source ID): Drinking Water (427604-011)	Method: SM2130B	

QC867084 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Turbidity	0.2300	0.2290	NTU		0	20	1

Type: Blank	Lab ID: QC867204	Batch: 245354
Matrix: Water	Method: SM 5310B	

QC867204 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Organic Carbon	ND		mg/L	1.0	0.091	04/30/20	04/30/20

Type: Lab Control Sample	Lab ID: QC867205	Batch: 245354
Matrix: Water	Method: SM 5310B	

QC867205 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	9.718	10.00	mg/L	97%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type: Matrix Spike **Lab ID: QC867206** **Batch: 245354**
Matrix (Source ID): Water (427633-001) **Method: SM 5310B**

QC867206 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Organic Carbon	22.62	3.991	20.00	mg/L	93%		80-120	2

Type: Matrix Spike Duplicate **Lab ID: QC867207** **Batch: 245354**
Matrix (Source ID): Water (427633-001) **Method: SM 5310B**

QC867207 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	20.90	3.991	20.00	mg/L	85%		80-120	8	20	2

Type: Blank **Lab ID: QC867069** **Batch: 245289**
Matrix: Water **Method: SM 4500-CL-G**

QC867069 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Chlorine, Total Residual	ND		mg/L	0.10	0.016	04/29/20 17:26	04/29/20 17:26

Type: Lab Control Sample **Lab ID: QC867070** **Batch: 245289**
Matrix: Water **Method: SM 4500-CL-G**

QC867070 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chlorine, Total Residual	0.9560	1.000	mg/L	96%		80-120

Type: Sample Duplicate **Lab ID: QC867071** **Batch: 245289**
Matrix (Source ID): Water (427576-002) **Method: SM 4500-CL-G**

QC867071 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Chlorine, Total Residual	0.6400	0.6410	mg/L		0	20	1

Type: Blank **Lab ID: QC867467** **Batch: 245463**
Matrix: Water **Method: SM 4500-NH3-G**

QC867467 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Ammonia-N	ND		mg/L	0.10	0.010	05/04/20	05/04/20

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	Lab ID: QC867468	Batch: 245463
Matrix: Water	Method: SM 4500-NH3-G	

QC867468 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Ammonia-N	2.360	2.500	mg/L	94%		80-120

Type: Matrix Spike	Lab ID: QC867469	Batch: 245463
Matrix (Source ID): Water (427620-002)	Method: SM 4500-NH3-G	

QC867469 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Ammonia-N	2.430	ND	2.500	mg/L	97%		80-120	1

Type: Matrix Spike Duplicate	Lab ID: QC867470	Batch: 245463
Matrix (Source ID): Water (427620-002)	Method: SM 4500-NH3-G	

QC867470 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Ammonia-N	2.320	ND	2.500	mg/L	93%		80-120	5	20	1

Type: Blank	Lab ID: QC867663	Batch: 245561
Matrix: Water	Method: EPA 1664A	Prep Method: METHOD

QC867663 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Oil and Grease	ND		mg/L	5.0	1.4	05/05/20	05/05/20

Type: Lab Control Sample	Lab ID: QC867664	Batch: 245561
Matrix: Water	Method: EPA 1664A	Prep Method: METHOD

QC867664 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Oil and Grease	36.50	40.00	mg/L	91%		78-114

Type: Lab Control Sample Duplicate	Lab ID: QC867665	Batch: 245561
Matrix: Water	Method: EPA 1664A	Prep Method: METHOD

QC867665 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Total Oil and Grease	39.60	40.00	mg/L	99%		78-114	8	18

ENTHALPY ANALYTICAL

Batch QC

Type: Sample Duplicate **Lab ID:** QC867079 **Batch:** 245297
Matrix (Source ID): Drinking Water (427604-011) **Method:** SM 2150B

QC867079 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Odor	ND	ND	TON			20	1

Type: Blank **Lab ID:** QC867134 **Batch:** 245323
Matrix: Water **Method:** SM5540C

QC867134 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Surfactants (MBAS)	ND		mg/L	0.040	0.027	04/29/20 15:00	04/29/20 18:40

Type: Lab Control Sample **Lab ID:** QC867135 **Batch:** 245323
Matrix: Water **Method:** SM5540C

QC867135 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Surfactants (MBAS)	0.9930	1.000	mg/L	99%		90-110

Type: Matrix Spike **Lab ID:** QC867136 **Batch:** 245323
Matrix (Source ID): Water (427620-002) **Method:** SM5540C

QC867136 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Surfactants (MBAS)	1.011	ND	1.000	mg/L	100%		80-120	1

Type: Matrix Spike Duplicate **Lab ID:** QC867137 **Batch:** 245323
Matrix (Source ID): Water (427620-002) **Method:** SM5540C

QC867137 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Surfactants (MBAS)	0.9760	ND	1.000	mg/L	97%		80-120	4	20	1

Type: Sample Duplicate **Lab ID:** QC867074 **Batch:** 245295
Matrix (Source ID): Drinking Water (427604-011) **Method:** SM2120B

QC867074 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Color	ND	ND	ColorUnits			20	1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Sample Duplicate**	**Lab ID:**	**QC867580**	**Batch:**	**245515**
Matrix (Source ID):	**Water (427501-002)**	**Method:**	**SM 4500-H+ B**		

QC867580 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
pH	6.520	6.510	SU		0	20	1
Temperature	12.70	12.70	deg C		0	20	1

ND Not Detected
b See narrative

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

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.

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

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	

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

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
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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

As of 8/16/2018 , this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

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
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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.

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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