INTEGRATED
PERFORMANCE
CONSULTANTS

July 30th, 2019

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
2019 2nd Quarter Monitoring Report — MRP: CI-10042

OVERVIEW

Malibu Civic Center Wastewater Treatment Plant performed well all quarter.

The injection well piping and control issues were identified last quarter and corrective efforts continued into this quarter. The temporary injection system installed at Injection Well 1 was used through 06/21/2019, when the contractor completed warranty repairs to the Backflush Pump check valves for IW1 and IW2. From 06/21/2019 onward, the permanent injection systems were used. Effluent was discharged to onsite percolation from 06/19/2019 through 06/21/2019 to accommodate leak repairs on the Malibu Road recycled water line which required the Injection Wells to be shut down. Effluent was discharged to onsite percolation briefly on 6/30/2019 due to a problem with the IW1 Backflush Pump, which required switching to IW2.

SUMMARY OF NON-COMPLIANCE

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

INFLUENT & EFFLUENT MONITORING

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

WASTE HAULING

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

GROUNDWATER AND SURFACE WATER MONITORING

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

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

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

Executed on the 30th day of July, 2019, 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 Plant Reuse	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	kgpd	mg/L	mg/L	kgpd	kgpd	kgpd	kgpd	kgpd	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		
	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																
04/01/2019	Mon	55.5			49.4	0.0	0.0	49.4	0.0	0.08	0.40	0.66	63.8	101.5	7.5	1.79	1.79	1.79	0.049																				
04/02/2019	Tue	56.1			49.1	0.0	0.0	49.1	0.0	0.07	0.47	0.51	63.6	102.7	7.0	1.79	1.79	1.79	0.049																				
04/03/2019	Wed	52.8	155	443	49.2	0.0	0.0	49.2	0.0	0.07	0.42	0.92	63.4	106.4	7.4	1.79	1.79	1.79	0.049	2.0	99.5	0.9	99.4	0.0	0.0	0.02	0.14	1.34	1.20	1.39								
04/04/2019	Thu	56.9			48.8	0.0	0.0	48.8	0.0	0.08	0.50	0.71	63.2	104.2	7.5	1.79	1.79	1.79	0.049														4.9	0.1	1,120	268	274	0.43	0.19	
04/05/2019	Fri	57.4			48.6	0.0	0.0	48.6	0.0	0.09	0.48	1.78	62.2	107.1	7.4	1.79	1.79	1.79	0.049																				
04/06/2019	Sat	113.1			48.7	0.0	0.0	48.7	0.0	0.10	0.37	0.51	63.5	105.6	7.4	1.79	1.79	1.79	0.049																				
04/07/2019	Sun	55.9			58.2	0.0	0.0	58.2	0.0	0.10	0.11	0.00	66.0	107.2	7.4	1.79	1.79	1.79	0.049																				
04/08/2019	Mon	53.6			48.9	0.0	0.0	48.9	0.0	0.13	0.49	0.97	65.3	109.2	7.4	1.79	1.79	1.79	0.049																				
04/09/2019	Tue	53.4	124	360	49.0	0.0	0.0	49.0	0.0	0.13	0.45	1.53	66.0	95.3	7.4	1.79	1.79	1.79	0.049	2.0	99.4	1.0	99.2	0.2	0.2	0.02	0.09	0.95	0.86	1.15								
04/10/2019	Wed	67.6			48.4	0.0	0.0	48.4	0.0	0.12	0.47	0.82	65.8	111.1	7.8	1.79	1.79	1.79	0.049																				
04/11/2019	Thu	52.1			59.4	0.0	0.0	59.4	0.0	0.13	0.48	1.58	66.3	109.0	7.5	1.79	1.79	1.79	0.049																				
04/12/2019	Fri	68.0			50.1	0.0	0.0	50.1	0.0	0.15	0.36	0.97	65.8	110.5	7.6	1.79	1.79	1.79	0.049																				
04/13/2019	Sat	56.3			49.1	0.0	0.0	49.1	0.0	0.13	0.43	0.61	66.3	102.9	7.5	1.79	1.79	1.79	0.049																				
04/14/2019	Sun	55.2			48.8	0.0	0.0	48.8	0.0	0.13	0.47	1.53	64.9	99.1	7.7	1.79	1.79	1.79	0.049																				
04/15/2019	Mon	53.7			49.4	0.0	0.0	49.4	0.0	0.13	0.38	1.17	64.0	93.2	7.4	1.79	1.79	1.79	0.049																				
04/16/2019	Tue	55.4	271	420	49.5	0.0	0.0	49.5	0.0	0.13	0.45	1.27	64.1	94.8	7.5	1.79	1.79	1.79	0.049	1.9	99.5	1.0	99.6	0.5	0.5	0.02	0.10	1.07	0.97	1.57								
04/17/2019	Wed	55.8			49.4	0.0	0.0	49.4	0.0	0.13	0.48	1.43	64.7	111.6	7.3	1.79	1.79	1.79	0.049																				
04/18/2019	Thu	57.5			49.5	0.0	0.0	49.5	0.0	0.14	0.14	0.00	64.1	95.0	7.5	1.79	1.79	1.79	0.049																				
04/19/2019	Fri	60.0			49.4	0.0	0.0	49.4	0.0	0.14	0.37	0.82	63.8	104.2	7.4	1.79	1.79	1.79	0.049																				
04/20/2019	Sat	58.5			49.5	0.0	0.0	49.5	0.0	0.17	0.40	1.68	63.6	105.0	7.5	1.79	1.79	1.79	0.049																				
04/21/2019	Sun	48.9			49.4	0.0	0.0	49.4	0.0	0.17	0.48	0.76	63.0	95.6	7.5	1.79	1.79	1.79	0.049																				
04/22/2019	Mon	69.5			49.4	0.0	0.0	49.4	0.0	0.16	0.18	0.00	63.0	107.6	7.6	1.79	1.79	1.79	0.049																				
04/23/2019	Tue	58.7	248	420	57.7	0.0	0.0	57.7	0.0	0.15	0.45	0.76	63.9	108.9	7.5	1.79	1.79	1.79	0.049	3.0	99.3	1.0	99.6	0.8	0.8	0.02	0.15	0.99	0.84	1.84								
04/24/2019	Wed	55.3			55.1	0.0	0.0	55.1	0.0	0.16	0.21	0.20	62.3	113.2	7.4	1.79	1.79	1.79	0.049																				
04/25/2019	Thu	58.0			36.5	0.0	0.0	36.5	0.0	0.17	0.26	0.31	63.5	120.1	7.9	1.79	1.79	1.79	0.049																				
04/26/2019	Fri	54.3			49.1	0.0	0.0	49.1	0.0	0.18	0.19	0.00	68.3	121.1	7.5	1.79	1.79	1.79	0.049																				
04/27/2019	Sat	51.9			49.2	0.0	0.0	49.2	0.0	0.18	0.30	1.07	64.1	123.4	7.4	1.79	1.79	1.79	0.049																				
04/28/2019	Sun	49.1			49.1	0.0	0.0	49.1	0.0	0.18	0.34	1.63	62.5	125.7	7.4	1.79	1.79	1.79	0.049																				
04/29/2019	Mon	55.9	212	318	49.2	0.0	0.0	49.2	0.0	0.16	0.21	0.20	62.6	129.6	7.5	1.79	1.79	1.79	0.049																				
04/30/2019	Tue	55.0			49.2	0.0	0.0	49.2	0.0	0.15	0.17	0.00	63.3	124.7	7.4	1.79	1.79	1.79	0.049	1.9	99.4	0.9	99.6	2.2	2.2	0.02	0.35	1.61	1.26	3.81								
	TOTAL	1,751			1,496.3	0.0	0.0	1,496.3	0.0																														
	MAX	113.1	271	443	59.4	0.0	0.0	59.4	0.0	0.18	0.50	1.78	68.3	129.6	7.9	1.79	1.79	1.79	0.049	3.0	99.5	1.0	99.6	2.2	2.2	0.02	0.35	1.61	1.26	3.81	4.9	0.1	1,120	268	274	0.43	0.19	
	AVG	58.4	202	392	49.9	0.0	0.0	49.9	0.0	0.13	0.36	0.81	64.2	108.2	7.5	1.79	1.79	1.79	0.049	2.2	99.4	1.0	99.5	0.8	0.7	0.02	0.17	1.19	1.03	1.95	4.9	0.1	1,120	268	274	0.43	0.19	
	MIN	48.9	124	318	36.5	0.0	0.0	36.5	0.0	0.07	0.11	0.00	62.2	93.2	7.0	1.79	1.79	1.79	0.049	1.9	99.3	0.9	99.2	0.0	0.0	0.02	0.09	0.95	0.84	1.15	4.9	0.1	1,120	268	274	0.43	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 Plant Reuse	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	kgpd	mg/L	mg/L	kgpd	kgpd	kgpd	kgpd	kgpd	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															
05/01/2019	Wed	56.4			49.2	0.0	0.0	49.2	0.0	0.14	0.18	0.00	63.8	128.4	7.1	1.8	1.79	1.8	0.049											4.9	0.2	1,064	227	287	0.51	0.19
05/02/2019	Thu	57.0			49.2	0.0	0.0	49.2	0.0	0.15	0.16	0.00	63.6	127.7	7.4	1.8	1.79	1.8	0.049																		
05/03/2019	Fri	55.7			49.2	0.0	0.0	49.2	0.0	0.15	0.21	0.10	63.7	123.5	7.4	1.8	1.79	1.8	0.049																		
05/04/2019	Sat	55.4			49.2	0.0	0.0	49.2	0.0	0.14	0.18	0.00	64.3	132.4	7.5	1.8	1.79	1.8	0.049																		
05/05/2019	Sun	46.9			49.3	0.0	0.0	49.3	0.0	0.15	0.22	0.31	64.5	143.5	7.4	1.8	1.79	1.8	0.049																		
05/06/2019	Mon	52.3			49.2	0.0	0.0	49.2	0.0	0.14	0.17	0.00	63.9	132.8	7.3	1.8	1.79	1.8	0.049																		
05/07/2019	Tue	57.9	159	385	49.3	0.0	0.0	49.3	0.0	0.12	0.16	0.00	63.7	128.9	7.6	1.8	1.79	1.8	0.049	2.0	99.5	0.9	99.4	2.7	2.6	0.04	0.12	1.26	1.14	3.93							
05/08/2019	Wed	56.9			49.3	0.0	0.0	49.3	0.0	0.12	0.16	0.00	64.4	124.7	7.8	1.8	1.79	1.8	0.049																		
05/09/2019	Thu	56.7			49.4	0.0	0.0	49.4	0.0	0.13	0.33	0.10	65.9	120.3	7.7	1.8	1.79	1.8	0.049																		
05/10/2019	Fri	54.1			49.3	0.0	0.0	49.3	0.0	0.15	0.22	0.20	66.2	133.3	8.0	1.8	1.79	1.8	0.049																		
05/11/2019	Sat	59.1			49.3	0.0	0.0	49.3	0.0	0.14	0.25	0.31	66.0	134.6	7.4	1.8	1.79	1.8	0.049																		
05/12/2019	Sun	57.8			49.3	0.0	0.0	49.3	0.0	0.15	0.36	0.46	65.7	131.2	7.2	1.8	1.79	1.8	0.049																		
05/13/2019	Mon	66.1			49.3	0.0	0.0	49.3	0.0	0.14	0.16	0.00	65.2	123.1	7.4	1.8	1.79	1.8	0.049																		
05/14/2019	Tue	66.1			49.3	0.0	0.0	49.3	0.0	0.14	0.26	0.25	65.3	127.4	7.6	1.8	1.79	1.8	0.049																		
05/15/2019	Wed	75.2	191	299	49.3	0.0	0.0	49.3	0.0	0.13	0.15	0.00	65.9	103.7	7.6	1.8	1.79	1.8	0.049	4.0	98.7	0.9	99.5	2.9	2.8	0.04	0.09	1.10	1.01	3.96							
05/16/2019	Thu	68.6			49.3	0.0	0.0	49.3	0.0	0.13	0.27	0.25	66.4	102.8	7.3	1.8	1.79	1.8	0.049																		
05/17/2019	Fri	53.3			49.2	0.0	0.0	49.2	0.0	0.14	0.19	0.00	65.9	126.9	7.0	1.8	1.79	1.8	0.049																		
05/18/2019	Sat	56.9			49.3	0.0	0.0	49.3	0.0	0.13	0.20	0.00	65.9	136.6	7.4	1.8	1.79	1.8	0.049																		
05/19/2019	Sun	69.6			49.2	0.0	0.0	49.2	0.0	0.12	0.20	0.00	65.4	119.5	7.4	1.8	1.79	1.8	0.049																		
05/20/2019	Mon	58.5			49.2	0.0	0.0	49.2	0.0	0.10	0.19	0.00	66.3	144.0	7.4	1.8	1.79	1.8	0.049																		
05/21/2019	Tue	50.3			49.3	0.0	0.0	49.3	0.0	0.08	0.17	0.00	66.5	151.8	7.5	1.8	1.79	1.8	0.049																		
05/22/2019	Wed	51.9	212	340	49.3	0.0	0.0	49.3	0.0	0.07	0.11	0.00	66.4	151.3	7.6	1.8	1.79	1.8	0.049	1.9	99.4	0.9	99.6	4.2	4.2	0.06	0.09	0.77	0.68	5.01							
05/23/2019	Thu	51.2			49.2	0.0	0.0	49.2	0.0	0.07	0.11	0.00	65.8	154.2	7.4	1.8	1.79	1.8	0.049																		
05/24/2019	Fri	52.6			49.3	0.0	0.0	49.3	0.0	0.16	0.21	0.20	62.3	113.2	7.4	1.8	1.79	1.8	0.049																		
05/25/2019	Sat	56.5			49.3	0.0	0.0	49.3	0.0	0.07	0.14	0.00	65.8	149.4	7.5	1.8	1.79	1.8	0.049																		
05/26/2019	Sun	48.3			49.3	0.0	0.0	49.3	0.0	0.08	0.19	0.00	66.0	147.6	7.5	1.8	1.79	1.8	0.049																		
05/27/2019	Mon	53.9			49.3	0.0	0.0	49.3	0.0	0.08	0.09	0.00	65.8	146.0	7.4	1.8	1.79	1.8	0.049																		
05/28/2019	Tue	50.7			49.3	0.0	0.0	49.3	0.0	0.07	0.18	0.00	65.6	145.2	7.3	1.8	1.79	1.8	0.049																		
05/29/2019	Wed	54.3	312	601	49.4	0.0	0.0	49.4	0.0	0.08	0.15	0.00	65.4	140.3	7.4	1.8	1.79	1.8	0.049	2.0	99.7	0.9	99.7	2.5	2.5	0.02	0.09	1.18	1.09	3.67							
05/30/2019	Thu	55.1			49.4	0.0	0.0	49.4	0.0	0.09	0.14	0.00	64.5	134.8	7.4	1.8	1.79	1.8	0.049																		
05/31/2019	Fri	52.2			49.3	0.0	0.0	49.3	0.0	0.10	0.15	0.00	64.4	134.1	7.3	1.8	1.79	1.8	0.049																		
	TOTAL	1,705			1,478.4	0.0	0.0	1,478.4	0.0																												
	MAX	75.2	312	601	49.4	0.0	0.0	49.4	0.0	0.16	0.36	0.46	66.5	154.2	8.0	1.8	1.79	1.8	0.049	4.0	99.7	0.9	99.7	4.2	4.2	0.06	0.12	1.26	1.14	5.01	4.9	0.2	1,064	227	287	0.51	0.19
	AVG	56.8	219	406	49.3	0.0	0.0	49.3	0.0	0.12	0.19	0.07	65.2	132.6	7.4	1.8	1.79	1.8	0.049	2.5	99.3	0.9	99.6	3.1	3.0	0.04	0.10	1.08	0.98	4.14	4.9	0.2	1,064	227	287	0.51	0.19
	MIN	46.9	159	299	49.2	0.0	0.0	49.2	0.0	0.07	0.09	0.00	62.3	102.8	7.0	1.8	1.79	1.8	0.049	1.9	98.7	0.9	99.4	2.5	2.5	0.02	0.09	0.77	0.68	3.67	4.9	0.2	1,064	227	287	0.51	0.19

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		INFLUENT			EFFLUENT																																	
		DAILY	WEEKLY		DAILY																WEEKLY										MONTHLY							
		Q Total Influent	TSS	BOD	Q Total Effluent	Q Lower Reuse	Q Upper Reuse	Q Plant Reuse	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	kgpd	mg/L	mg/L	kgpd	kgpd	kgpd	kgpd	kgpd	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																
06/01/2019	Sat	52.7			50.1	0.0	0.0	50.1	0.0	0.11	0.20	0.00	64.1	138.0	7.4	1.79	1.79	1.79	0.049																			
06/02/2019	Sun	49.0			49.5	0.0	0.0	49.5	0.0	0.10	0.15	0.00	63.6	132.9	7.5	1.79	1.79	1.79	0.049																			
06/03/2019	Mon	48.1			49.5	0.0	0.0	49.5	0.0	0.10	0.20	0.00	63.2	135.4	6.9	1.79	1.79	1.79	0.049																			
06/04/2019	Tue	49.5			49.5	0.0	0.0	49.5	0.0	0.10	0.12	0.00	62.7	135.7	7.3	1.79	1.79	1.79	0.049																			
06/05/2019	Wed	52.7	263	349	49.6	0.0	0.0	49.6	0.0	0.10	0.34	0.05	62.6	139.5	7.5	1.79	1.79	1.79	0.049	1.9	99.5	0.9	99.7	3.0	3.0	0.02	0.09	1.37	1.28	4.42	4.9	3.0	992	195	252	0.44	0.19
06/06/2019	Thu	54.0			49.6	0.0	0.0	49.6	0.0	0.10	0.19	0.00	63.7	136.5	7.6	1.79	1.79	1.79	0.049																			
06/07/2019	Fri	57.2			49.6	0.0	0.0	49.6	0.0	0.10	0.15	0.00	64.1	132.9	7.6	1.79	1.79	1.79	0.049																			
06/08/2019	Sat	59.0			49.6	0.0	0.0	49.6	0.0	0.10	0.17	0.00	64.3	131.4	7.6	1.79	1.79	1.79	0.049																			
06/09/2019	Sun	59.1			49.6	0.0	0.0	49.6	0.0	0.10	0.15	0.00	64.3	126.0	7.0	1.79	1.79	1.79	0.049																			
06/10/2019	Mon	57.8			49.7	0.0	0.0	49.7	0.0	0.10	0.11	0.00	66.0	133.2	7.3	1.79	1.79	1.79	0.049																			
06/11/2019	Tue	56.2	326	409	50.3	0.0	0.0	50.3	0.0	0.10	0.28	0.25	66.3	134.5	7.4	1.79	1.79	1.79	0.049																			
06/12/2019	Wed	56.8			51.2	0.0	0.0	51.2	0.0	0.10	0.14	0.00	67.6	140.2	7.5	1.79	1.79	1.79	0.049	3.0	99.3	1.0	99.7	2.6	2.6	0.02	0.09	0.92	0.83	3.57								
06/13/2019	Thu	59.2			51.1	0.0	0.0	51.1	0.0	0.11	0.17	0.00	67.4	132.3	7.5	1.79	1.79	1.79	0.049																			
06/14/2019	Fri	59.0			51.0	0.0	0.0	51.0	0.0	0.10	0.15	0.00	66.4	126.3	7.5	1.79	1.79	1.79	0.049																			
06/15/2019	Sat	58.9			52.1	0.0	0.0	52.1	0.0	0.10	0.17	0.00	66.5	126.4	7.4	1.79	1.79	1.79	0.049																			
06/16/2019	Sun	60.4			54.0	0.0	0.0	54.0	0.0	0.11	0.16	0.00	66.2	122.0	7.2	1.79	1.79	1.79	0.049																			
06/17/2019	Mon	57.5			53.9	0.0	0.0	53.9	0.0	0.11	0.20	0.10	66.4	124.6	7.5	1.79	1.79	1.79	0.049																			
06/18/2019	Tue	57.6			54.7	0.0	0.0	54.7	0.0	0.12	0.30	0.36	67.0	126.5	7.4	1.79	1.79	1.79	0.049																			
06/19/2019	Wed	57.2	313	422	61.8	0.0	0.0	55.9	5.9	0.13	0.17	0.00	66.8	128.7	7.4	1.79	1.79	1.79	0.049	1.9	99.5	1.0	99.7	2.3	2.3	0.02	0.09	0.87	0.78	3.21							
06/20/2019	Thu	77.1			71.4	0.0	0.0	35.9	35.5	0.14	0.24	0.20	66.5	111.0	7.3	1.79	1.79	1.79	0.049																			
06/21/2019	Fri	64.4			89.7	0.0	0.0	53.4	36.3	0.14	0.20	0.00	68.9	113.5	7.8	1.79	1.79	1.79	0.049																			
06/22/2019	Sat	64.1			37.8	0.0	0.0	37.8	0.0	0.14	0.24	0.41	69.3	117.0	7.3	1.79	1.79	1.79	0.049																			
06/23/2019	Sun	62.4			40.5	0.0	0.0	40.5	0.0	0.14	0.20	0.10	68.1	112.3	7.5	1.79	1.79	1.79	0.049																			
06/24/2019	Mon	60.8			51.2	0.0	0.0	51.2	0.0	0.14	0.15	0.00	67.5	108.2	7.2	1.79	1.79	1.79	0.049																			
06/25/2019	Tue	59.9	140	315	51.2	0.0	0.0	51.2	0.0	0.14	0.42	1.78	67.2	105.1	7.4	1.79	1.79	1.79	0.049																			
06/26/2019	Wed	62.1			52.4	0.0	0.0	52.4	0.0	0.13	0.19	0.00	67.1	102.4	7.8	1.79	1.79	1.79	0.049			2.0																
06/27/2019	Thu	60.6			54.1	0.0	0.0	54.1	0.0	0.13	0.23	0.20	66.6	104.1	7.4	1.79	1.79	1.79	0.049	1.9	99.4		98.6	2.9	2.9	0.04	0.26	0.93	0.67	3.87							
06/28/2019	Fri	62.7			55.2	0.0	0.0	55.2	0.0	0.13	0.46	0.51	66.6	105.3	7.2	1.79	1.79	1.79	0.049																			
06/29/2019	Sat	66.6			55.8	0.0	0.0	55.8	0.0	0.13	0.22	0.10	66.4	95.9	7.5	1.79	1.79	1.79	0.049																			
06/30/2019	Sun	76.8			45.9	0.0	0.0	20.4	25.5	0.13	0.25	0.31	66.3	88.1	7.5	1.79	1.79	1.79	0.049																			
	TOTAL	1,779			1,581.6	0.0	0.0	1,478.4	103.2																													
	MAX	77.1	326	422	89.7	0.0	0.0	55.9	36.3	0.14	0.46	1.78	69.3	140.2	7.8	1.79	1.79	1.79	0.049	3.0	99.5	2.0	99.7	3.0	3.0	0.04	0.26	1.37	1.28	4.42	4.9	3.0	992	195	252	0.44	0.19
	AVG	59.3	261	374	52.7	0.0	0.0	49.3	3.4	0.12	0.21	0.15	66.0	122.2	7.4	1.79	1.79	1.79	0.049	2.2	99.4	1.2	99.4	2.7	2.7	0.02	0.13	1.02	0.89	3.77	4.9	3.0	992	195	252	0.44	0.19
	MIN	48.1	140	315	37.8	0.0	0.0	20.4	0.0	0.10	0.11	0.00	62.6	88.1	6.9	1.79	1.79	1.79	0.049	1.9	99.3	0.9	98.6	2.3	2.3	0.02	0.09	0.87	0.67	3.21	4.9	3.0	992	195	252	0.44	0.19

ATTACHMENT B: QUARTERLY EFF

			>> DATE >>	2/8					
	MCL	Units	Q1	Q2	Q3	Q4	MAX	AVG	MIN
A1 - Inorganic Chemicals									
Aluminum	1	mg/L	0.031	0.081			0.081	0.056	0.031
Antimony	0.006	mg/L	0.00009	0.0009			0.0009	0.000495	0.00009
Arsenic	0.01	mg/L	0.0015	0.001			0.0015	0.00125	0.001
Asbestos	7	MFL	0	0			0	0	0
Barium	1	mg/L	0.011	0.022			0.022	0.0165	0.011
Beryllium	0.004	mg/L	0.00019	0.00019			0.00019	0.00019	0.00019
Cadmium	0.005	mg/L	0.00019	0.00019			0.00019	0.00019	0.00019
Chromium	0.05	mg/L	0.0054	0.0052			0.0054	0.0053	0.0052
Cyanide	0.15	mg/L	0.0049	4.90E-06			0.0049	2.45E-03	4.90E-06
Mercury	0.002	mg/L	0.00019	0.00019			0.00019	0.00019	0.00019
Nickel	0.1	mg/L	0.0038	0.0046			0.0046	0.0042	0.0038
Selenium	0.05	mg/L	0.0053	0.0056			0.0056	0.00545	0.0053
Thallium	0.002	mg/L	0.0009	0.0009			0.0009	0.0009	0.0009
Perchlorate	0.006	mg/L	0	0			0	0	0
Fluoride	2	mg/L	0.57	0.00009			0.57	0.285045	0.00009
A2 - Radioactivity									
Radium-226 + Radium-228	5	pCi/L	0.726	0.470			0.726	0.598	0.47
Gross Alpha Particle Activity[1]	15	pCi/L	1.24	1.78			1.78	1.51	1.24
Tritium	20,000	pCi/L	434	434			434	434	434
Strontium-90	8	pCi/L	0.546	0.546			0.546	0.546	0.546
Gross Beta Particle Activity	50	pCi/L	1.04	1.49			1.49	1.265	1.04
Uranium	20	pCi/L	0.342	4.6 ug/l			0.342	0.342	0.342
A3 - Volatile Organic Chemicals									
Benzene	0.001	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
Carbon Tetrachloride (CTC)	0.0005	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
1,2-Dichlorobenzene	0.6	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
1.4-Dichlorobenzene	0.005	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
1, 1-Dichloroethane	0.005	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
1,2-Dichloroethane (1,2-DCA)	0.0005	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
1, 1-Dichloroethene (1, 1-DCE)	0.006	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
Cis-1,2-Dichloroethylene	0.006	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
Trans-1,2-Dichloroethylene	0.01	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
Dichloromethane	0.005	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
1,2-Dichloropropane	0.005	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
1,3-Dichloropropene	0.0005	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
Ethylbenzene	0.3	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049

			>> DATE >>	2/8					
	MCL	Units	Q1	Q2	Q3	Q4	MAX	AVG	MIN
A3 - Non-Volatile Synthetic Organics									
Alachlor	0.002	mg/L	0.00019	0.00019			0.00019	0.00019	0.00019
Atrazine	0.001	mg/L	0.00019	0.00019			0.00019	0.00019	0.00019
Bentazon	0.018	mg/L	0.0002	0.00019			0.0002	0.000195	0.00019
Benzo(a)pyrene	0.0002	mg/L	0.000049	0.000049			0.000049	0.000049	0.000049
Carbofuran	0.018	mg/L	0.0009	0.0009			0.0009	0.0009	0.0009
Chlordane	0.0001	mg/L	0.0009	0.00009			0.0009	0.000495	0.00009
2,4-D	0.07	mg/L	0.00019	0.00019			0.00019	0.00019	0.00019
Dalapon	0.2	mg/L	0.00019	0.00019			0.00019	0.00019	0.00019
1,2-Dibromo-3-chloropropane (DBCP)	0.0002	mg/L	0.000009	1.90E-06			0.000009	0.00000545	0.0000019
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	0.0019	0.00019			0.0019	0.001045	0.00019
Diquat	0.02	mg/L	0.00039	0.001748			0.001748	0.001069	0.00039
Endothall	0.1	mg/L	0.0449	0.202			0.202	0.12345	0.0449
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	0.0049	0.05005			0.05005	0.027475	0.0049
Heptachlor	0.00001	mg/L	9.00E-06	0.000019			1.90E-05	1.40E-05	9.00E-06
Heptachlor Epoxide	0.00001	mg/L	9.00E-06	0.000019			1.90E-05	1.40E-05	9.00E-06
Hexachlorobenzene	0.001	mg/L	9.00E-06	1.90E-05			1.90E-05	1.40E-05	9.00E-06
Hexachlorocyclopentadiene	0.05	mg/L	9.00E-06	1.90E-05			1.90E-05	1.40E-05	9.00E-06
lindane	0.0002	mg/L	9.00E-06	1.90E-05			1.90E-05	1.40E-05	9.00E-06
Methoxychlor	0.03	mg/L	4.90E-05	4.90E-05			4.90E-05	4.90E-05	4.90E-05
Molinate	0.02	mg/L	1.90E-04	1.90E-04			1.90E-04	1.90E-04	1.90E-04
Oxamyl	0.05	mg/L	9.00E-04	9.00E-04			9.00E-04	9.00E-04	9.00E-04
Pentachlorophenol	0.001	mg/L	1.90E-04	1.90E-04			1.90E-04	1.90E-04	1.90E-04
Picloram	0.5	mg/L	1.90E-04	1.90E-04			1.90E-04	1.90E-04	1.90E-04
Polychlorinated Biphenyls	0.0005	mg/L	9.00E-05	9.00E-05			9.00E-05	9.00E-05	9.00E-05
Simazine	0.004	mg/L	1.90E-04	1.90E-04			1.90E-04	1.90E-04	1.90E-04
Thiobencarb	0.07	mg/L	1.90E-04	1.90E-04			1.90E-04	1.90E-04	1.90E-04
Toxaphene	0.003	mg/L	9.00E-04	9.00E-05			9.00E-04	4.95E-04	9.00E-05
2,3,7,8-TCDD (Dioxin)	3x10-a	mg/L	4.14E-09				4.14E-09	4.14E-09	4.14E-09
2,4,5-TP (Silvex)	0.05	mg/L	1.90E-04	1.90E-04			1.90E-04	1.90E-04	1.90E-04
A4 - Disinfection Byproducts									
Total Trihalomethanes (TTHM)	0.08	ppb	0.49	0.00049			0.49	0.245245	0.00049
Bromodichloromethane			0.49	0.00049			0.49	0.245245	0.00049
Bromoform			0.49	0.00049			0.49	0.245245	0.00049

ATTACHMENT B: QUARTERLY EFF

	>> DATE >>		2/8						
	MCL	Units	Q1	Q2	Q3	Q4	MAX	AVG	MIN
Methyl-tert-butyl-ether (MTBE)	0.013	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
Monochlorobenzene	0.07	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
Styrene	0.1	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
1,1,2,2-Tetrachloroethane	0.001	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
Tetrachloroethylene (PCE)	0.005	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
Toluene	0.15	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
1,2,4-Trichlorobenzene	0.005	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
1, 1, 1-Trichloroethane	0.2	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
1, 1,2-Trichloroethane	0.005	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
Trichloroethylene (TCE)	0.005	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
Trichlorofluoromethane	0.15	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
1, 1,2-Trichloro-1,2,2-Trifluoroethane	1.2	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
Vinyl Chloride	0.0005	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049
Xylene (m,p)	1.75	mg/L	0.00049	0.00049			0.00049	0.00049	0.00049

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

	>> DATE >>		2/8						
	MCL	Units	Q1	Q2	Q3	Q4	MAX	AVG	MIN
Chloroform			0.49	0.0006			0.49	0.2453	0.0006
Dibromochloromethane			0.49	0.00049			0.49	0.245245	0.00049
Haloacetic acid (five) (HAA5)	0.06	ppb	0.49	0.00049			0.49	0.245245	0.00049
Monochloroacetic acid		ppb	0.49	0.00049			0.49	0.245245	0.00049
Dichloroacetic acid		ppb	0.49	0.00049			0.49	0.245245	0.00049
Trichloroacetic acid		ppb	0.49	0.00049			0.49	0.245245	0.00049
Monobromoacetic acid		ppb	0.49	0.00049			0.49	0.245245	0.00049
Dibromoacetic acid		ppb	0.5	0.00049			0.5	0.250245	0.00049
Bromate121	0.01	ppb	38.2	0.024			38.2	19.112	0.024
Chlorite131	1	ppb	19.9	0.099			19.9	9.9995	0.099
A5 - Secondary MCLs									
Aluminum	0.2	mg/L	0.031	0.081			0.081	0.056	0.031
Color	150	CU	24.4	25.3			25.3	24.85	24.4
Copper	1	mg/L	0.0008	0.001			0.001	0.0009	0.0008
Corrosivity (Langelier Index)	Non		0.24	-0.06			0.24	0.09	-0.06
Foam Agents (MBAS)	0.5	mg/L	0.19	0.00019			0.19	0.095095	0.00019
Iron	0.3	mg/L	0.11				0.11	0.11	0.11
Manganese	0.05	mg/L	0.0024				0.0024	0.0024	0.0024
Methyl-tert-butyl-ether (MTBE)	0.005	mg/L	0.00049	0.00049			0.00049	0.00049	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	0.012	0.022			0.022	0.017	0.012

ATTACHMENT C: SEWAGE, SLUDGE, AND GREASE HAULING

	DATE	DAY	GAL	LOCATION	DESCRIPTION	REASON FOR HAUL	DESTINATION	HAULER
FIRST QUARTER	02/18/2019	Mon	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	03/08/2019	Fri	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	03/20/2019	Wed	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	QUARTER TOTAL		15,000					
SECOND QUARTER	04/04/2019	Thu	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	04/10/2019	Wed	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	04/17/2019	Wed	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	04/25/2019	Thu	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	05/02/2019	Thu	2,500	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	05/02/2019	Thu	2,500	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	05/17/2019	Fri	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	06/27/2019	Thu	5,000	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	QUARTER TOTAL		35,000					

ATTACHMENT H: SEWAGE, SLUDGE, AND GREASE HAULING

THIRD QUARTER	07/03/2019	Wed	2,500	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	07/05/2019	Fri	2,500	MBT	Waste Activated Sludge	Biological Process Control	JWPCP	Ely Jr's Pumping
	QUARTER TOTAL		5,000					
FOURTH QUARTER								
	QUARTER TOTAL		0					



Malibu Civic Center Wastewater Treatment Facility

Second Quarter 2019 Long-Term Groundwater and Surface Water Monitoring Report

prepared by

Rincon Consultants, Inc.

July 30, 2019

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July 30, 2019
Project No: 15-01587

Craig George
Environmental Sustainability Department Director
Building Official
City of Malibu
23825 Stuart Ranch Road
Malibu, California 90401

Subject: **Second Quarter 2019 Long-Term Groundwater and Surface Water Monitoring Report, Malibu Civic Center Wastewater Treatment Facility – City of Malibu, California**

Dear Mr. George:

Rincon Consultants, Inc. has prepared the Second Quarter 2019 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 conducted. 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 2019 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 29th day of July at 2019



Signature

Craig George

Title Environmental Sustainability Director

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1 Introduction

This report presents the results of Second Quarter 2019 Long-Term Groundwater and Surface Water Monitoring activities for the Malibu Civic Center Wastewater Treatment Facility (CCWTF) located in the City of Malibu, California (Figure 1). 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 conducted. 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 because 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 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 and a discussion of key objectives.

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 sampled on a quarterly basis after CCWTF operations commence. 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 a better 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 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 Activities Completed During the Second Quarter of 2019

The following activities were completed during the Second Quarter 2019:

- Rincon measured depth to water in groundwater elevation monitoring wells on April 24, May 7, and June 7, 2019.
- Rincon collected and analyzed surface water samples for WDR/MRP compliance on May 8, 2019.
- Rincon collected and analyzed groundwater samples for WDR/MRP compliance on May 8 and May 9, 2019.

5 Groundwater Elevations and Gradients

Rincon mobilized to forty-six (46) groundwater elevation monitoring wells to measure the depth to water using an electronic water level indicator (see Table 1 and Appendix A). Of the 46 groundwater monitoring wells, two (2) of the wells were unable to be located (MBCMW-5 and MBCMW-6), one (1) well was reported buried (GH9-M4), and one (1) was reported dry (SMBRP-15B). Therefore, groundwater elevations could not be calculated in these groundwater monitoring wells.

5.1 Shallow Zone

The groundwater elevations for the shallow zone groundwater elevation monitoring locations ranged from 2.34 feet above mean sea level (amsl) at well CCPE to 24.09 feet amsl in SMBRP-8 (ECI-RC-MW01) (Table 1). Groundwater elevations measured in Second Quarter 2019 increased in sixteen (16) wells and decreased in eight (8) wells from April to June 2019.

Groundwater elevations decreased a maximum of 1.19 feet amsl in SMBRP-10C and increased a maximum of 2.79 feet amsl in CCPE from April to June 2019. The predominant direction of groundwater flow was southeast and south-southeast. Elevation data and flow direction are displayed in Figures 3 through 5.

The shallow groundwater gradient was 0.0050 feet/foot, 0.0046 feet/foot, and 0.0046 feet/foot (calculated using groundwater monitoring wells SMBRP-2, SMBRP-9, and SMBRP-12) during the April, May, and June 2019 monitoring events, respectively.

5.2 Deep Zone

The groundwater elevations for the deep zone groundwater elevation monitoring locations ranged from 5.16 feet amsl in MCWP-MW04D to 10.22 feet amsl in MCWP-MW09 (Table 1). Groundwater elevations increased in all deep groundwater monitoring wells from April to June 2019. Depth to water was not measured in MCWP-MW03 and MCWP-MW07D during the April 2019 monitoring event due to technical issues with the electronic water level indicator equipment, but each well increased in elevation between May and June 2019. Groundwater elevations increased a maximum of 0.81 feet amsl in MCWP-MW02 from April to June 2019.

5.3 Winter Canyon

The groundwater elevations for the Winter Canyon groundwater elevation monitoring locations ranged from 10.51 feet amsl in SMBRP-11 to 57.80 feet amsl in LAMW-5S (Table 1). Groundwater elevations increased 0.26 feet amsl in SMBRP-11 and decreased 1.11 feet amsl in LAMW-5S between April and June 2019.

6 Water Quality Sampling Analysis

The surface water and groundwater samples were transported under chain-of-custody documentation to Enthalpy Analytical (Enthalpy), a California-accredited laboratory located in Orange, California. 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 2019 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

6.1.1 Sampling Methodology

A total of ten (10) surface water samples were collected on May 8, 2019. Four ocean water samples were collected from the Near Shore sampling locations (N-001 through N-004) and six (6) surface water samples were collected from the Malibu Lagoon and Creek (L-001 through L-006). 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

Total Coliform

Total coliform concentrations in the Near Shore surface water samples ranged from 100 to 870 Most Probable Number per 100 milliliters (MPN/100 mL) with an average concentration of 597.5 MPN/100 mL. All total coliform concentrations in Malibu Lagoon and Creek surface water samples were reported above the laboratory upper reporting detection limit (RDL) of 2,400 MPN/100 mL apart from L-001 with 2,000 MPN/100 mL.

Fecal Coliform

Fecal coliform was detected in three (3) of the Near Shore surface water samples. Concentrations ranged from 1.0 MPN/100 mL to 6.3 MPN/100 mL with an average of 2.2 MPN/100 mL.[1] Fecal coliform was detected in all Malibu Lagoon and Creek surface water samples. Malibu Lagoon and Creek samples ranged from 29 to 1300 MPN/100 mL with an average of 251 MPN/100 mL.

Nitrogen

Nitrate as Nitrogen

Nitrate as Nitrogen concentrations in Near Shore samples were not detected above the RDL. Nitrate as Nitrogen was detected in all the Malibu Lagoon and Creek surface water samples. Concentrations in the Malibu Lagoon and Creek surface water samples ranged from 0.06 milligrams per liter (mg/L) to 0.36 mg/L with an average of 0.167 mg/L.

Other Forms of Nitrogen

Nitrite as nitrogen concentrations in surface water samples collected at the Near Shore and Malibu Lagoon and Creek sampling locations were below the RDL.

Total organic nitrogen concentrations in surface water samples collected at the Near Shore sampling locations were below the RDL. Total organic nitrogen concentrations were detected in all samples collected at the Malibu Lagoon and Creek sampling locations and ranged from 0.21 to 3.7 mg/L with an average of 0.90 mg/L.

[1] A value half of the RDL was used to calculate the averages for analytical results below the constituent RDL

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 (Figure 6). Ammonia was not detected in any surface water samples.

Total Kjeldahl Nitrogen (TKN) concentrations in surface water samples collected at the Near Shore sampling locations were not detected except for N-001 which had a concentration of 0.054 mg/L. TKN was detected in all Malibu Lagoon and Creek sampling locations and ranged from 0.208 to 3.7 mg/L with an average 0.9 mg/L.

Total Phosphorous

Total phosphorus was detected in all surface water samples. Near Shore samples ranged from 0.06 to 0.198 mg/L with an average of 0.129 mg/L. Total phosphorus in Malibu Lagoon and Creek sampling locations ranged from 0.153 to 0.631 mg/L with an average concentration of 0.3 mg/L.

6.2 Groundwater

6.2.1 Sampling Methodology

On May 8th and 9th, a total of nine (9) groundwater monitoring wells were sampled for the Second Quarter 2019 monitoring event (Task II and IV). Prior to sampling, a minimum of three (3) casing volumes were purged from each well using a submersible pump. Purging stopped when consecutive water quality measurements (temperature, electrical conductivity, and pH) varied by less than 10 percent or until the well purged dry, which ever 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 are included in Appendix A.

6.2.2 Laboratory Analyses

Total Coliform

Total coliform was detected in all groundwater samples. Total coliform concentrations ranged from 11 MPN/100 mL to greater than 2,400 MPN/100 mL with an average of 932 MPN/100 mL[2]. MCWP-MW07D was the only monitoring well that exceeded the upper RDL (see Table 4).

Fecal Coliform

Fecal coliform was detected in seven (7) groundwater samples. Detected fecal coliform concentrations ranged from 2 MPN/100 mL at LAMW-5S to 2,000 MPN/100 mL at SMBRP-12, with an average concentration of 289 MPN/100 mL.

[2] The upper detection limit value (2,400 MPN/100 mL) was used for results that exceeded the upper detection limit to calculate the average total coliform concentration.

Nitrogen

Nitrate as Nitrogen

Nitrate as nitrogen was detected in all nine (9) groundwater samples. Concentrations ranged from 0.10 mg/L at MCWP-MW07D to 12.7 mg/L at SMBRP-9 with an average concentration of 3.85 mg/L.

Other forms of Nitrogen

Nitrite as nitrogen was detected at SMBRP-11 with a concentration of 0.06 mg/L. Organic nitrogen concentrations were detected in all nine (9) of the groundwater samples. Detected concentrations ranged from 0.09 mg/L at SMBRP-9 to 1.2 mg/L at SMBRP-12 with an average concentration of 0.47 mg/L.

Ammonia (as nitrogen) concentrations were detected in five (5) of the groundwater samples analyzed, ranging from 0.052 mg/L at MCWP-MW07S to 10.8 mg/L at SMBRP-12 with an average concentration of 1.33 mg/L.[3]

TKN concentrations were detected in all groundwater samples. Concentrations ranged from 0.086 mg/L at SMBRP-9 to 12 mg/L at SMBRP-12 with an average concentration of 1.8 mg/L.

Total Phosphorous

Total phosphorous was detected in all nine (9) groundwater samples. Concentrations ranged from 0.041 mg/L at MCWP-MW07D to 2.5 mg/L at SMBRP-12 with an average concentration of 0.65 mg/L.

Total Dissolved Solids

Total dissolved solids (TDS) was detected in all groundwater samples. TDS concentrations ranged from 78 mg/L at MCWP-MW07D to 5,150 mg/L at MCWP-MW04S with an average concentration of 1,563 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. Any exceedances are indicated in the Case Narrative of the analytical laboratory report.

[3] A value half of the RDL was used to calculate the averages for analytical results below the constituent RDL

7 Scheduled Activities for the Third Quarter of 2019

The following activities will be completed during the third quarter of 2019:

- Rincon will collect and analyze groundwater and surface water samples for MRP compliance (Task II).
- Rincon will collect and analyze groundwater samples for SNMP compliance (Task III).
- Rincon will collect and analyze groundwater samples for MOU compliance (Task IV).
- Rincon will measure depth to water in the groundwater monitoring wells in July, August, and September 2019 (Task V).

8 Summary of Monitoring Activities

8.1 Groundwater Elevations

Consistent with past observations, shallow groundwater generally flows southeast to south-southeast. Groundwater elevations increased in 16 of the shallow groundwater monitoring wells during the second quarter 2019. Deep groundwater monitoring well elevations increased in all wells except for in MCWP-MW01 between May and June 2019. At Winter Canyon, groundwater in well LAMW-5S decreased and groundwater in SMBRP-11 increased between April and June 2019.

8.2 Surface Water Quality

When comparing coliform bacteria results to the First Quarter 2019 monitoring event, total and fecal coliform concentrations remained consistent for samples collected from all the surface water sampling locations. Low concentrations were reported at the Near Shore monitoring locations with elevated concentrations reported at the Malibu Creek and Lagoon monitoring locations.

All nitrogen species (nitrate, nitrite, organic, and ammonia) were below the RDL at the Near Shore locations, which is consistent with the First Quarter 2019 monitoring event. Total nitrogen and TKN were also only detected in one (1) Near Shore sample, which is also consistent with First Quarter 2019 results. In Malibu Lagoon and Creek, low concentrations of nitrate, organic nitrogen, TKN, and Total Nitrogen were detected at all but one sampling location. Ammonia was not detected at any of the surface water monitoring locations.

8.3 Groundwater Quality

A total of nine (9) groundwater monitoring wells were sampled during the second quarter 2019 as part of the WDR/MRP monitoring program. Total coliform concentrations in groundwater monitoring well samples exceeded the upper RDL of 2,400 MPN/100 mL at one (1) groundwater

monitoring location compared to four (4) in first quarter 2019 monitoring samples. For wells sampled during the second quarter 2019, total coliform concentration decreased at one (1), increased at six (6), and remained the same at two (2) groundwater wells.

Seven (7) groundwater samples had detectable concentrations of fecal coliform. Fecal coliform concentration increased at six (6) locations, decreased at one (1) location, and stayed the same at two (2) locations when compared to the first quarter 2019.

Nitrate as nitrogen concentrations were detected in groundwater samples collected from all monitoring well locations. Second Quarter 2019 nitrate concentrations decreased in seven (7) and increased in two (2) locations compared to first quarter 2019. However, the average nitrate concentration increased from 2.95 to 3.85 mg/L when comparing first and second quarter 2019.

Average TDS concentrations in groundwater samples decreased from 1,847 mg/L in first quarter 2019 to 1,563 mg/L second quarter 2019.

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.

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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	4/24/2019	11.47	7.59	3.88
C-1	5/7/2019	11.47	6.73	4.74
C-1	6/7/2019	11.47	6.40	5.07
C-2	4/24/2019	11.19	7.25	3.94
C-2	5/7/2019	11.19	6.49	4.70
C-2	6/7/2019	11.19	6.30	4.89
CCPE	4/24/2019	12.94	10.60	2.34
CCPE	5/7/2019	12.94	9.66	3.28
CCPE	6/7/2019	12.94	7.81	5.13
CCPNE	4/24/2019	13.68	9.32	4.36
CCPNE	5/7/2019	13.68	8.78	4.90
CCPNE	6/7/2019	13.68	8.20	5.48
CCPSW	4/24/2019	13.67	8.75	4.92
CCPSW	5/7/2019	13.67	8.25	5.42
CCPSW	6/7/2019	13.67	7.82	5.85
CCW-4	4/24/2019	15.77	4.30	11.47
CCW-4	5/7/2019	15.77	4.62	11.15
CCW-4	6/7/2019	15.77	4.71	11.06
GH6-M1	4/24/2019	-	26.40	-
GH6-M1	5/7/2019	-	25.94	-
GH6-M1	6/7/2019	-	25.50	-
GH8-M3	4/24/2019	-	24.23	-
GH8-M3	5/7/2019	-	23.95	-
GH8-M3	6/7/2019	-	24.02	-
GH9-M4	4/24/2019	-	Buried	-
GH9-M4	5/7/2019	-	Buried	-
GH9-M4	6/7/2019	-	Buried	-
M6-1	4/24/2019	-	6.29	-
M6-1	5/7/2019	-	6.29	-
M6-1	6/7/2019	-	6.18	-
M6-2	4/24/2019	-	4.51	-
M6-2	5/7/2019	-	4.55	-
M6-2	6/7/2019	-	4.48	-
M7-1	4/24/2019	-	7.00	-
M7-1	5/7/2019	-	6.78	-
M7-1	6/7/2019	-	6.94	-
M7-2	4/24/2019	-	6.05	-
M7-2	5/7/2019	-	5.97	-
M7-2	6/7/2019	-	5.92	-
MBCMW-7	4/24/2019	16.64	11.90	4.74
MBCMW-7	5/7/2019	16.64	11.70	4.94
MBCMW-7	6/7/2019	16.64	11.62	5.02
MBCMW-8	4/24/2019	16.53	6.68	9.85
MBCMW-8	5/7/2019	16.53	7.08	9.45
MBCMW-8	6/7/2019	16.53	7.08	9.45
MBCMW-9	4/24/2019	17.71	6.53	11.18
MBCMW-9	5/7/2019	17.71	6.77	10.94
MBCMW-9	6/7/2019	17.71	6.87	10.84
MBCMW-10	4/24/2019	17.74	9.34	8.40
MBCMW-10	5/7/2019	17.74	8.99	8.75
MBCMW-10	6/7/2019	17.74	8.98	8.76

Table 1
Groundwater Elevations

Shallow Groundwater Monitoring Wells				
Well ID	**Date**	**TOC Elevation** (ft)	**Depth to Water** (ft bTOC)	**Groundwater Elevation**
MCWP-MW04S	4/24/2019	15.29	5.30	9.99
MCWP-MW04S	5/7/2019	15.29	5.66	9.63
MCWP-MW04S	6/7/2019	15.29	5.60	9.69
MCWP-MW07S	4/24/2019	13.72	4.80	8.92
MCWP-MW07S	5/7/2019	13.72	4.80	8.92
MCWP-MW07S	6/7/2019	13.72	4.58	9.14
MCWP-MW08	4/24/2019	12.21	N/A	-
MCWP-MW08	5/7/2019	12.21	8.40	3.81
MCWP-MW08	6/7/2019	12.21	8.18	4.03
MCWP-MW10	4/24/2019	11.11	8.75	2.36
MCWP-MW10	5/7/2019	11.11	8.20	2.91
MCWP-MW10	6/7/2019	11.11	7.60	3.51
P-4	4/24/2019	12.16	7.61	4.55
P-4	5/7/2019	12.16	7.06	5.10
P-4	6/7/2019	12.16	6.50	5.66
P-9	4/24/2019	12.17	8.38	3.79
P-9	5/7/2019	12.17	7.65	4.52
P-9	6/7/2019	12.17	7.08	5.09
SMBRP-2	4/24/2019	13.13	9.28	3.85
SMBRP-2	5/7/2019	13.13	8.60	4.53
SMBRP-2	6/7/2019	13.13	8.10	5.03
SMBRP-6	4/24/2019	26.88	15.05	11.83
SMBRP-6	5/7/2019	26.88	15.05	11.83
SMBRP-6	6/7/2019	26.88	15.12	11.76
SMBRP-7B	4/24/2019	18.99	9.82	9.17
SMBRP-7B	5/7/2019	18.99	10.06	8.93
SMBRP-7B	6/7/2019	18.99	10.08	8.91
SMBRP-8 (ECI-RC-MW01)	4/24/2019	48.69	25.34	23.35
SMBRP-8 (ECI-RC-MW01)	5/7/2019	48.69	25.05	23.64
SMBRP-8 (ECI-RC-MW01)	6/7/2019	48.69	24.60	24.09
SMBRP-9	4/24/2019	50.32	36.22	14.10
SMBRP-9	5/7/2019	50.32	35.86	14.46
SMBRP-9	6/7/2019	50.32	35.35	14.97
SMBRP-10C	4/24/2019	16.25	3.56	12.69
SMBRP-10C	5/7/2019	16.25	10.06	6.19
SMBRP-10C	6/7/2019	16.25	4.75	11.50
SMBRP-12	4/24/2019	12.62	8.63	3.99
SMBRP-12	5/7/2019	12.62	7.63	4.99
SMBRP-12	6/7/2019	12.62	6.96	5.66
SMBRP-13	4/24/2019	13.58	9.00	4.58
SMBRP-13	5/7/2019	13.58	9.70	3.88
SMBRP-13	6/7/2019	13.58	8.08	5.50
SMBRP-15B	4/24/2019	16.77	dry	-
SMBRP-15B	5/7/2019	16.77	dry	-
SMBRP-15B	6/7/2019	16.77	dry	-
SMBRP-16	4/24/2019	14.50	2.60	11.90
SMBRP-16	5/7/2019	14.50	3.04	11.46
SMBRP-16	6/7/2019	14.50	3.11	11.39

Table 1
Groundwater Elevations

Deep Groundwater Monitoring Wells				
Well ID	**Date**	**TOC Elevation** (ft)	**Depth to Water** (ft bTOC)	**Groundwater Elevation**
MCWP-MW01	4/24/2019	17.90	11.02	6.88
MCWP-MW01	5/7/2019	17.90	10.61	7.29
MCWP-MW01	6/7/2019	17.90	10.67	7.23
MCWP-MW02	4/24/2019	18.06	12.6	5.46
MCWP-MW02	5/7/2019	18.06	12.1	5.96
MCWP-MW02	6/7/2019	18.06	11.79	6.27
MCWP-MW03	4/24/2019	15.31	N/A	-
MCWP-MW03	5/7/2019	15.31	7.82	7.49
MCWP-MW03	6/7/2019	15.31	7.7	7.61
MCWP-MW04D	4/24/2019	15.43	10.27	5.16
MCWP-MW04D	5/7/2019	15.43	9.79	5.64
MCWP-MW04D	6/7/2019	15.43	9.78	5.65
MCWP-MW05	4/24/2019	13.92	8.34	5.58
MCWP-MW05	5/7/2019	13.92	8.02	5.9
MCWP-MW05	6/7/2019	13.92	7.95	5.97
MCWP-MW06	4/24/2019	16.05	10.46	5.59
MCWP-MW06	5/7/2019	16.05	10.28	5.77
MCWP-MW06	6/7/2019	16.05	10	6.05
MCWP-MW07D	4/24/2019	13.21	N/A	-
MCWP-MW07D	5/7/2019	13.21	7.67	5.54
MCWP-MW07D	6/7/2019	13.21	7.62	5.59
MCWP-MW09	4/24/2019	16.30	6.55	9.75
MCWP-MW09	5/7/2019	16.30	6.25	10.05
MCWP-MW09	6/7/2019	16.30	6.08	10.22

TOC: top of well casing
ft bTOC: feet below top of well casing

Table 1
Groundwater Elevations

Winter Canyon Groundwater Monitoring Wells				
Well ID	**Date**	**TOC Elevation** (ft)	**Depth to Water** (ft bTOC)	**Groundwater Elevation**
LAMW-5S	4/24/2019	104.55	46.75	57.80
LAMW-5S	5/7/2019	104.55	47.09	57.46
LAMW-5S	6/7/2019	104.55	47.86	56.69
SMBRP-11	4/24/2019	18.35	7.84	10.51
SMBRP-11	5/7/2019	18.35	7.84	10.51
SMBRP-11	6/7/2019	18.35	7.58	10.77

ft bTOC: feet below top of well casing
TOC elevation referenced to NAVD88

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	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Constituents listed in Attachments A1 to A5 of MRP CI 10042 (Long-Term sampled annually)																
Metals (aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, mercury, nickel, selenium, thallium)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Asbestos	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Cyanide	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Perchlorate	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Fluoride	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Combined Radium-226 and Radium-228	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Gross Alpha and Beta Particle Activity	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Tritium	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Strontium-90	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Uranium	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Volatile Organic Compounds (EPA Method 524.2)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB) (EPA Method 504.1)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-

Table 2
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*
Constituents listed in Attachments A1 to A5 of MRP CI 10042 (Long-Term sampled annually)																
Chlordane, Endrin, Heptachlor, Heptachlor Epoxide, Hexachlorobenzene, Hexachlorocyclopentadiene, Lindane, Methoxychlor, Polychlorinated Biphenyls, Toxaphene (EPA Method 505)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Alachlor, Atrazine, Simazine (EPA Method 507)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Bentazon, 2,4-D, Dalapon, Dinoseb, Pentachlorophenol, Picloram, 2,4,5-TP (Silvex) (EPA Method 515.3)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Benzo(a)pyrene, Di(2-ethylhexyl)adipate, Di(2-ethylhexyl)phthalate, Molinate, Thiobencarb (EPA Method 525.2)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Carbofuran, Oxamyl (EPA Method 531.1)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Glyphosate (EPA Method 547)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Endothall (EPA Method 548.1)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Diquat (EPA Method 549.2)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
2,3,7,8-TCDD (Dioxin) (EPA Method 1613)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Trihalomethanes	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Haloacetic Acids	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Bromate	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Chlorite	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Metals (aluminum, copper, iron, manganese, silver, zinc) *(included in metals above)*	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Color and Odor *(included in turbidity above)*	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Foam agents (MBAS) *(included above)*	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Methyl-tert-butyl ether (MTBE) (included in VOCs above)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Thiobencarb *(included in EPA Method 525.2 above)*	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Constituents of Emerging Concern in Attachment C of MRP CI 10042 (Long-Term sampled annually)																
17β-Estradiol	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Caffeine	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
n-Nitrosodimethylamine (NDMA)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Triclosan	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
n,n-Diethyl-meta-toluamide (DEET)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Sucralose	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-

Table 2
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*
Priority Pollutants listed in Attachment D of MRP CI 10042 (Long-Term sampled annually)																
Metals (antimony, arsenic, barium, beryllium, cadmium, chromium (III), copper, lead, mercury, nickel, selenium, silver, thallium, zinc) *(included above)*	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Chromium VI	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Cyanide *(included above)*	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Asbestos *(included above)*	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
2,3,7,8-TCDD *(included above)*	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Volatile Organic Compounds (EPA Method 624)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Semivolatile Organic Compounds (EPA Method 625)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Pesticides (EPA Method 625)	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-
Polychlorinated Biphenyls *(included above)*	✓	-	✓	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	-	-

Surface Water	Long-Term 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/100mL)		Inorganic Analysis (mg/L)						
				Total	Fecal	Nitrate Nitrogen	Nitrite Nitrogen	Total Organic Nitrogen	Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Nitrogen	Total Phosphorous
Near Shore	Ankle Depth	N-001	5/8/2019	**100**	**1.0**	< 0.6	< 0.9	< 0.04	< 0.01	**0.054**	1.6	**0.198**
Near Shore	Ankle Depth	N-002	5/8/2019	**650**	**6.3**	< 0.6	< 0.9	< 0.04	< 0.01	< 0.052	1.6	**0.105**
Near Shore	Ankle Depth	N-003	5/8/2019	**770**	**1**	< 0.6	< 0.9	< 0.04	< 0.01	< 0.052	1.6	0.06
Near Shore	Ankle Depth	N-004	5/8/2019	**870**	< 1	< 0.6	< 0.9	< 0.04	< 0.01	< 0.052	1.6	0.152
Malibu Lagoon and Creek	1 foot BSW	L-001	5/8/2019	**2,000**	**30**	**0.16**	< 0.018	**0.3**	< 0.01	**0.295**	0.5	**0.253**
Malibu Lagoon and Creek	1 foot BSW	L-002	5/8/2019	> **2,400**	**29**	**0.36**	< 0.18	**0.27**	< 0.01	**0.266**	0.8	**0.255**
Malibu Lagoon and Creek	1 foot BSW	L-003	5/8/2019	> **2,400**	**30**	**0.15**	< 0.18	**0.55**	< 0.01	**0.548**	0.9	**0.245**
Malibu Lagoon and Creek	1 foot BSW	L-004	5/8/2019	> **2,400**	**61**	**0.06**	< 0.36	**0.37**	< 0.01	**0.37**	0.8	**0.153**
Malibu Lagoon and Creek	1 foot BSW	L-005	5/8/2019	> **2,400**	**56**	**0.2**	< 0.18	**0.21**	< 0.01	**0.208**	0.6	**0.242**
Malibu Lagoon and Creek	1 foot BSW	L-006	5/8/2019	> **2,400**	**1300**	**0.07**	< 0.36	**3.7**	< 0.01	**3.7**	4.1	**0.631**

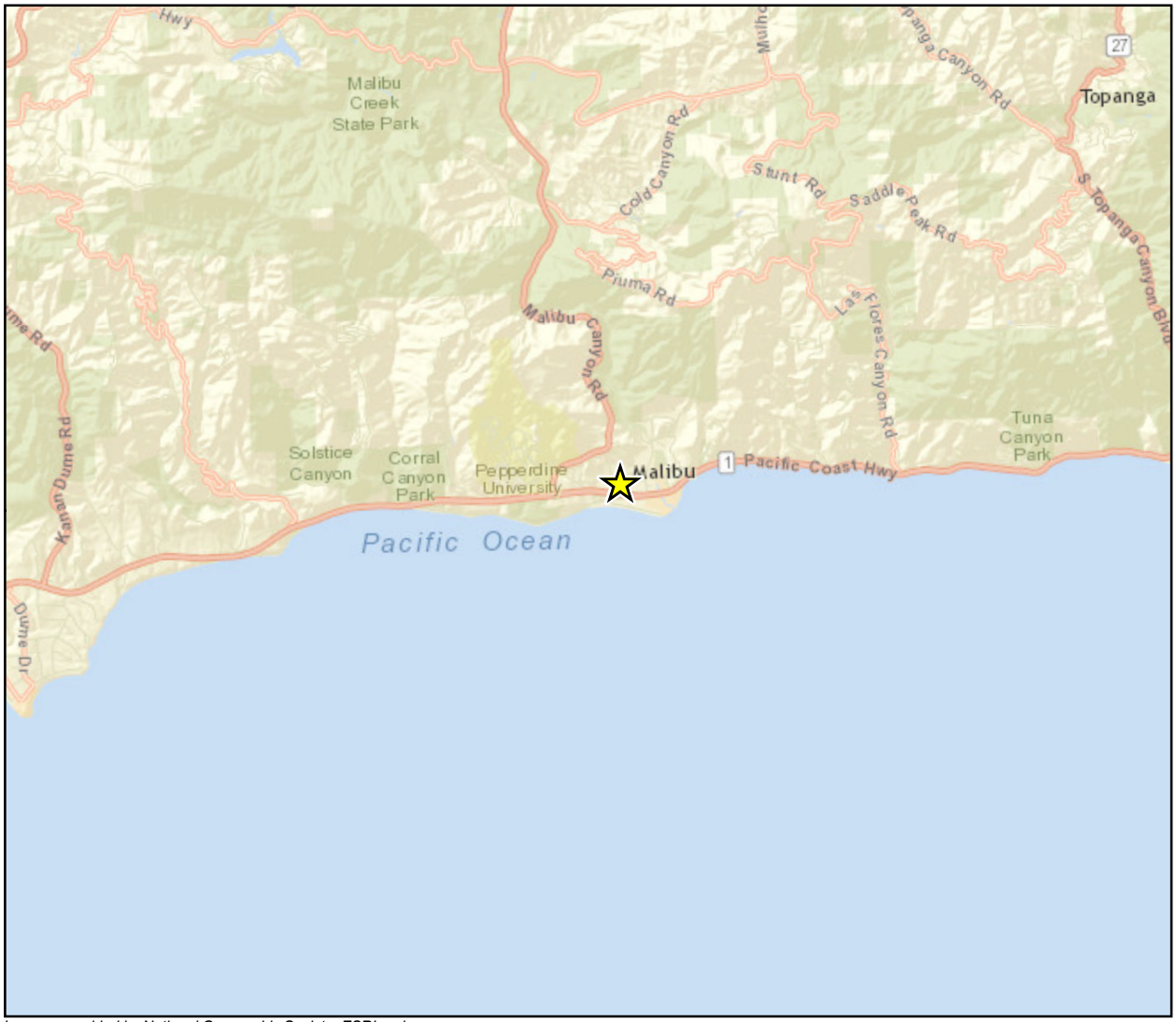
Notes:
bold: Constituent detected above Reporting Detection Limit (RDL)
mg/L: milligrams per liter
MPN/100mL: Most Probable Number per 100 milliliters
NR : Not reported due to poor quality of culture membrane during laboratory analysis
<: Constituent not detected above the RDL
>: Constituent detected above the laboratory upper detection limit

Table 4
Groundwater Analytical Results

			Coliform Bacteria (MPN/100mL)		**Inorganic Analysis** (mg/L)											
Well ID	**Well Depth (bgs)**	**Sample Date**	Total	Fecal	Nitrate Nitrogen	Nitrite Nitrogen	Nitrate + Nitrite as N	Organic Nitrogen	Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Nitrogen	Phosphorous, Total	Boron	Sulfate	Total Dissolved Solids	Chloride
LAMW-5S	73 feet	5/8/19	**11**	**2**	**6.19**	< 0.018	**6.19**	**0.22**	< 0.01	**0.215**	**6.4**	**1.8**	**0.282**	**95.2**	**570**	**105**
SMBRP-9	45 feet	5/8/19	**1700**	**20**	**12.7**	< 0.018	**12.7**	**0.09**	< 0.01	**0.086**	**12.8**	**0.052**	**0.582**	**370**	**1,770**	**250**
SMBRP-11	20 feet	5/8/19	**580**	**260**	**6.54**	**0.06**	**6.6**	**0.66**	**0.324**	**0.98**	**7.58**	**0.46**	**0.506**	**261**	**1,400**	**264**
SMBRP-12	25 feet	5/8/19	**2400**	**2000**	**0.11**	< 0.018	**0.11**	**1.2**	**10.8**	**12**	**12.1**	**2.5**	**0.581**	**394**	**1,200**	**364**
MCWP-MW04S	20 feet	5/8/19	**260**	< 1	**2.95**	< 0.018	**2.95**	**0.23**	**0.31**	**0.541**	**3.49**	**0.36**	**1.48**	**2,360**	**5,150**	**719**
MCWP-MW04D	148 feet	5/9/19	130	< 1	**1.46**	< 0.018	**1.46**	**0.1**	< 0.01	**0.10**	**1.56**	**0.177**	**0.6**	**458**	**1,270**	**176**
MCWP-MW07S	20 feet	5/8/19	**550**	**280**	**4.25**	< 0.018	**4.25**	**0.58**	**0.052**	**0.631**	**4.88**	**0.391**	**0.382**	**246**	**1,150**	**204**
MCWP-MW07D	130 feet	5/8/19	> **2,400**	**32**	**0.1**	< 0.018	**0.1**	**0.61**	< 0.01	**0.606**	**0.71**	**0.041**	**0.062**	**21.4**	**78**	**6.33**
MCWP-MW09	95 feet	5/8/19	**360**	**4.1**	**0.34**	< 0.018	**0.34**	**0.57**	**0.43**	**1**	**1.34**	**0.046**	**0.375**	**451**	**1,480**	**399**

Notes:
bgs: Below ground surface
bold: Constituent detected above Reporting Detection Limit (RDL)
mg/L: Milligrams per liter
MPN/100mL: Most Probable Number per 100 milliliter
<: Constituent not detected above the RDL
>: Constituent detected above the laboratory upper detection limit

Figures



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Project Location

N

0 1 2

Miles

Vicinity Map

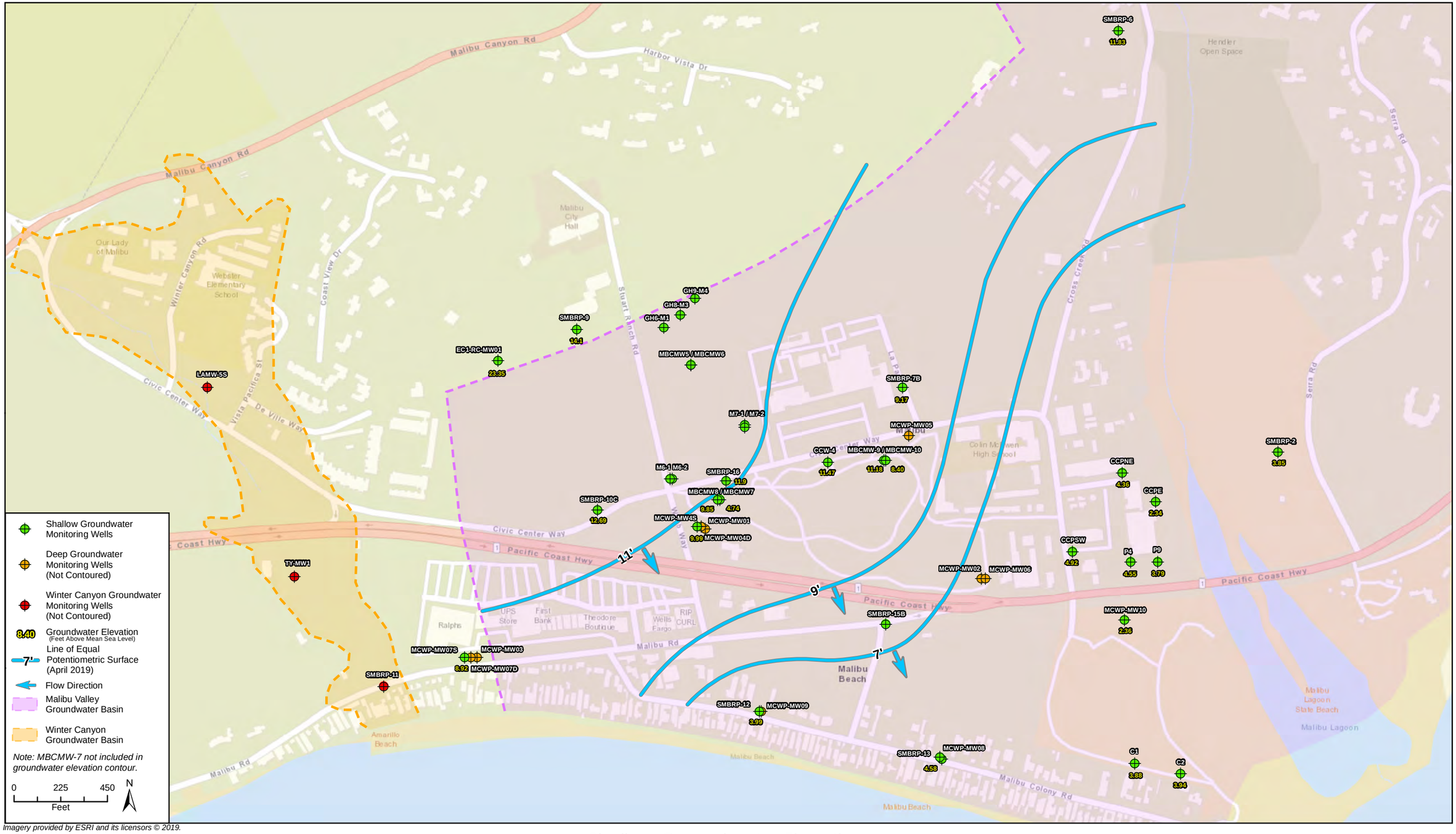
Figure 1



Imagery provided by Google and its licensors © 2018.

Site Map - Civic Center Area

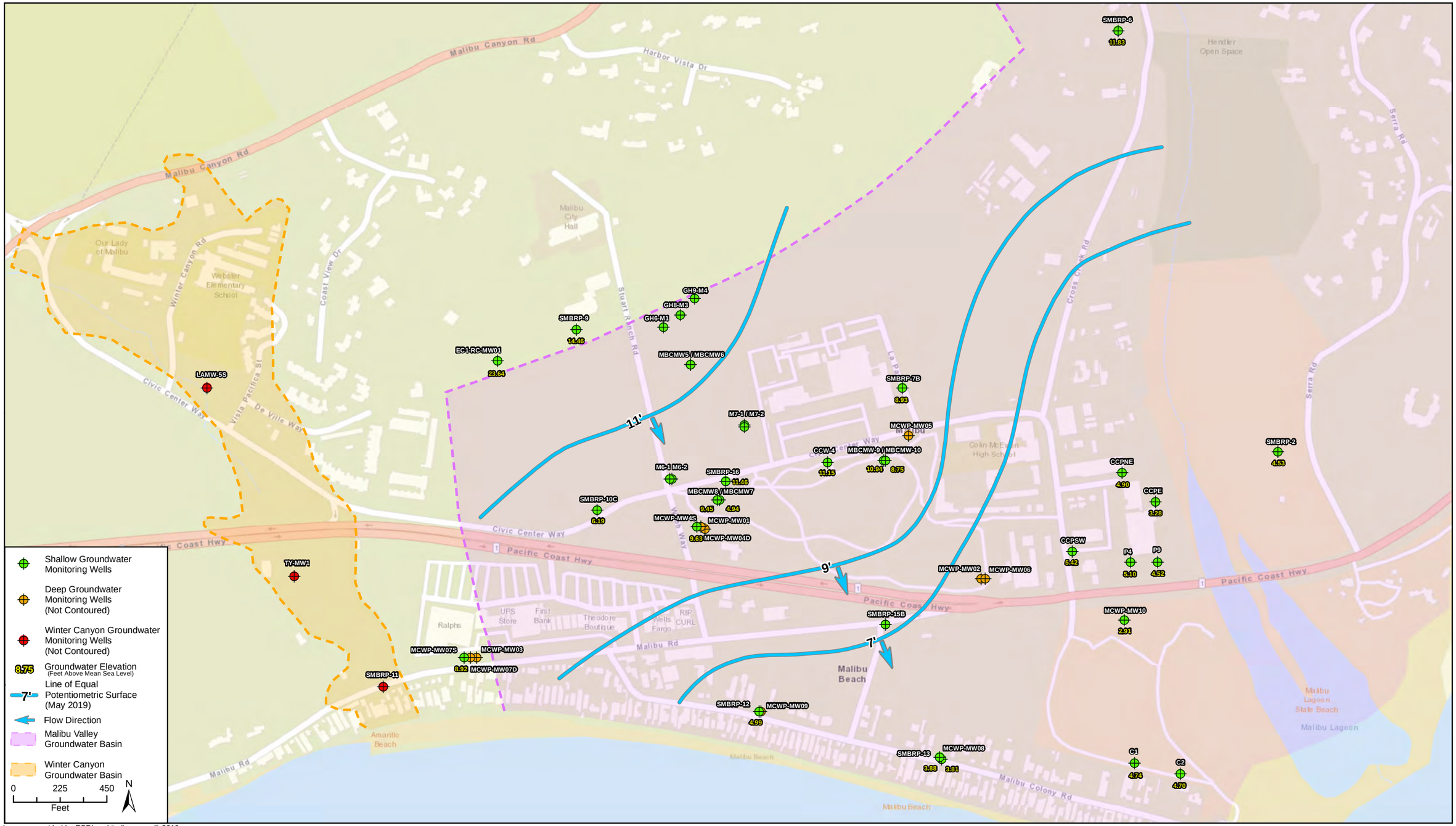
Figure 2



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Shallow Groundwater Elevation
April 2019

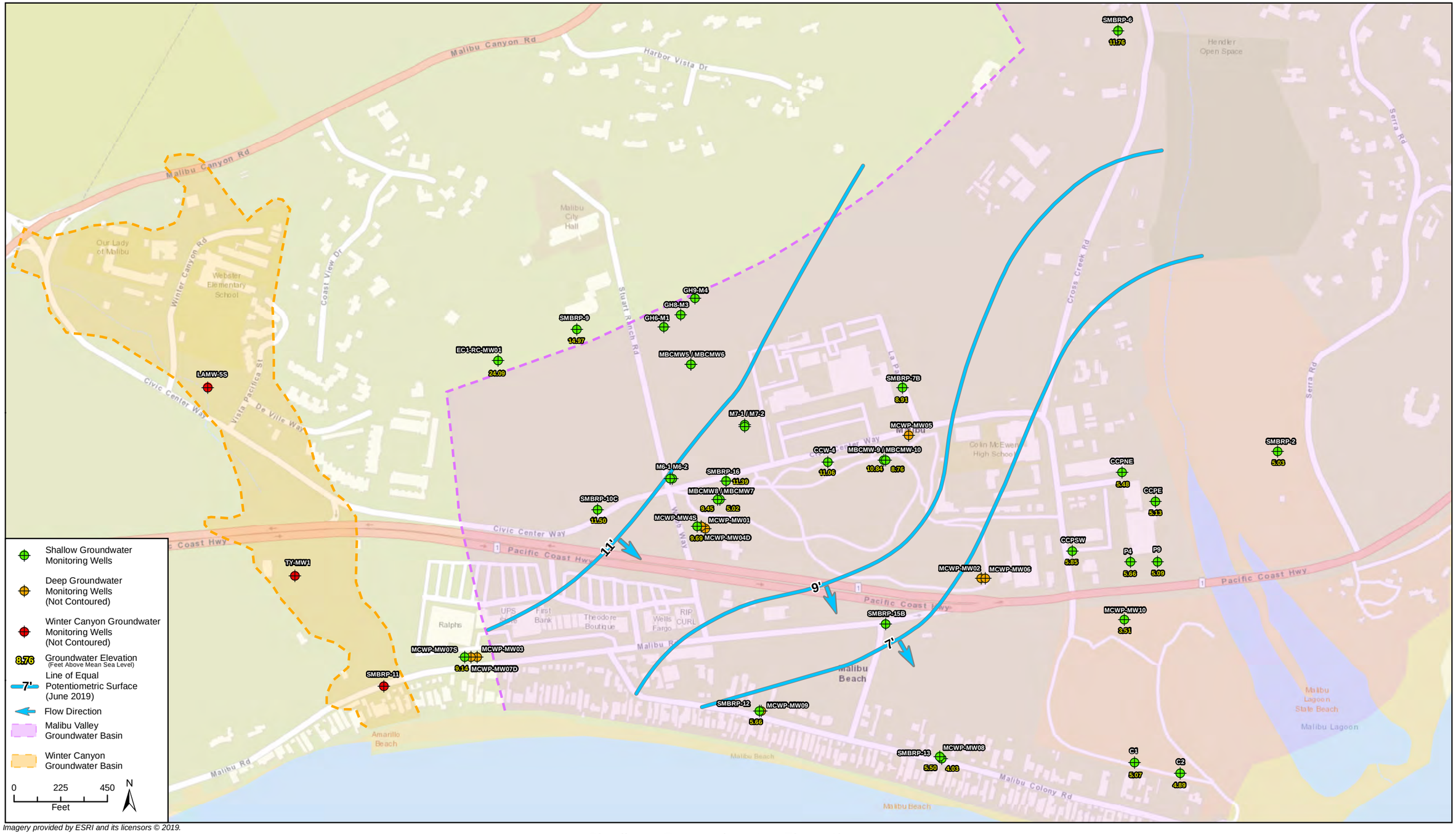
Figure 3



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Shallow Groundwater Elevation
May 2019

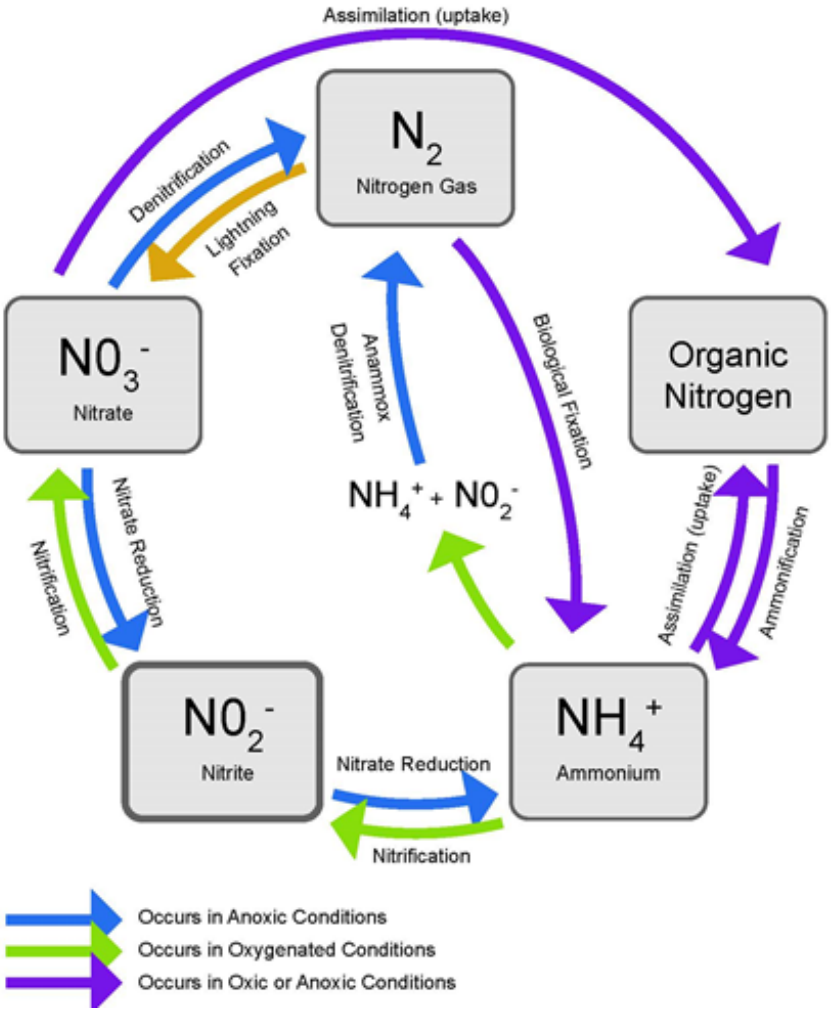
Figure 4



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Shallow Groundwater Elevation
June 2019

Figure 5



The Nitrogen Cycle Figure 6

Appendix A

Groundwater and Surface Water Field Sheets

Malibu

Monthly Gauging Sheet

Date: 4/24/19

Well ID	Total Well Depth (ft bTOC)	Well Diameter (in)	Time 4/24/19 ~~4/25/19~~	Depth to Water	Well Head Deficiencies Comments
C-1	14.5	n/a	1425	7.59	
C-2	14.5	2	1430	7.25	
CCPE	52	2	1337	10.60	
CCPNE		2	1333	9.32	
CCPSW		2	1345	8.75	
CCW-4		1	1144	4.30	
GH6-M1	35	2	1042	26.40	
GH8-M3	40	2	1045	24.23	
GH9-M4	45	2	—	—	Buried
Lagoon	n/a	n/a	—	—	Could not locate
LAMW-5S	74	4	1113	46.75	
M6-1	45	2	1056	6.29	
M6-2	20	2	1058	4.51	
M7-1	40	2	1050	7.00	
M7-2	25	2	1048	6.05	
MBCMW-5	19.4	n/a	—	—	Buried
MBCMW-6	64.26	n/a	—	—	
MBCMW-7	52.5	2	1124	11.90	
MBCMW-8	10	2	1125	6.68	
MBCMW-9	9	2	1152	6.53	
MBCMW-10	53	2	1153	9.34	
MCWP-MW01	148	6	1131	11.02	
MCWP-MW02	145	6	1456	12.60	
MCWP-MW03	134	6	1506	43.4	
MCWP-MW04D	145	4	1134	10.27	
MCWP-MW04S	20	4	1137	5.30	
MCWP-MW05	150	4	1149	8.34	
MCWP-MW06	137	2	1454	10.46	
MCWP-MW07D	134	2	1508	52.70	
MCWP-MW07S	20	2	1510	4.80	
MCWP-MW08	77	2	1533	41.98	
MCWP-MW09	89	2	1525	6.55	
MCWP-MW10	22	2	1418	8.75	
P-4	12.5	4	1322	7.61	
P-9	14.3	4	1545	8.38	
SMBRP-2	25	2	1238	9.28	
SMBRP-6	25	2	1209	15.05	
SMBRP-7b	25	2	1200	9.82	
SMBRP-8 (EG-RC MW01)	60	4	1032	25.34	
SMBRP-9	45	2	1025	36.22	
SMBRP-10C	25	2	1108	3.56	
SMBRP-11	20	2	1515	7.84	
SMBRP-12	25	2	1523	8.63	
SMBRP-13	20	2	1530	9.00	
SMBRP-15b	25	1	—	—	Dry
SMBRP-16	25	2	1120	2.60	

Malibu Civic Center Quartly Surface Water Sampling
Field Data Sheet

Date: 5/8/19 Sampled By: CY JM

Jan-Mar (Apr-Jun) July-Sep Oct-Dec (Circle appropriate)

Estuary (Circle appropriate)
Berm: (open) / closed

General Weather Conditions: cloudy, overcast, humid

General Wind Conditions: light wind on beach < 3 kts

Daily Tides: **Low** Time: 17:45 Feet: 2.5 **High** Time: 13:35 Feet: 3.2

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	1100	rough	clear	clear	none	none	none	Y
N-002	1115	↓	↓	↓	↓	↓	↓	↓
N-003	1136	↓	↓	↓	↓	↓	↓	↓
N-004	10:20	↓	↓	↓	↓	↓	↓	↓
L-001	1200	N/A	cloudy	clear	none	↓	ducks	↓
L-002	1235	N/A	↓	red/ brown	none	↓	none	↓
L-003	1210	N/A	↓	↓	rotten eggs	↓	~~ferns~~, gulls, pelican	↓
L-004	1145	N/A	↓	↓	rotten eggs	↓	ferns, gulls, pelican	↓
L-005	1220	N/A	↓	↓	none	↓	~~ferns~~ gulls pelicans	↓
L-006	1140	N/A	↓	↓	rotten eggs	↓	fern	↓

Malibu

Monthly Gauging Sheet

Well ID	Total Well Depth (ft bTOC)	Well Diameter (in)	Time 5/7 /19	Depth to Water	Well Head Deficiencies Comments
C-1	14.5	n/a	1040	6.73	*
C-2	14.5	2	1045	6.49	*
CCPE	52	2	1005	9.66	*
CCPNE		2	1010	8.78	*
CCPSW		2	1015	8.25	*
CCW-4		1	1037	4.62	2/2 TAB/Bolts
GH6-M1	35	2	0956	25.94	2/2 TABS/Bolts missing
GH8-M3	40	2	0951	23.95	2/2 TABS/Bolts missing
GH9-M4	45	2	—	—	Buried
Lagoon	n/a	n/a	—	—	Not measured
LAMW-5S	74	4	1125	47.09	TD= 74.18 1/2 TAB RT/Bolts.
M6-1	45	2	0930	6.29	2/2 TABS RT / 2/2 3 Plugs
M6-2	20	2	0932	4.55	
M7-1	40	2	0939	6.76	2/2 3 plugs / SEAL.
M7-2	25	2	0940	5.97	
MBCMW-5	19.4	2 n/a	0944	16.55	2/2 Bolts missing (1/2)
MBCMW-6	64.26	n/a	—	—	N/A
MBCMW-7	52.5	2	1025	11.70	3/3 TABS/Bolts missing (1/2)
MBCMW-8	10	2	1022	7.09	(FLUSH CAPS)
MBCMW-9	9	2	1044	6.77	
MBCMW-10	53	2	1045	8.99	
MCWP-MW01	148	6	1015	10.61	
MCWP-MW02	145	6	1055	12.10	*
MCWP-MW03	134	6	1115	7.82	*
MCWP-MW04D	145	4	1012	9.79	TD= 145.33 1/2 Bolts missing / SEAL
MCWP-MW04S	20	4	1010	5.66	TD= 20.39
MCWP-MW05	150	4	1040	8.07	2/2 TABS missing
MCWP-MW06	137	2	1100	10.28	*
MCWP-MW07D	134	2	1120	7.67	TD= 129.4 *
MCWP-MW07S	20	2	1125	4.80	TD= 17.0 *
MCWP-MW08	77	2	1155	8.40	*
MCWP-MW09	89	2	1150	6.25	TD= 90.0
MCWP-MW10	22	2	1215	8.20	*
P-4	12.5	4	950	7.06	*
P-9	14.3	4	955	7.65	*
SMBRP-2	25	2	935	8.60	*
SMBRP-6	25	2	925	15.05	*
SMBRP-7b	25	2	1052	10.06	SEAL
SMBRP-8 (EG-RC MW01)	60	4	920	25.05	2/2 TB-RT/Bolts/SEAL
SMBRP-9	45	2	915	35.86	TD=44.96 2/2 TAB RT/Bolts /5 Plug/SEAL
SMBRP-10C	25	2	1105	10.06	CRACKED APRON REPAR 2/2, 3 bolts.
SMBRP-11	20	2	1135	7.84	TD= 20.0 *
SMBRP-12	25	2	1145	7.63	TD= 24.8 *
SMBRP-13	20	2	1200	9.70	*
SMBRP-15b	25	1	1205	8.20	*
SMBRP-16	25	2	1020	3.04	2/2 TABS/Bolts /SEAL

* SEE PAGE 2 for WELL HEAD DEFICIENCIES.

Malibu

Monthly Gauging Sheet

Well ID	Total Well Depth (ft bTOC)	Well Diameter (in)	Time 5/7/19	Depth to Water	Well Head Deficiencies Comments
C-1	14.5	n/a	~~1035~~ 1040	6.73	3/3 tabs rethread, no seal, 3/3 no bolts
C-2	14.5	2	1045	6.49	3/3 " " , " " " " "
CCPE	52	2	1005	9.66	1/2 tabs broken, no seal, rethread 1/2 tabs, well cap doesn't fit (locked)
CCPNE		2	1010	8.78	Rethread 2/2 tabs, no seal, no bolts
CCPSW		2	1015	8.25	2/2 tabs broken, no seal, " "
CCW-4		1			
GH6-M1	35	2			
GH8-M3	40	2			
GH9-M4	45	2			
Lagoon	n/a	n/a			
LAMW-5S	74	4			TD=
M6-1	45	2			
M6-2	20	2			
M7-1	40	2			
M7-2	25	2			
MBCMW-5	19.4	n/a			
MBCMW-6	64.26	n/a			
MBCMW-7	52.5	2			
MBCMW-8	10	2			
MBCMW-9	9	2			
MBCMW-10	53	2			
MCWP-MW01	148	6			
MCWP-MW02	145	6	1055	12.10	Rethread tabs 2/2, no seal, no bolts 2/2 (smaller bolts)
MCWP-MW03	134	6	1115	7.82	Rethred " " , " " " " " ", well cap 12"
MCWP-MW04D	145	4			TD=
MCWP-MW04S	20	4			TD=
MCWP-MW05	150	4			
MCWP-MW06	137	2	1100	10.28	Missing 1/2 bolts, rethread 2/2 tabs, no seal 7.5" diameter well cap
MCWP-MW07D (No tabs 2/2)	134	2	1120	7.67	TD= ~~129.4~~ 129.4 *2 No bolts 2/2, No seal 2/2, well cap d = 7.5"
MCWP-MW07S	20	2	1125	4.80	TD= 17.0 *2 Missing tabs 2/2, No bolts 2/2, " " = "
MCWP-MW08	77	2	1155	8.40	1/2 tabs missing, rethread 1/2 tabs, 7.5"
MCWP-MW09	89	2	1150	6.25	TD= 90 Missing 1/2 tabs + bolts, broken seal, 7.5"
MCWP-MW10	22	2	1215	8.20	1/2 tabs broken, rethread 1/2 tabs
P-4	12.5	4	950	7.06	Rethread tabs 2/2 (rusted), no seal, no bolts
P-9	14.3	4	955	7.65	" " " " " " " "
SMBRP-2	25	2	935	8.60	Rethread tabs 2/2, Rusted ~~cap~~ well cap, No seal
SMBRP-6	25	2	925	15.05	Rethread tabs 2/2, Missing 1/2 bolts, No seal
SMBRP-7b	25	2			
SMBRP-8 (EG-RC MW01)	60	4			
SMBRP-9	45	2			TD=
SMBRP-10C	25	2			
SMBRP-11	20	2	~~1135~~	7.84	TD= 20.0, Broken seal, missing bolt 2/2, Rusted cap. rethread tabs 2/2
SMBRP-12	25	2	1145	7.63	TD= 24.6, Rethread tabs 2/2, no seal, 12"
SMBRP-13	20	2	~~1200~~	9.70	Rethread 2/2 tabs, no seal 12"
SMBRP-15b	25	1	1205	8.2	TD = 8.2, 2/2 bolts missing + threads, 7.5" @ TD moisture
SMBRP-16	25	2			

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 15-01587	Date: 5.7.19
Project/Location Malibu, CA Civic Center Area	Well Number: LAMW-SS
Observation Period Start: 1125 Stop: 1225	Survey Reference Point: TOC
Sampled By: Peter Doran / Nico Navarro	Witnessed By: —

PURGING DATA

Type of Pump	GRUNDFOS	Pump Inlet Depth (ft)	73.5
Well Diameter (in)	4	Depth of Well (ft)	74.18
Initial/Static Depth to Water (ft)	47.09	Length of Water Column (ft)	27.09
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.65
One Casing Volume (gal)	17.6	Three Casing Volumes (gal)	52.8
Purge Time, Start	1150	Purge Time, Stop	1215
Total Purge Time (minutes)	25	Purge Rate (gpm)	~~0.4~~ 1.0
Purge Volume (gal)	25	Depth to Water (ft) at Sampling	47.15

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	9	18	20	25			At Sampling
Temperature (C)	23.3	23.4	23.4	23.5	23.4			20.0
pH	7.26	7.21	7.21	7.18	7.22			7.61
Conductivity (µS) mS	1.30	1.28	1.26	1.25	1.22			0.99
Dissolved Oxygen (mg/L)								4.21
Dissolved Oxygen (%)								3.36
TDS (ppm) ppt	0.64	0.64	0.63	0.63	0.61			0.50
Turbidity (NTU)	416	376	122	144	156			82

Depth to Water at End of Purge (ft): 73.90 Drawdown (ft): 26.81

Comments:

MISCELLANEOUS DATA

Condition of Traffic Box: SEE GAUGING SHEET

Drum Identification labeling: Non-Hazardous Waste

Water Level Indicator: Solinst Model 101

Weather Conditions: OVERCAST

Comments: Sampled Time: 1015 5.8.19

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

47.09 + 0.2 * 26.81 = 52.45

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 15-01587	Date: 5-7-19
Project/Location Malibu, CA Civic Center Area	Well Number: SMBRP-9
Observation Period Start: 1240 Stop: 1300	Survey Reference Point: TOC
Sampled By: Peter Doran / Nico Navarro	Witnessed By: —

PURGING DATA

Type of Pump	Elect Sub	Pump Inlet Depth (ft)	44
Well Diameter (in)	2	Depth of Well (ft)	44.96
Initial/Static Depth to Water (ft)	35.86	Length of Water Column (ft)	9.10
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.45	Three Casing Volumes (gal)	4.4
Purge Time, Start	1245	Purge Time, Stop	1250
Total Purge Time (minutes)	5	Purge Rate (gpm)	0.9
Purge Volume (gal)	4.5	Depth to Water (ft) at Sampling	35.90

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)	24.2	24.2	24.1	24.1				20.7
pH	7.48	7.49	7.48	7.49				7.02
Conductivity (µS) MS	2.80	2.81	2.79	2.78				3037 (MS)
Dissolved Oxygen (mg/L)								9.06
Dissolved Oxygen (%)								102.2
TDS (ppm) QAT	1.40	1.39	1.39	1.39				2148
Turbidity (NTU)	1040	922	856	826				124.7

Depth to Water at End of Purge (ft): 44.06 | Drawdown (ft): 8.2

Comments:

MISCELLANEOUS DATA

Condition of Traffic Box: SEE GAUGING SHEET

Drum Identification labeling: **Non-Hazardous Waste**

Water Level Indicator: **Solinst Model 101**

Weather Conditions: OVERCAST

Comments:

Sampled Time: ~~0940~~ (5.8.19) 0945

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

35.86 + 0.2 * 8.20 = 37.50

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 15-01587	Date: ~~5~~ 5/7/19
Project/Location Malibu, CA Civic Center Area	Well Number: SMBRP-11
Observation Period Start: 1335 Stop: 1400	Survey Reference Point: TOC
Sampled By: Peter Doran / Nico Navarro	Witnessed By: ~~N~~

PURGING DATA

Type of Pump	GRUNDFOS	Pump Inlet Depth (ft)	19.5
Well Diameter (in)	2	Depth of Well (ft)	20
Initial/Static Depth to Water (ft)	7.84	Length of Water Column (ft)	12.16
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.95	Three Casing Volumes (gal)	5.84
Purge Time, Start	1345	Purge Time, Stop	1353
Total Purge Time (minutes)	8	Purge Rate (gpm)	0.73
Purge Volume (gal)	6.0	Depth to Water (ft) at Sampling	7.75

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)	25.3	~~25.0~~ 2.0	~~23.2~~ 4.0	~~23.1~~ 6.0				20.0
pH	7.24	7.14	7.32	7.30				6-81
Conductivity (~~µS~~) (mS)	3.14	2.42	2.03	1.94				2.04
Dissolved Oxygen (mg/L)								9.33
Dissolved Oxygen (%)								103.3
TDS (ppm) (ppt)	1.56	1.21	1.02	0.97				326 (mg/L)
Turbidity (NTU)	926	714	366	429				156

Depth to Water at End of Purge (ft): 19.5 Drawdown (ft): 11.66

Comments:

MISCELLANEOUS DATA

Condition of Traffic Box: SEE GAUGING SHEET.

Drum Identification labeling: **Non-Hazardous Waste**

Water Level Indicator: **Solinst Model 101**

Weather Conditions: PARTLY CLOUDY

Comments: Sampled Time: 1100

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

7.94 + 0.2 * 11.66 = 10.17

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	15-01587	Date:	5.8.19
Project/Location	Malibu, CA Civic Center Area	Well Number:	SMBRP-12
Observation Period	Start: 1300 Stop: 1335	Survey Reference Point:	TOC
Sampled By:	Peter Doran / Nico Navarro	Witnessed By:	—

PURGING DATA

Type of Pump	Elect. Sub.	Pump Inlet Depth (ft)	24
Well Diameter (in)	2	Depth of Well (ft)	24.80
Initial/Static Depth to Water (ft)	7.63	Length of Water Column (ft)	17.17
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	2.7	Three Casing Volumes (gal)	8.24
Purge Time, Start	1305	Purge Time, Stop	1313
Total Purge Time (minutes)	8	Purge Rate (gpm)	1.1
Purge Volume (gal)	9.5	Depth to Water (ft) at Sampling	7.63

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)	22.3	23.1	23.2	23.2				→
pH	6.89	6.87	6.86	6.86				→
Conductivity (µS)	3192	2989	3061	3084				→
Dissolved Oxygen (mg/L)	8.53	8.33	8.28	8.26				→
Dissolved Oxygen (%)	99.1	98.1	97.9	97.7				→
TDS (ppm)	2075	1942	1988	2003				→
Turbidity (NTU)	692	103	30.1	24.5				→

Depth to Water at End of Purge (ft)	7.72	Drawdown (ft)	0.09

Comments:

MISCELLANEOUS DATA

Condition of Traffic Box: ~~Unlocked~~ SEE GAUGING SHEET

Drum Identification labeling: **Non-Hazardous Waste**

Water Level Indicator: **Solinst Model 101**

Weather Conditions: OVERCAST

Comments: Sampled Time: 1530/1330

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

7.63 + 0.2 * 0.09 = 7.64

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	15-01587	Date:	5.7.19
Project/Location	Malibu, CA Civic Center Area	Well Number:	MCWP-MW04S
Observation Period	Start: 1325 Stop: 1400	Survey Reference Point:	TOC
Sampled By:	Peter Doran / Nico Navarro	Witnessed By:	—

PURGING DATA

Type of Pump	GROUNDFOS	Pump Inlet Depth (ft)	20'
Well Diameter (in)	4	Depth of Well (ft)	20.39
Initial/Static Depth to Water (ft)	5.66	Length of Water Column (ft)	14.73
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.65
One Casing Volume (gal)	9.57	Three Casing Volumes (gal)	28.7
Purge Time, Start	1327	Purge Time, Stop	1347
Total Purge Time (minutes)	20	Purge Rate (gpm)	0.75
Purge Volume (gal)	15	Depth to Water (ft) at Sampling	5.97

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	10.0	15					At Sampling
Temperature (C)	23.4	23.4						20.1
pH	7.67	7.66	WELL DEWATERED					7.66
Conductivity (~~US~~) MS	6.69	6.70						5.78
Dissolved Oxygen (mg/L)	—	—						1.22
Dissolved Oxygen (%)	—	—						10.6
TDS (ppt)	3.34	335						2.89
Turbidity (NTU)	466	326						18.6

Depth to Water at End of Purge (ft)	20.06	Drawdown (ft)	14.40

Comments:

MISCELLANEOUS DATA

Condition of Traffic Box:	SEE GAUGING SHEET
Drum Identification labeling:	Non-Hazardous Waste
Water Level Indicator:	Solinst Model 101
Weather Conditions:	OVERCAST.

Comments: Sampled Time: 1105 5.9.19

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

5.66 + 0.2 * 1440 = 8.54

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 15-01587	Date: 5/9/19
Project/Location Malibu, CA Civic Center Area	Well Number: MCWP - MW04D
Observation Period Start: 900 Stop: 1220	Survey Reference Point: TOC
Sampled By: Peter Doran / Nico Navarro	Witnessed By:

PURGING DATA

Type of Pump	GRUNDFOS	Pump Inlet Depth (ft)	9.0
Well Diameter (in)	4	Depth of Well (ft)	145.33
Initial/Static Depth to Water (ft)	9.79	Length of Water Column (ft)	135.54
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.65
One Casing Volume (gal)	88.1	Three Casing Volumes (gal)	264.3
Purge Time, Start	920	Purge Time, Stop	1200
Total Purge Time (minutes)	160	Purge Rate (gpm)	1.6
Purge Volume (gal)	264.5	Depth to Water (ft) at Sampling	9.79

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

p177

INDICATOR DATA

Volume Pumped (gal)	Before Purge	88.5	~~1767~~	264.5				At Sampling
Temperature (C)	19.7	19.8	19.9	19.9				→
pH	6.91	6.89	6.88	6.89				→
Conductivity (µS)	2235	2061	2078	2296				→
Dissolved Oxygen (mg/L)	2.13	2.27	2.20	1.75				→
Dissolved Oxygen (%)	23.2	24.9	24.1	19.4				→
TDS (ppm)	1452	1489	1497	1493				→
Turbidity (NTU)	0.9	0	0	0				→

Depth to Water at End of Purge (ft): 9.82 Drawdown (ft): 0.03

Comments:

MISCELLANEOUS DATA

Condition of Traffic Box: SEE GAUGING SHEET.

Drum Identification labeling: **Non-Hazardous Waste**

Water Level Indicator: **Solinst Model 101**

Weather Conditions: OVERCAST.

Comments: Sampled Time: 1215

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

9.79 + 0.2 * 0.03 = 9.79

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 15-01587	Date: 5/8/19
Project/Location Malibu, CA Civic Center Area	Well Number: MCWP-MW07S
Observation Period Start: 1130 Stop: 1245	Survey Reference Point: TOC
Sampled By: Peter Doran / Nico Navarro	Witnessed By: —

PURGING DATA

Type of Pump	GRUNDFOS	Pump Inlet Depth (ft)	16.5
Well Diameter (in)	2	Depth of Well (ft)	17.0
Initial/Static Depth to Water (ft)	4.80	Length of Water Column (ft)	~~15.20~~ 12.20
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	1.95	Three Casing Volumes (gal)	5.86
Purge Time, Start	1201	Purge Time, Stop	1207
Total Purge Time (minutes)	6	Purge Rate (gpm)	1.0
Purge Volume (gal)	6.0	Depth to Water (ft) at Sampling	4.95

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)	20.0	20.1	20.2	20.2				—
pH	7.01	7.04	7.08	7.09				—
Conductivity (µS)	2723	2033	1556	1544				—
Dissolved Oxygen (mg/L)	9.34	9.25	9.23	9.22				—
Dissolved Oxygen (%)	103.4	102.9	102.8	102.7				—
TDS (ppm)	1769	1320	1022	1002				—
Turbidity (NTU)	896	642	86.6	67.2				—
			Depth to Water at End of Purge (ft)	13.62		Drawdown (ft)	8.82	

Comments:

MISCELLANEOUS DATA

Condition of Traffic Box: SEE GAUGING SHEET.

Drum Identification labeling: **Non-Hazardous Waste**

Water Level Indicator: **Solinst Model 101**

Weather Conditions: Cloudy / Overcast

Comments: Sampled Time: 1230

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

4.80 + 0.2 * 8.82 = 6.56

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No:	15-01587	Date:	5.8.19
Project/Location	Malibu, CA Civic Center Area	Well Number:	MCWD-MW07D
Observation Period	Start: 1125 Stop: 1230	Survey Reference Point:	TOC
Sampled By:	Peter Doran / Nico Navarro	Witnessed By:	

PURGING DATA

Type of Pump	Elect. Sub.	Pump Inlet Depth (ft)	125
Well Diameter (in)	2	Depth of Well (ft)	129.40
Initial/Static Depth to Water (ft)	7.67	Length of Water Column (ft)	121.73
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	~~0.65~~ 0.16
One Casing Volume (gal)	~~19.7~~ 19.47	Three Casing Volumes (gal)	58.4
Purge Time, Start	1130	Purge Time, Stop	1200
Total Purge Time (minutes)	~~H30~~ 30	Purge Rate (gpm)	~~7.67~~ 1.95
Purge Volume (gal)	58.5	Depth to Water (ft) at Sampling	7.67

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	39.0	58.5				At Sampling
Temperature (C)	20.5	20.9	20.8	20.7				→
pH	6.99	7.01	7.00	7.01				—
Conductivity (µS)	2924	3153	3154	3174				—
Dissolved Oxygen (mg/L)	9.14	9.05	9.03	9.04				—
Dissolved Oxygen (%)	102.5	102.1	102.0	102.0				—
TDS (ppm)	1900	2047	2052	2062				—
Turbidity (NTU)	6.8	3.5	3.6	2.0				—

Depth to Water at End of Purge (ft): 7.80 Drawdown (ft): 0.13

Comments:

MISCELLANEOUS DATA

Condition of Traffic Box: SEE GAUGING SHEET.

Drum Identification labeling: **Non-Hazardous Waste**

Water Level Indicator: **Solinst Model 101**

Weather Conditions: OVERCAST.

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

7.67 + 0.2 * 0.13 = 7.69

Rincon Consultants, Inc.

GROUND WATER SAMPLING/PURGING DATA SHEET

Job No: 15-01587	Date: 5.8.19
Project/Location Malibu, CA Civic Center Area	Well Number: ~~SMBRP-12~~ MCWP-MW09
Observation Period Start: 1225 Stop: 1320	Survey Reference Point: TOC
Sampled By: Peter Doran / Nico Navarro	Witnessed By:

PURGING DATA

Type of Pump	GRUNDFOS	Pump Inlet Depth (ft)	85
Well Diameter (in)	2	Depth of Well (ft)	90.00
Initial/Static Depth to Water (ft)	6.25	Length of Water Column (ft)	83.75
Product Thickness (ft)	N/A	Volume Multiplier (gal/ft)	0.16
One Casing Volume (gal)	13.4	Three Casing Volumes (gal)	40.2
Purge Time, Start	1230	Purge Time, Stop	1300
Total Purge Time (minutes)	30	Purge Rate (gpm)	1.4
Purge Volume (gal)	40.5	Depth to Water (ft) at Sampling	

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	27.0	40.5				At Sampling
Temperature (C)	22.0	21.9	22.0	22.1				→
pH	7.18	7.20	7.16	7.18				→
Conductivity (µS)	3324	3331	3359	3376				→
Dissolved Oxygen (mg/L)	8.61	8.62	8.61	8.60				→
Dissolved Oxygen (%)	99.5	99.6	99.5	99.5				→
TDS (ppm)	2160	2164	2152	2193				→
Turbidity (NTU)	87.8	0.3	2.0	0.5				→
			Depth to Water at End of Purge (ft)	6.63		Drawdown (ft)	0.38	

Comments:

MISCELLANEOUS DATA

Condition of Traffic Box: SEE GAUGING SHEET.

Drum Identification labeling: **Non-Hazardous Waste**

Water Level Indicator: **Solinst Model 101**

Weather Conditions: OVERCAST.

Comments: Sampled Time: 1315

Well Recovery Calculation

Static Depth to Water in feet + (0.2) (maximum Drawdown in feet) = Depth to Water at 80% Recovery

6.25 + 0.2 * 0.38 = 6.32

Malibu

Monthly Gauging Sheet

Well ID	Total Well Depth (ft bTOC)	Well Diameter (in)	Time 6/7/19	Depth to Water	Well Head Deficiencies Comments
C-1	14.5	n/a	1335	6.40	
C-2	14.5	2	1337	6.30	
CCPE	52	2	1219	7.81	
CCPNE		2	1224	8.2	
CCPSW		2	1230	7.82	
CCW-4		1	1128	4.71	
GH6-M1	35	2	1015	25.5	
GH8-M3	40	2	1018	24.02	
GH9-M4	45	2	—	—	BURIED
Lagoon	n/a	n/a	—	—	NA
LAMW-5S	74	4	1058	47.86	
M6-1	45	2	1035	6.18	
M6-2	20	2	1036	4.48	
M7-1	40	2	1025	6.94	
M7-2	25	2	1023	5.92	
MBCMW-5	19.4	n/a	—	—	BURIED
MBCMW-6	64.26	n/a	—	—	"
MBCMW-7	52.5	2	1121	11.62	
MBCMW-8	10	2	1122	7.08	
MBCMW-9	9	2	1134	6.87	
MBCMW-10	53	2	1135	8.98	
MCWP-MW01	148	6	1105	10.67	
MCWP-MW02	145	6	1351	11.79	
MCWP-MW03	134	6	1250	7.7	
MCWP-MW04D	145	4	1108	9.78	
MCWP-MW04S	20	4	1111	5.6	
MCWP-MW05	150	4	1132	7.95	
MCWP-MW06	137	2	1352	10.0	
MCWP-MW07D	134	2	1248	7.62	
MCWP-MW07S	20	2	1246	4.58	
MCWP-MW08	77	2	1315	8.15	
MCWP-MW09	89	2	1307	6.08	
MCWP-MW10	22	2	1322	7.6	
P-4	12.5	4	1206	6.5	
P-9	14.3	4	1208	7.08	
SMBRP-2	25	2	1157	8.1	
SMBRP-6	25	2	1145	15.12	
SMBRP-7b	25	2	1353	10.08	
SMBRP-8 (EG-RC MW01)	60	4	1005	24.6	
SMBRP-9	45	2	1000	35.35	
SMBRP-10C	25	2	1053	4.75	
SMBRP-11	20	2	1256	7.58	
SMBRP-12	25	2	1305	6.96	
SMBRP-13	20	2	1311	8.08	
SMBRP-15b	25	1	—	—	DRY
SMBRP-16	25	2	1117	3.11	

Collected by - Nico Navarro

Appendix B

Laboratory Analytical Reports

Enthalpy Analytical, LLC
931 W. Barkley Ave - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.enthalpy.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client: Rincon Consultants - Ventura
Address: 180 North Ashwood Ave.
Ventura, CA 93003

Attn: Kiernan Brtalik

Comments: Malibu - Quarterly - Ground Water
15-01587

Lab Request: 415081
Report Date: 05/17/2019
Date Received: 05/08/2019
Client ID: 15888

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
415081-001	LAMW-55
415081-002	SMBRP-9
415081-003	SMBRP-11
415081-004	SMBRP-12
415081-005	MCWP-MW04S
415081-006	MCWP-MW07S
415081-007	MCWP-MW07D
415081-008	MCWP-MW09

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Ranjit K. K. Clarke

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date received.

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ACCREDITED IN ACCORDANCE WITH nelac

Matrix:	Water	**Client:**	Rincon Consultants - Ventura	**Collector:**	Client
Sampled:	05/08/2019 10:15	**Site:**			
Sample #:	**415081-001**	**Client Sample #:**	LAMW-55	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALCH 4024	Prep Method: None						QCBatchID:		
Total Organic Nitrogen	**0.22 J**	1	0.04	0.5	mg/L		05/17/19	SLL	J
Method: ALCH 4025	Prep Method: None						QCBatchID:		
Total Nitrogen	**6.40**	1	0.03	0.5	mg/L		05/17/19	SLL	
Method: EPA 1664A	Prep Method: Method						QCBatchID:		QC1202008
Total Oil and Grease	**2.9 J**	1.11	1.554	5.55	mg/L	05/14/19	05/14/19	EC	J
Method: EPA 200.7	Prep Method: EPA 200.7						QCBatchID:		QC1201789
Boron	**0.282**	1	0.03	0.05	mg/L	05/09/19	05/10/19	SBW	
Method: EPA 300.0	Prep Method: Method						QCBatchID:		QC1201842
Chloride	**105**	1	0.086	1	mg/L	05/10/19	05/09/19 17:21	JP	
Nitrate + Nitrite, as Nitrogen	**6.19**	1	0.018	0.1	mg/L	05/10/19	05/09/19 17:21	JP	
Nitrate, as Nitrogen	**6.19**	1	0.012	0.1	mg/L	05/10/19	05/09/19 17:21	JP	
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	05/10/19	05/09/19 17:21	JP	
Sulfate	**95.2**	1	0.077	1	mg/L	05/10/19	05/09/19 17:21	JP	
Method: EPA 351.2	Prep Method: Method						QCBatchID:		QC1201873
Total Kjeldahl Nitrogen	**0.215 J**	1	0.052	0.4	mg/L	05/09/19	05/10/19	TP	J
Method: SM 2120-B	Prep Method: Method						QCBatchID:		QC1201782
Color	ND	1	5	5	Color Unit		05/08/19 17:30	WW	
Method: SM 2130-B	Prep Method: Method						QCBatchID:		QC1201784
Turbidity	**18**	1	0.074	0.1	NTU		05/08/19 17:30	WW	
Method: SM 2150-B	Prep Method: Method						QCBatchID:		QC1201783
Odor Threshold	ND	1	1	1	T.O.N		05/08/19 17:30	WW	
Method: SM 2540-C	Prep Method: Method						QCBatchID:		QC1201936
Total Dissolved Solids	**570**	2	20	20	mg/L	05/13/19	05/14/19	WW	
Method: SM 2540-D	Prep Method: SM 2540-D						QCBatchID:		QC1201906
Total Suspended Solids	**21.9**	1.05	0.525	0.525	mg/L	05/11/19	05/11/19	TP	
Method: SM 4500-Cl	Prep Method: Method						QCBatchID:		QC1201805
Chlorine, Total Residual	ND	1	0.016	0.1	mg/L		05/08/19 18:30	WW	T2
Method: SM 4500-H+B	Prep Method: Method						QCBatchID:		QC1201943
pH	**7.28**	1			pH Units	05/08/19 16:02	05/08/19 17:28	CM	T2
Temp. at Time of pH Measurement	**9.3**	1			°C	05/08/19 16:02	05/08/19 17:28	CM	
Method: SM 4500-NH3-G	Prep Method: Method						QCBatchID:		QC1201921
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	05/10/19	05/13/19	TP	
Method: SM 4500-P-B-5-E	Prep Method: 4500-P-B-5						QCBatchID:		QC1202067
Total Phosphorous as P	**1.800**	5	0.05	0.1	mg/L	05/16/19	05/16/19	TP	
Total Phosphorous as PO4	**5.52**	5	0.15	0.3	mg/L	05/16/19	05/16/19	TP	
Method: SM 5210-B	Prep Method: Method/5day						QCBatchID:		QC1201775
BOD	ND	1	1.5	3	mg/L	05/08/19	05/08/19 17:28	WW	BQ2
Method: SM 5310B	Prep Method: Method						QCBatchID:		QC1201855
Total Organic Carbon (TOC)	**2.32**	1	0.091	1	mg/L		05/09/19	WW	
Method: SM 5540-C	Prep Method: Method						QCBatchID:		QC1201827
MBAS	**0.040**	1	0.007	0.04	mg/L	05/09/19 10:30	05/09/19 20:55	NP	
Method: sm 9223-B-b	Prep Method: Method						QCBatchID:		QC1201779
Fecal Coliform	**2.0**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	
Total Coliform	**11.0**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	

Matrix:	Water	**Client:**	Rincon Consultants - Ventura	**Collector:**	Client
Sampled:	05/08/2019 09:45	**Site:**			
Sample #:	**415081-002**	**Client Sample #:**	SMBRP-9	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALCH 4024	Prep Method: None						QCBatchID:		
Total Organic Nitrogen	**0.09 J**	1	0.04	0.5	mg/L		05/17/19	SLL	J
Method: ALCH 4025	Prep Method: None						QCBatchID:		
Total Nitrogen	**12.8**	1	0.03	0.5	mg/L		05/17/19	SLL	
Method: EPA 1664A	Prep Method: Method						QCBatchID:		QC1202008
Total Oil and Grease	**1.7 J**	1.05	1.47	5.25	mg/L	05/14/19	05/14/19	EC	J
Method: EPA 200.7	Prep Method: EPA 200.7						QCBatchID:		QC1201789
Boron	**0.582**	1	0.03	0.05	mg/L	05/09/19	05/10/19	SBW	
Method: EPA 300.0	Prep Method: Method						QCBatchID:		QC1201842
Chloride	**250**	10	0.86	10	mg/L	05/10/19	05/10/19 05:03	JP	
Nitrate + Nitrite, as Nitrogen	**12.7**	1	0.018	0.1	mg/L	05/10/19	05/09/19 17:48	JP	
Nitrate, as Nitrogen	**12.7**	1	0.012	0.1	mg/L	05/10/19	05/09/19 17:48	JP	
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	05/10/19	05/09/19 17:48	JP	
Sulfate	**370**	10	0.77	10	mg/L	05/10/19	05/10/19 05:03	JP	
Method: EPA 351.2	Prep Method: Method						QCBatchID:		QC1201873
Total Kjeldahl Nitrogen	**0.086 J**	1	0.052	0.4	mg/L	05/09/19	05/10/19	TP	J
Method: SM 2120-B	Prep Method: Method						QCBatchID:		QC1201782
Color	ND	1	5	5	Color Unit		05/08/19 17:30	WW	
Method: SM 2130-B	Prep Method: Method						QCBatchID:		QC1201784
Turbidity	**160**	1	0.074	0.1	NTU		05/08/19 17:30	WW	
Method: SM 2150-B	Prep Method: Method						QCBatchID:		QC1201783
Odor Threshold	ND	1	1	1	T.O.N		05/08/19 17:30	WW	
Method: SM 2540-C	Prep Method: Method						QCBatchID:		QC1201936
Total Dissolved Solids	**1770**	2	20	20	mg/L	05/13/19	05/14/19	WW	
Method: SM 2540-D	Prep Method: SM 2540-D						QCBatchID:		QC1201906
Total Suspended Solids	**390**	5	2.5	2.5	mg/L	05/11/19	05/11/19	TP	
Method: SM 4500-Cl	Prep Method: Method						QCBatchID:		QC1201805
Chlorine, Total Residual	ND	1	0.016	0.1	mg/L		05/08/19 18:30	WW	T2
Method: SM 4500-H+B	Prep Method: Method						QCBatchID:		QC1201943
pH	**7.21**	1			pH Units	05/08/19 16:02	05/08/19 17:53	CM	T2
Temp. at Time of pH Measurement	**8.8**	1			°C	05/08/19 16:02	05/08/19 17:53	CM	
Method: SM 4500-NH3-G	Prep Method: Method						QCBatchID:		QC1201921
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	05/10/19	05/13/19	TP	
Method: SM 4500-P-B-5-E	Prep Method: 4500-P-B-5						QCBatchID:		QC1202067
Total Phosphorous as P	**0.052**	1	0.01	0.02	mg/L	05/16/19	05/16/19	TP	
Total Phosphorous as PO4	**0.159**	1	0.03	0.06	mg/L	05/16/19	05/16/19	TP	
Method: SM 5210-B	Prep Method: Method/5day						QCBatchID:		QC1201775
BOD	ND	1	1.5	3	mg/L	05/08/19	05/08/19 17:53	WW	BQ2
Method: SM 5310B	Prep Method: Method						QCBatchID:		QC1201855
Total Organic Carbon (TOC)	ND	1	0.091	1	mg/L		05/09/19	WW	
Method: SM 5540-C	Prep Method: Method						QCBatchID:		QC1201827
MBAS	**0.34**	1	0.007	0.04	mg/L	05/09/19 10:30	05/09/19 20:55	NP	
Method: sm 9223-B-b	Prep Method: Method						QCBatchID:		QC1201779
Fecal Coliform	**20**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	
Total Coliform	**1700**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	

Matrix:	Water	**Client:**	Rincon Consultants - Ventura	**Collector:**	Client
Sampled:	05/08/2019 11:00	**Site:**			
Sample #:	**415081-003**	**Client Sample #:**	SMBRP-11	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALCH 4024	Prep Method: None						QCBatchID:		
Total Organic Nitrogen	**0.66**	1	0.04	0.5	mg/L		05/17/19	SLL	
Method: ALCH 4025	Prep Method: None						QCBatchID:		
Total Nitrogen	**7.58**	1	0.03	0.5	mg/L		05/17/19	SLL	
Method: EPA 1664A	Prep Method: Method						QCBatchID:		QC1202008
Total Oil and Grease	**3.5 J**	1.05	1.47	5.25	mg/L	05/14/19	05/14/19	EC	J
Method: EPA 200.7	Prep Method: EPA 200.7						QCBatchID:		QC1201789
Boron	**0.506**	1	0.03	0.05	mg/L	05/09/19	05/10/19	SBW	
Method: EPA 300.0	Prep Method: Method						QCBatchID:		QC1201842
Chloride	**264**	10	0.86	10	mg/L	05/10/19	05/10/19 05:30	JP	
Nitrate + Nitrite, as Nitrogen	**6.60**	1	0.018	0.1	mg/L	05/10/19	05/09/19 18:15	JP	
Nitrate, as Nitrogen	**6.54**	1	0.012	0.1	mg/L	05/10/19	05/09/19 18:15	JP	
Nitrite, as Nitrogen	**0.06 J**	1	0.018	0.1	mg/L	05/10/19	05/09/19 18:15	JP	J
Sulfate	**261**	10	0.77	10	mg/L	05/10/19	05/10/19 05:30	JP	
Method: EPA 351.2	Prep Method: Method						QCBatchID:		QC1201873
Total Kjeldahl Nitrogen	**0.980**	1	0.052	0.4	mg/L	05/09/19	05/10/19	TP	
Method: SM 2120-B	Prep Method: Method						QCBatchID:		QC1201782
Color	ND	1	5	5	Color Unit		05/08/19 17:30	WW	
Method: SM 2130-B	Prep Method: Method						QCBatchID:		QC1201784
Turbidity	**130**	1	0.074	0.1	NTU		05/08/19 17:30	WW	
Method: SM 2150-B	Prep Method: Method						QCBatchID:		QC1201783
Odor Threshold	ND	1	1	1	T.O.N		05/08/19 17:30	WW	
Method: SM 2540-C	Prep Method: Method						QCBatchID:		QC1201936
Total Dissolved Solids	**1400**	2	20	20	mg/L	05/13/19	05/14/19	WW	
Method: SM 2540-D	Prep Method: SM 2540-D						QCBatchID:		QC1201906
Total Suspended Solids	**287**	5	2.5	2.5	mg/L	05/11/19	05/11/19	TP	
Method: SM 4500-Cl	Prep Method: Method						QCBatchID:		QC1201805
Chlorine, Total Residual	**0.49**	1	0.016	0.1	mg/L		05/08/19 18:30	WW	T2
Method: SM 4500-H+B	Prep Method: Method						QCBatchID:		QC1201943
pH	**6.87**	1			pH Units	05/08/19 16:02	05/08/19 18:05	CM	T2
Temp. at Time of pH Measurement	**11.20**	1			°C	05/08/19 16:02	05/08/19 18:05	CM	
Method: SM 4500-NH3-G	Prep Method: Method						QCBatchID:		QC1201921
Ammonia, as Nitrogen	**0.324**	1	0.01	0.1	mg/L	05/10/19	05/13/19	TP	
Method: SM 4500-P-B-5-E	Prep Method: 4500-P-B-5						QCBatchID:		QC1202067
Total Phosphorous as P	**0.046**	1	0.01	0.02	mg/L	05/16/19	05/16/19	TP	
Total Phosphorous as PO4	**0.141**	1	0.03	0.06	mg/L	05/16/19	05/16/19	TP	
Method: SM 5210-B	Prep Method: Method/5day						QCBatchID:		QC1201775
BOD	**12**	1	1.5	3	mg/L	05/08/19	05/08/19 18:05	WW	BQ2
Method: SM 5310B	Prep Method: Method						QCBatchID:		QC1201855
Total Organic Carbon (TOC)	**5.94**	1	0.091	1	mg/L		05/09/19	WW	
Method: SM 5540-C	Prep Method: Method						QCBatchID:		QC1201827
MBAS	**0.38**	1	0.007	0.04	mg/L	05/09/19 10:30	05/09/19 20:55	NP	
Method: sm 9223-B-b	Prep Method: Method						QCBatchID:		QC1201779
Fecal Coliform	**260**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	
Total Coliform	**580**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	

Matrix:	Water	**Client:**	Rincon Consultants - Ventura	**Collector:**	Client
Sampled:	05/08/2019 13:30	**Site:**			
Sample #:	**415081-004**	**Client Sample #:**	SMBRP-12	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALCH 4024	Prep Method: None						QCBatchID:		
Total Organic Nitrogen	**1.20**	1	0.04	0.5	mg/L		05/17/19	SLL	
Method: ALCH 4025	Prep Method: None						QCBatchID:		
Total Nitrogen	**12.1**	1	0.03	0.5	mg/L		05/17/19	SLL	
Method: EPA 1664A	Prep Method: Method						QCBatchID:		QC1202008
Total Oil and Grease	**2.0 J**	1.25	1.75	6.25	mg/L	05/14/19	05/14/19	EC	J
Method: EPA 200.7	Prep Method: EPA 200.7						QCBatchID:		QC1201789
Boron	**0.581**	1	0.03	0.05	mg/L	05/09/19	05/10/19	SBW	
Method: EPA 300.0	Prep Method: Method						QCBatchID:		QC1201842
Chloride	**364**	10	0.86	10	mg/L	05/10/19	05/10/19 05:57	JP	
Nitrate + Nitrite, as Nitrogen	**0.11**	1	0.018	0.1	mg/L	05/10/19	05/09/19 18:42	JP	
Nitrate, as Nitrogen	**0.11**	1	0.012	0.1	mg/L	05/10/19	05/09/19 18:42	JP	
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	05/10/19	05/09/19 18:42	JP	
Sulfate	**394**	10	0.77	10	mg/L	05/10/19	05/10/19 05:57	JP	
Method: EPA 351.2	Prep Method: Method						QCBatchID:		QC1201873
Total Kjeldahl Nitrogen	**12**	5	0.26	2	mg/L	05/09/19	05/10/19	TP	
Method: SM 2120-B	Prep Method: Method						QCBatchID:		QC1201782
Color	ND	1	5	5	Color Unit		05/08/19 17:30	WW	
Method: SM 2130-B	Prep Method: Method						QCBatchID:		QC1201784
Turbidity	**160**	1	0.074	0.1	NTU		05/08/19 17:30	WW	
Method: SM 2150-B	Prep Method: Method						QCBatchID:		QC1201783
Odor Threshold	ND	1	1	1	T.O.N		05/08/19 17:30	WW	
Method: SM 2540-C	Prep Method: Method						QCBatchID:		QC1201936
Total Dissolved Solids	**1200**	2	20	20	mg/L	05/13/19	05/14/19	WW	
Method: SM 2540-D	Prep Method: SM 2540-D						QCBatchID:		QC1201906
Total Suspended Solids	**302**	5	2.5	2.5	mg/L	05/11/19	05/11/19	TP	
Method: SM 4500-Cl	Prep Method: Method						QCBatchID:		QC1201805
Chlorine, Total Residual	ND	1	0.016	0.1	mg/L		05/08/19 18:30	WW	T2
Method: SM 4500-H+B	Prep Method: Method						QCBatchID:		QC1201943
pH	**7.02**	1			pH Units	05/08/19 16:02	05/08/19 18:02	CM	T2
Temp. at Time of pH Measurement	**16.1**	1			°C	05/08/19 16:02	05/08/19 18:02	CM	
Method: SM 4500-NH3-G	Prep Method: Method						QCBatchID:		QC1201921
Ammonia, as Nitrogen	**10.8**	5	0.05	0.5	mg/L	05/10/19	05/13/19	TP	
Method: SM 4500-P-B-5-E	Prep Method: 4500-P-B-5						QCBatchID:		QC1202067
Total Phosphorous as P	**2.50**	5	0.05	0.1	mg/L	05/16/19	05/16/19	TP	
Total Phosphorous as PO4	**7.66**	5	0.15	0.3	mg/L	05/16/19	05/16/19	TP	
Method: SM 5210-B	Prep Method: Method/5day						QCBatchID:		QC1201775
BOD	**7**	1	1.5	3	mg/L	05/08/19	05/08/19 18:02	WW	BQ2
Method: SM 5310B	Prep Method: Method						QCBatchID:		QC1201855
Total Organic Carbon (TOC)	**2.52**	1	0.091	1	mg/L		05/09/19	WW	
Method: SM 5540-C	Prep Method: Method						QCBatchID:		QC1201827
MBAS	**0.69**	1	0.007	0.04	mg/L	05/09/19 10:30	05/09/19 20:55	NP	
Method: sm 9223-B-b	Prep Method: Method						QCBatchID:		QC1201779
Fecal Coliform	**2000**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	
Total Coliform	**2400**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	

Matrix:	Water	**Client:**	Rincon Consultants - Ventura	**Collector:**	Client
Sampled:	05/08/2019 11:05	**Site:**			
Sample #:	**415081-005**	**Client Sample #:**	MCWP-MW04S	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALCH 4024 Prep Method: None							QCBatchID:		
Total Organic Nitrogen	**0.23 J**	1	0.04	0.5	mg/L		05/17/19	SLL	J
Method: ALCH 4025 Prep Method: None							QCBatchID:		
Total Nitrogen	**3.49**	1	0.03	0.5	mg/L		05/17/19	SLL	
Method: EPA 1664A Prep Method: Method							QCBatchID:		QC1202008
Total Oil and Grease	ND	1.11	1.554	5.55	mg/L	05/14/19	05/14/19	EC	
Method: EPA 200.7 Prep Method: EPA 200.7							QCBatchID:		QC1201789
Boron	**1.48**	1	0.03	0.05	mg/L	05/09/19	05/09/19	KLN	
Method: EPA 300.0 Prep Method: Method							QCBatchID:		QC1201842
Chloride	**719**	10	0.86	10	mg/L	05/10/19	05/10/19 06:24	JP	
Nitrate + Nitrite, as Nitrogen	**2.95**	1	0.018	0.1	mg/L	05/10/19	05/09/19 19:09	JP	
Nitrate, as Nitrogen	**2.95**	1	0.012	0.1	mg/L	05/10/19	05/09/19 19:09	JP	
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	05/10/19	05/09/19 19:09	JP	
Sulfate	**2360**	50	3.85	50	mg/L	05/10/19	05/11/19 11:42	JP	
Method: EPA 351.2 Prep Method: Method							QCBatchID:		QC1201873
Total Kjeldahl Nitrogen	**0.541**	1	0.052	0.4	mg/L	05/09/19	05/10/19	TP	
Method: SM 2120-B Prep Method: Method							QCBatchID:		QC1201782
Color	ND	1	5	5	Color Unit		05/08/19 17:30	WW	
Method: SM 2130-B Prep Method: Method							QCBatchID:		QC1201784
Turbidity	**14**	1	0.074	0.1	NTU		05/08/19 17:30	WW	
Method: SM 2150-B Prep Method: Method							QCBatchID:		QC1201783
Odor Threshold	ND	1	1	1	T.O.N		05/08/19 17:30	WW	
Method: SM 2540-C Prep Method: Method							QCBatchID:		QC1201936
Total Dissolved Solids	**5150**	2	20	20	mg/L	05/13/19	05/14/19	WW	
Method: SM 2540-D Prep Method: SM 2540-D							QCBatchID:		QC1201906
Total Suspended Solids	**8.4**	1.05	0.525	0.525	mg/L	05/11/19	05/11/19	TP	
Method: SM 4500-Cl Prep Method: Method							QCBatchID:		QC1201805
Chlorine, Total Residual	**0.10**	1	0.016	0.1	mg/L		05/08/19 18:30	WW	T2
Method: SM 4500-H+B Prep Method: Method							QCBatchID:		QC1201943
pH	**7.35**	1			pH Units	05/08/19 16:02	05/08/19 18:30	CM	T2
Temp. at Time of pH Measurement	**9.4**	1			°C	05/08/19 16:02	05/08/19 18:30	CM	
Method: SM 4500-NH3-G Prep Method: Method							QCBatchID:		QC1201922
Ammonia, as Nitrogen	**0.310**	1	0.01	0.1	mg/L	05/10/19	05/13/19	TP	
Method: SM 4500-P-B-5-E Prep Method: 4500-P-B-5							QCBatchID:		QC1202067
Total Phosphorous as P	**0.360**	1	0.01	0.02	mg/L	05/16/19	05/16/19	TP	
Total Phosphorous as PO4	**1.104**	1	0.03	0.06	mg/L	05/16/19	05/16/19	TP	
Method: SM 5210-B Prep Method: Method/5day							QCBatchID:		QC1201775
BOD	ND	1	1.5	3	mg/L	05/08/19	05/08/19 18:30	WW	BQ2
Method: SM 5310B Prep Method: Method							QCBatchID:		QC1201855
Total Organic Carbon (TOC)	**7.22**	1	0.091	1	mg/L		05/09/19	WW	
Method: SM 5540-C Prep Method: Method							QCBatchID:		QC1201827
MBAS	**0.069**	1	0.007	0.04	mg/L	05/09/19 10:30	05/09/19 20:55	NP	
Method: sm 9223-B-b Prep Method: Method							QCBatchID:		QC1201779
Fecal Coliform	**<1**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	
Total Coliform	**260**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	

Matrix:	Water	**Client:**	Rincon Consultants - Ventura	**Collector:**	Client
Sampled:	05/08/2019 12:30	**Site:**			
Sample #:	**415081-006**	**Client Sample #:**	MCWP-MW07S	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALCH 4024 Prep Method: None							QCBatchID:		
Total Organic Nitrogen	**0.58**	1	0.04	0.5	mg/L		05/17/19	SLL	
Method: ALCH 4025 Prep Method: None							QCBatchID:		
Total Nitrogen	**4.88**	1	0.03	0.5	mg/L		05/17/19	SLL	
Method: EPA 1664A Prep Method: Method							QCBatchID:		QC1202008
Total Oil and Grease	**1.8 J**	1.11	1.554	5.55	mg/L	05/14/19	05/14/19	EC	J
Method: EPA 200.7 Prep Method: EPA 200.7							QCBatchID:		QC1201789
Boron	**0.382**	1	0.03	0.05	mg/L	05/09/19	05/10/19	SBW	
Method: EPA 300.0 Prep Method: Method							QCBatchID:		QC1201842
Chloride	**204**	10	0.86	10	mg/L	05/10/19	05/10/19 06:51	JP	
Nitrate + Nitrite, as Nitrogen	**4.25**	1	0.018	0.1	mg/L	05/10/19	05/09/19 19:36	JP	
Nitrate, as Nitrogen	**4.25**	1	0.012	0.1	mg/L	05/10/19	05/09/19 19:36	JP	
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	05/10/19	05/09/19 19:36	JP	
Sulfate	**246**	10	0.77	10	mg/L	05/10/19	05/10/19 06:51	JP	
Method: EPA 351.2 Prep Method: Method							QCBatchID:		QC1201873
Total Kjeldahl Nitrogen	**0.631**	1	0.052	0.4	mg/L	05/09/19	05/10/19	TP	
Method: SM 2120-B Prep Method: Method							QCBatchID:		QC1201782
Color	ND	1	5	5	Color Unit		05/08/19 17:30	WW	
Method: SM 2130-B Prep Method: Method							QCBatchID:		QC1201784
Turbidity	**230**	1	0.074	0.1	NTU		05/08/19 17:30	WW	
Method: SM 2150-B Prep Method: Method							QCBatchID:		QC1201783
Odor Threshold	ND	1	1	1	T.O.N		05/08/19 17:30	WW	
Method: SM 2540-C Prep Method: Method							QCBatchID:		QC1201936
Total Dissolved Solids	**1150**	2	20	20	mg/L	05/13/19	05/14/19	WW	
Method: SM 2540-D Prep Method: SM 2540-D							QCBatchID:		QC1201906
Total Suspended Solids	**256**	5	2.5	2.5	mg/L	05/11/19	05/11/19	TP	
Method: SM 4500-Cl Prep Method: Method							QCBatchID:		QC1201805
Chlorine, Total Residual	ND	1	0.016	0.1	mg/L		05/08/19 18:30	WW	T2
Method: SM 4500-H+B Prep Method: Method							QCBatchID:		QC1201943
pH	**7.31**	1			pH Units	05/08/19 16:02	05/08/19 18:32	CM	T2
Temp. at Time of pH Measurement	**15.3**	1			°C	05/08/19 16:02	05/08/19 18:32	CM	
Method: SM 4500-NH3-G Prep Method: Method							QCBatchID:		QC1201922
Ammonia, as Nitrogen	**0.052 J**	1	0.01	0.1	mg/L	05/10/19	05/13/19	TP	J
Method: SM 4500-P-B-5-E Prep Method: 4500-P-B-5							QCBatchID:		QC1202067
Total Phosphorous as P	**0.391**	1	0.01	0.02	mg/L	05/16/19	05/16/19	TP	
Total Phosphorous as PO4	**1.199**	1	0.03	0.06	mg/L	05/16/19	05/16/19	TP	
Method: SM 5210-B Prep Method: Method/5day							QCBatchID:		QC1201775
BOD	**2 J**	1	1.5	3	mg/L	05/08/19	05/08/19 18:32	WW	J,BQ2
Method: SM 5310B Prep Method: Method							QCBatchID:		QC1201855
Total Organic Carbon (TOC)	ND	1	0.091	1	mg/L		05/09/19	WW	
Method: SM 5540-C Prep Method: Method							QCBatchID:		QC1201827
MBAS	**0.21**	1	0.007	0.04	mg/L	05/09/19 10:30	05/09/19 20:55	NP	
Method: sm 9223-B-b Prep Method: Method							QCBatchID:		QC1201779
Fecal Coliform	**280**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	
Total Coliform	**550**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	

Matrix:	Water	**Client:**	Rincon Consultants - Ventura	**Collector:**	Client
Sampled:	05/08/2019 12:20	**Site:**			
Sample #:	**415081-007**	**Client Sample #:**	MCWP-MW07D	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALCH 4024	Prep Method: None						QCBatchID:		
Total Organic Nitrogen	**0.61**	1	0.04	0.5	mg/L		05/17/19	SLL	
Method: ALCH 4025	Prep Method: None						QCBatchID:		
Total Nitrogen	**0.71**	1	0.03	0.5	mg/L		05/17/19	SLL	
Method: EPA 1664A	Prep Method: Method						QCBatchID:		QC1202008
Total Oil and Grease	**2.2 J**	1.11	1.554	5.55	mg/L	05/14/19	05/14/19	EC	J
Method: EPA 200.7	Prep Method: EPA 200.7						QCBatchID:		QC1201789
Boron	**0.062**	1	0.03	0.05	mg/L	05/09/19	05/10/19	SBW	
Method: EPA 300.0	Prep Method: Method						QCBatchID:		QC1201842
Chloride	**6.33**	1	0.086	1	mg/L	05/10/19	05/13/19 18:02	JP	
Nitrate + Nitrite, as Nitrogen	**0.10**	1	0.018	0.1	mg/L	05/10/19	05/11/19 10:47	JP	T5
Nitrate, as Nitrogen	**0.10**	1	0.012	0.1	mg/L	05/10/19	05/11/19 10:47	JP	T5
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	05/10/19	05/09/19 21:51	JP	
Sulfate	**21.4**	1	0.077	1	mg/L	05/10/19	05/09/19 21:51	JP	
Method: EPA 351.2	Prep Method: Method						QCBatchID:		QC1201873
Total Kjeldahl Nitrogen	**0.606**	1	0.052	0.4	mg/L	05/09/19	05/10/19	TP	
Method: SM 2120-B	Prep Method: Method						QCBatchID:		QC1201782
Color	ND	1	5	5	Color Unit		05/08/19 17:30	WW	
Method: SM 2130-B	Prep Method: Method						QCBatchID:		QC1201784
Turbidity	**62**	1	0.074	0.1	NTU		05/08/19 17:30	WW	
Method: SM 2150-B	Prep Method: Method						QCBatchID:		QC1201783
Odor Threshold	ND	1	1	1	T.O.N		05/08/19 17:30	WW	
Method: SM 2540-C	Prep Method: Method						QCBatchID:		QC1201936
Total Dissolved Solids	**78.0**	2	20	20	mg/L	05/13/19	05/14/19	WW	
Method: SM 2540-D	Prep Method: SM 2540-D						QCBatchID:		QC1201906
Total Suspended Solids	**68.0**	2.86	1.43	1.43	mg/L	05/11/19	05/11/19	TP	
Method: SM 4500-Cl	Prep Method: Method						QCBatchID:		QC1201805
Chlorine, Total Residual	ND	1	0.016	0.1	mg/L		05/08/19 18:30	WW	T2
Method: SM 4500-H+B	Prep Method: Method						QCBatchID:		QC1201943
pH	**7.50**	1			pH Units	05/08/19 16:02	05/08/19 18:34	CM	T2
Temp. at Time of pH Measurement	**14.5**	1			°C	05/08/19 16:02	05/08/19 18:34	CM	
Method: SM 4500-NH3-G	Prep Method: Method						QCBatchID:		QC1201922
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	05/10/19	05/13/19	TP	
Method: SM 4500-P-B-5-E	Prep Method: 4500-P-B-5						QCBatchID:		QC1202067
Total Phosphorous as P	**0.041**	1	0.01	0.02	mg/L	05/16/19	05/16/19	TP	
Total Phosphorous as PO4	**0.126**	1	0.03	0.06	mg/L	05/16/19	05/16/19	TP	
Method: SM 5210-B	Prep Method: Method/5day						QCBatchID:		QC1201775
BOD	**13**	1	1.5	3	mg/L	05/08/19	05/08/19 18:34	WW	BQ2
Method: SM 5310B	Prep Method: Method						QCBatchID:		QC1201855
Total Organic Carbon (TOC)	**7.05**	1	0.091	1	mg/L		05/09/19	WW	
Method: SM 5540-C	Prep Method: Method						QCBatchID:		QC1201827
MBAS	**6.4**	12.5	0.0875	0.5	mg/L	05/09/19 10:30	05/09/19 20:55	NP	
Method: sm 9223-B-b	Prep Method: Method						QCBatchID:		QC1201779
Fecal Coliform	**32**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	
Total Coliform	**>2400**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	

Matrix:	Water	**Client:**	Rincon Consultants - Ventura	**Collector:**	Client
Sampled:	05/08/2019 13:15	**Site:**			
Sample #:	**415081-008**	**Client Sample #:**	MCWP-MW09	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALCH 4024	Prep Method: None						QCBatchID:		
Total Organic Nitrogen	**0.57**	1	0.04	0.5	mg/L		05/17/19	SLL	
Method: ALCH 4025	Prep Method: None						QCBatchID:		
Total Nitrogen	**1.34**	1	0.03	0.5	mg/L		05/17/19	SLL	
Method: EPA 1664A	Prep Method: Method						QCBatchID:		QC1202008
Total Oil and Grease	ND	1.05	1.47	5.25	mg/L	05/14/19	05/14/19	EC	
Method: EPA 200.7	Prep Method: EPA 200.7						QCBatchID:		QC1201789
Boron	**0.375**	1	0.03	0.05	mg/L	05/09/19	05/10/19	SBW	
Method: EPA 300.0	Prep Method: Method						QCBatchID:		QC1201842
Chloride	**399**	10	0.86	10	mg/L	05/10/19	05/10/19 09:06	JP	
Nitrate + Nitrite, as Nitrogen	**0.34**	1	0.018	0.1	mg/L	05/10/19	05/11/19 11:14	JP	T5
Nitrate, as Nitrogen	**0.34**	1	0.012	0.1	mg/L	05/10/19	05/11/19 11:14	JP	T5
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	05/10/19	05/09/19 22:18	JP	
Sulfate	**451**	10	0.77	10	mg/L	05/10/19	05/10/19 09:06	JP	
Method: EPA 351.2	Prep Method: Method						QCBatchID:		QC1201873
Total Kjeldahl Nitrogen	**1.0**	1	0.052	0.4	mg/L	05/09/19	05/10/19	TP	
Method: SM 2120-B	Prep Method: Method						QCBatchID:		QC1201782
Color	ND	1	5	5	Color Unit		05/08/19 17:30	WW	
Method: SM 2130-B	Prep Method: Method						QCBatchID:		QC1201784
Turbidity	**9.5**	1	0.074	0.1	NTU		05/08/19 17:30	WW	
Method: SM 2150-B	Prep Method: Method						QCBatchID:		QC1201783
Odor Threshold	ND	1	1	1	T.O.N		05/08/19 17:30	WW	
Method: SM 2540-C	Prep Method: Method						QCBatchID:		QC1201936
Total Dissolved Solids	**1480**	2	20	20	mg/L	05/13/19	05/14/19	WW	
Method: SM 2540-D	Prep Method: SM 2540-D						QCBatchID:		QC1201906
Total Suspended Solids	**17.7**	1.05	0.525	0.525	mg/L	05/11/19	05/11/19	TP	
Method: SM 4500-Cl	Prep Method: Method						QCBatchID:		QC1201805
Chlorine, Total Residual	ND	1	0.016	0.1	mg/L		05/08/19 18:30	WW	T2
Method: SM 4500-H+B	Prep Method: Method						QCBatchID:		QC1201943
pH	**7.28**	1			pH Units	05/08/19 16:02	05/08/19 18:36	CM	T2
Temp. at Time of pH Measurement	**14.7**	1			°C	05/08/19 16:02	05/08/19 18:36	CM	
Method: SM 4500-NH3-G	Prep Method: Method						QCBatchID:		QC1201922
Ammonia, as Nitrogen	**0.430**	1	0.01	0.1	mg/L	05/10/19	05/13/19	TP	
Method: SM 4500-P-B-5-E	Prep Method: 4500-P-B-5						QCBatchID:		QC1202067
Total Phosphorous as P	**0.046**	1	0.01	0.02	mg/L	05/16/19	05/16/19	TP	
Total Phosphorous as PO4	**0.141**	1	0.03	0.06	mg/L	05/16/19	05/16/19	TP	
Method: SM 5210-B	Prep Method: Method/5day						QCBatchID:		QC1201775
BOD	**13**	1	1.5	3	mg/L	05/08/19	05/08/19 18:36	WW	BQ2
Method: SM 5310B	Prep Method: Method						QCBatchID:		QC1201855
Total Organic Carbon (TOC)	**4.32**	1	0.091	1	mg/L		05/09/19	WW	
Method: SM 5540-C	Prep Method: Method						QCBatchID:		QC1201827
MBAS	**2.4**	5	0.035	0.2	mg/L	05/09/19 10:30	05/09/19 20:55	NP	
Method: sm 9223-B-b	Prep Method: Method						QCBatchID:		QC1201779
Fecal Coliform	**4.1**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	
Total Coliform	**360**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	

QCBatchID:	**QC1201775**	**Analyst:**	cmorales	**Method:**	SM 5210-B
Matrix:	Water	**Analyzed:**	05/08/2019	**Instrument:**	CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1201775MB1					
BOD	ND	mg/L	1.5	3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201775LCS1											
BOD	198		181		mg/L	91			84.6-115.4		

QCBatchID:	**QC1201782**	**Analyst:**	wei	**Method:**	SM 2120-B
Matrix:	Water	**Analyzed:**	05/08/2019	**Instrument:**	CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1201782DUP1						**Source: 415081-006**
Color	ND	ND	Color Unit	0.0	20	

QCBatchID:	**QC1201783**	**Analyst:**	wei	**Method:**	SM 2150-B
Matrix:	Water	**Analyzed:**	05/08/2019	**Instrument:**	CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1201783DUP1						**Source: 415081-006**
Odor Threshold	ND	ND	T.O.N	0.0	20	

QCBatchID:	**QC1201784**	**Analyst:**	wei	**Method:**	SM 2130-B
Matrix:	Water	**Analyzed:**	05/08/2019	**Instrument:**	CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1201784DUP1						**Source: 415081-006**
Turbidity	230	220	NTU	4.4	20	

QCBatchID: QC1201789 **Analyst:** dswafford **Method:** EPA 200.7

Matrix: Water **Analyzed:** 05/09/2019 **Instrument:** AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1201789MB1					
Boron	**0.034 J**	mg/L	0.03	0.05	
Cadmium	ND	mg/L	0.001	0.005	
Chromium	ND	mg/L	0.002	0.01	
Copper	**0.009 J**	mg/L	0.004	0.01	
Lead	ND	mg/L	0.005	0.01	
Nickel	ND	mg/L	0.003	0.01	
Silver	ND	mg/L	0.003	0.005	
Zinc	ND	mg/L	0.007	0.05	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201789LCS1											
Boron	2		1.93		mg/L	97			85-115		
Cadmium	2		1.83		mg/L	92			85-115		
Chromium	2		1.87		mg/L	94			85-115		
Copper	2		1.85		mg/L	93			85-115		
Lead	2		1.80		mg/L	90			85-115		
Nickel	2		1.77		mg/L	89			85-115		
Silver	2		1.80		mg/L	90			85-115		
Zinc	2		1.88		mg/L	94			85-115		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201789MS1												**Source: 415066-001**
Boron	15.6	1		17.9		mg/L	230			75-125		M
Cadmium	ND	1		0.940		mg/L	94			75-125		
Chromium	0.003	1		0.987		mg/L	98			75-125		
Copper	0.039	1		1.04		mg/L	100			75-125		
Lead	ND	1		0.897		mg/L	90			75-125		
Nickel	0.012	1		0.949		mg/L	94			75-125		
Silver	ND	1		0.944		mg/L	94			75-125		
Zinc	0.188	1		1.13		mg/L	94			75-125		
QC1201789MS2												**Source: 415070-001**
Boron	3.14	1		4.21		mg/L	107			75-125		
Cadmium	0.043	1		1.07		mg/L	103			75-125		
Chromium	0.097	1		1.10		mg/L	100			75-125		
Copper	ND	1		1.12		mg/L	112			75-125		
Lead	ND	1		0.955		mg/L	96			75-125		
Nickel	0.150	1		1.17		mg/L	102			75-125		
Silver	ND	1		0.987		mg/L	99			75-125		
Zinc	ND	1		1.27		mg/L	127			75-125		M

QCBatchID: QC1201805	**Analyst:** wei		**Method:** SM 4500-Cl		
Matrix: Water	**Analyzed:** 05/08/2019		**Instrument:** CHEM (group)		

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1201805MB1					
Chlorine, Total Residual	ND	mg/L	0.016	0.1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201805LCS1											
Chlorine, Total Residual	1		1.06		mg/L	106			80-120		

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1201805DUP1						**Source: 415074-002**
Chlorine, Total Residual	10.3	10.3	mg/L	0.0	20	

QCBatchID: QC1201827 **Analyst:** wei **Method:** SM 5540-C

Matrix: Water **Analyzed:** 05/09/2019 **Instrument:** CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1201827MB1					
MBAS	ND	mg/L	0.007	0.04	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201827LCS1											
MBAS	1		1.0		mg/L	100			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201827MS1, QC1201827MSD1												**Source: 415081-001**
MBAS	0.040	1	1	1.0	1.0	mg/L	96	96	0.0	75-125	20	

QCBatchID: QC1201842 **Analyst:** JParedes **Method:** EPA 300.0

Matrix: Water **Analyzed:** 05/10/2019 **Instrument:** AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1201842MB1					
Chloride	ND	mg/L	0.086	1	
Nitrate + Nitrite, as Nitrogen	ND	mg/L	0.018	0.1	
Nitrate, as Nitrogen	ND	mg/L	0.012	0.1	
Nitrite, as Nitrogen	ND	mg/L	0.018	0.1	
Sulfate	ND	mg/L	0.077	1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1201842LCS1											
Chloride	100		104		mg/L	104			90-110		
Nitrate, as Nitrogen	9.03		9.04		mg/L	100			90-110		
Nitrite, as Nitrogen	9.15		9.32		mg/L	102			90-110		
Sulfate	50		49.1		mg/L	98			90-110		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
		MS	MSD	MS	MSD		MS	MSD		%Rec	RPD	
QC1201842MS1, QC1201842MSD1												**Source: 415081-001**
Chloride	105	100	100	202	205	mg/L	97	100	1.5	80-120	20	
Nitrate, as Nitrogen	6.19	9.03	9.03	15.3	15.1	mg/L	101	99	1.3	80-120	20	
Nitrite, as Nitrogen	ND	9.15	9.15	9.55	9.45	mg/L	104	103	1.1	80-120	20	
Sulfate	95.2	50	50	144	141	mg/L	98	92	2.1	80-120	20	

QCBatchID: QC1201855 **Analyst:** wei **Method:** SM 5310B

Matrix: Water **Analyzed:** 05/09/2019 **Instrument:** CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1201855MB1					
Total Organic Carbon (TOC)	ND	mg/L	0.091	0.3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201855LCS1											
Total Organic Carbon (TOC)	10		9.62		mg/L	96			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201855MS1, QC1201855MSD1												**Source: 414912-001**
Total Organic Carbon (TOC)	5.99	20	20	24.4	25.1	mg/L	92	96	2.8	80-120	20	

QCBatchID: QC1201873 **Analyst:** trinh **Method:** EPA 351.2

Matrix: Water **Analyzed:** 05/10/2019 **Instrument:** CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1201873MB1					
Total Kjeldahl Nitrogen	ND	mg/L	0.052	0.4	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201873LCS1											
Total Kjeldahl Nitrogen	2.5		2.6		mg/L	104			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201873MS1, QC1201873MSD1												**Source: 415081-001**
Total Kjeldahl Nitrogen	0.215	12.5	12.5	12	12	mg/L	94	94	0.0	80-120	20	

QCBatchID: QC1201906	**Analyst:** trinh		**Method:** SM 2540-D		
Matrix: Water	**Analyzed:** 05/11/2019		**Instrument:** CHEM (group)		

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1201906MB1					
Total Suspended Solids	ND	mg/L	0.5	0.5	

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1201906DUP1						**Source: 414982-003**
Total Suspended Solids	325	326	mg/L	0.3	5	

QCBatchID: QC1201921 **Analyst:** trinh **Method:** SM 4500-NH3-G

Matrix: Water **Analyzed:** 05/13/2019 **Instrument:** CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1201921MB1					
Ammonia, as Nitrogen	ND	mg/L	0.01	0.1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201921LCS1											
Ammonia, as Nitrogen	5		5.06		mg/L	101			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201921MS1, QC1201921MSD1												**Source: 415042-001**
Ammonia, as Nitrogen	ND	5	5	5.90	5.90	mg/L	118	118	0.0	80-120	20	

QCBatchID: QC1201922 **Analyst:** trinh **Method:** SM 4500-NH3-G

Matrix: Water **Analyzed:** 05/13/2019 **Instrument:** CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1201922MB1					
Ammonia, as Nitrogen	ND	mg/L	0.01	0.1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201922LCS1											
Ammonia, as Nitrogen	5		5.09		mg/L	102			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201922MS1, QC1201922MSD1												**Source: 415086-001**
Ammonia, as Nitrogen	0.043	5	5	5.66	5.67	mg/L	112	113	0.2	80-120	20	

QCBatchID: QC1201936 **Analyst:** npham **Method:** SM 2540-C

Matrix: Water **Analyzed:** 05/14/2019 **Instrument:** CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1201936MB1					
Total Dissolved Solids	ND	mg/L	10	10	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201936LCS1											
Total Dissolved Solids	1000		1000		mg/L	100			90-110		

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1201936DUP1						**Source: 415081-005**
Total Dissolved Solids	5150	4950	mg/L	4.0	5	

QCBatchID:	QC1201943	**Analyst:**	cmorales	**Method:**	SM 4500-H+B
Matrix:	Water	**Analyzed:**	05/08/2019	**Instrument:**	CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1201943DUP1						**Source: 414986-002**
pH	7.67	7.66	pH Units	0.1	20	
Temp. at Time of pH Measurement	15.1	15.1	°C	0.0	20	
QC1201943DUP2						**Source: 415081-008**
pH	7.28	7.27	pH Units	0.1	20	
Temp. at Time of pH Measurement	14.7	14.7	°C	0.0	20	

QCBatchID: QC1202008 **Analyst:** npham **Method:** EPA 1664A

Matrix: Water **Analyzed:** 05/14/2019 **Instrument:** CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1202008MB1					
Non-Polar Oil and Grease	ND	mg/L	0.8	5	
Total Oil and Grease	ND	mg/L	1.4	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1202008LCS1, QC1202008LCSD1											
Non-Polar Oil and Grease	20	20	17.3	16.3	mg/L	87	82	6	64-132	34	
Total Oil and Grease	40	40	33.7	35.3	mg/L	84	88	5	78-114	18	

QCBatchID: QC1202067 **Analyst:** trinh **Method:** SM 4500-P-B-5-E

Matrix: Water **Analyzed:** 05/16/2019 **Instrument:** CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1202067MB1					
Total Phosphorous as P	ND	mg/L	0.01	0.02	
Total Phosphorous as PO4	ND	mg/L	0.03	0.06	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1202067LCS1											
Total Phosphorous as P	0.4		0.417		mg/L	104			80-120		
Total Phosphorous as PO4	1.23		1.278		mg/L	104			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1202067MS1, QC1202067MSD1												**Source: 415081-001**
Total Phosphorous as P	1.800	0.8	0.8	2.54	2.54	mg/L	93	93	0.0	75-125	20	
Total Phosphorous as PO4	5.52	2.46	2.46	7.77	7.79	mg/L	91	92	0.3	75-125	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
BQ4	Minor Dissolved Oxygen loss was observed in the blank water check, however, the LCS was within criteria, validating the batch.
BQ5	Minor Dissolved Oxygen loss was observed in the blank water check.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
D3	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
IR	Inconclusive Result. Legionella is present, however, there is possible non-specific agglutination preventing specific identification.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
L2	LCS did not meet recovery criteria, however, the MS and/or MSD met LCS recovery criteria, validating the batch.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
P3	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
931 W. Barkley Ave., Orange, CA 92868	Lab No: 415081	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 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants	Name:	Malibu - Quarterly/Semi-Annual
Report To:	Kiernan Brtalik	Number:	
Email:	KBRTALIK@RinconConsultants.com	P.O. #:	
Address:	180 N. Ashwood Ave.	Address:	180 N. ASHWOOD
	Ventura, CA 93003		VENTURA CA.
Phone:	805-644-4455	Global ID:	
Cell:		Sampled By:	P. DORAN N. NAVARRO

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	5.8.19	1015	W	Poly/Glass	VARIOUS	X	X	X	X	X	X	X	X	
SMBRP-9	5.8.19	0945				X	X	X	X	X	X	X	X	
SMBRP-11	5.8.19	1100				X	X	X	X	X	X	X	X	
SMBRP-12	5.8.19	~~15~~ 1330				X	X	X	X	X	X	X	X	
MCWP-MW04S	5.8.19	1105				X	X	X	X	X	X	X	X	
~~MCWP-MW04D~~						~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	DD
MCWP-MW07S	5.8.19	1230	W	Poly/Glass	VARIOUS	X	X	X	X	X	X	X	X	
MCWP-MW07D	5.8.19	1220				X	X	X	X	X	X	X	X	
MCWP-MW09	5.8.19	1315				X	X	X	X	X	X	X	X	

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		PETER DORAN	Rincon/ENV. SCI.	5.8.19 / 1345
[1] Received By:		Kevin Wan	Enthalpy	5/8/19 1345
[2] Relinquished By:		Ken S	Enthalpy	5/8/19 1635
[2] Received By:		Catherman	EA	05/08/19 1635
[3] Relinquished By:				

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Project: Malibu - Quarterly / Semi Annual

Date Received: 5/8/19 Sampler's Name Present: [X] 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: 13.1 #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: 0.1 #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: 05/08/19

Enthalpy Analytical, LLC
931 W. Barkley Ave - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.enthalpy.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client: Rincon Consultants - Ventura
Address: 180 North Ashwood Ave.
Ventura, CA 93003

Attn: Kiernan Brtalik

Comments: Malibu - Quarterly - Surface Water
15-01587

Lab Request: 415083
Report Date: 05/17/2019
Date Received: 05/08/2019
Client ID: 15888

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
415083-001	N-001
415083-002	N-002
415083-003	N-003
415083-004	N-004
415083-005	L-001
415083-006	L-002
415083-007	L-003
415083-008	L-004
415083-009	L-005
415083-010	L-006

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Ranjit K. K. Clarke

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date received.

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Matrix: Water **Client:** Rincon Consultants - Ventura **Collector:** Client
Sampled: 05/08/2019 11:00 **Site:**
Sample #: 415083-001 **Client Sample #:** N-001 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALCH 4024 Prep Method: None							QCBatchID:		
Total Organic Nitrogen	ND	1	0.04	0.5	mg/L		05/16/19	SLL	
Method: EPA 300.0 Prep Method: Method							QCBatchID:		QC1201861
Nitrate, as Nitrogen	ND	50	0.6	5	mg/L	05/09/19	05/09/19 22:45	JP	D2
Nitrite, as Nitrogen	ND	50	0.9	5	mg/L	05/09/19	05/09/19 22:45	JP	D2
Method: EPA 351.2 Prep Method: Method							QCBatchID:		QC1201879
Total Kjeldahl Nitrogen	**0.054 J**	1	0.052	0.4	mg/L	05/09/19	05/10/19	TP	J
Method: SM 4500-NH3-G Prep Method: Method							QCBatchID:		QC1201922
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	05/10/19	05/13/19	TP	
Method: SM 4500-P-B-5-E Prep Method: 4500-P-B-5							QCBatchID:		QC1202067
Total Phosphorous as P	**0.198**	1	0.01	0.02	mg/L	05/16/19	05/16/19	TP	
Total Phosphorous as PO4	**0.607**	1	0.03	0.06	mg/L	05/16/19	05/16/19	TP	
Method: sm 9223-B-b Prep Method: Method							QCBatchID:		QC1201779
Fecal Coliform	**1.0**	1			MPN/100ml	05/08/19 17:00	05/09/19	CO	
Total Coliform	**100**	1			MPN/100ml	05/08/19 17:00	05/09/19	CO	

Matrix: Water **Client:** Rincon Consultants - Ventura **Collector:** Client
Sampled: 05/08/2019 11:15 **Site:**
Sample #: 415083-002 **Client Sample #:** N-002 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALCH 4024 Prep Method: None							QCBatchID:		
Total Organic Nitrogen	ND	1	0.04	0.5	mg/L		05/16/19	SLL	
Method: EPA 300.0 Prep Method: Method							QCBatchID:		QC1201861
Nitrate, as Nitrogen	ND	50	0.6	5	mg/L	05/09/19	05/09/19 23:12	JP	D2
Nitrite, as Nitrogen	ND	50	0.9	5	mg/L	05/09/19	05/09/19 23:12	JP	D2
Method: EPA 351.2 Prep Method: Method							QCBatchID:		QC1201879
Total Kjeldahl Nitrogen	ND	1	0.052	0.4	mg/L	05/09/19	05/10/19	TP	
Method: SM 4500-NH3-G Prep Method: Method							QCBatchID:		QC1201922
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	05/10/19	05/13/19	TP	
Method: SM 4500-P-B-5-E Prep Method: 4500-P-B-5							QCBatchID:		QC1202067
Total Phosphorous as P	**0.105**	1	0.01	0.02	mg/L	05/16/19	05/16/19	TP	
Total Phosphorous as PO4	**0.322**	1	0.03	0.06	mg/L	05/16/19	05/16/19	TP	
Method: sm 9223-B-b Prep Method: Method							QCBatchID:		QC1201779
Fecal Coliform	**6.3**	1			MPN/100ml	05/08/19 17:00	05/09/19	CO	
Total Coliform	**650**	1			MPN/100ml	05/08/19 17:00	05/09/19	CO	

Matrix: Water **Client:** Rincon Consultants - Ventura **Collector:** Client
Sampled: 05/08/2019 11:30 **Site:**
Sample #: 415083-003 **Client Sample #:** N-003 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALCH 4024 Prep Method: None							QCBatchID:		
Total Organic Nitrogen	ND	1	0.04	0.5	mg/L		05/16/19	SLL	
Method: EPA 300.0 Prep Method: Method							QCBatchID:		QC1201861
Nitrate, as Nitrogen	ND	50	0.6	5	mg/L	05/09/19	05/09/19 23:39	JP	D2
Nitrite, as Nitrogen	ND	50	0.9	5	mg/L	05/09/19	05/09/19 23:39	JP	D2
Method: EPA 351.2 Prep Method: Method							QCBatchID:		QC1201879
Total Kjeldahl Nitrogen	ND	1	0.052	0.4	mg/L	05/09/19	05/10/19	TP	
Method: SM 4500-NH3-G Prep Method: Method							QCBatchID:		QC1201922
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	05/10/19	05/13/19	TP	
Method: SM 4500-P-B-5-E Prep Method: 4500-P-B-5							QCBatchID:		QC1202067
Total Phosphorous as P	**0.060**	1	0.01	0.02	mg/L	05/16/19	05/16/19	TP	
Total Phosphorous as PO4	**0.184**	1	0.03	0.06	mg/L	05/16/19	05/16/19	TP	
Method: sm 9223-B-b Prep Method: Method							QCBatchID:		QC1201779
Fecal Coliform	**1.0**	1			MPN/100ml	05/08/19 17:00	05/09/19	CO	
Total Coliform	**770**	1			MPN/100ml	05/08/19 17:00	05/09/19	CO	

Matrix: Water **Client:** Rincon Consultants - Ventura **Collector:** Client
Sampled: 05/08/2019 10:20 **Site:**
Sample #: 415083-004 **Client Sample #:** N-004 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALCH 4024 Prep Method: None							QCBatchID:		
Total Organic Nitrogen	ND	1	0.04	0.5	mg/L		05/16/19	SLL	
Method: EPA 300.0 Prep Method: Method							QCBatchID:		QC1201861
Nitrate, as Nitrogen	ND	50	0.6	5	mg/L	05/09/19	05/10/19 00:06	JP	D2
Nitrite, as Nitrogen	ND	50	0.9	5	mg/L	05/09/19	05/10/19 00:06	JP	D2
Method: EPA 351.2 Prep Method: Method							QCBatchID:		QC1201879
Total Kjeldahl Nitrogen	ND	1	0.052	0.4	mg/L	05/09/19	05/10/19	TP	
Method: SM 4500-NH3-G Prep Method: Method							QCBatchID:		QC1201922
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	05/10/19	05/13/19	TP	
Method: SM 4500-P-B-5-E Prep Method: 4500-P-B-5							QCBatchID:		QC1202067
Total Phosphorous as P	**0.152**	1	0.01	0.02	mg/L	05/16/19	05/16/19	TP	
Total Phosphorous as PO4	**0.466**	1	0.03	0.06	mg/L	05/16/19	05/16/19	TP	
Method: sm 9223-B-b Prep Method: Method							QCBatchID:		QC1201779
Fecal Coliform	**<1**	1			MPN/100ml	05/08/19 17:00	05/09/19	CO	
Total Coliform	**870**	1			MPN/100ml	05/08/19 17:00	05/09/19	CO	

Matrix: Water **Client:** Rincon Consultants - Ventura **Collector:** Client
Sampled: 05/08/2019 12:00 **Site:**
Sample #: 415083-005 **Client Sample #:** L-001 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALCH 4024 Prep Method: None							QCBatchID:		
Total Organic Nitrogen	**0.30 J**	1	0.04	0.5	mg/L		05/16/19	SLL	
Method: EPA 300.0 Prep Method: Method							QCBatchID:		QC1201861
Nitrate, as Nitrogen	**0.16**	1	0.012	0.1	mg/L	05/09/19	05/11/19 09:24	JP	T5
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	05/09/19	05/10/19 00:33	JP	
Method: EPA 351.2 Prep Method: Method							QCBatchID:		QC1201879
Total Kjeldahl Nitrogen	**0.295 J**	1	0.052	0.4	mg/L	05/09/19	05/10/19	TP	J
Method: SM 4500-NH3-G Prep Method: Method							QCBatchID:		QC1201922
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	05/10/19	05/13/19	TP	
Method: SM 4500-P-B-5-E Prep Method: 4500-P-B-5							QCBatchID:		QC1202067
Total Phosphorous as P	**0.253**	1	0.01	0.02	mg/L	05/16/19	05/16/19	TP	
Total Phosphorous as PO4	**0.776**	1	0.03	0.06	mg/L	05/16/19	05/16/19	TP	
Method: sm 9223-B-b Prep Method: Method							QCBatchID:		QC1201779
Fecal Coliform	**30**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	
Total Coliform	**2000**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	

Matrix: Water **Client:** Rincon Consultants - Ventura **Collector:** Client
Sampled: 05/08/2019 12:35 **Site:**
Sample #: 415083-006 **Client Sample #:** L-002 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALCH 4024 Prep Method: None							QCBatchID:		
Total Organic Nitrogen	**0.27 J**	1	0.04	0.5	mg/L		05/16/19	SLL	
Method: EPA 300.0 Prep Method: Method							QCBatchID:		QC1201861
Nitrate, as Nitrogen	**0.36**	1	0.012	0.1	mg/L	05/09/19	05/11/19 09:52	JP	T5
Nitrite, as Nitrogen	ND	10	0.18	1	mg/L	05/09/19	05/10/19 09:33	JP	D2
Method: EPA 351.2 Prep Method: Method							QCBatchID:		QC1201879
Total Kjeldahl Nitrogen	**0.266 J**	1	0.052	0.4	mg/L	05/09/19	05/10/19	TP	J
Method: SM 4500-NH3-G Prep Method: Method							QCBatchID:		QC1201922
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	05/10/19	05/13/19	TP	
Method: SM 4500-P-B-5-E Prep Method: 4500-P-B-5							QCBatchID:		QC1202067
Total Phosphorous as P	**0.255**	1	0.01	0.02	mg/L	05/16/19	05/16/19	TP	
Total Phosphorous as PO4	**0.782**	1	0.03	0.06	mg/L	05/16/19	05/16/19	TP	
Method: sm 9223-B-b Prep Method: Method							QCBatchID:		QC1201779
Fecal Coliform	**29**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	
Total Coliform	**>2400**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	

Matrix: Water **Client:** Rincon Consultants - Ventura **Collector:** Client
Sampled: 05/08/2019 12:10 **Site:**
Sample #: 415083-007 **Client Sample #:** L-003 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALCH 4024 Prep Method: None							QCBatchID:		
Total Organic Nitrogen	**0.55**	1	0.04	0.5	mg/L		05/16/19	SLL	
Method: EPA 300.0 Prep Method: Method							QCBatchID: QC1201861		
Nitrate, as Nitrogen	**0.15**	1	0.012	0.1	mg/L	05/09/19	05/11/19 10:19	JP	T5
Nitrite, as Nitrogen	ND	10	0.18	1	mg/L	05/09/19	05/10/19 10:00	JP	D2
Method: EPA 351.2 Prep Method: Method							QCBatchID: QC1201879		
Total Kjeldahl Nitrogen	**0.548**	1	0.052	0.4	mg/L	05/09/19	05/10/19	TP	
Method: SM 4500-NH3-G Prep Method: Method							QCBatchID: QC1201922		
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	05/10/19	05/13/19	TP	
Method: SM 4500-P-B-5-E Prep Method: 4500-P-B-5							QCBatchID: QC1202067		
Total Phosphorous as P	**0.245**	1	0.01	0.02	mg/L	05/16/19	05/16/19	TP	
Total Phosphorous as PO4	**0.751**	1	0.03	0.06	mg/L	05/16/19	05/16/19	TP	
Method: sm 9223-B-b Prep Method: Method							QCBatchID: QC1201779		
Fecal Coliform	**30**	1			MPN/100ml	05/08/19 17:00	05/09/19	CO	
Total Coliform	**>2400**	1			MPN/100ml	05/08/19 17:00	05/09/19	CO	

Matrix: Water **Client:** Rincon Consultants - Ventura **Collector:** Client
Sampled: 05/08/2019 11:45 **Site:**
Sample #: 415083-008 **Client Sample #:** L-004 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALCH 4024 Prep Method: None							QCBatchID:		
Total Organic Nitrogen	**0.37 J**	1	0.04	0.5	mg/L		05/16/19	SLL	
Method: EPA 300.0 Prep Method: Method							QCBatchID: QC1201861		
Nitrate, as Nitrogen	**0.06 J**	1	0.012	0.1	mg/L	05/09/19	05/11/19 05:44	JP	J,T5
Nitrite, as Nitrogen	ND	20	0.36	2	mg/L	05/09/19	05/10/19 10:27	JP	D2
Method: EPA 351.2 Prep Method: Method							QCBatchID: QC1201879		
Total Kjeldahl Nitrogen	**0.370 J**	1	0.052	0.4	mg/L	05/09/19	05/10/19	TP	J
Method: SM 4500-NH3-G Prep Method: Method							QCBatchID: QC1201922		
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	05/10/19	05/13/19	TP	
Method: SM 4500-P-B-5-E Prep Method: 4500-P-B-5							QCBatchID: QC1202067		
Total Phosphorous as P	**0.153**	1	0.01	0.02	mg/L	05/16/19	05/16/19	TP	
Total Phosphorous as PO4	**0.469**	1	0.03	0.06	mg/L	05/16/19	05/16/19	TP	
Method: sm 9223-B-b Prep Method: Method							QCBatchID: QC1201779		
Fecal Coliform	**61**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	
Total Coliform	**>2400**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	

Matrix: Water **Client:** Rincon Consultants - Ventura **Collector:** Client
Sampled: 05/08/2019 12:20 **Site:**
Sample #: 415083-009 **Client Sample #:** L-005 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALCH 4024	Prep Method: None						QCBatchID:		
Total Organic Nitrogen	**0.21 J**	1	0.04	0.5	mg/L		05/16/19	SLL	
Method: EPA 300.0	Prep Method: Method						QCBatchID:		QC1201861
Nitrate, as Nitrogen	**0.20**	1	0.012	0.1	mg/L	05/09/19	05/10/19 12:15	JP	
Nitrite, as Nitrogen	ND	10	0.18	1	mg/L	05/09/19	05/10/19 11:21	JP	D2
Method: EPA 351.2	Prep Method: Method						QCBatchID:		QC1201879
Total Kjeldahl Nitrogen	**0.208 J**	1	0.052	0.4	mg/L	05/09/19	05/10/19	TP	J
Method: SM 4500-NH3-G	Prep Method: Method						QCBatchID:		QC1201922
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	05/10/19	05/13/19	TP	
Method: SM 4500-P-B-5-E	Prep Method: 4500-P-B-5						QCBatchID:		QC1202067
Total Phosphorous as P	**0.242**	1	0.01	0.02	mg/L	05/16/19	05/16/19	TP	
Total Phosphorous as PO4	**0.742**	1	0.03	0.06	mg/L	05/16/19	05/16/19	TP	
Method: sm 9223-B-b	Prep Method: Method						QCBatchID:		QC1201779
Fecal Coliform	**56**	1			MPN/100ml	05/08/19 17:00	05/09/19	CO	
Total Coliform	**>2400**	1			MPN/100ml	05/08/19 17:00	05/09/19	CO	

Matrix: Water **Client:** Rincon Consultants - Ventura **Collector:** Client
Sampled: 05/08/2019 11:40 **Site:**
Sample #: 415083-010 **Client Sample #:** L-006 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALCH 4024	Prep Method: None						QCBatchID:		
Total Organic Nitrogen	**3.70**	1	0.04	0.5	mg/L		05/16/19	SLL	
Method: EPA 300.0	Prep Method: Method						QCBatchID:		QC1201861
Nitrate, as Nitrogen	**0.07 J**	1	0.012	0.1	mg/L	05/09/19	05/11/19 08:57	JP	J,T5
Nitrite, as Nitrogen	ND	20	0.36	2	mg/L	05/09/19	05/10/19 10:54	JP	D2
Method: EPA 351.2	Prep Method: Method						QCBatchID:		QC1201879
Total Kjeldahl Nitrogen	**3.7**	1	0.052	0.4	mg/L	05/09/19	05/10/19	TP	
Method: SM 4500-NH3-G	Prep Method: Method						QCBatchID:		QC1201922
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	05/10/19	05/13/19	TP	
Method: SM 4500-P-B-5-E	Prep Method: 4500-P-B-5						QCBatchID:		QC1202067
Total Phosphorous as P	**0.631**	1	0.01	0.02	mg/L	05/16/19	05/16/19	TP	
Total Phosphorous as PO4	**1.935**	1	0.03	0.06	mg/L	05/16/19	05/16/19	TP	
Method: sm 9223-B-b	Prep Method: Method						QCBatchID:		QC1201779
Fecal Coliform	**1300**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	
Total Coliform	**>2400**	1			MPN/100ml	05/08/19 17:00	05/09/19	LH	

QCBatchID: QC1201861 **Analyst:** JParedes **Method:** EPA 300.0

Matrix: Water **Analyzed:** 05/09/2019 **Instrument:** AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1201861MB1					
Chloride	ND	mg/L	0.086	1	
Nitrate + Nitrite, as Nitrogen	ND	mg/L	0.018	0.1	
Nitrate, as Nitrogen	ND	mg/L	0.012	0.1	
Nitrate, as NO3	ND	mg/L	0.053	0.44	
Nitrite, as Nitrogen	ND	mg/L	0.018	0.1	
Sulfate	ND	mg/L	0.077	1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201861LCS1											
Chloride	100		102		mg/L	102			90-110		
Nitrate, as Nitrogen	9.03		8.81		mg/L	98			90-110		
Nitrate, as NO3	40		39.0		mg/L	98			90-110		
Nitrite, as Nitrogen	9.15		9.31		mg/L	102			90-110		
Sulfate	50		48.0		mg/L	96			90-110		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201861MS1, QC1201861MSD1												**Source: 415124-001**
Chloride	12.5	100	100	114	113	mg/L	102	101	0.9	80-120	20	
Nitrate, as Nitrogen	1.59	9.03	9.03	10.3	10.3	mg/L	96	96	0.0	80-120	20	
Nitrate, as NO3	7.06	40	40	45.5	45.6	mg/L	96	96	0.2	80-120	20	
Nitrite, as Nitrogen	ND	9.15	9.15	9.14	9.23	mg/L	100	101	1.0	80-120	20	
Sulfate	18.7	50	50	66.3	66.9	mg/L	95	96	0.9	80-120	20	
QC1201861MS2, QC1201861MSD2												**Source: 415124-002**
Chloride	12.0	100	100	118	113	mg/L	106	101	4.3	80-120	20	
Nitrate, as Nitrogen	1.03	9.03	9.03	9.63	9.73	mg/L	95	96	1.0	80-120	20	
Nitrate, as NO3	4.58	40	40	42.6	43.1	mg/L	95	96	1.2	80-120	20	
Nitrite, as Nitrogen	ND	9.15	9.15	9.85	9.19	mg/L	108	100	6.9	80-120	20	
Sulfate	12.2	50	50	59.1	59.7	mg/L	94	95	1.0	80-120	20	

QCBatchID: QC1201879 **Analyst:** trinh **Method:** EPA 351.2

Matrix: Water **Analyzed:** 05/10/2019 **Instrument:** CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1201879MB1					
Total Kjeldahl Nitrogen	ND	mg/L	0.052	0.4	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201879LCS1											
Total Kjeldahl Nitrogen	2.5		2.6		mg/L	104			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201879MS1, QC1201879MSD1												**Source: 415083-007**
Total Kjeldahl Nitrogen	0.548	12.5	12.5	12	12	mg/L	92	92	0.0	80-120	20	

QCBatchID: QC1201922 **Analyst:** trinh **Method:** SM 4500-NH3-G

Matrix: Water **Analyzed:** 05/13/2019 **Instrument:** CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1201922MB1					
Ammonia, as Nitrogen	ND	mg/L	0.01	0.1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201922LCS1											
Ammonia, as Nitrogen	5		5.09		mg/L	102			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201922MS1, QC1201922MSD1												**Source: 415086-001**
Ammonia, as Nitrogen	0.043	5	5	5.66	5.67	mg/L	112	113	0.2	80-120	20	

QCBatchID: QC1202067 **Analyst:** trinh **Method:** SM 4500-P-B-5-E

Matrix: Water **Analyzed:** 05/16/2019 **Instrument:** CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1202067MB1					
Total Phosphorous as P	ND	mg/L	0.01	0.02	
Total Phosphorous as PO4	ND	mg/L	0.03	0.06	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1202067LCS1											
Total Phosphorous as P	0.4		0.417		mg/L	104			80-120		
Total Phosphorous as PO4	1.23		1.278		mg/L	104			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1202067MS1, QC1202067MSD1												**Source: 415081-001**
Total Phosphorous as P	1.800	0.8	0.8	2.54	2.54	mg/L	93	93	0.0	75-125	20	
Total Phosphorous as PO4	5.52	2.46	2.46	7.77	7.79	mg/L	91	92	0.3	75-125	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
BQ4	Minor Dissolved Oxygen loss was observed in the blank water check, however, the LCS was within criteria, validating the batch.
BQ5	Minor Dissolved Oxygen loss was observed in the blank water check.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
D3	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
IR	Inconclusive Result. Legionella is present, however, there is possible non-specific agglutination preventing specific identification.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
L2	LCS did not meet recovery criteria, however, the MS and/or MSD met LCS recovery criteria, validating the batch.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
P3	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record				Turn Around Time (Rush by advanced notice only)					
931 W. Barkley Ave., Orange, CA 92868	Lab No: 415083				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 - Quarterly/Semi-Annual
Report To:	Kiernan Brtalik	Number:	
Email:	KBrtalik@rinconconsultants.com	P.O. #:	
Address:	180 N. Ashwood Ave.	Address:	
	Ventura, CA 93003		
Phone:	(805) 644-4485	Global ID:	
Cell:		Sampled By:	Jaime McClain

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	5/8/19	1100	water	4		X	X	X	
N-002	5/8/19	1115				X	X	X	
N-003	5/8/19	1130				X	X	X	
N-004	5/8/19	1020				X	X	X	
L-001	5/8/19	1200				X	X	X	
L-002	5/8/19	1235				X	X	X	
L-003	5/8/19	1210				X	X	X	
L-004	5/8/19	1145				X	X	X	
L-005	5/8/19	1220				X	X	X	
L-006	5/8/19	1140				X	X	X	

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Jaime McClain	Rincon consultants	5/8/19 / 1:28
[1] Received By:		Kevin Nguyen	Enthalpy	5/8/19 1330
[2] Relinquished By:			Enthalpy	5/8/19 1635
[2] Received By:		Heathermadden	EA	05/08/19 1635
[3] Relinquished By:				
[3] Received By:				

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon

Project: Malibu - Quarterly / Semi Annual

Date Received: 5/8/19

Sampler's Name Present: [X] 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: 13.1 #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: 0.1 #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: 05/08/19

Enthalpy Analytical, LLC
931 W. Barkley Ave - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.enthalpy.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client: Rincon Consultants - Ventura
Address: 180 North Ashwood Ave.
Ventura, CA 93003

Attn: Kiernan Brtalik

Comments: Malibu - Quarterly - Ground Water
15-01587

Lab Request: 415118
Report Date: 05/17/2019
Date Received: 05/09/2019
Client ID: 15888

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
415118-001	MCWP-MW04D

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Ranjit K. K. Clarke

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date received.

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Matrix:	Water	**Client:**	Rincon Consultants - Ventura	**Collector:**	Client
Sampled:	05/09/2019 12:15	**Site:**			
Sample #:	**415118-001**	**Client Sample #:**	MCWP-MW04D	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALCH 4024	Prep Method: None						QCBatchID:		
Total Organic Nitrogen	**0.10 J**	1	0.04	0.5	mg/L		05/17/19	SLL	J
Method: ALCH 4025	Prep Method: None						QCBatchID:		
Total Nitrogen	**1.56**	1	0.03	0.5	mg/L		05/17/19	SLL	
Method: EPA 1664A	Prep Method: Method						QCBatchID:		QC1202008
Total Oil and Grease	ND	1.05	1.47	5.25	mg/L	05/14/19	05/14/19	EC	
Method: EPA 200.7	Prep Method: EPA 200.7						QCBatchID:		QC1201854
Boron	**0.600**	1	0.03	0.05	mg/L	05/10/19	05/10/19	SBW	
Method: EPA 300.0	Prep Method: Method						QCBatchID:		QC1201861
Chloride	**176**	1	0.086	1	mg/L	05/09/19	05/10/19 14:30	JP	
Nitrate + Nitrite, as Nitrogen	**1.46**	1	0.018	0.1	mg/L	05/09/19	05/10/19 14:30	JP	
Nitrate, as Nitrogen	**1.46**	1	0.012	0.1	mg/L	05/09/19	05/10/19 14:30	JP	
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	05/09/19	05/10/19 14:30	JP	
Sulfate	**458**	10	0.77	10	mg/L	05/09/19	05/11/19 05:17	JP	
Method: EPA 351.2	Prep Method: Method						QCBatchID:		QC1201873
Total Kjeldahl Nitrogen	**0.099 J**	1	0.052	0.4	mg/L	05/09/19	05/10/19	TP	J
Method: SM 2120-B	Prep Method: Method						QCBatchID:		QC1201835
Color	ND	1	5	5	Color Unit		05/09/19 18:50	WW	
Method: SM 2130-B	Prep Method: Method						QCBatchID:		QC1201837
Turbidity	**10**	1	0.074	0.1	NTU		05/09/19 18:50	WW	
Method: SM 2150-B	Prep Method: Method						QCBatchID:		QC1201836
Odor Threshold	ND	1	1	1	T.O.N		05/09/19 18:50	WW	
Method: SM 2540-C	Prep Method: Method						QCBatchID:		QC1201935
Total Dissolved Solids	**1270**	2	20	20	mg/L	05/13/19	05/14/19	WW	
Method: SM 2540-D	Prep Method: SM 2540-D						QCBatchID:		QC1201907
Total Suspended Solids	**10.9**	1.05	0.525	0.525	mg/L	05/11/19	05/11/19	TP	
Method: SM 4500-Cl	Prep Method: Method						QCBatchID:		QC1201863
Chlorine, Total Residual	ND	1	0.016	0.1	mg/L		05/10/19 11:12	WW	T2
Method: SM 4500-H+B	Prep Method: Method						QCBatchID:		QC1201944
pH	**7.56**	1			pH Units	05/10/19 07:13	05/10/19 07:13	CM	T2
Temp. at Time of pH Measurement	**7.8**	1			°C	05/10/19 07:13	05/10/19 07:13	CM	
Method: SM 4500-NH3-G	Prep Method: Method						QCBatchID:		QC1201921
Ammonia, as Nitrogen	ND	1	0.01	0.1	mg/L	05/10/19	05/13/19	TP	
Method: SM 4500-P-B-5-E	Prep Method: 4500-P-B-5						QCBatchID:		QC1202119
Total Phosphorous as P	**0.177**	1	0.01	0.02	mg/L	05/17/19	05/17/19	TP	
Total Phosphorous as PO4	**0.543**	1	0.03	0.06	mg/L	05/17/19	05/17/19	TP	
Method: SM 5210-B	Prep Method: Method/5day						QCBatchID:		QC1201870
BOD	ND	1	1.5	3	mg/L	05/10/19	05/10/19 07:13	TP	
Method: SM 5310B	Prep Method: Method						QCBatchID:		QC1202113
Total Organic Carbon (TOC)	**1.94**	1	0.091	1	mg/L		05/16/19	WW	
Method: SM 5540-C	Prep Method: Method						QCBatchID:		QC1201827
MBAS	**0.66**	1	0.007	0.04	mg/L	05/09/19 10:30	05/09/19 20:55	NP	
Method: sm 9223-B-b	Prep Method: Method						QCBatchID:		QC1201829
Fecal Coliform	**<1**	1			MPN/100ml	05/09/19 15:28	05/10/19	LH	
Total Coliform	**130**	1			MPN/100ml	05/09/19 15:28	05/10/19	LH	

QCBatchID: QC1201827 **Analyst:** wei **Method:** SM 5540-C

Matrix: Water **Analyzed:** 05/09/2019 **Instrument:** CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1201827MB1					
MBAS	ND	mg/L	0.007	0.04	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201827LCS1											
MBAS	1		1.0		mg/L	100			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201827MS1, QC1201827MSD1												**Source: 415081-001**
MBAS	0.040	1	1	1.0	1.0	mg/L	96	96	0.0	75-125	20	

QCBatchID:	**QC1201835**	**Analyst:**	wei	**Method:**	SM 2120-B
Matrix:	Water	**Analyzed:**	05/09/2019	**Instrument:**	CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1201835DUP1						**Source: 415118-001**
Color	ND	ND	Color Unit	0.0	20	

QCBatchID:	**QC1201836**	**Analyst:**	wei	**Method:**	SM 2150-B
Matrix:	Water	**Analyzed:**	05/09/2019	**Instrument:**	CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1201836DUP1						**Source: 415118-001**
Odor Threshold	ND	ND	T.O.N	0.0	20	

QCBatchID:	**QC1201837**	**Analyst:**	wei	**Method:**	SM 2130-B
Matrix:	Water	**Analyzed:**	05/09/2019	**Instrument:**	CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1201837DUP1						**Source: 415118-001**
Turbidity	10	10	NTU	0.0	20	

QCBatchID: QC1201854 **Analyst:** dswafford **Method:** EPA 200.7

Matrix: Water **Analyzed:** 05/10/2019 **Instrument:** AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1201854MB1					
Boron	ND	mg/L	0.03	0.05	
Cadmium	ND	mg/L	0.001	0.005	
Chromium	ND	mg/L	0.002	0.01	
Copper	ND	mg/L	0.004	0.01	
Lead	ND	mg/L	0.005	0.01	
Nickel	ND	mg/L	0.003	0.01	
Silver	ND	mg/L	0.003	0.005	
Zinc	ND	mg/L	0.007	0.05	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201854LCS1											
Boron	2		1.76		mg/L	88			85-115		
Cadmium	2		1.91		mg/L	96			85-115		
Chromium	2		1.79		mg/L	90			85-115		
Copper	2		1.81		mg/L	91			85-115		
Lead	2		1.84		mg/L	92			85-115		
Nickel	2		1.87		mg/L	94			85-115		
Silver	2		1.86		mg/L	93			85-115		
Zinc	2		1.94		mg/L	97			85-115		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201854MS1												**Source: 415118-001**
Boron	0.600	1		1.63		mg/L	103			75-125		
Cadmium	ND	1		0.933		mg/L	93			75-125		
Chromium	0.004	1		0.936		mg/L	93			75-125		
Copper	0.020	1		0.930		mg/L	91			75-125		
Lead	ND	1		0.832		mg/L	83			75-125		
Nickel	0.004	1		0.835		mg/L	83			75-125		
Silver	ND	1		1.08		mg/L	108			75-125		
Zinc	0.042	1		0.847		mg/L	81			75-125		

QCBatchID: QC1201861 **Analyst:** JParedes **Method:** EPA 300.0

Matrix: Water **Analyzed:** 05/09/2019 **Instrument:** AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1201861MB1					
Chloride	ND	mg/L	0.086	1	
Nitrate + Nitrite, as Nitrogen	ND	mg/L	0.018	0.1	
Nitrate, as Nitrogen	ND	mg/L	0.012	0.1	
Nitrate, as NO3	ND	mg/L	0.053	0.44	
Nitrite, as Nitrogen	ND	mg/L	0.018	0.1	
Sulfate	ND	mg/L	0.077	1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201861LCS1											
Chloride	100		102		mg/L	102			90-110		
Nitrate, as Nitrogen	9.03		8.81		mg/L	98			90-110		
Nitrate, as NO3	40		39.0		mg/L	98			90-110		
Nitrite, as Nitrogen	9.15		9.31		mg/L	102			90-110		
Sulfate	50		48.0		mg/L	96			90-110		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201861MS1, QC1201861MSD1												**Source: 415124-001**
Chloride	12.5	100	100	114	113	mg/L	102	101	0.9	80-120	20	
Nitrate, as Nitrogen	1.59	9.03	9.03	10.3	10.3	mg/L	96	96	0.0	80-120	20	
Nitrate, as NO3	7.06	40	40	45.5	45.6	mg/L	96	96	0.2	80-120	20	
Nitrite, as Nitrogen	ND	9.15	9.15	9.14	9.23	mg/L	100	101	1.0	80-120	20	
Sulfate	18.7	50	50	66.3	66.9	mg/L	95	96	0.9	80-120	20	
QC1201861MS2, QC1201861MSD2												**Source: 415124-002**
Chloride	12.0	100	100	118	113	mg/L	106	101	4.3	80-120	20	
Nitrate, as Nitrogen	1.03	9.03	9.03	9.63	9.73	mg/L	95	96	1.0	80-120	20	
Nitrate, as NO3	4.58	40	40	42.6	43.1	mg/L	95	96	1.2	80-120	20	
Nitrite, as Nitrogen	ND	9.15	9.15	9.85	9.19	mg/L	108	100	6.9	80-120	20	
Sulfate	12.2	50	50	59.1	59.7	mg/L	94	95	1.0	80-120	20	

QCBatchID: QC1201863 **Analyst:** wei **Method:** SM 4500-Cl

Matrix: Water **Analyzed:** 05/10/2019 **Instrument:** CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1201863MB1					
Chlorine, Total Residual	ND	mg/L	0.016	0.1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201863LCS1											
Chlorine, Total Residual	1		0.98		mg/L	98			80-120		

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1201863DUP1						**Source: 415124-001**
Chlorine, Total Residual	ND	ND	mg/L	0.0	20	

QCBatchID:	**QC1201870**	**Analyst:**	cmorales	**Method:**	SM 5210-B
Matrix:	Water	**Analyzed:**	05/10/2019	**Instrument:**	CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1201870MB1					
BOD	ND	mg/L	1.5	3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201870LCS1											
BOD	198		176		mg/L	89			84.6-115.4		

QCBatchID: QC1201873 **Analyst:** trinh **Method:** EPA 351.2

Matrix: Water **Analyzed:** 05/10/2019 **Instrument:** CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1201873MB1					
Total Kjeldahl Nitrogen	ND	mg/L	0.052	0.4	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201873LCS1											
Total Kjeldahl Nitrogen	2.5		2.6		mg/L	104			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201873MS1, QC1201873MSD1												**Source: 415081-001**
Total Kjeldahl Nitrogen	0.215	12.5	12.5	12	12	mg/L	94	94	0.0	80-120	20	

QCBatchID: QC1201907	**Analyst:** trinh		**Method:** SM 2540-D		
Matrix: Water	**Analyzed:** 05/11/2019		**Instrument:** CHEM (group)		

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1201907MB1					
Total Suspended Solids	ND	mg/L	0.5	0.5	

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1201907DUP1						**Source: 414983-004**
Total Suspended Solids	856	860	mg/L	0.5	5	

QCBatchID: QC1201921 **Analyst:** trinh **Method:** SM 4500-NH3-G

Matrix: Water **Analyzed:** 05/13/2019 **Instrument:** CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1201921MB1					
Ammonia, as Nitrogen	ND	mg/L	0.01	0.1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201921LCS1											
Ammonia, as Nitrogen	5		5.06		mg/L	101			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201921MS1, QC1201921MSD1												**Source: 415042-001**
Ammonia, as Nitrogen	ND	5	5	5.90	5.90	mg/L	118	118	0.0	80-120	20	

QCBatchID: QC1201935 **Analyst:** npham **Method:** SM 2540-C

Matrix: Water **Analyzed:** 05/14/2019 **Instrument:** CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1201935MB1					
Total Dissolved Solids	ND	mg/L	10	10	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1201935LCS1											
Total Dissolved Solids	1000		970		mg/L	97			90-110		

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1201935DUP1						**Source: 415129-001**
Total Dissolved Solids	2050	2000	mg/L	2.5	5	

QCBatchID:	**QC1201944**	**Analyst:**	cmorales	**Method:**	SM 4500-H+B
Matrix:	Water	**Analyzed:**	05/10/2019	**Instrument:**	CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1201944DUP1						**Source: 415118-001**
pH	7.56	7.60	pH Units	0.5	20	
Temp. at Time of pH Measurement	7.8	7.8	°C	0.0	20	

QCBatchID: QC1202008	**Analyst:** npham	**Method:** EPA 1664A	
Matrix: Water	**Analyzed:** 05/14/2019	**Instrument:** CHEM (group)	

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1202008MB1					
Non-Polar Oil and Grease	ND	mg/L	0.8	5	
Total Oil and Grease	ND	mg/L	1.4	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1202008LCS1, QC1202008LCSD1											
Non-Polar Oil and Grease	20	20	17.3	16.3	mg/L	87	82	6	64-132	34	
Total Oil and Grease	40	40	33.7	35.3	mg/L	84	88	5	78-114	18	

QCBatchID: QC1202113 **Analyst:** wei **Method:** SM 5310B

Matrix: Water **Analyzed:** 05/16/2019 **Instrument:** CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1202113MB1					
Total Organic Carbon (TOC)	ND	mg/L	0.091	1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1202113LCS1											
Total Organic Carbon (TOC)	10		10.0		mg/L	100			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1202113MS1, QC1202113MSD1												**Source: 415289-002**
Total Organic Carbon (TOC)	12.8	20	20	33.4	33.9	mg/L	103	106	1.5	80-120	20	

QCBatchID: QC1202119 **Analyst:** trinh **Method:** SM 4500-P-B-5-E

Matrix: Water **Analyzed:** 05/17/2019 **Instrument:** CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1202119MB1					
Total Phosphorous as P	ND	mg/L	0.01	0.02	
Total Phosphorous as PO4	ND	mg/L	0.03	0.06	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1202119LCS1											
Total Phosphorous as P	0.4		0.410		mg/L	103			80-120		
Total Phosphorous as PO4	1.23		1.257		mg/L	102			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1202119MS1, QC1202119MSD1												**Source: 415118-001**
Total Phosphorous as P	0.177	0.4	0.4	0.589	0.590	mg/L	103	103	0.2	75-125	20	
Total Phosphorous as PO4	0.543	1.23	1.23	1.806	1.809	mg/L	103	103	0.2	75-125	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
BQ4	Minor Dissolved Oxygen loss was observed in the blank water check, however, the LCS was within criteria, validating the batch.
BQ5	Minor Dissolved Oxygen loss was observed in the blank water check.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
D3	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
IR	Inconclusive Result. Legionella is present, however, there is possible non-specific agglutination preventing specific identification.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
L2	LCS did not meet recovery criteria, however, the MS and/or MSD met LCS recovery criteria, validating the batch.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
P3	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
931 W. Barkley Ave., Orange, CA 92868	Lab No: 415/19	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 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants	Name:	Malibu - Quarterly/Semi-Annual
Report To:	Kiernan Brtalik	Number:	15-01587
Email:	KBrtalik@RinconConsultants.com	P.O. #:	
Address:	180 N. Ashwood Ave.	Address:	180N. ASHWOOD AVE
	Ventura, CA 93003		
Phone:	805-644-4455	Global ID:	
Cell:		Sampled By:	P. DORAN, N. NAVARRO

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~~						X	X	X	X	X	X	X	X	PD
SMBRP-9						X	X	X	X	X	X	X	X	PD
~~SMBRP-11~~						X	X	X	X	X	X	X	X	PD
~~SMBRP-12~~						X	X	X	X	X	X	X	X	PD
~~MCWP-MW04S~~						X	X	X	X	X	X	X	X	PD
MCWP-MW04D	5.9.19	1215	W	13/VARIOUS	2,3,4	X	X	X	X	X	X	X	X	
~~MCWP-MW07S~~						X	X	X	X	X	X	X	X	PD
MCWP-MW07D						X	X	X	X	X	X	X	X	PD
MCWP-MW09						X	X	X	X	X	X	X	X	PD

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		NIKO NAVARRO	RINCON / ENVM. SCIENTIST	5/9/19 1315
[1] Received By:			Enthalpy	5/9/19 1315
[2] Relinquished By:			Enthalpy	5/9/19 1500
[2] Received By:			EA	05/09/19 1500
[3] Relinquished By:				

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon

Project: Malibu - Quarterly/Semi Annual

Date Received: 5/9/19

Sampler's Name Present: [X] 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: 9.5 #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: 2.6 #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: 05/09/19

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 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-19 14:22
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0019-01) Collected: 01-Apr-19 By Julio Leal						
pH	SM4500-H-B	AD90221	0.1	02-Apr-19 (PL)	7.5 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD90223	0.05	02-Apr-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD90129	1.8	03-Apr-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD90129	1.8	03-Apr-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 4/30/2019
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.#: 19D0019

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
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	04/01/19	1010	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Golan Kfir (IPC)	04/01/19	
Received by		Mengyuan	4-1-19	12:00 PM
Relinquished by		Mengyuan	4-1-19	12:00 PM
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	4/1/19	1625

Sample Received Checklist

Temperature upon receipt: 4°C
# of bottles agrees with COC? Yes 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-19 14:24
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0053-01) Collected: 02-Apr-19 By Julio Leal						
pH	SM4500-H-B	AD90337	0.1	02-Apr-19 (JC)	7.0 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD90336	0.05	03-Apr-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD90227	1.8	04-Apr-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD90227	1.8	04-Apr-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,

Steve Jefferson 4/30/2019
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.#: 19D0053

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	4/2/19	11:40	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	6.96 / 22.0°C
	"	~	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: GK	Golan IPC	4/2/19	11:45
Received by:	Alejandro Olmos (PATCHEM)	4/2/19	11:55
Relinquished by:	Alejandro Olmos (Patchem)	4/2/19	14:30
Received by:			
Relinquished by:			
Received in lab by:	MARCO SANTIESTEBAN (PCL)	4/2/19	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: 30-Apr-19 14:26
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0095-01) Collected: 03-Apr-19 By Julio Leal						
pH	SM4500-H-B	AD90420	0.1	04-Apr-19 (JC)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD90419	0.05	04-Apr-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD90335	1.8	05-Apr-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD90335	1.8	05-Apr-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 4/30/2019
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.#: 190095

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
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	04/03/19	0850	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by	C.	Carlos Alvarez (IPC)	04/03/19	
Received by	EC	Cuauhtemoc Perez (PCL)	4.3.19	1245
Relinquished by	EC	Cuauhtemoc Perez (PCL)	4.3.19	1500
Received by				
Relinquished by				
Received in lab by		PCL	4.3.19	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	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 (PCL) Terms and Conditions

1. Definitions

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

2. Independent Contractor

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

3. Orders and Acceptance

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

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

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

4. Limit of Liability

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

5. Clients Responsibility

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

6. Cancellation

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

7. Overriding Agreement

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

8. Force Majeure

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

9. Confidentiality

Data and the sample materials provided by client or at client's request and the results obtained by PCL shall be held in confidence (unless such information is generally available to the public or is the public domain or client has filed to pay PCL for all services rendered or is otherwise in breach of the agreement) subject to any disclosure required by law or legal process. PCL shall use the same standard of care it uses in protecting its own confidential data and shall not be responsible for unauthorized disclosure of said data where such standard was observed. PCL reports and information provided thereon are for the exclusive use and benefit of client and client agrees there shall be no third party beneficiary of such reports, data or information. Client will not disclose to any third party any information concerning technical information, software programs or other formulations.

10. Hold Harmless

Client releases and shall save, indemnify, defend and hold PCL, its employees, officers, directors, agents, affiliates, related entity and parent harmless from and against any and all liabilities, losses or damages, claims, demands, causes of action, suits and associated expenses including, but not limited to all court fees (the Litigation Expenses) and awards arising in favor of Client or any third party as a result of, and/or in any way occurring incident to arising out of, or in connection with the performance of services by PCL pursuant to this agreement and/or transportation handling or disposal of client's hazardous materials. 1. Injury, disease or death of persons 2. Loss of, damage to, lost of, or loss of use of property and or 3. Financial losses of every kind of character. This indemnity does not apply to any of the foregoing losses, costs, damages, or injuries caused solely by the gross negligence or willful misconduct of PCL or its employees. Further, this indemnity shall specifically apply to losses, claims damages, actions of every kind and character arising out of or in connection with the negligence of or breach of contract by any indemnified Person, whether actual or alleged, in the performance of services under this agreement. The foregoing indemnities will be in addition to any liability which the client might otherwise have to PCL and the other indemnified Persons. To the extent necessary under applicable law, Client agrees that its indemnity obligation will be supported by available liability insurance coverage to be furnished by client, which insurance shall be in the maximum amounts permitted under applicable law. In no event shall PCL be liable to client for indirect, punitive, special, incidental or consequential damages (including, without limitation, loss of profit or business interruption, Litigation Expenses or other fees (including, without limitation, attorney's fees, court costs, and/or pre or post judgment interest), or any other expenses or costs incurred by client or any other party in any litigation against or involving PCL or any indemnified person in connection with this agreement or 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 material) for analyses such as asbestos, polychlorinated biphenyls, bacteria or any other hazardous or toxic material, wastes and substance of which are defined, determined or identified as such under federal, state or local laws, rules PCL policies or regulations (weather now existing or now shall enacted or promulgated) or any judicial or administrative interpretation of any thereof (the "Hazardous Materials"). Client understands and agrees that any Hazardous material received by PCL from client or at client's request shall remain the property of Client and that upon completion of PCL's services, PCL will dispose of all unused portions of samples as specified by client or by PCL's QA/QC policies. In the event the client does not specify its preferred method of disposal, PCL will return to the client all unused samples which contain Hazardous Materials. PCL reserves the right to charge the client for the disposal of unused samples in accordance with PCL's current sample disposal policy. In addition, all samples received by PCL for any/all bacterial analysis, client will be charged a sample disposal fee, per sample submitted, in accordance with our QA/QC policies and procedures.

12. Prices/Payments

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

13. Agreement Modification

Changes, modifications or amendments to the terms shall be effective only if in writing and executed by an officer of PCL and the 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 or reliance on data, information, or reports furnished by PCL. Client is acting, 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 rates 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 24 days or less, samples must arrive within 36 hours to allow PCL to meet holding times without applying a rush surcharge. For short holding times, e.g. 7 days, samples must arrive at the lab within 24 hours before application to inquire that the holding times can be met. Short holding times of 48 hours or less (such as 24 hours) must be requested that same day as sample to guarantee holding times are met. After hours, free delivery. Early in the morning deliveries or weekend drop-off is 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. Prearranged long term storage is subject to an additional charge. Samples will be disposed of at the end of the arranged storage time.

18. Sample Pick Up/Field Tech Sampling

All pick up/sampling fees have been included on the fee schedule. Reasonable time has been allocated for each pick up or service. Unnecessary delays during the pick up or sampling might incur 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-19 14:03
Subject: (MCC) Weekly EFF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0096-01) Collected: 03-Apr-19 By Carlos Alvarez						
Ammonia as N	EPA 350.1	AD90515	0.10	05-Apr-19 (SGS)	0.14 mg/l	
Biochemical Oxygen Demand	SM 5210B	AD90410	2	09-Apr-19 (SGS)	2 mg/l	
Nitrate as N	EPA 353.2	AD90333	0.02	03-Apr-19 (LA)	0.03 mg/l	
Nitrite as N	EPA 353.2	AD90333	0.02	03-Apr-19 (LA)	<0.02 mg/l	
Total Kjeldahl Nitrogen	EPA 351.2	AD90830	0.10	09-Apr-19 (LA)	1.34 mg/l	
Total Suspended Solids	SM 2540D	AD90423	1	05-Apr-19 (EA)	<1 mg/l	

Notes and Definitions

Respectfully Submitted,

Steve Jefferson 4/30/2019
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.#: 19D0096

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	04/02/19		1	TSS	Grab	AQ	1L P	4°C	
	04/03/19	0850	1	NH4, TKN	Grab	AQ	500 P	HS	
	"	0850	1	NO2, NO3	Grab	AQ	500 P	4°C	
	04/02/19		1	BOD	Grab	AQ	1L P	4°C	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. D.	Carlos Alvarez (IPC)	04/03/19	
Received by	EG	Carlos PKL	4.3.19	1245
Relinquished by	EG	Carlos PKL	4.3.19	1500
Received by				
Relinquished by				
Received in lab by		PKL	4.3.19	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	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 (PCL) Terms and Conditions

1. Definitions

"Terms and Conditions" means these Terms and Conditions of sale, including the price schedule, and any additions or amendments hereto which are agreed to in writing. "Client" means the individual or entity who 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 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 assent to be governed by these terms and conditions. No contrary or additional terms and conditions expressed in a client's document shall be deemed to become a part of the contract created upon acceptance of the terms and conditions.

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

4. Limit of Liability

PCL will perform the services in accordance with the normal standards of workmanship in the profession. Where applicable, PCL will use analytical methodologies which are in substantial conformity with the U.S. Environmental Protection Agency (EPA), CA Waterboard (ELAP), American Society for Testing and Materials (ASTM), Association of Official Analytical Chemists (AOAC), Standard Methods (SM) of the Examination of Water and Wastewater and/or other recognized methodologies. PCL reserves the right to deviate from these methodologies if necessary or appropriate due to the nature or composition of the samples or otherwise based on the reasonable judgement of PCL. Deviations, if any, will be made on a basis consistent with the recognized standards of the industry and/or PCL Standard Operating Procedures (SOP) and/or our QA/QC policies. The total liability of PCL, its officers, agents, employees or successors to the client, arising out of or in connection with the services to be provided herein, shall not exceed the invoiced amount for said services. Client's 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 raw pre-materials provided by client or at client's request and the results obtained by PCL shall be held in Confidence (unless such information is generally available to the public or is the public domain or client has filed to pay PCL for all services rendered or is otherwise in breach of the agreement) subject to any disclosure required by law or legal process. PCL shall use the same standard of care it uses in protecting its own confidential data and shall not be responsible for unauthorized disclosure of such data where such disclosure was made via PCL reports and information provided therein and for the exclusive use and benefit of client and client agrees there shall be no third party beneficiary of our reports, data or information. Client will not disclose to any third party any proprietary concerning technical information, software programs or other formulations.

10. Hold Harmless

Client releases and shall save, indemnify, defend and hold PCL (its employees, officers, directors, agents, affiliates, consultants and owners) harmless from and against any and all Liabilities, losses or damages, claims, demands, causes of action, costs and associated expenses, including, but not limited to all court fees (or litigation Expenses) and attorneys' fees arising in favor of Client or any third party, as a result of, and/or in any way occurring incident to arising out of, or in connection with the performance of services by PCL pursuant to this agreement and/or transportation, handling or disposal of client's hazardous materials, 1. injury, disease or death of persons 2. loss of, damage to, loss of, or loss of use of property and or 3. financial loss of every kind of character. This indemnity does not apply to any of the foregoing losses, costs, damages or causes of action caused solely by the gross negligence or willful misconduct of PCL or its employees. Further, this indemnity shall specifically apply to client's own acts, actions of every kind and character, out of or in connection with and the negligence of or breach of contract by any indemnified Person, whether actual or alleged, in the performance of services under this agreement. The foregoing indemnities will be in addition to any liability which the client might otherwise have to PCL and the other indemnified persons. To the extent necessary under applicable law, client agrees that its indemnity obligations will be supported by available liability insurance coverage to be furnished by client, which insurance shall be in the maximum amounts permitted under applicable law. In no event shall PCL be liable to client for indirect, punitive, special, incidental or consequential damages (including, without limitation, loss of profit or business interruption) Litigation Expenses or other fees (including, without limitation, attorney's fees, court costs, and /or pre or post judgment interest), or any other expenses or costs incurred by client or any other party in any litigation against or involving PCL or any indemnified person in connection with this agreement or all services provided under this agreement even if client is the prevailing party.

11. Hazardous Substances

For PCL to perform the services requested by client, client will provide and PCL will receive samples materials for analyses such as asbestos, polychlorinated biphenyls, bacteria or any other hazardous or toxic material, wastes and substances which are defined, determined or identified as such under federal, state or local laws, rules, PCL policies or regulations (whether now existing or hereafter enacted or promulgated) 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 lab 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

Clients shall pay PCL in accordance with PCL's applicable price schedule in effect at the time of operations or the date the services were rendered or such prices quoted and later confirmed in writing. The price schedule is subject to change at any time without notice. Payment is due net 30 days unless otherwise expressly required by PCL. Clients who have not been established with PCL for credit terms with an established credit account, the terms for payment of charges are NET CASH within thirty (30) days from date of invoices. Sixty (60) days past due shall accrue interest at the rate of one and one half percent (1.5%) per month (or the highest lawful rate permitted by law, if less) and shall be subject to late administration fee. Unpaid accounts may be collected through legal proceedings by an attorney. The client shall pay reasonable costs and attorney's fees or experts' fees in addition to the principal amount owed.

13. Agreement Modification

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

14. No Third Party Beneficiaries: No Right of Reliance

PCL shall have no responsibility or liability for client's use of or reliance on data, information, or reports furnished by PCL. Client is retaining services knowledge for his own account, and not as agent or broker, or in any other representative capacity for any other person or entity. It is hereby 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 such 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 securities, the securing, amendment, renewal, or extension of any loan from any financial institution or other lender or the participation in or contracting with, directly or indirectly, any governmental agency or department.

15. Rush Analysis

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

16. Holding Times

PCL cannot be responsible for holding times that are exceeded because of samples that are 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. For 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. For short holding times, 2-7 days, samples must arrive at the lab within 24 hours before expiration to ensure that the holding time can be met. Short Holding Times of 48 hours or less (compliance is 6 hours) must be delivered that same day in order to guarantee holding times are met. After hours, late delivery, freight company delays or similar issues are subject to additional rush fees and/or the inability to meet holding times. All holding times are in effect as of the publication date of this fee schedule and are subject to change without notice.

17. Sample Retention

All samples are retained for at least thirty (30) days after analysis has been completed. Sample storage for longer periods is by request only. Pre-arranged long term storage is subject to an additional charge. Samples will be discarded at the end of the pre-arranged storage time.

18. Sample Pick Up/Field Tech Sampling

If pick up/sampling fees have been noted on the fee schedule, reasonable time has been allocated for each pick up or service. Unnecessary delays during the pick up or sampling, may 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

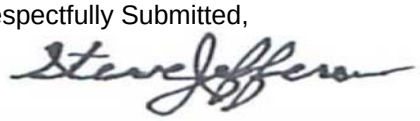
Attention: Ric Vardel
Report Date: 30-Apr-19 13:35
Subject: (MCC) Weekly INF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
INF (Sample I.D.# : 19D0094-01) Collected: 03-Apr-19 By Carlos Alvarez						
Biochemical Oxygen Demand	SM 5210B	AD90410	2	09-Apr-19 (SGS)	443 mg/l	
Total Suspended Solids	SM 2540D	AD90423	1	05-Apr-19 (EA)	155 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 4/30/2019
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.#: 14D0094

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
INF	04/02/19		1	TSS	~~Grab~~ Composite	AQ	1L P	4°C	
1	1		1	BOD	~~Grab~~ Composite	AQ	1L P	4°C	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Alvarez	Carlos Alvarez (3PC)	04/03/19	
Received by	[signature]	[signature] PCL	4-3-19	1245
Relinquished by	[signature]	[signature] PCL	4-3-19	1500
Received by				
Relinquished by				
Received in lab by	[signature]	[signature] PCL	4.3.19	1500

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

Sample Received Checklist

Temperature upon receipt: 4

# of bottles agrees with COC? Yes No

Samples intact? Yes No

Samples properly preserved? Yes No

Samples in holding time? Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

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

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

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

Pat-Chem Laboratories (PCL) Terms and Conditions

1. Definitions

"Terms and Conditions" means these terms and conditions of sale, including the price schedule, and any additions or amendments hereto which are agreed to in writing. "Client" means the individual or entity who 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 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 perform 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 safety 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 payments for all services rendered and out-of-pocket expenses incurred up to the date of cancellation in accordance with the applicable Price Schedule.

7. Overriding Agreement

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

8. Force Majeure

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

9. Confidentiality

Data and the sample materials provided by client or at client's request and the results obtained by PCL shall be held in confidence (unless such information is generally available to the public or is the public domain or client has filed or 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 thereon are for the exclusive use and benefit of client and client agrees there shall be no third party beneficiary of such reports, data or information. Client will not disclose to any third party any software, computer programs or other formulations.

10. Hold Harmless

Client releases and shall save, indemnify, defend and hold PCL, its employees, officers, directors, agents, affiliates, subsidiaries and parent companies from and against any and all liabilities, losses or damages, claims, demands, causes of action, suits and associated expenses including, but not limited to all court fees (the Litigation Expenses) and awards arising in favor of Client or any third party as a result of, and/or in any way occurring incident to arising out of, or in connection with the performance of services by PCL pursuant to this agreement and/or transportation, handling or disposal of client's hazardous materials, 1. injury, disease or death of persons 2. loss of, damage to, use of, or theft of client's property and/or 3. financial loss of every kind or character. This indemnity does not apply to any of the foregoing losses, suits, damages, or injuries caused solely by the gross negligence or willful misconduct of PCL or its employees. Further, this indemnity shall specifically apply to losses, claims damages, actions of every kind and character arising out of or in connection with the negligence of or breach of contract by any indemnified Person, whether actual or alleged, in the performance of services under this agreement. The foregoing indemnities will be in addition to any liability which the client might otherwise have to PCL and the other indemnified Persons. To the extent permitted under applicable law, client agrees that its indemnity obligations will be supported by available liability insurance coverage to be furnished by client, which insurance shall be in the maximum amounts permitted under applicable law. In no event shall PCL be liable to client for indirect, punitive, special, incidental or consequential damages including without limitation, loss of profit or business interruption. Litigation Expenses or other fees (including, without limitation, attorney's fees, court costs and costs of any judgment rendered), or any other amounts or costs incurred by client or any third party in any way arising against or involving PCL or any indemnified person in connection with this agreement or as services are 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 analysis such as asbestos, pathogenic bacteria, bacteria or any other hazardous or toxic material, wastes and substances which are defined, designated or identified as such under RCRA, 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 portion of samples as specified by client or per PCL's EH/QC policies. In the event the client does not specify its preferred method of disposal, PCL will return to the client all unused samples which contain Hazardous Materials. PCL reserves the right to charge the client for the disposal of unused samples in accordance with PCL's current sample disposal policy. In addition, all samples received by PCL for any/all bacterial analysis, client will be charged a sample disposal fee, per sample submitted, in accordance with our QA/QC policies and procedures.

12. Prices/Payments

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

13. Agreement Modification

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

14. No Third Party Beneficiaries: No Right of Reliance

PCL shall have no responsibility or liability for client's use of or reliance on data, information, or reports furnished by PCL. Client is securing services hereunder for his own account, and not as agent or broker, or in any other representative capacity for any other person or entity. It is agreed and acknowledged that there are no third party beneficiaries to this agreement, and that no third party may rely on such data, information or reports. Client represents, warrants, and agrees that said data, information and reports are not requested, or shall be used 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, arrangement, 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 36 hours for PCL to meet holding times without incurring a rush surcharge. All short holding times, 2-7 days, samples must arrive at the lab within 24 hours unless arrangements made 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/customs delays or courier issues are subject to additional rush fees and/or fee waiver to meet holding times. All holding times are as reflected 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 most 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 quoted 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

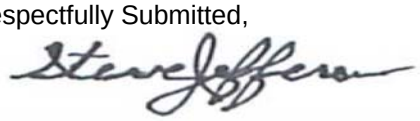
Attention: Ric Vardel
Report Date: 30-Apr-19 14:29
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0128-01) Collected: 04-Apr-19 By CA						
pH	SM4500-H-B	AD90509	0.1	04-Apr-19 (JC)	7.5 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD90508	0.05	05-Apr-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD90418	1.8	06-Apr-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD90418	1.8	06-Apr-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 4/30/2019
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.#: 19D0128

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
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	04/04/19	0940	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
1	1	1							
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Duran	Carlos Duran (ABC)	04/04/19	
Received by	Elo Cuello	pcl	4/4/19	1130
Relinquished by	Elo Cuello	pcl	4/4/19	1445
Received by				
Relinquished by				
Received in lab by	Mario Santiesteban	MARIO SANTIESTEBAN (PCL)	4/4/19	1445

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

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab **Comp**	**HC** - HCl **HS** - H_2SO_4
Matrix **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** - $CuSO_4$

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
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pat-chem.com

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

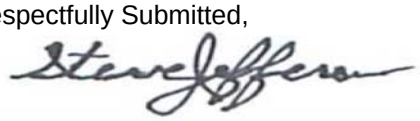
Attention: Ric Vardel
Report Date: 02-May-19 14:10
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0159-01) Collected: 05-Apr-19 By CA						
pH	SM4500-H-B	AD90616	0.1	05-Apr-19 (JC)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD90617	0.05	06-Apr-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD90507	1.8	07-Apr-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD90507	1.8	07-Apr-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/2/2019
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.#: 19D0159

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	04/05/19	1030	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
1	1	1							
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Alvarez.	Carlos Alvarez (IPC)	04/05/19	
Received by	EC	Evan C. PCL	4.5.19	1130
Relinquished by	EC	Carlos PCL	4.5.19	1320
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	4/5/19	1320

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC? Yes No

Samples intact? Yes No

Samples properly preserved? Yes No

Samples in holding time? Yes No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

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

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

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

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

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

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

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

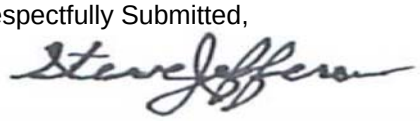
Attention: Ric Vardel
Report Date: 02-May-19 14:16
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0171-01) Collected: 06-Apr-19 By Ric Vardel						
pH	SM4500-H-B	AD90621	0.1	06-Apr-19 (JC)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD90622	0.05	06-Apr-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD90615	1.8	08-Apr-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD90615	1.8	08-Apr-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/2/2019
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.#: 19D0171

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618		Sampled by: Ric 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	4/6	0955	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
11	11	4	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Ric Vardel (IPC)	4/6	1005
Received by				
Relinquished by	Jose L Gomez	Jose L Gomez	4/6/19	1013
Received by				
Relinquished by				
Received in lab by		Jordan Corkery	4/6/19	11:11

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC? (Yes) 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 these terms and conditions of sale, including the price schedule, and any additions or amendments hereto which are agreed to in writing. "Client" means the individual or entity which 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 to 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 hereto, 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 material(s) provided by client or at client's request and the results obtained by PCL shall be held in confidence (unless such information is generally available to the public or is the public domain or client has filed to pay PCL for all services rendered or is otherwise in breach of the agreement) subject to any disclosure required by law or legal process. PCL shall use the same standard of care it uses in protecting its own confidential data and shall not be responsible for unauthorized disclosure of said data where such standard was observed. PCL reports and information provided thereunder are for the exclusive use and benefit of client and client agrees there shall be no third party beneficiary of such reports, data or information. Client will not disclose to any third party any information concerning technical information, software programs or other formulations.

10. Hold Harmless

Client releases and shall save, indemnify, defend and hold PCL, its employees, officers, directors, agents, affiliates, subsidiaries and parent harmless from and against any and all liabilities, losses or damages, claims, demands, causes of action, suits and associated expenses including, but not limited to all court fees (the Litigation Expenses) and awards arising in favor of Client or any third party as a result of, and/or in any way occurring incident to arising out of, or in connection with the performance of services by PCL pursuant to this agreement and/or transportation handling or disposal of client's hazardous materials. 1. Injury, disease or death of persons 2. Loss of, damage to, lost of, or loss of use of property; and or 3. Financial loss of every kind of character. This indemnity does not apply to any of the foregoing losses, costs, damages, or injuries caused solely by the gross negligence or willful misconduct of PCL or its employees. Further, this indemnity shall specifically apply to losses, claims damages, actions of every kind and character arising out of or in connection with the negligence of or breach of contract by any indemnified Person, whether actual or alleged, in the performance of services under this agreement. The foregoing indemnities will be in addition to any liability which the client might otherwise have to PCL and the other indemnified Persons. To the extent necessary under applicable law, client agrees that its indemnity obligation will be supported by available liability insurance coverage to be furnished by client, which insurance shall be in the maximum amounts permitted under applicable law. In no event shall PCL be liable to client for indirect, punitive, special, incidental or consequential damages (including without limitation loss of profit or business interruption Litigation Expenses or attorney fees (including, without limitation, attorney's fees, court costs, and cost 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 its 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 analysis such as asbestos, polychlorinated biphenyls, hazardous 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 (weather 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 or you keyed method of disposal, PCL will return to the client all unused samples which contain Hazardous Materials. PCL reserves the right to charge the client for the disposal of unused samples in accordance with PCL's current sample disposal policy. In addition, all samples received by PCL for any/all bacterial analysis, client will be charged a sample disposal fee, per sample submitted, in accordance with our QA/QC policies and procedures.

12. Prices/Payments

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

13. Agreement Modification

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

14. No Third Party Beneficiaries: No Right of Reliance

PCL shall have no responsibility or liability for client's use of or reliance on data, information, or reports furnished by PCL. Client is securing services hereunder for his own account, and not as agent or broker, or in any other representative capacity for any other person or entity. It is agreed and acknowledged that there are no third party beneficiaries to this agreement, and that no third party may rely on such data, information or reports. Client represents, warrants, and agrees that said data, information and reports are not requested, or shall be used by client or upon, in connection with or as part of, the purchase, sale, underwriting, or dissemination of any securities, any periodic or other reporting to the holders of any securities, the servicing, 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 instrumentality.

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 a person to receive (but the holiday, time) can be used. 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 most 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, ought to, or cause an additional fee.

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

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

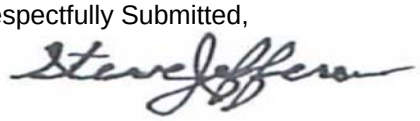
Attention: Ric Vardel
Report Date: 02-May-19 14:19
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0178-01) Collected: 07-Apr-19 By Ric Vardel						
pH	SM4500-H-B	AD90823	0.1	07-Apr-19 (PL)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD90825	0.05	08-Apr-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD90716	1.8	09-Apr-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD90716	1.8	09-Apr-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/2/2019
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.#: 19D0178

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive, Irvine, CA 92618		Sampled by: Ric 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	4/7	0950	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by	Ric Vardel (IPC)	4/7	1000
Received by			1320
Relinquished by			
Received by			
Relinquished by			
Received in lab by	Alex Walker	4/8/17	1450

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

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

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

Rev 2 Effective 5/1/17

Pat-Chem Laboratories (PCL) Terms and Conditions

1. Definitions

"Terms and Conditions" means these Terms and Conditions of sale, including the price schedule, and any additions or amendments hereto which are agreed to in writing. "Client" means the individual or entity who 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 restated 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 of 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 payments for all services rendered and out-of-pocket charges incurred up to the date of cancellation in accordance with the applicable Price Schedule.

7. Overriding Agreement

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

8. Force Majeure

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

9. Confidentiality

Data and the sample materials provided by client or at client's request and the results obtained by PCL shall be held in confidence (unless such information is generally available to the public or is the public domain or client has cited to 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 such data where such standard was observed. PCL reports and information provided thereon are for the exclusive use and benefit of client and client agrees there shall be no third party beneficiary of such reports, data or information. Client will not disclose to any third party any information concerning technical information, software programs or other formulations.

10. Hold Harmless

Client agrees to and shall save, indemnify, defend and hold PCL, its employees, officers, directors, agents, affiliates, subsidiaries and parent harmless from and against any and all liabilities, losses or damages, claims, demands, causes of action, suits and associated expenses including, full not limited to all court fees (the Litigation Expenses) and awards arising in favor of Client or any third party as a result of, and/or in any way occurring incident to arising out of, or in connection with the performance of services by PCL pursuant to this agreement and/or to appropriate handling or disposal of client's hazardous materials. 1. Bodily injuries or death of persons 2. Loss of, damage to, 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 losses, costs, damages, or expenses caused solely by the gross negligence or willful misconduct of PCL or its employees. Further, this indemnity shall specifically apply to losses, claims damages, actions or causes and shares, tax arising out of or in connection with the negligence of or breach of contract by any representative 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 obligations will be supported by available liability insurance coverage to be maintained by Client, which insurance shall be in the minimum amounts prescribed under applicable law. In no event shall PCL be liable to client for indirect, punitive, special, incidental or consequential damages (including, without limitation, loss of profit or business interruption Litigation Expenses or other fees (including, without limitation, attorney's fees, court costs, and out of pocket expenses incurred), or any other expenses or costs incurred by client or any other party in any litigation against or involving PCL or any indemnified person in connection with this agreement or an services provided under this agreement even if client is the prevailing party.

11. Hazardous Substances

For PCL to perform the services requested by client, client will provide a CEC. will receive samples materials for analysis such as asbestos, polychlorinated biphenyls, lead or any other hazardous or toxic material, wastes and substances which are defined, determined or designated as such under federal, state or local laws, codes 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 treated 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 service 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 on 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 whatever is completed is required for all new clients or until a history of payment and/or credit acceptability 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 law, client shall pay all fees for any amount unpaid or the end of thirty (30) days is subject to interest at the lesser of the maximum rate permitted by law or one and one half percent (1.5%) per month on the unpaid balances. If unpaid amounts are collected through legal proceedings or by an attorney, the client shall pay reasonable costs and attorney's fees or agents' fees associated with such collection or collection efforts.

13. Agreement Modification

Changes, modifications or amendments to the terms shall be effective only if in writing and executed by an officer of PCL and by client's authorized representative. Except for 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 upon data, information, or reports furnished to PCL. Client in providing services hereunder for the sole benefit, 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 in all no third party may rely on such data, information or reports. Client represents, warrants, and agrees that said data, information and reports are not transmitted, or to be used to relied upon, in connection with or as part of, the purchase, sale, underwriting, or distribution of any securities. No periodic or other reporting to client shall be required. Any requirement for reporting, amendment, review, comment, or any function any financial institution, lender or the certification to or of contracts 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 at the laboratory within 48 hours of sampling. For analyses with holding times of 7 days or less, samples must arrive at the laboratory within 24 hours of sampling. Please note that the holding times can be shorter than the regulatory limit. Short holding times of 48 hours or less must be discussed with the project manager at the time of sampling to guarantee holding times are met. After hours, (see definition) freight company delivery or sample drop-off by the client is not considered a valid way to meet holding times. All holding times are in effect as of the publication date of the fee schedule and are subject to change without notice.

17. Sample Retention

All samples are received for 30 days (XX days after analysis has been completed. Sample storage for longer periods is by request only. Pre-arranged long term storage is available for an additional charge. Samples will be disposed of at the end of the pre-arranged storage time.

18. Sample Pick Up/Field Tech Sampling

All pick up/sampling fees have been included on the fee schedule. Reasonable time has been allocated for each pick up or service. Unnecessary delays during the pick up or sampling visits or as viewed as additional fee.

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

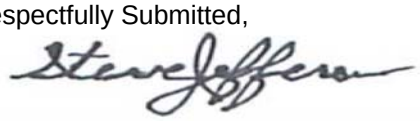
Attention: Ric Vardel
Report Date: 02-May-19 14:21
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0195-01) Collected: 08-Apr-19 By Ric Vardel						
pH	SM4500-H-B	AD90931	0.1	08-Apr-19 (PL)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD90935	0.05	09-Apr-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD90837	1.8	10-Apr-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD90837	1.8	10-Apr-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/2/2019
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.#: MDO195

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive, Irvine, CA 92618		Sampled by: C. Jones	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	04/08/19	1120	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
1	1	1	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Jones	Carlos Alvarez (IPC)	04/08/19	
Received by		Jaird Mendivar	4/8/19	12:30
Relinquished by		Jaird Mendivar	4/8/19	12:30
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	4/8/19	1510

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab Comp	HC - HCl HS - H_2SO_4
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.

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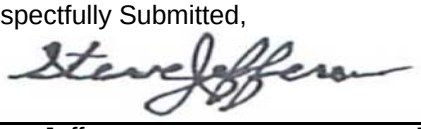
Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 15-Jul-19 17:47
Subject: (MCC) Quarterly

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0194-01) Collected: 08-Apr-19 By CA						
Silver	EPA 200.8	AD90937	0.2	10-Apr-19 (AF)	<0.2 ug/l	
Aluminum	EPA 200.8	AD90937	5.0	10-Apr-19 (AF)	81 ug/l	
Arsenic	EPA 200.8	AD90937	0.5	10-Apr-19 (AF)	1.0 ug/l	
Barium	EPA 200.8	AD90937	0.5	10-Apr-19 (AF)	22 ug/l	
Beryllium	EPA 200.8	AD90937	0.2	10-Apr-19 (AF)	<0.2 ug/l	
Calcium	EPA 200.7	AD90936	0.05	10-Apr-19 (AF)	80.9 mg/l	
Cadmium	EPA 200.8	AD90937	0.2	10-Apr-19 (AF)	<0.2 ug/l	
Chromium	EPA 200.8	AD90937	0.2	10-Apr-19 (AF)	5.2 ug/l	
Copper	EPA 200.8	AD90937	0.2	10-Apr-19 (AF)	1.0 ug/l	
Mercury	EPA 245.1	AD91025	0.20	10-Apr-19 (AF)	<0.20 ug/l	
Nickel	EPA 200.8	AD90937	0.5	10-Apr-19 (AF)	4.6 ug/l	
Lead	EPA 200.8	AD90937	0.2	10-Apr-19 (AF)	<0.2 ug/l	
Antimony	EPA 200.8	AD90937	1.0	10-Apr-19 (AF)	<1.0 ug/l	
Selenium	EPA 200.8	AD90937	2.0	10-Apr-19 (AF)	5.3 ug/l	
Thallium	EPA 200.8	AD90937	1.0	10-Apr-19 (AF)	<1.0 ug/l	
Uranium	EPA 200.8	AD90937	1.0	10-Apr-19 (AF)	4.6 ug/l	
Zinc	EPA 200.8	AD90937	1.0	10-Apr-19 (AF)	22 ug/l	
1,2-Dibromoethane (EDB)	EPA 504.1	AD92521	0.02	19-May-19 (SJ)	<0.02 ug/l	
1,2-Dibromo-3-Chloropropane (DBCP)	EPA 504.1	AD92521	0.01	19-May-19 (SJ)	<0.01 ug/l	
Bis(2-ethylhexyl)phthalate	EPA 506	AD91210	2.0	21-May-19 (SJ)	<2.0 ug/l	
Bis(2-ethylhexyl)adipate	EPA 506	AD91210	2.0	21-May-19 (SJ)	<2.0 ug/l	
Surrogate: o-Terphenyl	*EPA 506*	*AD91210*		*21-May-19 (SJ)*	*78.5 % (50-120)*	
Alachlor	EPA 507	AD90942	0.2	19-May-19 (SJ)	<0.2 ug/l	
Atrazine	EPA 507	AD90942	0.2	19-May-19 (SJ)	<0.2 ug/l	
Molinate	EPA 507	AD90942	0.2	19-May-19 (SJ)	<0.2 ug/l	
Simazine	EPA 507	AD90942	0.2	19-May-19 (SJ)	<0.2 ug/l	
Thiobencarb (Bolero)	EPA 507	AD90942	0.2	19-May-19 (SJ)	<0.2 ug/l	
Surrogate: 1,3-Dimethyl-2-nitrobenzei	*EPA 507*	*AD90942*		*19-May-19 (SJ)*	*51.0 % (40-120)*	

Respectfully Submitted,



Steve Jefferson 7/15/2019
Laboratory Director

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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: 15-Jul-19 17:47
Subject: (MCC) Quarterly

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0194-01) Collected: 08-Apr-19 By CA						
Chlordane	EPA 508	AD90939	0.1	20-May-19 (SJ)	<0.1 ug/l	
Endrin	EPA 508	AD90939	0.01	20-May-19 (SJ)	<0.01 ug/l	
Gamma-BHC(Lindane)	EPA 508	AD90939	0.01	20-May-19 (SJ)	<0.01 ug/l	
Heptachlor	EPA 508	AD90939	0.01	20-May-19 (SJ)	<0.01 ug/l	
Heptachlor Epoxide	EPA 508	AD90939	0.01	20-May-19 (SJ)	<0.01 ug/l	
Hexachlorobenzene	EPA 508	AD90939	0.01	20-May-19 (SJ)	<0.01 ug/l	
Hexachlorocyclopentadiene	EPA 508	AD90939	0.01	20-May-19 (SJ)	<0.01 ug/l	
Methoxychlor	EPA 508	AD90939	0.05	20-May-19 (SJ)	<0.05 ug/l	
Toxaphene	EPA 508	AD90939	0.1	20-May-19 (SJ)	<0.1 ug/l	
Aroclor 1016	EPA 508	AD90939	0.1	20-May-19 (SJ)	<0.1 ug/l	
Aroclor 1221	EPA 508	AD90939	0.1	20-May-19 (SJ)	<0.1 ug/l	
Aroclor 1232	EPA 508	AD90939	0.1	20-May-19 (SJ)	<0.1 ug/l	
Aroclor 1242	EPA 508	AD90939	0.1	20-May-19 (SJ)	<0.1 ug/l	
Aroclor 1248	EPA 508	AD90939	0.1	20-May-19 (SJ)	<0.1 ug/l	
Aroclor 1254	EPA 508	AD90939	0.1	20-May-19 (SJ)	<0.1 ug/l	
Aroclor 1260	EPA 508	AD90939	0.1	20-May-19 (SJ)	<0.1 ug/l	
Surrogate: Tetrachloro-m-xylene	*EPA 508*	*AD90939*		*20-May-19 (SJ)*	*59.5 % (50-120)*	
Surrogate: Decachlorobiphenyl	*EPA 508*	*AD90939*		*20-May-19 (SJ)*	*74.0 % (50-120)*	
Bentazon	EPA 515.1	AD92230	0.2	22-May-19 (SJ)	<0.2 ug/l	
2,4-D	EPA 515.1	AD92230	0.2	22-May-19 (SJ)	<0.2 ug/l	
Dalapon	EPA 515.1	AD92230	0.2	22-May-19 (SJ)	<0.2 ug/l	
Dinoseb	EPA 515.1	AD92230	0.2	22-May-19 (SJ)	<0.2 ug/l	
Pentachlorophenol (PCP)	EPA 515.1	AD92230	0.2	22-May-19 (SJ)	<0.2 ug/l	
Picloram	EPA 515.1	AD92230	0.2	22-May-19 (SJ)	<0.2 ug/l	
2,4,5-TP	EPA 515.1	AD92230	0.2	22-May-19 (SJ)	<0.2 ug/l	
Surrogate: 2,4-DCAA	*EPA 515.1*	*AD92230*		*22-May-19 (SJ)*	*66.6 % (60-140)*	
Benzene	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
Bromodichloromethane	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
Bromoform	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	

Respectfully Submitted,



Steve Jefferson 7/15/2019
Laboratory Director

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1824 1st Street
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pat-chem.com

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

Attention: Ric Vardel
Report Date: 15-Jul-19 17:47
Subject: (MCC) Quarterly

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0194-01) Collected: 08-Apr-19 By CA						
Carbon tetrachloride	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
c-1,3-Dichloropropene	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
cis-1,2-Dicholoroethene	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
Chlorobenzene	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
Chloroform	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	0.6 ug/l	
Dibromochloromethane	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
1,2-Dichlorobenzene	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
1,4-Dichlorobenzene	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
1,2-Dichloroethane	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
1,1-Dichloroethane	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
1,3-Dichloropropane	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
1,2-Dichloropropane	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
Ethylbenzene	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
Methyl tert-butyl ether	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
Methylene chloride	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
Styrene	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
t-1,2-Dichloroethene	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
t-1,3-Dichloropropene	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
1,1,2,2-Tetrachloroethane	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
Tetrachloroethene	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
Toluene	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
1,2,4-Trichlorobenzene	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
1,1,1-Trichloroethane	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
1,1,2-Trichloroethane	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
Trichloroethene	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
Trichlorofluoromethane (Freon 11)	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
Vinyl chloride	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	
o-Xylene	EPA 524.2	AD93025	0.5	30-Apr-19 (SJ)	<0.5 ug/l	

Respectfully Submitted,

Steve Jefferson 7/15/2019
Laboratory Director

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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-Jul-19 17:47
Subject: (MCC) Quarterly

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0194-01) Collected: 08-Apr-19 By CA						
m,p-Xylene	EPA 524.2	AD93025	1.0	30-Apr-19 (SJ)	<1.0 ug/l	
Surrogate: Dibromofluoromethane	*EPA 524.2*	*AD93025*		*30-Apr-19 (SJ)*	*81.9 % (80-120)*	
Surrogate: Toluene-d8	*EPA 524.2*	*AD93025*		*30-Apr-19 (SJ)*	*112 % (80-120)*	
Surrogate: Bromofluorobenzene	*EPA 524.2*	*AD93025*		*30-Apr-19 (SJ)*	*92.2 % (80-120)*	
Carbofuran	EPA 632	AD90940	1.0	19-May-19 (SJ)	<1.0 ug/l	
Oxamyl	EPA 632	AD90940	1.0	19-May-19 (SJ)	<1.0 ug/l	
Chloroacetic Acid	EPA 552.2	AD92510	0.5	16-May-19 (SJ)	<0.5 ug/l	
Bromoacetic Acid	EPA 552.2	AD92510	0.5	16-May-19 (SJ)	<0.5 ug/l	
Dichloroacetic Acid	EPA 552.2	AD92510	0.5	16-May-19 (SJ)	<0.5 ug/l	
Trichloroacetic Acid	EPA 552.2	AD92510	0.5	16-May-19 (SJ)	<0.5 ug/l	
Dibromoacetic Acid	EPA 552.2	AD92510	0.5	16-May-19 (SJ)	<0.5 ug/l	
Haloacetic Acids (HAA5)	EPA 552.2	AD92510	0.5	16-May-19 (SJ)	<0.5 ug/l	
Surrogate: 2,3-Dibromopropionic Acid	*EPA 552.2*	*AD92510*		*16-May-19 (SJ)*	*88.5 % (60-140)*	
Benzo (a) pyrene	EPA 550	AD90941	0.05	21-May-19 (SJ)	<0.05 ug/l	
Surrogate: Decafluorobiphenyl	*EPA 550*	*AD90941*		*21-May-19 (SJ)*	*49.5 % (45-120)*	
Cyanide (total)	SM 4500-CN-E	AD91030	0.005	10-Apr-19 (LA)	<0.005 mg/l	
MBAS	SM 5540C	AD90933	0.20	09-Apr-19 (PL)	<0.20 mg/l	
pH	SM4500-H-B	AD90931	0.1	08-Apr-19 (PL)	7.4 pH Units	A-01
Total Alkalinity	SM 2320B	AD90948	1	09-Apr-19 (PL)	204 mg/l	
Carbonate Alkalinity	SM 2320B	AD90948	1	09-Apr-19 (PL)	<1 mg/l	
Bicarbonate Alkalinity	SM 2320B	AD90948	1	09-Apr-19 (PL)	204 mg/l	
Hydroxide Alkalinity	SM 2320B	AD90948	1	09-Apr-19 (PL)	<1 mg/l	
Color	SM 2120 C	AD90947	5.0	09-Apr-19 (LA)	25.3 CU	
Specific Conductance (EC)	SM 2510B	AD90932	0.1	09-Apr-19 (PL)	1980 uS/cm	
Odor	SM 2150B	AD91743	1	08-Apr-19 (PL)	<1 T.O.N.	
Bromate	EPA 300.0	AD91114	25.0	11-Apr-19 (AV)	<25.0 ug/l	
Chlorite	EPA 300.0	AD91114	100	11-Apr-19 (AV)	<100 ug/l	
Fluoride	EPA 300.0	AD90943	0.10	09-Apr-19 (AV)	<0.10 mg/l	

Respectfully Submitted,



Steve Jefferson 7/15/2019
Laboratory Director

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

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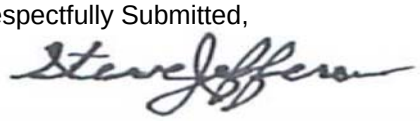
Attention: Ric Vardel
Report Date: 15-Jul-19 17:47
Subject: (MCC) Quarterly

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

Notes and Definitions

A-01 Langelier Index = -0.06 (Non-Corrosive)

Respectfully Submitted,



Steve Jefferson 7/15/2019
Laboratory Director

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

April 22, 2019 Ceres ID: 12764

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

The following report contains the results for the one aqueous sample received on April 11, 2019. 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 # 19D0194.

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
12764-001	19D0194-01	4/11/2019	4/5/2019 0:00

Section II: Data Summary

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

EPA Method 1613B

Quality Assurance Sample **Method Blank**	**QC Batch #:** 1973	**Date Received:** NA
	Matrix: Aqueous	**Date Extracted:** 4/18/2019
Project ID: 19D0194	**Sample Size:** 1.000 L	**ZB-5MS Analysis:** 4/19/2019

Analyte	Conc. (pg/L)	MDL	RL	Qual.	Labeled Standards	% R	LCL-UCL (a)	Qualifiers
2,3,7,8-TCDD	DL= 2.22	1.49	5.00		13C-2378-TCDD	91.3	31-137	
					CRS			
					37Cl4-2378-TCDD	101	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 #: 1973	**Date Extracted:** 4/18/2019
	Matrix: Aqueous	**ZB-5MS Analysis:** 4/19/2019
Project ID: 19D0194	**Sample Size:** 1.000 L	

Analyte	Conc. (ng/mL)	Limits (a)	Labeled Standards	% Rec.	Limits (a)
2,3,7,8-TCDD	11.3	7.3-14.6	13C-2378-TCDD	93.0	25-141
			CRS		
			37Cl4-2378-TCDD	96.7	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: 19D0194-01		
Project ID: 19D0194	**Ceres Sample ID:** 12764-001	**Date Received:** 4/11/2019
	QC Batch #: 1973	**Date Extracted:** 4/18/2019
Date Collected: 4/5/2019	**Matrix:** Aqueous	**ZB-5MS Analysis:** 4/19/2019
Time Collected: 0:00	**Sample Size:** 0.969 L	

Analyte	Conc. (pg/L)	MDL	RL	Qual.	Labeled Standards	% R	LCL-UCL (a)	Qualifiers
2,3,7,8-TCDD	DL= 2.01	1.49	5.16		13C-2378-TCDD	83.1	31-137	
					CRS			
					37Cl4-2378-TCDD	91.1	42-164	

DL - Signifies Non-Detect (ND) at sample specific detection limit.
EMPC - Estimated Maximum Possible Concentration due to ion abundance ratio failure.
(a) - Lower control limit - Upper control limit

Analyst: JMH **Reviewed by: BS**

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: 321909344
Customer ID: PTCM42
Customer PO:
Project ID:

Attn: Theresa Trevizo
Pat Chem Laboratories
1824 1st St
San Fernando, CA 91340

Phone: (805) 532-0012
Fax:
Received: 04/15/2019
Analyzed: 04/27/2019

Proj: 19D0194

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

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm^2)	Area Analyzed (mm^2)	ASBESTOS Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
							MFL (million fibers per liter)		
19D0194-01 321909344-0001	4/17/2019 12:35 PM	100	1288	0.0645	None Detected	ND	0.20	<0.20	0.00 - 0.74

Collection Date/Time: 04/08/2019 11:30 AM

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

Analyst(s)
Sherrie Ahmad (1)

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

Any questions please contact Jerry Drapala.

Initial report from: 04/27/2019 19:32:45

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

NORTH COAST LABORATORIES LTD.

April 22, 2019

Pat-Chem Laboratories
1824 1st St.
San Fernando, CA 93340

Attn: Theresa Trevizo

RE: 19D0194

Order No.: 1904216
Invoice No.: 146045
PO No.: 19D0194
ELAP No.1247-Expires July 2020

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	19D0194-01
01B	19D0194-01

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: 22-Apr-2019
WorkOrder: 1904216

CASE NARRATIVE

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

S1: The surrogate recovery was below the lower acceptance limit. The surrogate recoveries for the quality control samples were within acceptance limits. This indicates the low recovery may be due to matrix effects from the sample.

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 □ □□Apr□□□□□

WorkOrder □ □□□□□□□

ANALYTICAL□REPORT

Client□SampleID □ □D□□□□□□□

Lab□ID □ □□□□□□□□□A

Received □□□□□□□□□□

Collected □□□□□□□□□□□□□

Test□Name □ EPA□□□□□□

Reference □ EPA□□□□□□

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Diquat□dissolved□	ND		□□□□	µg□L	□□□	□□□□□□□□□	□□□□□□□□□

Client□SampleID □ □□D□□□□□□□

Lab□ID □ □□□□□□□□□□B

Received □□□□□□□□□□

Collected □□□□□□□□□□□□□

Test□Name □ Endothall

Reference □ EPA□□□□□□

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Endothall	ND		□□	µg□L	□□□	□□□□□□□□□	□□□□□□□□□
□□□Surrogate□□□□□□D	□□□□	S□	□□□□□□	□ □Rec	□□□	□□□□□□□□□	□□□□□□□□□

North Coast Laboratories, Ltd.

Date: 4/22/2019

CLIENT: Pat-Chem Laboratories
Work Order: 1904216
Project: 19D0194

QC SUMMARY REPORT
Method Blank

Sample ID **MB-37217** Batch ID: **37217** Test Code: **548W** Units: **µg/L** Analysis Date **4/16/2019 7:05:37 PM** Prep Date **4/11/2019**
Client ID: Run ID: **ORGC14_190415A** SeqNo: **1409500**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Endothall	ND	45									
Surrogate: 2,3-D	236	0.10	250	0	94.5%	78	117	0			

Sample ID **MB-37218** Batch ID: **37218** Test Code: **549W** Units: **µg/L** Analysis Date **4/12/2019 10:50:42 PM** Prep Date **4/11/2019**
Client ID: Run ID: **ORLC8_190412B** SeqNo: **1409389**

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: 4/22/2019

CLIENT: Pat-Chem Laboratories
Work Order: 1904216
Project: 19D0194

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-37217** Batch ID: **37217** Test Code: **548W** Units: **µg/L** Analysis Date **4/16/2019 7:35:46 PM** Prep Date **4/11/2019**
Client ID: Run ID: **ORGC14_190415A** SeqNo: **1409501**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Endothall	201.9	45	225	0	89.7%	61	114	0			
Surrogate: 2,3-D	202	0.10	250	0	80.9%	78	117	0			

Sample ID **LCSD-37217** Batch ID: **37217** Test Code: **548W** Units: **µg/L** Analysis Date **4/16/2019 8:06:01 PM** Prep Date **4/11/2019**
Client ID: Run ID: **ORGC14_190415A** SeqNo: **1409502**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Endothall	211.5	45	225	0	94.0%	61	114	202	4.65%	30	
Surrogate: 2,3-D	232	0.10	250	0	92.8%	78	117	202	13.7%	30	

Sample ID **LCS-37218** Batch ID: **37218** Test Code: **549W** Units: **µg/L** Analysis Date **4/12/2019 11:01:24 PM** Prep Date **4/11/2019**
Client ID: Run ID: **ORLC8_190412B** SeqNo: **1409390**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diquat (dissolved)	1.748	0.40	2.00	0	87.4%	70	130	0			

Sample ID **LCSD-37218** Batch ID: **37218** Test Code: **549W** Units: **µg/L** Analysis Date **4/12/2019 11:22:51 PM** Prep Date **4/11/2019**
Client ID: Run ID: **ORLC8_190412B** SeqNo: **1409391**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diquat (dissolved)	1.929	0.40	2.00	0	96.4%	70	130	1.75	9.84%	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

NORTH COAST LABORATORIES LTD.

April 24, 2019

Pat-Chem Laboratories
1824 1st St.
San Fernando, CA 93340

Attn: Theresa Trevizo

Order No.: 1904281
Invoice No.: 146095
PO No.:
ELAP No.1247-Expires July 2020

RE: 19D0194

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	19D0194-01

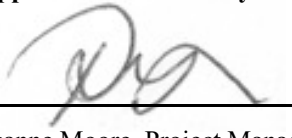
ND = Not Detected at the Reporting Limit

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: 24-Apr-2019
WorkOrder: 1904281

CASE NARRATIVE

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

Date □□Apr□□□□

WorkOrder □□□□□□□

ANALYTICAL□REPORT

Client□Sample□ID □□D□□□□□□□

Lab□ID □□□□□□□□□□A

Received □□□□□□□□□□

Collected □□□□□□□□□□□□□□

Test□Name □ Glyphosate

Reference □ EPA□□□□

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Glyphosate	ND		□□□	µg□L	□□□	□□□□□□□□	□□□□□□□□

North Coast Laboratories, Ltd.

Date: 4/24/2019

CLIENT: Pat-Chem Laboratories
Work Order: 1904281
Project: 19D0194

QC SUMMARY REPORT

Method Blank

Sample ID **MB-042319** Batch ID: **R99176** Test Code: **547W** Units: **µg/L** Analysis Date **4/24/2019 12:12:06 AM** Prep Date **4/23/2019**

Client ID: Run ID: **ORLC9_190423A** SeqNo: **1410780**

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

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

North Coast Laboratories, Ltd.

Date: 4/24/2019

CLIENT: Pat-Chem Laboratories
Work Order: 1904281
Project: 19D0194

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-042319** Batch ID: **R99176** Test Code: **547W** Units: **µg/L** Analysis Date **4/24/2019 12:33:54 AM** Prep Date **4/23/2019**
Client ID: Run ID: **ORLC9_190423A** SeqNo: **1410781**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Glyphosate	50.05	5.0	50.0	0	100%	80	118	0			

Sample ID **LCSD-042319** Batch ID: **R99176** Test Code: **547W** Units: **µg/L** Analysis Date **4/24/2019 12:55:40 AM** Prep Date **4/23/2019**
Client ID: Run ID: **ORLC9_190423A** SeqNo: **1410782**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Glyphosate	50.70	5.0	50.0	0	101%	80	118	50.0	1.29%	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

May 1, 2019

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

Lab ID : SP 1904727
Customer : 2-12670

Laboratory Report

Introduction: This report package contains total of 6 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	(2 pages)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID #	Matrix
19D0194-01	04/05/2019	04/09/2019	SP 1904727-001	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

906.0	04/18/2019:205621 All analysis quality controls are within established criteria
	04/17/2019:204197 All preparation quality controls are within established criteria

Inorganic - Wet Chemistry QC

314.0	04/20/2019:206082 All analysis quality controls are within established criteria
	04/20/2019:204610 All preparation quality controls are within established criteria

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
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2500 Stagecoach Road
Stockton, CA 95215
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Chico, CA 95926
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San Luis Obispo, CA 93401
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9415 W. Goshen Avenue
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TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

May 1, 2019 Lab ID : SP 1904727
Pat-Chem Laboratories Customer : 2-12670

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: 2019-05-01

May 1, 2019

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

Description : 19D0194-01
Project : 19D0194

Lab ID : SP 1904727-001
Customer ID : 2-12670

Sampled On : April 5, 2019-00:00
Sampled By : Not Available
Received On : April 9, 2019-17:15
Matrix : Water

Sample Result - Inorganic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Wet Chemistry								
Perchlorate	ND	2	ug/L		314.0	04/20/19:204610	314.0	04/20/19:206082

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

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May 1, 2019

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

Description : 19D0194-01
Project : 19D0194

Lab ID : SP 1904727-001
Customer ID : 2-12670

Sampled On : April 5, 2019-00:00
Sampled By : Not Available
Received On : April 9, 2019-17:15
Matrix : Water

Sample Result - Radio

Constituent	Result ± Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Radio Chemistry								
Tritium	0.000 ± 272	434	pCi/L	20000	906.0	04/17/19-09:15 2P1904197	906.0	04/18/19-10:46 2A1905621

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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May 1, 2019 Lab ID : SP 1904727
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	04/20/19:204610MCA	Blank	ug/L		ND	<2	
			LCS	ug/L	25.00	93.5 %	85-115	
			MS	ug/L	25.00	92.5 %	80-120	
		(CH 1972453-001)	MSD	ug/L	25.00	93.5 %	80-120	
			MSRPD	ug/L	25.00	1.1%	≤15	
	314.0	04/20/19:206082MCA	ICB	ppb		0.00	2.0	
			ICV	ppb	2.000	90.0 %	85-115	
			CCB	ppb		0.24	2.0	
			CCV	ppb	10.00	97.9 %	85-115	

Definition

ICV	: Initial Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
ICB	: Initial Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
CCV	: Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
CCB	: Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
Blank	: Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
LCS	: Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
MS	: Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSD	: Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSRPD	: MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
ND	: Non-detect - Result was below the DQO listed for the analyte.
DQO	: Data Quality Objective - This is the criteria against which the quality control data is compared.

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FAX: (559)734-8435
CA ELAP Certification No. 2810

May 1, 2019 Lab ID : SP 1904727
Pat-Chem Laboratories Customer : 2-12670

Quality Control - Radio

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Radio								
Tritium	906.0	04/17/19:204197JCA	Blank	pCi/L		-147	<300	
			LCS	pCi/L	1780	87.3 %	75-125	
			BS	pCi/L	1780	95.3 %	75-125	
			BSD	pCi/L	1780	98.2 %	75-125	
			BSRPD	pCi/L	1780	3.3%	≤25	
	906.0	04/18/19:205621JCA	CCV	pCi/L	26050	103 %	90-110	
			CCB	pCi/L		369	500	

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.
BS	: Blank Spikes - A blank is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.
BSD	: Blank Spike Duplicate of BS/BSD pair - A blank duplicate is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.
BSRPD	: BS/BSD Relative Percent Difference (RPD) - The BS relative percent difference is an indication of precision for the preparation and analysis.
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.

May 14, 2019

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

Lab ID : SP 1904937
Customer : 2-12670

Laboratory Report

Introduction: This report package contains total of 5 pages divided into 3 sections:

Case Narrative	(2 pages)	: An overview of the work performed at FGL.
Sample Results	(1 page)	: Results for each sample submitted.
Quality Control	(2 pages)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID #	Matrix
19D0194-01	04/08/2019	04/12/2019	SP 1904937-001	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	05/13/2019:206954 All analysis quality controls are within established criteria.
	05/01/2019:204742 All preparation quality controls are within established criteria.
903.0	04/30/2019:206237 All analysis quality controls are within established criteria.
	04/25/2019:204544 All preparation quality controls are within established criteria.
905.0	05/02/2019:206406 All analysis quality controls are within established criteria.
	04/23/2019:204465 All preparation quality controls are within established criteria.
Ra - 05	05/05/2019:206683 All analysis quality controls are within established criteria.
	04/28/2019:204549 All preparation quality controls are within established criteria, except:

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FAX: (559)734-8435
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May 14, 2019 Lab ID : SP 1904937
Pat-Chem Laboratories Customer : 2-12670

Radio QC

Ra - 05	The following note applies to Ra 228: 410 Relative Percent Difference (RPD) not within Maximum Allowable Value (MAV). Data was accepted based on the LCS or CCV recovery.

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: 2019-05-14

May 14, 2019

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

Description : 19D0194-01
Project : 19D0194

Lab ID : SP 1904937-001
Customer ID : 2-12670

Sampled On : April 8, 2019-11:30
Sampled By : Not Available
Received On : April 12, 2019-16:52
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	7.71 ± 1.81	1.78	pCi/L	15/5	900.0	05/01/19-10:06 2P1904742	900.0	05/13/19-11:02 2A1906954
Gross Beta	20.0 ± 1.87	1.49	pCi/L	50	900.0	05/01/19-10:06 2P1904742	900.0	05/13/19-11:02 2A1906954
Strontium 90	0.000 ± 0.209	0.546	pCi/L	8	905.0	04/23/19-18:30 2P1904465	905.0	05/02/19-16:30 2A1906406
Total Alpha Radium (226)	0.029 ± 0.152	0.470	pCi/L	3	903.0	04/25/19-17:30 2P1904544	903.0	04/30/19-14:08 2A1906237
Ra 228	0.149 ± 0.770	0.400	pCi/L	2	Ra - 05	04/28/19-18:00 2P1904549	Ra - 05	05/05/19-14:50 2A1906683

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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May 14, 2019 Lab ID : SP 1904937
Pat-Chem Laboratories Customer : 2-12670

Quality Control - Radio

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Radio								
Alpha	900.0	05/13/19:206954IWC	CCV	cpm	7902	43.7 %	35-47	
			CCB	cpm		0.1400	0.21	
Beta	900.0	05/13/19:206954IWC	CCV	cpm	7902	93.6 %	83-94	
			CCB	cpm		0.3200	0.51	
Gross Alpha	900.0	05/01/19:204742iwc	Blank	pCi/L		1.49	3	
			LCS	pCi/L	130.0	94.3 %	75-125	
			MS	pCi/L	130.0	69.3 %	60-140	
		(SP 1905256-001)	MSD	pCi/L	130.0	71.7 %	60-140	
			MSRPD	pCi/L	130.0	3.4%	≤30	
Gross Beta	900.0	05/01/19:204742iwc	Blank	pCi/L		0.33	4	
			LCS	pCi/L	26.68	151 %	84-160	
			MS	pCi/L	26.68	123 %	80-130	
		(SP 1905256-001)	MSD	pCi/L	26.68	109 %	80-130	
			MSRPD	pCi/L	130.0	12.1%	≤30	
Alpha	903.0	04/30/19:206237JCA	CCV	cpm	8266	38.0 %	37-46	
			CCB	cpm		0.1200	0.16	
Total Alpha Radium (226)	903.0	04/25/19:204544EMV	RgBlk	pCi/L		0.04	2	
			LCS	pCi/L	23.33	74.0 %	52-107	
			BS	pCi/L	23.33	80.6 %	43-111	
			BSD	pCi/L	23.33	82.2 %	43-111	
			BSRPD	pCi/L	23.33	1.9%	≤35.5	
Beta	905.0	05/02/19:206406EMV	CCV	cpm	8267	88.8 %	85-93	
			CCB	cpm		0.4400	0.58	
Total Strontium	905.0	04/23/19:204465EMV	RgBlk	pCi/L		0.16	2	
			LRS	pCi/L	17.53	116 %	53-133	
			BS	pCi/L	17.52	87.5 %	75-125	
			BSD	pCi/L	17.52	93.2 %	75-125	
			BSRPD	pCi/L	17.52	6.3%	≤20	
Beta	Ra - 05	05/05/19:206683EMV	CCV	cpm	8263	88.6 %	84-94	
			CCB	cpm		0.3800	0.48	
Ra 228	Ra - 05	04/28/19:204549EMV	RgBlk	pCi/L		-0.03	3	
			LRS	pCi/L	11.86	71.1 %	65-108	
			BS	pCi/L	11.86	115 %	75-125	
			BSD	pCi/L	11.86	82.0 %	75-125	
			BSRPD	pCi/L	11.86	3.9	≤3	410

Definition

CCV	: Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
CCB	: Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
Blank	: Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
RgBlk	: Method Reagent Blank - Prepared to correct for any reagent contributions to sample result.
LCS	: Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
LRS	: Laboratory Recovery Standard - Prepared to establish the batch recovery factor used in result calculations.
MS	: Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSD	: Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
BS	: Blank Spikes - A blank is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.
BSD	: Blank Spike Duplicate of BS/BSD pair - A blank duplicate is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.
MSRPD	: MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
BSRPD	: BS/BSD Relative Percent Difference (RPD) - The BS relative percent difference is an indication of precision for the preparation and analysis.
DQO	: Data Quality Objective - This is the criteria against which the quality control data is compared.

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May 14, 2019 Lab ID : SP 1904937

Pat-Chem Laboratories Customer : 2-12670

Quality Control - Radio

Explanation	
410	: Relative Percent Difference (RPD) not within Maximum Allowable Value (MAV). Data was accepted based on the LCS or CCV recovery.

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

CHAIN OF CUSTODY RECORD

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

Environmental Sample

Sample I.D.#: 19D0194

Customer: IPC, Inc.		**Project:** (MCC) Quarterly EFF	
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	04/08/19	1130	✓1	Ag, Al, Sb, As, Ba, Be, Cd, Cr, Cu, Fe,	Grab	AQ	1L P	HN	
			✓1	Mg, Hg, Ni, Se, Tl, Zn, Ca F, Bromate, Chlorite, Color, Odor, pH,	Grab	AQ	1L P	4°C	
			✓1	Conductivity, Alkalinity, Temperature CN	Grab	AQ	250 P	OH,	
			✓1	MBAS	Grab	AQ	500 P	AA 4°C	
			✓1	Perchlorate	Grab	AQ	500 P	4°C	
			8	✓524/✓504, 552 ✓	Grab	AQ	VOA	4°C	
			6	507, 515, 632, 508, 550, 506	Grab	AQ	1L G	4°C	
			5	Asbestos, Diquat, Endothall, Glphosate,	Grab	AQ	1L G	4°C	
			6	Dioxon- 2,3,7,8 TCDD Radioactive - Radium-226 & 228,Gross	Grab	AQ	1L G	4°C	
			1	Alpha, Gross Beta, Strontium-90 Tritium, Uranium	Grab	AQ	1L G	4°C	

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (PCL)	04/08/19	
Received by		Jaird Menjivar	4/8/19	12:30
Relinquished by		Jaird Menjivar	4/8/19	12:30
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	4/8/19	1510

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

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

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

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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

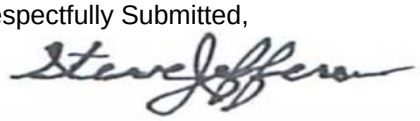
Attention: Ric Vardel
Report Date: 02-May-19 14:23
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0227-01) Collected: 09-Apr-19 By Ric Vardel						
pH	SM4500-H-B	AD91018	0.1	09-Apr-19 (PL)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD91020	0.05	10-Apr-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD90951	1.8	11-Apr-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD90951	1.8	11-Apr-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/2/2019
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.#: 19D0227

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
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	04/09/19	1010	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total & 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 (CPC)	04/09/19	
Received by		Jairo Mejivar	4/9/19	1:00PM
Relinquished by		Jairo Mejivar	4/9/19	1:00 PM
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	4/9/19	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.

Rev 2 Effective 5/1/17

PAT-CHEM
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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

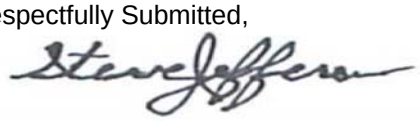
Attention: Ric Vardel
Report Date: 30-Apr-19 14:05
Subject: (MCC) Weekly EFF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0229-01) Collected: 09-Apr-19 By Carlos Alvarez						
Ammonia as N	EPA 350.1	AD91027	0.10	10-Apr-19 (SGS)	<0.10 mg/l	
Biochemical Oxygen Demand	SM 5210B	AD91032	2	15-Apr-19 (SGS)	2 mg/l	
Nitrate as N	EPA 353.2	AD90945	0.02	09-Apr-19 (LA)	0.18 mg/l	
Nitrite as N	EPA 353.2	AD90945	0.02	09-Apr-19 (LA)	<0.02 mg/l	
Total Kjeldahl Nitrogen	EPA 351.2	AD91029	0.10	11-Apr-19 (LA)	0.95 mg/l	
Total Suspended Solids	SM 2540D	AD91033	1	10-Apr-19 (EA)	1 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 4/30/2019
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.#: 19D0229

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	04/08/19	[redacted]	1	TSS	[redacted] Composite	AQ	1L P	4°C	
	04/09/19	1010	1	NH4, TKN	Grab	AQ	500 P	HS	
	04/09/19	1010	1	NO2, NO3	Grab	AQ	500 P	4°C	
	04/08/19		1	BOD	[redacted] Composite	AQ	1L P	4°C	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	C.	Carlos Alvarez (CAC)	04/09/19	
Received by		Jairo Menjivar	4/9/19	1600PM
Relinquished by		Jairo Menjivar	4/9/19	1600PM
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	4/9/19	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.

Rev 2 Effective 5/1/17

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

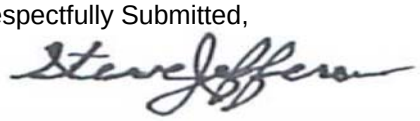
Attention: Ric Vardel
Report Date: 30-Apr-19 13:38
Subject: (MCC) Weekly INF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
INF (Sample I.D.# : 19D0228-01) Collected: 09-Apr-19 By Carlos Alvarez						
Biochemical Oxygen Demand	SM 5210B	AD91032	2	15-Apr-19 (SGS)	360 mg/l	
Total Suspended Solids	SM 2540D	AD91033	1	10-Apr-19 (EA)	124 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 4/30/2019
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.#: 19D0228

Customer: IPC, Inc.		Project : (MCC) Weekly INF	
Address: 9297 Research Drive		Sampled by: C. Dunn	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	04/08/19		1	TSS	Grab	AQ	1L P	4°C	
"	"		1	BOD	Grab	AQ	1L P	4°C	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Dunn	Carlos Alvarez (IPC)	04/09/19	
Received by		Jairo Mendivar	4/9/19	1:00PM
Relinquished by		Jairo Mendivar	4/9/19	1:00PM
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	4/9/19	1430

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
Grab
Comp

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

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

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

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

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

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

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

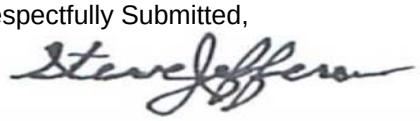
Attention: Ric Vardel
Report Date: 02-May-19 14:25
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0260-01) Collected: 10-Apr-19 By Ric Vardel						
pH	SM4500-H-B	AD91108	0.1	10-Apr-19 (PL)	7.8 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD91121	0.05	11-Apr-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD91037	1.8	12-Apr-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD91037	1.8	12-Apr-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/2/2019
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.#: 19DO260

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
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	04/10/19	1145	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.5/21.2°C
			1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
1	1	1							
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by	C.	Carlos Alvarez (SRC)	04/10/19	1251
Received by		MARIO SANTIESTEBAN (PCL)	4/10/19	1251
Relinquished by				
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	4/10/19	1410

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab **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.

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QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
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(818) 639-5300 ph
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pat-chem.com

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

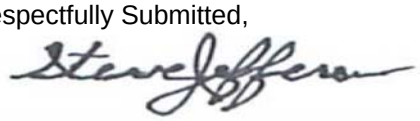
Attention: Ric Vardel
Report Date: 02-May-19 14:27
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0285-01) Collected: 11-Apr-19 By Ric Vardel						
pH	SM4500-H-B	AD91124	0.1	11-Apr-19 (JC)	7.5 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD91123	0.05	11-Apr-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD91117	1.8	13-Apr-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD91117	1.8	13-Apr-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/2/2019
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.#: 1900285

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
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	04/11/19	1130	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Arroyo (CPC)	04/11/19	
Received by	EG		4/11/19	1145
Relinquished by	EG		4/11/19	1300
Received by				
Relinquished by				
Received in lab by		Alex Walker Jr	4/11/19	1307

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC? Yes 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 these Terms and Conditions of sale, including the price schedule, and any additions or amendments hereto which are agreed to in writing. "Client" means the individual or entity who 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 not 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 it a sampling, the client shall be responsible for the conditions which the samples are collected and for conditions in and about the sampling site and for advising PCL of the same and all information required to enable PCL to perform its services safely and efficiently.

6. Cancellation

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

7. Overriding Agreement

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

8. Force Majeure

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

9. Confidentiality

Data and the sample materials provided 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 filed to pay PCL for all services rendered or is otherwise in breach of the agreement) subject to any disclosure required by law or legal process. PCL shall use the same standard of care it uses in protecting its own confidential data and shall not be responsible for unauthorized disclosure of said data where such standard was observed. PCL reports and information provided therein are for the exclusive use and benefit of client and client agrees there shall be no third party beneficiary of such reports, data or information. Client will not disclose to any third party any information or data concerning PCL test methods, software programs or other formulations.

10. Hold Harmless

Client releases, and shall save, indemnify, defend and hold PCL, its employees, officers, investors, agents, affiliates, subsidiaries and parent harmless from and against any and all liabilities, losses or damages, claims, demands, causes of action, suits and associated expenses including, but not limited to, all court fees (the Litigation Expenses) and awards arising in favor of Client or any third party as a result of, and/or in any way occurring incident to arising out of, or in connection with the performance of services by PCL pursuant to any agreement and/or subcontractor pertaining to disposal of client's characteristic materials, 1. injury, disease or death of persons 2. loss of, damage to, or loss of use of property and or 3. financial loss of every and all character. This indemnity does not apply to any of the foregoing losses, costs, damages, or expenses caused solely by the gross negligence or willful misconduct of PCL or its employees. Further, this indemnity shall specifically apply to losses, claims damages, actions of every kind and character, arising out of or in connection with the negligence of or breach of contract by any indemnified Person, whether actual or alleged, in the performance of services under this agreement. The foregoing indemnities will be in addition to any liability which the client might otherwise have to PCL and the other indemnified Persons. To the extent not prohibited by applicable law, client agrees that its indemnity obligation will be supported by available liability insurance coverage to be carried by client, which insurance shall be in the minimum amounts permitted under applicable law. In no event shall PCL be liable to client for indirect, punitive, special, incidental or consequential damages (including, without limitation, loss of profit or business interruption, litigation Expenses or other fees (including, without limitation, attorney's fees, court costs, and /or pre or post judgment interest)), or any other expenses be such be sought by client in a claim made by a customer against or involving PCL, or any indemnified person in connection with this agreement, or any services provided under this agreement, even if client is the prevailing party.

11. Hazardous Substances

For PCL to perform the services requested by client, client will provide and PCL will receive samples materials for analysis such as soil, water, polychlorinated biphenyls, asbestos 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 (together, the 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 client's agent 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 to accordance with PCL's current sample disposal policy. In addition, all samples received by PCL for asbestos bacterial analysis, client will be charged a sample acquisition 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 where the services were performed or with prices disclosed and rates 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 since 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 law or 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 against fees associated with such collection proceedings or otherwise.

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 placed by or in writing.

14. No Third Party Beneficiaries; No Right of Reliance

PCL shall have no responsibility or liability to client's use or reliance on data, information, or reports furnished by PCL. Client is securing services hereunder for its 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 not be 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 public of any security, the securing, amendment, renewal or extension of any loan from any financial institution or other lender or the certification to or confirmation with, directly or indirectly, any governmental agency or instrument.

15. Rush Analysis

Rush analysis are available for an additional charge and must be arranged in advanced. In the 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 upon client if requested. All analyses with holding times of 24 hours or less, samples must arrive within 36 hours to allow PCL to meet holding times without additional charge. All short holding times (i.e. 15 minutes) samples must arrive at the lab within 24 hours. Every effort will be made to meet all the holding times but in some cases (holding times of 48 hours or less) there is a chance that a holding time may be missed. It is the client's responsibility to ensure that some day in order to guarantee holding times are met. After hours, time delivery, traffic congestion 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. The accepted 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

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

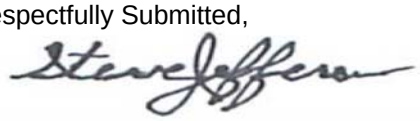
Attention: Ric Vardel
Report Date: 02-May-19 14:30
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0323-01) Collected: 12-Apr-19 By Ric Vardel						
pH	SM4500-H-B	AD91320	0.1	12-Apr-19 (JC)	7.6 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD91321	0.05	13-Apr-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD91207	1.8	14-Apr-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD91207	1.8	14-Apr-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/2/2019
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.#: 19D0323

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	04/12/19	1100	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.6/20.7
			1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	04/12/19	1400
Received by		MARIO SANTIESTEBAN (PCL)	4/12/19	1400
Relinquished by				
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	4/12/19	1535

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type	Preservations
Grab	**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

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

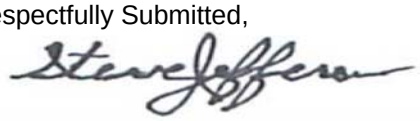
Attention: Ric Vardel
Report Date: 02-May-19 14:33
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0328-01) Collected: 13-Apr-19 By Julio Leal						
pH	SM4500-H-B	AD91421	0.1	14-Apr-19 (JC)	7.5 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD91422	0.05	14-Apr-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD91318	1.8	15-Apr-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD91318	1.8	15-Apr-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/2/2019
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.#: 19D0328

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field (Lab)
EFF	04-03-19	0810	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.46/7.0°C
	1	1	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by	Julio Leal	4-13-19	1010
Received by			
Relinquished by: Jose L Gomez	Jose L Gomez	4/13/19	1010
Received by			
Relinquished by			
Received in lab by	Jordan Corkery	4/13/19	11:05

Sample Received Checklist

Temperature upon receipt: 7°C

# of bottles agrees with COC? (Yes) 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 (PCL) Terms and Conditions

1. Definitions

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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. [illegible]

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

[illegible]

5. Clients Responsibility

[illegible]

6. Cancellation

[illegible]

7. Overriding Agreement

[illegible]

8. Force Majeure

[illegible]

9. Confidentiality

[illegible]

10. Hold Harmless

[illegible]

11. Hazardous Substances

[illegible]

12. Prices/Payments

[illegible]

13. Agreement Modification

[illegible]

14. No Third Party Beneficiaries: No Right of Reliance

[illegible]

15. Rush Analysis

[illegible]

16. Holding Times

[illegible]

17. Sample Retention

[illegible]

18. Sample Pick Up/Field Tech Sampling

[illegible]

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
San Fernando, CA 91340
(818) 639-5300 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-May-19 14:36
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0333-01) Collected: 14-Apr-19 By Golan Kfir						
pH	SM4500-H-B	AD91522	0.1	14-Apr-19 (PL)	7.7 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD91523	0.05	15-Apr-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD91420	1.8	16-Apr-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD91420	1.8	16-Apr-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/2/2019
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.#: 19D0333

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	4/14/19	10:15	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: GK	Golan IPC	4/14/19	10:20
Received by: Alex Walker	Alex Walker Jr	4/14/19	1153
Relinquished by: Alex Walker	Alex Walker Jr	4/14/19	1413
Received by:			
Relinquished by:			
Received in lab by: Alex Walker	Alex Walker Jr	4/14/19	1417

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 (PCL) Terms and Conditions

1. Definitions
2. Independent Contractor
3. Orders and Acceptance
4. Limit of Liability
5. Clients Responsibility
6. Cancellation
7. Overriding Agreement
8. Force Majeure
9. Confidentiality
10. Hold Harmless
11. Hazardous Substances
12. Prices/Payments
13. Agreement Modification
14. No Third Party Beneficiaries: No Right of Reliance
15. Rush Analysis
16. Holding Times
17. Sample Retention
18. Sample Pick Up/Field Tech Sampling

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

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

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

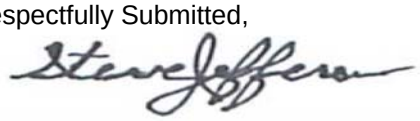
Attention: Ric Vardel
Report Date: 02-May-19 14:38
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0348-01) Collected: 15-Apr-19 By Golan Kfir						
pH	SM4500-H-B	AD91611	0.1	15-Apr-19 (PL)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD91613	0.05	16-Apr-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD91534	1.8	17-Apr-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD91534	1.8	17-Apr-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/2/2019
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.#: 19D0348

Customer: IPC, Inc.		Project: **(MCC) Daily EFF**	
Address: 9297 Research Drive		Sampled by: C. Olivarez	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	04/15/19	1140	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
1	1	1	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Olivarez	Carlos Olivarez (IPC)	04/15/19	
Received by	EB	Carlos (PCL)	4.15.19	1200
Relinquished by	EB	Carlos (PCL)	4.15.19	1300
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	4/15/19	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	Preservations
Grab	**HC** - HCl
Comp	**HS** - H_2SO_4
Matrix	**HN** - HNO_3
AQ - Water	**HP** - H_3PO_4
SO -Soil / Sludge	**OH** - NaOH
OT - Other	**ST** - Sodium Thiosulfate
Bottle Type	**AA** - Ascorbic Acid
P - Plastic	**Al** - $AlCl_3$
G - Amber Glass	**Cu** -$CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

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

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

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

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

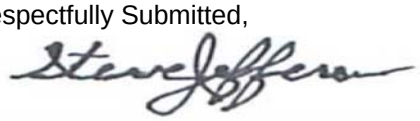
Attention: Ric Vardel
Report Date: 30-Apr-19 13:58
Subject: (MCC) Weekly INF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
INF (Sample I.D.# : 19D0377-01) Collected: 15-Apr-19 By Golan Kfir						
Biochemical Oxygen Demand	SM 5210B	AD91744	2	22-Apr-19 (EA)	420 mg/l	
Total Suspended Solids	SM 2540D	AD91746	1	17-Apr-19 (EA)	271 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 4/30/2019
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.#: 19D0377

Customer: IPC, Inc.
Address: 9297 Research Drive, Irvine, CA 92618
Project: (MCC) Weekly INF
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
INF	4/15/19	0:00	1	TSS 24h comp.	~~Grab~~	AQ	1L P	4°C	
	"	"	1	BOD 24h. comp.	~~Grab~~	AQ	1L P	4°C	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	GK	Golan, IPC	4/16/19	10:00
Received by	EG	[illegible]	4.16.19	1220
Relinquished by	EG	[illegible]	4.16.19	1430
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	4/16/19	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

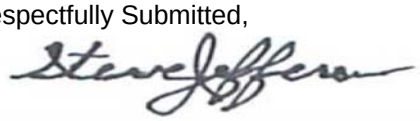
Attention: Ric Vardel
Report Date: 03-May-19 10:56
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0378-01) Collected: 16-Apr-19 By Golan Kfir						
pH	SM4500-H-B	AD91748	0.1	16-Apr-19 (JC)	7.5 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD91742	0.05	17-Apr-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD91620	1.8	18-Apr-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD91620	1.8	18-Apr-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/3/2019
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.#: 19D0378

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	4/16/19	9:50	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: GK	Golan IPC	4/16/19	10:00
Received by: Eli	Eli Cuarle	4.16.19	1220
Relinquished by: Eli	Eli Cuarle	4.16.19	1430
Received by:			
Relinquished by:			
Received in lab by:	MARIO SANTIESTEBAN (PCL)	4/16/19	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

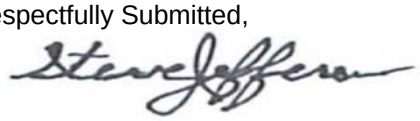
Attention: Ric Vardel
Report Date: 30-Apr-19 14:08
Subject: (MCC) Weekly EFF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0379-01) Collected: 16-Apr-19 By Golan Kfir						
Ammonia as N	EPA 350.1	AD91812	0.10	18-Apr-19 (SGS)	0.10 mg/l	
Biochemical Oxygen Demand	SM 5210B	AD91744	2	22-Apr-19 (EA)	<2 mg/l	
Nitrate as N	EPA 353.2	AD91737	0.02	17-Apr-19 (LA)	0.48 mg/l	
Nitrite as N	EPA 353.2	AD91737	0.02	17-Apr-19 (LA)	<0.02 mg/l	
Total Kjeldahl Nitrogen	EPA 351.2	AD92237	0.10	24-Apr-19 (LA)	1.07 mg/l	
Total Suspended Solids	SM 2540D	AD91746	1	17-Apr-19 (EA)	1 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 4/30/2019
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.#: 19D0379

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	4/16/19	9:50	1	TSS	Grab	AQ	1L P	4°C	
	"	"	1	NH4, TKN	Grab	AQ	500 P	HS	
	"	"	1	NO2, NO3	Grab	AQ	500 P	4°C	
	4/15/19	0:00	1	BOD	~~Grab~~ 24h. comp	AQ	1L P	4°C	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: GK	Golan IPC	4/16/19	15:00
Received by: EG	Emily	4/16/19	1220
Relinquished by: EG	Emily	4.16.19	1430
Received by:			
Relinquished by:			
Received in lab by:	MARIO SANTIESTEBAN (PCL)	4/16/19	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.

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-19 10:58
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0420-01) Collected: 17-Apr-19 By Golan Kfir						
pH	SM4500-H-B	AD91815	0.1	17-Apr-19 (JC)	7.3 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD91814	0.05	18-Apr-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD91741	1.8	19-Apr-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD91741	1.8	19-Apr-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,

Steve Jefferson 5/3/2019
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.#: 19D0420

Customer: IPC, Inc.
Address: 9297 Research Drive
Irvine CA 92618

Project : (MCC) Daily EFF

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	4/17/19	12:20	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.33@ 13.4°C
	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	GK	Golan IPC	4/17/19	12:25
Received by		MARIO SAN ESTEBAN	4/17/19	1440
Relinquished by				
Received by				
Relinquished by				
Received in lab by		MARIO SAN ESTEBAN (PCL)	4/17/19	1550

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	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

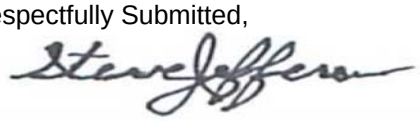
Attention: Ric Vardel
Report Date: 03-May-19 11:00
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0437-01) Collected: 18-Apr-19 By Carlos Alvarez						
pH	SM4500-H-B	AD91912	0.1	18-Apr-19 (JC)	7.5 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD91913	0.05	19-Apr-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD91813	1.8	20-Apr-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD91813	1.8	20-Apr-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/3/2019
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.#: 19D0437

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
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	04/18/19	0925	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
1	1	1	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (SPL)	04/18/19	
Received by		Jairo Munguia	4/18/19	12:40PM
Relinquished by		Jairo Munguia	4/18/19	12:40PM
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	4/18/19	1410

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

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

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

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

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

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

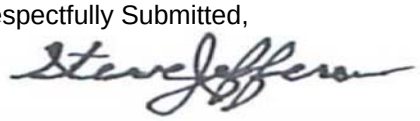
Attention: Ric Vardel
Report Date: 03-May-19 11:03
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0460-01) Collected: 19-Apr-19 By Carlos Alvarez						
pH	SM4500-H-B	AD92025	0.1	19-Apr-19 (JC)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD92024	0.05	20-Apr-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD91911	1.8	21-Apr-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD91911	1.8	21-Apr-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/3/2019
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.#: 1900460

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
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	04/19/19	1140	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (CAE)	04/19/19	
Received by		Jairo Manjivar	4/19/19	12:00
Relinquished by		Jairo Manjivar	4/19/19	12:00
Received by				
Relinquished by				
Received in lab by			4.19.19	12:--

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.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories (PCL) Terms and Conditions

1. Definitions

"Terms and Conditions" means these Terms and Conditions of sale, including the price schedule, and any additions or amendments hereto which are agreed to in writing. "Client" means the individual or entity who 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 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 not withstanding any provisions to the contrary in any client purchase orders or contracts.

5. Clients Responsibility

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

6. Cancellation

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

7. Overriding Agreement

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

8. Force Majeure

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

9. Confidentiality

Data and the sample materials provided by client or at client's request and the results obtained by PCL shall be held in confidence (unless such information is generally available to the public or is the public domain or client has filed to pay PCL for all services rendered or is otherwise in breach of the agreement) subject to any disclosure required by law or legal process. PCL shall use the same standard of care it uses in protecting its own confidential data and shall not be responsible for unauthorized disclosure of said data where such standard was observed. PCL reports and information provided thereon are for the exclusive use and benefit of client and client agrees there shall be no third party beneficiary of such reports, data or information. Client will not disclose to any third party any information concerning technical information, software programs or other formulations.

10. Hold Harmless

Client releases and shall save, indemnify, defend and hold PCL, its employees, officers, directors, agents, affiliates, subsidiaries and parent harmless from and against any and all liabilities, losses or damages, claims, demands, causes of action, suits and associated expenses including, but not limited to all court fees (the Litigation Expenses) and awards arising in favor of Client or any third party as a result of, and/or in any way occurring incident to arising out of, or in connection with the performance of services by PCL pursuant to this agreement and/or transportation, handling or disposal of client's hazardous materials. 1. Injury, disease or death of persons 2. Loss of, damage to, loss of, or loss of use of property and or 3. Financial loss of every kind of character. This indemnity does not apply to any of the foregoing losses, costs, damages, or injuries caused solely by the gross negligence or willful misconduct of PCL or its employees. Further, this indemnity shall specifically apply to losses, claims damages, actions of every kind and character arising out of or in connection with the negligence of or breach of contract by any indemnified Person, whether actual or alleged, in the performance of services under this agreement. The foregoing indemnities will be in addition to any liability all or the client might otherwise have to PCL and the other indemnified Persons. To the extent necessary under applicable law, client agrees that its indemnity obligations will be supported by available liability insurance coverage to be furnished by client, which insurance shall be in the maximum amounts permitted under applicable law. In no event shall PCL be liable to client for indirect, punitive, special, incidental or consequential damages (including, without limitation, loss of profit or business interruption, Litigation Expenses or other fees (including, without limitation, attorney's fees, court costs, and/or pre or post judgment interest), or any other expenses or costs incurred by client or any other party in any litigation against or involving PCL or any indemnified person in connection with this agreement or all services provided under this agreement even if client is the prevailing party.

11. Hazardous Substances

For PCL to perform the services requested by client, client and any role and PCL will receive samples materials for analysis such as asbestos, pyrophoric, corrosive, biohazards, explosive 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 change in 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 as 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 EPA bacterial analysis, client will be charged a sample disposal fee, per sample submitted, in accordance with our QA/QC policies and procedures.

12. Prices/Payments

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

13. Agreement Modification

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

14. No Third Party Beneficiaries: No Right of Reliance

PCL shall have no responsibility or liability for client's use of or reliance on data, information, or reports furnished by PCL. Client in executing 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 rely 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 securities, the securing, encumbrance, 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 advance. If, for any unforeseen reason, the rush turnaround time cannot be met, the normal price will apply.

16. Holding Times

PCL cannot be responsible for holding times that are exceeded because of samples that are 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 ensure that the holding time can be met. Short Holding Times of 48 hours or less (Nitrate is 48 hours) must be delivered that same day in order to guarantee holding times are met. After hours, late delivery, freight company delays or similar issues are subject to additional rush fees and/or the inability to meet holding times. All holding times 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. Primary and 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 inflated on our 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: 30-Apr-19 14:13
Subject: (MCC) Monthly EFF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0132-01) Collected: 04-Apr-19 By JL						
Boron	EPA 200.7	AD90510	0.10	05-Apr-19 (AF)	0.43 mg/l	
MBAS	SM 5540C	AD90506	0.20	05-Apr-19 (PL)	<0.20 mg/l	
Oil & Grease (HEM)	EPA 1664A	AD90511	5	05-Apr-19 (WW)	<5 mg/l	
Phosphorus, Total as P	EPA 365.1	AD90946	0.03	09-Apr-19 (LA)	0.05 mg/l	
Total Dissolved Solids	SM 2540C	AD90839	5	10-Apr-19 (EA)	1120 mg/l	
Chloride	EPA 300.0	AD90517	1.0	05-Apr-19 (AV)	274 mg/l	
Sulfate as SO4	EPA 300.0	AD90517	0.5	05-Apr-19 (AV)	268 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 4/30/2019
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.#: 19D0132

Customer: IPC, Inc.		Project : (MCC) Monthly EFF	
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	Preserv.	Field Data (pH / Temperature) pH: Field Lab
EFF	04/04/19	0940	1	SO4, Cl, 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	250 P	4°C	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (PCL)	04/04/19	
Received by	EC	Carlos pcl	4/4/19	1130
Relinquished by	EC	Carlos pcl	4/4/19	1445
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	4/4/19	1445

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	**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: 03-May-19 11:05
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0468-01) Collected: 20-Apr-19 By Ric Vardel						
pH	SM4500-H-B	AD92117	0.1	20-Apr-19 (JC)	7.5 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD92118	0.05	21-Apr-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD92022	1.8	23-Apr-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD92022	1.8	23-Apr-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/3/2019
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.#: 19D0468

Customer: IPC, Inc.		Project: (MCC) Daily EFF	
Address: 9297 Research Drive, Irvine, CA 92618		Sampled by: Ric 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	4/20	0915	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
11	11	11	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Ric Vardel (IPC)	4/20	0930
Received by				
Relinquished by	Jose L Gomez	Jose L Gomez	4/20/19	1000
Received by				
Relinquished by				
Received in lab by		Jordan Corkery	4/20/19	11:10

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

Sample Received Checklist

Temperature upon receipt: 11°C

# of bottles agrees with COC?	(Yes)	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 (PCL) Terms and Conditions

1. Definitions

"Terms and Conditions" means these Terms and Conditions of sale, including the price schedule, and any additions or amendments hereto to 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 restated 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 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 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 of 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 data report shall be deemed releases PCL from any liability in excess of the invoiced amount for the services notwithstanding any provisions to the contrary in any client's 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 domain or client has filed to pay PCL for all services rendered or is otherwise in breach of the agreement) subject to any disclosure required by law or legal process. PCL shall use the same standard of care it uses in protecting its own confidential data and shall not be responsible for unauthorized disclosure of said data where such standard was observed. PCL reports and information provided thereunder are for the exclusive use and benefit of Client and client agrees there shall be no third party beneficiary of such reports, data or information. Client will not disclose to any third party any information concerning PCL's methodology, software programs or other formulations.

10. Hold Harmless

Client releases and shall save, indemnify, defend and hold PCL, its employees, officers, directors, agents, affiliates, assigns in each 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 attorneys fees (the Litigation Expenses) and awards arising in favor of Client or any third party as a result of, and/or in any way occurring incident to, arising out of, or in connection with the performance of services by PCL pursuant to this agreement and/or transportation, handling or disposal of client characterize materials. 1. Injury or loss or death of persons 2. Loss of, damage to, lien of, seizure of use of property and/or 3. Financial loss of every kind of character. This indemnity does not apply to any of the foregoing losses, costs, damages, or injuries caused solely by the gross negligence or willful misconduct of PCL or its employees. Further, this indemnity shall specifically apply to losses, claims damages, actions of every kind and character arising out of or in connection with the negligence of or breach of contract by any Indemnified Person, whether actual or alleged, in the performance of services under this agreement. The foregoing indemnities will be in addition to any liability which the client might otherwise have to PCL and the other Indemnified Persons. To the extent necessary under applicable law, Client agrees that its indemnity obligations will be supported by, and the Client shall maintain, insurance to be furnished by Client, which insurance shall be in the maximum amounts permitted under applicable law. In no event shall PCL be liable to Client for indirect, punitive, special, incidental or consequential damages including, without limitation, loss of profit or business interruption or cancellation expenses or other fees (including, without limitation, attorney's fees, court costs, and our post-trial judgment collection), or any other economic loss sustained by Client in any way connected with any claim against or involving PCL or any Indemnified Person in connection with this agreement, in an amount greater than the fees paid by Client to PCL for the services which are the subject of this agreement.

11. Hazardous Substances

For PCL to perform the services requested by client, client will provide and PCL will receive samples materials for analysis such as asbestos, polychlorinated biphenyls, bacteria or any other hazardous or toxic material, waste and substances which are defined, designated or classified as such under federal, state or local law. Unless PCL is subject to regulations (whether now existing or hereafter enacted or promulgated) or any public or governmental interpretation of any thereof (the "Regulations Materials"), Client understands and agrees that any such 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 its PCL's QA/QC policies. In the event the client does not specify as 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 analysis bacterial analysis, client will be charged a sample disposal fee, per sample submitted, in accordance with our QA/QC policies and procedures.

12. Prices/Payments

Client shall pay PCL in accordance with PCL's applicable price schedule in effect at the time of quotation or on the date the services were rendered or with prices quoted and later confirmed in writing. The price schedule is subject to change at any time without notice. Payment in advance or when analysis is completed is required for all new clients or until a history of payment and/or credit account has been established with PCL. For those clients with an established credit account, the terms for payment of charges are NET CASH within thirty (30) days from date of invoices. To the fullest extent permitted by 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 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 clients authorized representative, except that subsequent orders for additional services may be verbal or in writing.

14. No Third Party Beneficiaries: No Right of Reliance

PCL shall have no responsibility or liability for client's use of or reliance on data, information, or reports furnished by PCL. Client is ordering services hereunder for its 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 advance. If, for any unforeseen reason, the rush turnaround time cannot be met, the normal price will apply.

16. Holding Times

PCL cannot be responsible for holding times that are exceeded because of samples that are delivered or unreceived 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 36 hours to allow PCL to meet holding times without assuming rush surcharge. All short holding times, 7 days, samples must arrive at the lab within 24 hours prior acceptance to ensure that the holding times can be met. Short Holding Times of 48 hours or less (Bacteria) should be delivered the same day in order to guarantee holding times are met. After hours, late delivery, freight damaging 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 a minimum sixty (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 disposed 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 stage, as determined by PCL will be

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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

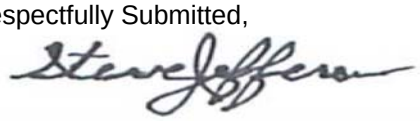
Attention: Ric Vardel
Report Date: 03-May-19 11:07
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0474-01) Collected: 21-Apr-19 By Ric Vardel						
pH	SM4500-H-B	AD92228	0.1	21-Apr-19 (PL)	7.5 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD92229	0.05	22-Apr-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD92116	1.8	23-Apr-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD92116	1.8	23-Apr-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/3/2019
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.#: 19D0474

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	4/21	0930	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
〃	〃	〃	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Ric Vardel (IPC)	4/21	1000
Received by		Alex Walker Jr (PCL)	4/21/19	1115
Relinquished by		Alex Walker Jr	4/21/19	1930
Received by				
Relinquished by				
Received in lab by		Alex Walker Jr	4/21/19	13:45 / 13:45 AW

Sample Received Checklist

Temperature upon receipt: 4°c

# of bottles agrees with COC?	Yes 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 (PCL) Terms and Conditions

1. Definitions

"Terms and Conditions" means these Terms and Conditions of sale, including the price schedule, and any additions or amendments hereto which are agreed to in writing. "Client" means the individual or entity who may request laboratory services consisting of 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 place 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), EA 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 sample 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 perform the sampling, the client shall be responsible for the condition which the samples are collected and for conditions in and about the sampling site and for advising PCL of the same and all information required to enable PCL to perform its services safely and efficiently.

6. Cancellation

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

7. Overriding Agreement

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

8. Force Majeure

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

9. Confidentiality

Data and the sample materials provided by client or at client's request and the results obtained by PCL shall be held in confidence (unless such information is generally available to the public or is the public domain or client has 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 chemical data provided thereto are for the exclusive use and benefit of Client and client agrees client shall not be a third party beneficiary of such reports, data or information. Client will not disclose to any third party any information concerning technical information, software programs or other formulations.

10. Hold Harmless

Client releases and shall save, indemnify, defend and hold PCL, its employees, officers, directors, agents, affiliates, subsidiaries and parent harmless from and against any and all liabilities, losses, damages, claims, demands, causes of action, costs and associated expenses including, but not limited to, all court fees (including Expenses) and awards arising in favor of Client or any third party as a result of and/or in any way resulting incident to, arising out of, or in connection with the performance of services by PCL pursuant to this agreement and/or their subsequent handling or disposal of client's hazardous substance, 1. injury, disease or death of persons 2. loss of, damage to, loss of, or loss of use of property and or 3. environmental or waste of any of the foregoing losses, costs, damages, or injuries caused solely by the gross negligence or willful misconduct of PCL or its employees. Further, this indemnity shall specifically apply to actions, claims, damages, or loss of every kind and character that may arise 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 not prohibited under applicable law, client agrees that its indemnity obligation will be supported by available liability insurance coverage to be furnished by client, which insurance shall be in the maximum amounts permitted under applicable law. In no event shall PCL be liable to client for indirect, punitive, special, incidental or consequential damages (including, without limitation, loss of profit or business interruption), Litigation Expenses or other fees (including, without limitation, attorney's fees, court costs, and cost of your judgment interest), or any other expenses or costs incurred by client or any other party in any litigation against or involving PCL or any indemnified person in connection with this agreement or any services provided under the 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, waster and substances which are defined, determined or identified as such under federal, state or local law(s), 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 EHS/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 operation 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 cash or check or credit card is required for all services rendered to clients or until a history of payment and/or credit account has been established with PCL. For those clients with an established credit account, the terms for payment of charges are NET CASH without invoice thirty (30) days from date of invoices. To the fullest extent permitted by law, 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 balance. If unpaid amounts are collected through legal proceedings or arbitration, the client shall pay reasonable costs and attorney's fees (or agents' fees associated with such collection procedure as well.

13. Agreement Modification

Changes to conditions or amendments to the terms shall be effective only if signed and executed by an officer of PCL and by the client or a representative showing that individual's right for additional services may be verbal or in writing.

14. No Third Party Beneficiaries; No Right or Reliance

PCL shall have no responsibility or liability for client's use of or reliance on data, information, or reports furnished by PCL. PCL is passing services hereunder for its 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 PCL's data, information or reports. Client represents, warrants, and agrees that said data, information and reports are not requested or will be used to/relied upon, in connection with or as part of, the purchase, sale, underwriting, or other disposition of any securities, or with regard to other transactions of a similar nature, including, without limitation, any offering of securities, syndication, assignment, participation, recapitalization, amendment, renewal or extension of any loan from any financial institution or other lender or the certification of any fact in connection with, directly or indirectly, any governmental agency or department.

15. Rush Analysis

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

16. Holding Times

PCL cannot be responsible for holding times that are exceeded because of samples that are 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 72 hours of collection for PCL to meet holding times without incurring a rush surcharge. All short holding times, (72 hours, 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 (Coliform is 6 hours) must be delivered that same day in order to guarantee holding times are met. After hours, late delivery, freight company delays or similar issues are subject to additional rush fees and/or the inability to meet holding times. All holding times are in effect as of the publication date of this fee schedule and are subject to change without notice.

17. Sample Retention

All samples are retained for at least thirty (30) days after analysis has been completed. Sample storage for longer periods is by request only. Pre-arranged long term storage is subject to an additional charge. Samples will be discarded at the end of the pre-arranged storage time.

18. Sample Pick Up/Field Tech Sampling

All pick up/sampling fees have been quoted 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

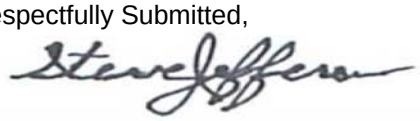
Attention: Ric Vardel
Report Date: 03-May-19 11:09
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0481-01) Collected: 22-Apr-19 By Ric Vardel						
pH	SM4500-H-B	AD92321	0.1	22-Apr-19 (PL)	7.6 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD92320	0.05	23-Apr-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD92238	1.8	24-Apr-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD92238	1.8	24-Apr-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/3/2019
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.#: 19D0481

Customer: IPC, Inc.		Project : **(MCC) Daily EFF**	
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	04/22/19	1035	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (PCL)	04/22/19	
Received by		PCL	4/22/19	1130
Relinquished by		PCL	4-22-19	
Received by				
Relinquished by				
Received in lab by		PCL	4-22-19	1130

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.

Rev 2 Effective 5/1/17

Pat-Chem Laboratories (PCL) Terms and Conditions

1. Definitions

"Terms and Conditions" means these terms and conditions of sale, including the price schedule, and any additions or amendments to them which are agreed to in writing. "Client" means the individual or entity who may request laboratory services (including sampling services) and who is the party, employee, agent and representative. "Price Schedule" means Pat-Chem Laboratories (PCL) standard price schedule, as such document may be amended or revised from time to time by PCL.

2. Independent Contractor

PCL acts solely as an independent [illegible] in providing all services.

3. Orders and Acceptance

PCL offers and will accept orders for services or estimates for only under the following General Terms and Conditions (the "Terms"). These Terms shall govern 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 request to PCL or PCL may solicit orders from Client. 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 acceptance of consulting services constitutes the Client's consent to be governed by these terms and conditions. No additional or additional terms and conditions expressed in a Client's document shall be deemed to become a part of this contract, regardless of payment 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 whenever or numerical conformity with the U.S. Environmental Protection Agency (EPA), U.S. Patent and Trade Mark Office, American Society for Testing and Materials (ASTM), Association of Official Analytical Chemists (AOAC), Standard Methods for the Examination of Water and Wastewater and/or other recognized methodologies. PCL reserves the right to deviate from these methodologies if necessary or appropriate to the nature or composition of the samples or materials 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 (SOPs and/or the QA/QC policies. The total liability of PCL, its officers, agents, employees, or successors to the client arising out of or in connection with the services to be provided herein, shall not exceed the invoiced amount for such services. Client's acceptance of a work order or of the proposal relevant PCL hereby limits its liability to the invoiced amount for the services notwithstanding any provisions to the contrary in any client purchase orders or contracts.

5. Clients Responsibility

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

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, and shall be 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 its obligations 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 previously available to the public or is the public domain or client has given written PCL for all services rendered. In the absence of the agreement, subject to any disclosure required by law or legal process. PCL shall use the same standard of care it uses in conducting its own confidential data and shall not be responsible for unauthorized disclosure of test data where such disclosure was [illegible] PCL reports and information provided pursuant to this agreement or Client's failure to maintain confidentiality when Client uses PCL reports or test results. Client will not disclose PCL's test procedures, information concerning methodologies, software programs or secret formulations.

10. Hold Harmless

Client will defend and hold harmless, indemnify, and hold PCL, its employees, officers, directors, agents, affiliates, subsidiaries and parent companies and agents, and each of its successors, heirs or assigns (jointly, severally or collectively, each and individually referred to as "Indemnified Party") from and against any and all claims, demands, losses, liabilities, costs and expenses (including reasonable attorneys' fees and costs) of any kind or nature whatsoever, whether or not involving a third party claim, which arise out of, result from or are related to (a) any actual or alleged infringement of any patent, trademark, copyright or trade secret, or misappropriation or misuse of any confidential information or other proprietary right of any person or entity, which arise out of or are related to the performance of the services by PCL or the use by Client or any other person or entity of the services, deliverables or other materials provided by PCL hereunder, or (b) any actual or alleged death of or injury to any person, damage to any real or personal property or any other loss, claim, damage or liability of any kind or character whatsoever, whether or not due to third party claims, which arise out of or are related to the performance of the services by PCL or the use by Client or any other person or entity of the services, deliverables or other materials provided by PCL hereunder, except to the extent finally judicially determined to have been caused by the willful misconduct or gross negligence of the Indemnified Party. Without limiting the foregoing, Client will indemnify, defend and hold harmless each Indemnified Party from and against any and all losses, damages, liabilities, deficiencies, actions, judgments, interest, awards, penalties, fines, costs or expenses of whatever kind, including reasonable attorneys' fees, arising out of or resulting from any claim, action or proceeding by any person or entity which is based on or arises from (i) Client's breach of any representation, warranty or obligation set forth in this agreement, or (ii) any negligent or more culpable act or omission of Client (including any reckless or willful misconduct) in connection with the performance of its obligations under this agreement or any activities contemplated by this agreement.

11. Hazardous Substances

For PCL to perform the services requested by Client, Client will identify and PCL will receive certain materials or substances which are known to be hazardous, toxic or otherwise harmful to or dangerous to persons or property and which are regulated by any federal, state or local law, rule, regulation or ordinance (collectively, "Hazardous Materials"). Client will comply with all applicable laws, rules, regulations and ordinances and all PCL policies or regulations (whether now existing or hereafter enacted or promulgated) pertaining to Hazardous Materials. Client represents and warrants to PCL that Client has fully informed PCL in writing of the characteristics and identity of all Hazardous Materials that may be delivered to, received by or handled by PCL hereunder. Client will indemnify, defend and hold harmless each Indemnified Party from and against any and all losses, damages, liabilities, deficiencies, actions, judgments, interest, awards, penalties, fines, costs or expenses of whatever kind, including reasonable attorneys' fees, arising out of or resulting from any claim, action or proceeding by any person or entity which is based on or arises from (i) Client's failure to properly identify any Hazardous Materials delivered to PCL hereunder, or (ii) any negligent or more culpable act or omission of Client (including any reckless or willful misconduct) in connection with the performance of its obligations under this agreement or any activities contemplated by this agreement with respect to the Hazardous Materials delivered to PCL hereunder. Client will promptly pay the reasonable and customary charges that PCL may establish from time to time for the handling of Hazardous Materials. Client acknowledges that PCL is not a waste disposal site, transfer station or storage facility. Client will not deliver to PCL any Hazardous Materials without PCL's prior written consent. If PCL accepts any Hazardous Materials, Client will sign a separate bailment agreement with PCL. Client will not deliver to PCL any Hazardous Materials that Client knows or has reason to know are explosive or radioactive. Client will not deliver to PCL any Hazardous Materials that are regulated by the Nuclear Regulatory Commission. Client will not deliver to PCL any Hazardous Materials that are regulated by the Drug Enforcement Administration.

12. Prices/Payments

Client shall pay PCL in accordance with PCL's applicable price schedule in effect at the time of execution of the agreement for services provided in such prices quoted and later confirmed in writing. The price schedule is subject to change at any time without notice. Payment in accordance with such schedule is required for all new clients prior to the initiation of services under this agreement. For clients [illegible] with PCL [illegible] with an established account, the terms for payment of invoices are NET CASH within thirty (30) days from date of invoices. To the fullest extent permitted by law or applicable law, any amount unpaid at the end of thirty (30) days is subject, at the option of the insured, to a late charge of one and one-half percent (1.5%) per month on the unpaid balance. Unpaid amounts are turned over to legal counsel or collection attorney. The client may also be responsible for all attorney fees or costs incurred with such collection procedure or action.

13. Agreement Modification

Changes, modifications or amendments to this terms shall be effective only if in writing and executed by an officer of PCL [illegible] Failure to object to provisions contained in any confirmation, invoice or other communication shall not be construed as a waiver of any provision of these terms and conditions.

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 to PCL. Client is solely responsible for its 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 data, information or reports. Client represents, warrants, and agrees that test data, information and reports are not transmitted, in whole or in part, to any other person or entity as part of the purchase, sale, underwriting, or dissemination of any securities, any offering or other reporting to the holders of any security, the renewal, replacement, reissuance or extension of any loan or any financial institution or other lender or in any certification or compliance with, or audit of, federal, state or municipal laws, rules or regulations.

15. Rush Analysis

Rush analyses are available for an additional charge and must be arranged in advance. If for any subsequent request, the rush time cannot be met, the normal price will apply.

16. Holding Times

PCL [illegible] responsible for holding times for all samples received or samples that are delivered on unreasonably short time schedules and/or prior to confirmation and acceptance. Standard holding times and storage conditions should be reviewed prior to any sampling being performed by PCL. A list of holding times can be provided to the client if requested. No analyses with holding times of 24 hours or less, samples must arrive within 36 hours of collection. PCL is not responsible for holding these samples if arrival is after 24 hours. Additional charges may apply. In most cases, written approval of the laboratory is required prior to the collection of these samples. PCL reserves the right to reject samples that are received outside of 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 work performed by PCL has been initiated on the fee schedule. Reasonable time has been provided for [illegible] and client service. Unnecessary delays during the pick up or sampling might be considered additional for

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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

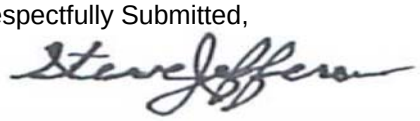
Attention: Ric Vardel
Report Date: 03-May-19 11:11
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0517-01) Collected: 23-Apr-19 By Carlos Alvarez						
pH	SM4500-H-B	AD92423	0.1	23-Apr-19 (JC)	7.5 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD92424	0.05	24-Apr-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD92329	1.8	25-Apr-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD92329	1.8	25-Apr-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/3/2019
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.#: 19D0517

Customer: IPC, Inc.
Address: 9297 Research Drive, Irvine, CA 92618

Project : **(MCC) Daily EFF**

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	04/23/19	1155	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	04/23/19	12:45
Received by		Linay Martinez PCL	4/23	12:45
Relinquished by		Linay Martinez PCL	4/23	14:27
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	4/23/19	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
Grab
Comp

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

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

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

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

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pat-chem.com

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

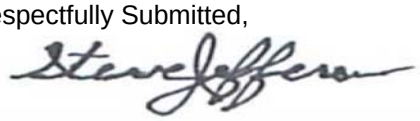
Attention: Ric Vardel
Report Date: 30-Apr-19 14:10
Subject: (MCC) Weekly EFF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0526-01) Collected: 23-Apr-19 By Carlos Alvarez						
Ammonia as N	EPA 350.1	AD92509	0.10	25-Apr-19 (SGS)	0.15 mg/l	
Nitrate as N	EPA 353.2	AD92326	0.02	23-Apr-19 (LA)	0.83 mg/l	
Nitrite as N	EPA 353.2	AD92326	0.02	23-Apr-19 (LA)	<0.02 mg/l	
Total Kjeldahl Nitrogen	EPA 351.2	AD92514	0.10	26-Apr-19 (LA)	0.99 mg/l	
EFF (Sample I.D.# : 19D0526-02) Collected: 23-Apr-19 By Carlos Alvarez						
Biochemical Oxygen Demand	SM 5210B	AD92429	2	29-Apr-19 (VD)	3 mg/l	
Total Suspended Solids	SM 2540D	AD92420	1	24-Apr-19 (SGS)	1 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 4/30/2019
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.#: 19D0526

Customer: IPC, Inc.		Project : (MCC) Weekly EFF	
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	04/22		1	TSS 24h Composite	[redacted]	AQ	1L P	4°C	
	04/23	1155	1	NH4, TKN	Grab	AQ	500 P	HS	
	1	1	1	NO2, NO3	Grab	AQ	500 P	4°C	
	04/22		1	BOD 24h Composite	[redacted]	AQ	1L P	4°C	
Geotracker EDD: Logcode: IPCI Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (PCL)	04/23/19	12:45
Received by		Cindy Manriquez	04/23	12:45
Relinquished by		Cindy Manriquez PCL	04/23	14:27
Received by				
Relinquished by				
Received in lab by		MARIO SAN JUESTEBAN (PCL)	4/23/19	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	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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pat-chem.com

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

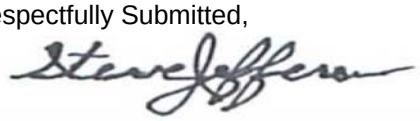
Attention: Ric Vardel
Report Date: 30-Apr-19 14:00
Subject: (MCC) Weekly INF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
INF (Sample I.D.# : 19D0516-01) Collected: 23-Apr-19 By Carlos Alvarez						
Biochemical Oxygen Demand	SM 5210B	AD92429	2	29-Apr-19 (VD)	420 mg/l	
Total Suspended Solids	SM 2540D	AD92420	1	24-Apr-19 (SGS)	248 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 4/30/2019
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.#: 19D0516

Customer: IPC, Inc.		Project : (MCC) Weekly INF	
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
INF	04/22/19	1155	1	TSS 24h composite	~~Grab~~	AQ	1L P	4°C	
	1		1	BOD 24h composite	~~Grab~~	AQ	1L P	4°C	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (PCL)	04/22/19	12:45
Received by		Cindy Martinez PCL	4/23	12:45
Relinquished by		Cindy Martinez	4/23	14:27
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	4/23/19	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	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
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pat-chem.com

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

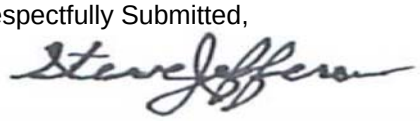
Attention: Ric Vardel
Report Date: 03-May-19 11:14
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0540-01) Collected: 24-Apr-19 By Carlos Alvarez						
pH	SM4500-H-B	AD92517	0.1	24-Apr-19 (JC)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD92518	0.05	25-Apr-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD92425	1.8	26-Apr-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD92425	1.8	26-Apr-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/3/2019
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.#: 19D0540

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
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	04/24/19	1005	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.40 / 10.7°C
1	1	1	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	04/24/19	11:55
Received by		Armando Olmos (Pat-Chem)	4/24/19	11:55
Relinquished by		Armando Olmos (Pat-Chem)	4/24/19	15:30
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	4/24/19	1530

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

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

Preservations

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

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

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pat-chem.com

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

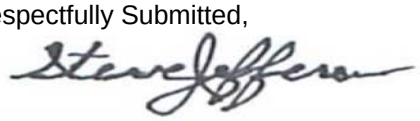
Attention: Ric Vardel
Report Date: 03-May-19 11:17
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0565-01) Collected: 25-Apr-19 By Carlos Alvarez						
pH	SM4500-H-B	AD92610	0.1	25-Apr-19 (JC)	7.9 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD92611	0.05	26-Apr-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD92516	1.8	27-Apr-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD92516	1.8	27-Apr-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/3/2019
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.#: 19D0565

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
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	04/25/19	1030	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.79/21.6
	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (ZRC)	04/29/19	11:35
Received by		[illegible] PCL	4/25	11:35
Relinquished by		[illegible] PCL	4/25	15:10
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	4/25/19	1310

Sample Received Checklist

Temperature upon receipt: 4 °C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

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

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

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

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

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pat-chem.com

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

Attention: Ric Vardel
Report Date: 03-May-19 11:20
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0585-01) Collected: 26-Apr-19 By Carlos Alvarez						
pH	SM4500-H-B	AD92716	0.1	26-Apr-19 (JC)	7.5 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD92715	0.05	27-Apr-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD92609	1.8	28-Apr-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD92609	1.8	28-Apr-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,

Steve Jefferson 5/3/2019
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.#: 1905585

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
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	04/26/19	1055	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	1	1	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	04/26/19	12:20
Received by		Armando Ochoa (PAT-CHEM)	4/26/19	12:20
Relinquished by		Armando Ochoa (PAT-CHEM)	4/26/19	14:10
Received by				
Relinquished by				
Received in lab by			4-26-19	1410

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.

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1824 1st Street
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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: 03-May-19 11:24
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0596-01) Collected: 27-Apr-19 By Carlos Alvarez						
pH	SM4500-H-B	AD92718	0.1	29-Apr-19 (JC)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD92919	0.05	27-Apr-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD92714	1.8	29-Apr-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD92714	1.8	29-Apr-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



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CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
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Environmental Sample

Sample I.D.#: 19D0596

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
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	04/27/19	[illegible] 0930	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.41/9.6°
1	1	1	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: C.	Carlos Alvarez (IPC)	04/27/19	1000
Received by:			
Relinquished by: Jose L Gomez	Jose L Gomez	4/27/19	1000
Received by:			
Relinquished by:			
Received in lab by: Jordan Corkery	Jordan Corkery	4/27/19	1100

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

Sample Received Checklist

Temperature upon receipt: 11°C

# of bottles agrees with COC?	(Yes) 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 - $CuSO_4$

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

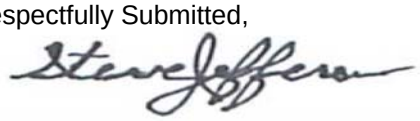
Attention: Ric Vardel
Report Date: 03-May-19 11:27
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0601-01) Collected: 28-Apr-19 By Julio Leal						
pH	SM4500-H-B	AD92824	0.1	28-Apr-19 (JC)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD92919	0.05	29-Apr-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD92823	1.8	30-Apr-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD92823	1.8	30-Apr-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



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CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
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Environmental Sample

Sample I.D.#: 19D0601

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618		Sampled by: Tuvo Lear	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	4-28-19	08'30	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.44/7.6°C
			1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by	Tuvo Lear	4-28-19	1305
Received by	Jordan Corkery	4-28-19	1305
Relinquished by			
Received by			
Relinquished by			
Received in lab by	Jordan Corkery	4-28-19	1420

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 - $CuSO_4$

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

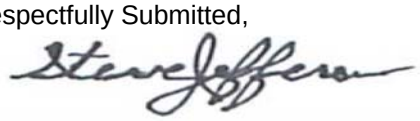
Attention: Ric Vardel
Report Date: 03-May-19 11:29
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0611-01) Collected: 29-Apr-19 By Golan Kfir						
pH	SM4500-H-B	AD93013	0.1	29-Apr-19 (PL)	7.5 pH Units	
Residual Chlorine	SM 4500 Cl-G	AD93014	0.05	30-Apr-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD92927	1.8	01-May-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD92927	1.8	01-May-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



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CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
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Environmental Sample

Sample I.D.#: 190611

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field (Lab)
EFF	4/29/19	11:35	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.51 / 16.7°C
	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: GK	Golan IPC	11:40	4/29/19
Received by:	Alejandro Olmos (Pat-Chem)	11:40	4/29/19
Relinquished by:	Alejandro Olmos (Pat-Chem)	13:25	4/29/19
Received by			
Relinquished by			
Received in lab by:	MARIO SANTIESTEBAN (PCL)	1325	4/29/19

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____

Final Flow _____

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

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

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

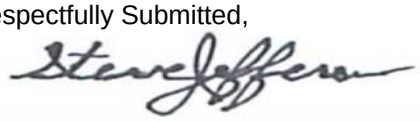
Attention: Ric Vardel
Report Date: 29-May-19 13:08
Subject: (MCC) Weekly INF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
INF (Sample I.D.# : 19D0637-01) Collected: 29-Apr-19 By Golan Kfir						
Biochemical Oxygen Demand	SM 5210B	AE90137	2	06-May-19 (SGS)	318 mg/l	
Total Suspended Solids	SM 2540D	AE90135	1	01-May-19 (EA)	212 mg/l	

Notes and Definitions

Respectfully Submitted,



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CHAIN OF CUSTODY RECORD

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

Environmental Sample

Sample I.D.#: 1900637

Customer: IPC, Inc.		Project : (MCC) Weekly INF	
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
INF	4/29/19	0:00	1	TSS 24h. Comp. ~~Grab~~		AQ	1L P	4°C	
	"	"	1	BOD 24h. Comp ~~Grab~~		AQ	1L P	4°C	
Geotracker EDD:									
Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: GK	Golan IPC	4/30/19	12:00
Received by:	Hermenegildo Olmos (Pat-Chem)	4/30/19	12:25
Relinquished by:	Hermenegildo Olmos (Pat-Chem)	4/30/19	14:30
Received by:			
Relinquished by:			
Received in lab by:	MARIO SANTIESTEBAN (PCL)	4/30/19	1430

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 -$CuSO_4$

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

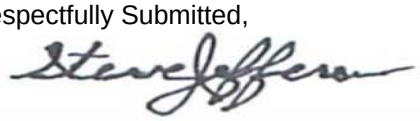
Attention: Ric Vardel
Report Date: 03-May-19 11:32
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0634-01) Collected: 30-Apr-19 By Golan Kfir						
pH	SM4500-H-B	AE90134	0.1	30-Apr-19 (JC)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE90133	0.05	01-May-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AD93021	1.8	02-May-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AD93021	1.8	02-May-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



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Laboratory Director

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CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
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Environmental Sample

Sample I.D.#: 19D0634

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	4/30/19	11:20	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.45/17.2°C
	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: GK	Golan IPC	4/30/19	12:00
Received by:	ARMANDO OLMOS (Pat-Chem)	4/30/19	12:35
Relinquished by:	ARMANDO OLMOS (Pat-Chem)	4/30/19	14:30
Received by:			
Relinquished by:			
Received in lab by:	MARIO SANTIESTEBAN (PCL)	4/30/19	1430

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 -$CuSO_4$

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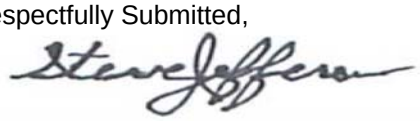
Attention: Ric Vardel
Report Date: 29-May-19 13:17
Subject: (MCC) Weekly EFF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19D0640-01) Collected: 30-Apr-19 By Golan Kfir						
Ammonia as N	EPA 350.1	AE90128	0.10	01-May-19 (SGS)	0.35 mg/l	
Nitrate as N	EPA 353.2	AE90131	0.20	01-May-19 (LA)	2.18 mg/l	
Nitrite as N	EPA 353.2	AE90131	0.02	01-May-19 (LA)	<0.02 mg/l	
Total Kjeldahl Nitrogen	EPA 351.2	AE90728	0.10	08-May-19 (LA)	1.61 mg/l	
Total Suspended Solids	SM 2540D	AE90135	1	01-May-19 (EA)	<1 mg/l	
EFF (Sample I.D.# : 19D0640-02) Collected: 30-Apr-19 By Golan Kfir						
Biochemical Oxygen Demand	SM 5210B	AE90137	2	06-May-19 (SGS)	<2 mg/l	

Notes and Definitions

Respectfully Submitted,



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Laboratory Director

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CHAIN OF CUSTODY RECORD

Phone (818) 639-5300
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Environmental Sample

Sample I.D.#: 19D0640

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	4/30/19	11:20	1	TSS	Grab	AQ	1L P	4°C	
	"	"	1	NH4, TKN	Grab	AQ	500 P	HS	
	"	"	1	NO2, NO3	Grab	AQ	500 P	4°C	
	4/29/19	0:00	1	BOD 24h. comp.	~~Grab~~	AQ	1L P	4°C	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: Golan	Golan IPC	4/30/19	12:00
Received by:	Armando Olmos (Pat-Chem)	4/30/19	12:25
Relinquished by:	Armando Olmos (Pat-Chem)	4/30/19	14:30
Received by:			
Relinquished by:			
Received in lab by:	MARIO SANTIESTEBAN (PCL)	4/30/19	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 **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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Irvine CA, 92618

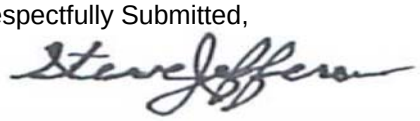
Attention: Ric Vardel
Report Date: 29-May-19 13:33
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0019-01) Collected: 01-May-19 By Golan Kfir						
pH	SM4500-H-B	AE90142	0.1	01-May-19 (JC)	7.1 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE90143	0.05	01-May-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE90130	1.8	03-May-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE90130	1.8	03-May-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/29/2019
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.#: 19E0019

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field (Lab)
EFF	05/01/19	1000	AQ	1 pH, T.Res.Chlorine					7.12/19.5°C
1	1	1	AQ	1 Total & Fecal Coliform					
Geotracker EDD:									
Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by	Carlos Alvarez (GPC)	05/01/19	12:35
Received by	Bernardo Olivas (Pat-Chem)	5/1/19	12:35
Relinquished by	Bernardo Olivas (Pat-Chem)	5/1/19	17:05
Received by			
Relinquished by			
Received in lab by	MARIO SANTIESTEBAN (PCL)	5/1/19	1705

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

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

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

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

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

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

Attention: Ric Vardel
Report Date: 29-May-19 13:30
Subject: (MCC) Monthly EFF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0038-01) Collected: 01-May-19 By Carlos Alvarez						
Boron	EPA 200.7	AE90204	0.10	02-May-19 (AF)	0.51 mg/l	
MBAS	SM 5540C	AE90144	0.20	01-May-19 (JC)	<0.20 mg/l	
Oil & Grease (HEM)	EPA 1664A	AE90205	5	02-May-19 (WW)	<5 mg/l	
Phosphorus, Total as P	EPA 365.1	AE91335	0.03	13-May-19 (LA)	0.19 mg/l	
Total Dissolved Solids	SM 2540C	AE90633	5	08-May-19 (EA)	1064 mg/l	
Chloride	EPA 300.0	AE90213	1.0	02-May-19 (AV)	287 mg/l	
Sulfate as SO4	EPA 300.0	AE90213	0.5	02-May-19 (AV)	227 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/29/2019
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.#: 19E0038

Customer: IPC, Inc.		Project : (MCC) Monthly EFF	
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	05/01/19	1000	1	SO4, Cl, TDS	Grab	AQ	1/2	4°C	
			1	MBAS	Grab	AQ	Gal. P 500 P	4°C	
			1	Oil & Grease	Grab	AQ	1L G	HC	
			1	Boron	Grab	AQ	250 P	HN	
			1	T.Phos	Grab	AQ	250 P	4°C	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by	Carlos Alvarez (PCL)	05/01/19	12:35
Received by	Armando Olmos (Pat-Chem)	5/1/19	12:35
Relinquished by	Armando Olmos (Pat-Chem)	5/1/19	17:05
Received by			
Relinquished by			
Received in lab by	Mario Saltiesteban (PCL)	5/1/19	1705 ~~1734~~

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

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

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

Rev 2 Effective 5/1/17

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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

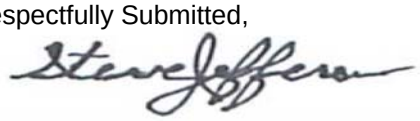
Attention: Ric Vardel
Report Date: 29-May-19 13:35
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0056-01) Collected: 02-May-19 By Golan Kfir						
pH	SM4500-H-B	AE90315	0.1	02-May-19 (JC)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE90317	0.05	03-May-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE90212	1.8	04-May-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE90212	1.8	04-May-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/29/2019
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.#: 19E0056

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Matrix	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	05/02/19	0910	1	AQ	pH, T.Res.Chlorine					
"	"	"	1	AQ	Total & Fecal Coliform					
Geotracker EDD:										
Logcode: IPCI Global ID: WDR100000359										

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Ric Vardel	Carlos Rivera (Carc)	05/02/19	
Received by	Eli Cuevas	Pat	5/2/19	1340
Relinquished by				
Received by				
Relinquished by				
Received in lab by	Mario Santesteban	(PCL)	5/2/19	1610

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC? (Yes) No

Samples intact? (Yes) No

Samples properly preserved? (Yes) No

Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____

Final Flow _____

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

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

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

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

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

Attention: Ric Vardel
Report Date: 29-May-19 13:37
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0078-01) Collected: 03-May-19 By Carlos Alvarez						
pH	SM4500-H-B	AE90418	0.1	03-May-19 (JC)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE90419	0.05	04-May-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE90314	1.8	05-May-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE90314	1.8	05-May-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,

Steve Jefferson 5/29/2019
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.#: 19E0078

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field (Lab)
EFF	05/03/19	1035	AQ	1 pH, T.Res.Chlorine					7.43/18.2°C
			AQ	1 Total & Fecal Coliform					
1	1	1							
Geotracker EDD: Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by	Carlos Alvarez (IPC)	05/03/19	12:05
Received by	ARMANDO OLMOS (PAT-CHEM)	5/3/19	12:05
Relinquished by	ARMANDO OLMOS (PAT-CHEM)	5/3/19	14:55
Received by			
Relinquished by			
Received in lab by	MARIO SANJUESTEBAN (PCL)	5/3/19	14:55

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC?	(Yes)	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
(818) 639-5300 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-May-19 13:39
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0090-01) Collected: 04-May-19 By IPC						
pH	SM4500-H-B	AE90423	0.1	04-May-19 (JC)	7.5 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE90422	0.05	04-May-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE90417	1.8	06-May-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE90417	1.8	06-May-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/29/2019
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.#: 19E0090

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: J.T. 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	5.4.19	9:14	AQ	1 pH, T.Res.Chlorine					
	5.4.19	9:14	AQ	1 Total & Fecal Coliform					
Geotracker EDD:									
Logcode: IPCI Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		IPC JT McDonald	5.4.19	9:15
Received by				
Relinquished by	Jose L Gomez	Jose L Gomez	5/4/19	1005
Received by				
Relinquished by				
Received in lab by		Jordan Corkey	5/4/19	11:10

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

Sample Received Checklist

Temperature upon receipt: 5°C
# of bottles agrees with COC? Yes 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

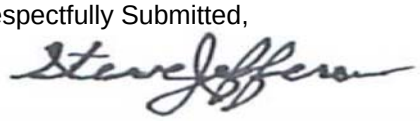
Attention: Ric Vardel
Report Date: 29-May-19 13:41
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0096-01) Collected: 05-May-19 By IPC						
pH	SM4500-H-B	AE90623	0.1	05-May-19 (PL)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE90624	0.05	06-May-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE90531	1.8	07-May-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE90531	1.8	07-May-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/29/2019
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.#: 19E0096

Customer: IPC, Inc.		Project: (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618		Sampled by: VICTOR ARZIKIAN 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	5-5-19	09:00	1	AQ	pH, T.Res.Chlorine					
			1	AQ	Total & Fecal Coliform					
Geotracker EDD:										
Logcode: IPCI										
Global ID: WDR100000359										

	Signature	Print Name (Company)	Date	Time
Relinquished by		VICTOR ARZIKIAN (IPC)	5-5-19	09:00
Received by		Alex Walker Jr (AEC)	5-5-19	11:15
Relinquished by				
Received by				
Relinquished by				
Received in lab by		Alex Walker Jr	5-5-19	14:05

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC? Yes 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 these Terms and Conditions of sale, including the price schedule, and any additions or amendments hereto which are agreed to in writing. "Client" means the individual or entity who 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 or 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 and/ 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 perform the sampling, the client shall be responsible for the conditions in and about the sampling site and for advising PCL of the same and all information required to enable PCL to perform its services safely and efficiently.

6. Cancellation

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

7. Overriding Agreement

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

8. Force Majeure

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

9. Confidentiality

Data and the sample materials provided by client or at client's request and the results obtained by PCL shall be held in confidence (unless such information is generally available to the public or is the public domain or client has ~~~ filed to pay PCL for all services rendered or is otherwise in breach of the agreement) subject to any disclosure required by law or legal process. PCL shall use the same standard of care it uses in protecting its own confidential data and shall not be responsible for unauthorized disclosure of said data where such standard was observed. PCL reports and information provided therein are for the exclusive use and benefit of client and client agrees there shall be no third party beneficiary of such reports, data or information. Client will not disclose to any third party any information concerning tests, information, software programs or other formulations.

10. Hold Harmless

Client releases and shall save, indemnify, defend and hold PCL, its employees, officers, directors, agents, affiliates, subsidiaries and parent harmless from and against any and all liabilities, losses or damages, claims, demands, causes of action, suits and associated expenses including, but not limited to all court fees (the Litigation Expenses) and awards arising in favor of Client or any third party as a result of and/or in any way occurring incident to arising out of, or in connection with the performance of services by PCL pursuant to this agreement and/or transportation, handling or disposal of 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 losses, costs, damages, or injuries caused solely by the gross negligence or willful misconduct of PCL or its employees. Further, this indemnity shall specifically apply to losses, claims damages, actions of every kind and character arising out of or in connection with this agreement (1) a 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 purchased by client, which insurance shall be in the maximum amounts permitted under applicable law. In no event shall PCL be liable to client for indirect, punitive, special, incidental or consequential damages (including without limitation, loss of profit or business interruption, Litigation Expenses or attorneys fees (including without limitation, attorney's fees, court costs, and pre and post judgment interest), or any other expenses or costs incurred by client or any other party or any legal action against or involving PCL or any indemnified person in connection with this agreement or an order 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 by samples 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 cell bacterial analysis, client will be charged a sample disposal fee, per sample submitted, in accordance with our QA/QC policies and procedures.

12. Prices/Payments

Client shall pay PCL in accordance with PCL's applicable price schedule in effect in the area of operations on the date the services were rendered or with prices quoted and later confirmed in writing. The price schedule is subject to change at any time without notice. Payment in advance or when analysis is completed is required for all new clients or until a history of payment and/or credit account has been established with PCL. For those clients with an established credit account, the terms for payment of charges are NET CASH within thirty (30) days from date of invoices. To the fullest extent permitted (if at all) by applicable law, any amount unpaid at the end of thirty (30) days is subject to interest at the lesser of the maximum rate permitted by law or one and one half percent (1.5%) per month on the unpaid balances. If unpaid amounts are collected through legal proceedings or by an attorney, the client shall pay reasonable costs and attorney's fees or agents' fees associated with such collection 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 clients authorized representative, except that subsequent orders for additional services may be verbal or in writing.

14. No Third Party Beneficiaries: No Right of Reliance

PCL shall have no responsibility or liability for client's use of or reliance on data, information, or reports furnished by PCL. Client is securing services hereunder for his own account, and not as agent or broker, or in any other representative capacity for any other person or entity. It is agreed and acknowledged that there are no third party beneficiaries to this agreement, and that no third party may rely on such data, information or reports. Client represents, warrants, and agrees that said data, information and reports are not requested, or shall be used 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 securities, the securing, amendment, renewal or any extension of any loan from any financial institution or other lender or the certifications 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 acceptance to ensure that the holding times can be met. Short Holding Times of 48 hours or less (bacteriology 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 all in no shorts (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 included 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: 29-May-19 13:43
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0112-01) Collected: 06-May-19 By IPC						
pH	SM4500-H-B	AE90718	0.1	06-May-19 (PL)	7.3 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE90720	0.05	07-May-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE90636	1.8	08-May-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE90636	1.8	08-May-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/29/2019
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.#: 19E0112

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	5/6/19	10:50	AQ	1 pH, T.Res.Chlorine					
	"	"	AQ	1 Total & Fecal Coliform					
Geotracker EDD:									
Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by GK	Golan IPC	5/6/19	11:00
Received by Elo	Cuarlo PCL	5.6.19	1200
Relinquished by Elo	Cuarlo PCL	5.6.19	1330
Received by			
Relinquished by			
Received in lab by Mario Santiesteban	MARIO SANTIESTEBAN (PCL)	5/6/19	1330

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

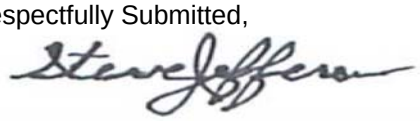
Attention: Ric Vardel
Report Date: 29-May-19 13:45
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0135-01) Collected: 07-May-19 By IPC						
pH	SM4500-H-B	AE90833	0.1	07-May-19 (JC)	7.6 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE90834	0.05	08-May-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE90724	1.8	09-May-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE90724	1.8	09-May-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/29/2019
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.#: 19E0135

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	05/07/19	1145	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD: Logcode: IPCI Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. D.	Carlos Alvarez (GSE)	05/07/19	
Received by	GK		5/7/19	1245
Relinquished by				
Received by				
Relinquished by				
Received in lab by		MARIA SANTIESTEBAN (PCL)	5/7/19	1340

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

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

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

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

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

Rev 2 Effective 5/1/17

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QUALITY ANALYTICAL SERVICES SINCE 1987

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

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

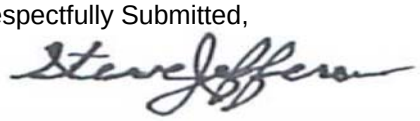
Attention: Ric Vardel
Report Date: 29-May-19 13:20
Subject: (MCC) Weekly EFF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0134-01) Collected: 07-May-19 By C.A.						
Ammonia as N	EPA 350.1	AE90830	0.10	08-May-19 (SGS)	0.12 mg/l	
Biochemical Oxygen Demand	SM 5210B	AE90839	2	13-May-19 (SGS)	2 mg/l	
Nitrate as N	EPA 353.2	AE90836	0.20	08-May-19 (LA)	2.63 mg/l	
Nitrite as N	EPA 353.2	AE90836	0.02	08-May-19 (LA)	0.04 mg/l	
Total Kjeldahl Nitrogen	EPA 351.2	AE90911	0.10	10-May-19 (LA)	1.26 mg/l	
Total Suspended Solids	SM 2540D	AE90831	1	08-May-19 (SGS)	<1 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/29/2019
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.#: 19EO134

Customer: IPC, Inc.		Project : (MCC) Weekly EFF	
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	05/06/19		1	TSS	Grab	AQ	1L P	4°C	
	05/07/19	1145	1	NH4, TKN	Grab	AQ	500 P	HS	
	1	1	1	NO2, NO3	Grab	AQ	500 P	4°C	
	05/06/19		1	BOD	Grab	AQ	1L P	4°C	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	05/07/19	
Received by			5/7/19	1245
Relinquished by				
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	5/7/19	1340

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

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

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

Rev 2 Effective 5/1/17

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QUALITY ANALYTICAL SERVICES SINCE 1987
1824 1st Street
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Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

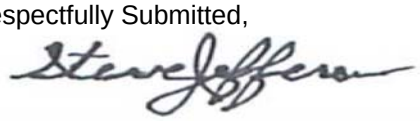
Attention: Ric Vardel
Report Date: 29-May-19 13:11
Subject: (MCC) Weekly INF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
INF (Sample I.D.# : 19E0137-01) Collected: 07-May-19 By CA						
Biochemical Oxygen Demand	SM 5210B	AE90839	2	13-May-19 (SGS)	385 mg/l	
Total Suspended Solids	SM 2540D	AE90831	1	08-May-19 (SGS)	159 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/29/2019
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.#: 19E0137

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
INF	05/06/19	[redacted]	1	TSS	[redacted] Composite	AQ	1L P	4°C	
			1	BOD	[redacted] Composite	AQ	1L P	4°C	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Alvarez	Carlos Alvarez (SAC)	05/07/19	
Received by	[signature]	[signature]	5/7/19	1245
Relinquished by				
Received by				
Relinquished by				
Received in lab by	[signature]	MARIO SANTIESTEBAN (PCL)	5/7/19	1340

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____

Final Flow _____

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

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

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QUALITY ANALYTICAL SERVICES SINCE 1987

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

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

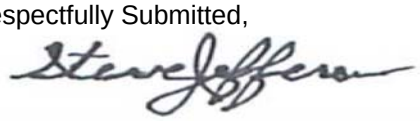
Attention: Ric Vardel
Report Date: 30-May-19 17:14
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0182-01) Collected: 08-May-19 By Golan Kfir						
pH	SM4500-H-B	AE90909	0.1	08-May-19 (JC)	7.8 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE90910	0.05	09-May-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE90832	1.8	10-May-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE90832	1.8	10-May-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/30/2019
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.#: 19E0182

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	5/8/19	10:45	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.81 / 8.3
	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: GK	Golan IPC	5/8/19	10:50
Received by:	Chevy Mariner	5/8/19	11:45
Relinquished by:	Chevy Mariner PCC	5/8/19	12:38
Received by:			
Relinquished by:			
Received in lab by:	MARCO SANTIESTEBAN (PCC)	5/8/19	1238

Sample Received Checklist

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) 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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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

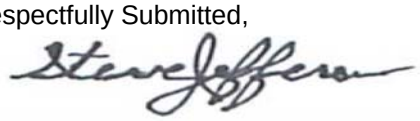
Attention: Ric Vardel
Report Date: 30-May-19 17:16
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0212-01) Collected: 09-May-19 By Golan Kfir						
pH	SM4500-H-B	AE90920	0.1	09-May-19 (JC)	7.7 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE91016	0.05	10-May-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE90908	1.8	11-May-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE90908	1.8	11-May-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/30/2019
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.#: 19E0212

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	05/09/19	1115	AQ	1 pH, T.Res.Chlorine					7.7 23.0 °C
			AQ	1 Total & Fecal Coliform					
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (PCL)	05/09/19	11:20
Received by		Cindy Mapping SCL	5/9/19	11:20
Relinquished by		Cindy Mapping SCL	5/9/19	12:47
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	5/9/19	1247

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC?	(Yes)	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.

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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

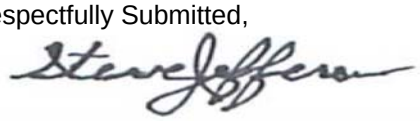
Attention: Ric Vardel
Report Date: 30-May-19 17:18
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0248-01) Collected: 10-May-19 By Golan Kfir						
pH	SM4500-H-B	AE91121	0.1	10-May-19 (JC)	8.0 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE91122	0.05	11-May-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE91015	1.8	12-May-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE91015	1.8	12-May-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/30/2019
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.#: 19E0248

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
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	05/10/19	1125	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	8.0/21.0°C
1	1	1	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	05/10/19	1350
Received by		MARIO SANTIESTEBAN (PCL)	5/10/19	1350
Relinquished by				
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	5/10/19	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.

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

Attention: Ric Vardel
Report Date: 30-May-19 19:54
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0253-01) Collected: 11-May-19 By J.T. McDonald						
pH	SM4500-H-B	AE91125	0.1	11-May-19 (JC)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE91130	0.05	11-May-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE91120	1.8	13-May-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE91120	1.8	13-May-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/30/2019
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.#: 19E0253

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618	Sampled by: J T McDonald 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	5.11.19	10:00	AQ	1 pH, T.Res.Chlorine					
	5.11.19	10:00	AQ	1 Total & Fecal Coliform					
Geotracker EDD:									
Logcode: IPCI Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		IPC JT McD.	5.11.19	10:00
Received by				
Relinquished by	Jose L Gomez	Jose L Gomez	5/11/19	1005
Received by				
Relinquished by				
Received in lab by		Jordan Corkery	5/11/19	11:10

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

Sample Received Checklist

Temperature upon receipt: 7°C

# of bottles agrees with COC? (Yes) 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 -$CuSO_4$

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

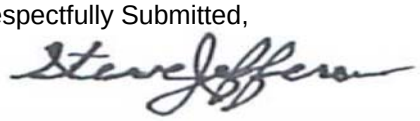
Attention: Ric Vardel
Report Date: 30-May-19 19:58
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0262-01) Collected: 12-May-19 By Victor Arikian						
pH	SM4500-H-B	AE91319	0.1	12-May-19 (PL)	7.2 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE91322	0.05	13-May-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE91216	1.8	14-May-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE91216	1.8	14-May-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/30/2019
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.#: 19E0262

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
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	5-12-2019	09:52	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
11	11	11	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by	VICTOR ARIKIAN (IPC)	5-12-19	09:52
Received by	Alex Walker Jr. (PCL)	5-12-19	11:08
Relinquished by			
Received by			
Relinquished by	Alex Walker Jr.	5-12-19	1230
Received in lab by	PL	5.12.19	1230

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

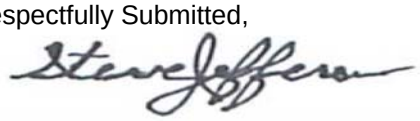
Attention: Ric Vardel
Report Date: 30-May-19 20:01
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0269-01) Collected: 13-May-19 By Carlos Alvarez						
pH	SM4500-H-B	AE91424	0.1	13-May-19 (PL)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE91426	0.05	14-May-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE91332	1.8	15-May-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE91332	1.8	15-May-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/30/2019
Laboratory Director

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1824 1st Street
San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

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

Environmental Sample

Sample I.D.#: 19E0269

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
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	05/13/19	0955	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
1	1	1	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by	C.	Carlos Alvarez (Cope)	05/13/19	
Received by	Eb	Carlos (PCL)	5/13/19	1200
Relinquished by	Eb	Carlos (PCL)	5/13/19	1460
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	5/13/19	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	**HC** - HCl
Comp	**HS** - H_2SO_4
Matrix	**HN** - HNO_3
AQ - Water	**HP** - H_3PO_4
SO -Soil / Sludge	**OH** - NaOH
OT - Other	**ST** - Sodium Thiosulfate
Bottle Type	**AA** - Ascorbic Acid
P - Plastic	**Al** - $AlCl_3$
G - Amber Glass	**Cu** -$CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

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

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

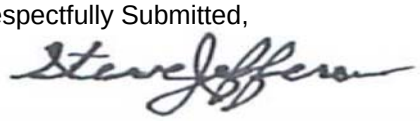
Attention: Ric Vardel
Report Date: 30-May-19 20:05
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0285-01) Collected: 14-May-19 By Carlos Alvarez						
pH	SM4500-H-B	AE91527	0.1	14-May-19 (JC)	7.6 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE91528	0.05	15-May-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE91430	1.8	18-May-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE91430	1.8	18-May-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/30/2019
Laboratory Director

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San Fernando, CA 91340

CHAIN OF CUSTODY RECORD

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

Environmental Sample

Sample I.D.#: 19E0285

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618		Sampled by: C. Dela	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	05/14/19	1115	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (CPC)	05/14/19	
Received by		" "	5/14/19	1200
Relinquished by				
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	5/14/19	1315

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC? (Yes) 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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Irvine CA, 92618

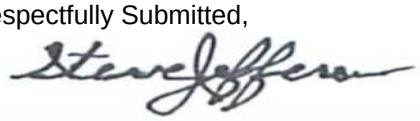
Attention: Ric Vardel
Report Date: 30-May-19 20:08
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0345-01) Collected: 15-May-19 By Carlos Alvarez						
pH	SM4500-H-B	AE91619	0.1	15-May-19 (JC)	7.6 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE91620	0.05	16-May-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE91526	1.8	17-May-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE91526	1.8	17-May-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/30/2019
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.#: 1460345

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
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	05/15/19	1040	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
1	1	1	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	05/15/19	
Received by	Ele		5/15/19	1300
Relinquished by				
Received by				
Relinquished by				
Received in lab by		PCL	5/15/19	13--

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	

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

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

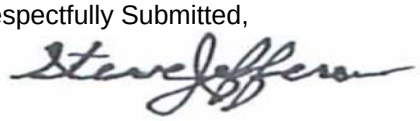
Attention: Ric Vardel
Report Date: 29-May-19 13:27
Subject: (MCC) Weekly EFF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0342-01) Collected: 15-May-19 By C.A.						
Ammonia as N	EPA 350.1	AE91705	0.10	17-May-19 (SGS)	<0.10 mg/l	
Biochemical Oxygen Demand	SM 5210B	AE91621	2	21-May-19 (EA)	4 mg/l	
Nitrate as N	EPA 353.2	AE91618	0.20	16-May-19 (LA)	2.82 mg/l	
Nitrite as N	EPA 353.2	AE91618	0.02	16-May-19 (LA)	0.04 mg/l	
Total Kjeldahl Nitrogen	EPA 351.2	AE91616	0.10	17-May-19 (LA)	1.10 mg/l	
Total Suspended Solids	SM 2540D	AE91613	1	16-May-19 (SGS)	<1 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/29/2019
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.#: 19E0342

Customer: IPC, Inc.		Project: (MCC) Weekly EFF	
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	05/14/19	1040	1	TSS	~~Grab~~ Grab	AQ	1L P	4°C	
	05/15/19		1	NH4, TKN	Grab	AQ	500 P	HS	
			1	NO2, NO3	Grab	AQ	500 P	4°C	
	05/14/19		1	BOD	~~Grab~~ Composite	AQ	1L P	4°C	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	05/15/19	
Received by			5/15/19	1300
Relinquished by				
Received by				
Relinquished by				
Received in lab by			5.15.19	1300

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	

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

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1824 1st Street
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(818) 639-5306 fx
pat-chem.com

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

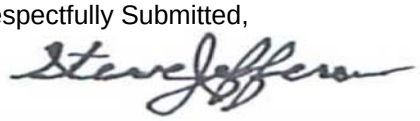
Attention: Ric Vardel
Report Date: 29-May-19 13:13
Subject: (MCC) Weekly INF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
INF (Sample I.D.# : 19E0343-01) Collected: 15-May-19 By CA						
Biochemical Oxygen Demand	SM 5210B	AE91621	2	21-May-19 (EA)	299 mg/l	
Total Suspended Solids	SM 2540D	AE91613	1	16-May-19 (SGS)	191 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/29/2019
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.#: 19E0343

Customer: IPC, Inc.		Project : (MCC) Weekly INF	
Address: 9297 Research Drive		Sampled by: C. Alvarez	P.O. #:
Irvine CA 92618		Report Attention: Ric Vardel / Golan Kfir	Phone #: ~~949-262-9067~~

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserv.	Field Data (pH / Temperature) pH: Field Lab
INF	05/14/19	0000	1	TSS	Composite ~~Grab~~	AQ	1L P	4°C	
"	"	"	1	BOD	Composite ~~Grab~~	AQ	1L P	4°C	
Geotracker EDD: Logcode: IPCI ~~Global ID: WDR100000359~~									

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Alvarez	Carlos Alvarez (IPC)	05/15/19	
Received by	[illegible]	[illegible]	5.15.19	1300
Relinquished by				
Received by				
Relinquished by				
Received in lab by		PL	5.15.19	1300

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.

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

Attention: Ric Vardel
Report Date: 30-May-19 20:12
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0368-01) Collected: 16-May-19 By Carlos Alvarez						
pH	SM4500-H-B	AE91709	0.1	16-May-19 (JC)	7.3 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE91710	0.05	17-May-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE91603	1.8	18-May-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE91603	1.8	18-May-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,

Steve Jefferson 5/30/2019
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.#: 19E0369

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	05/16/19	1220	1	AQ pH, T.Res.Chlorine					
"	"	"	1	AQ Total & Fecal Coliform					
Geotracker EDD:									
Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by	Carlos Alvarez (SPC)	05/16/19	
Received by	[illegible] (PCL)	5/16/19	1230
Relinquished by	[illegible]	5-16-19	1300
Received by			
Relinquished by			
Received in lab by	MARIO SANTIESTEBAN (PCL)	5/16/19	1300

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

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

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

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

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

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

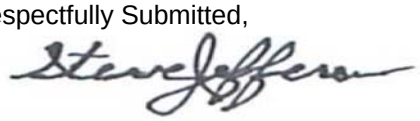
Attention: Ric Vardel
Report Date: 30-May-19 20:16
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0396-01) Collected: 17-May-19 By GK						
pH	SM4500-H-B	AE91819	0.1	17-May-19 (JC)	7.0 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE91820	0.05	18-May-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE91708	1.8	19-May-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE91708	1.8	19-May-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/30/2019
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.#: 19E0396

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: (Field) Lab
EFF	5/17/19	11:00	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.0 / 19.6°C
	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

Signature	Print Name (Company)	Date	Time
Relinquished by GK	Golan IPC	5/17/19	11:10
Received by	MARIO SANTIESTEBAN (PCL)	5/17/19	1215
Relinquished by			
Received by			
Relinquished by			
Received in lab by	MARIO SANTIESTEBAN (PCL)	5/17/19	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.

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

Attention: Ric Vardel
Report Date: 30-May-19 20:19
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0414-01) Collected: 18-May-19 By J.T. McDonald						
pH	SM4500-H-B	AE91823	0.1	18-May-19 (JC)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE91824	0.05	18-May-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE91818	1.8	20-May-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE91818	1.8	20-May-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/30/2019
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.#: 19E0414

Customer: IPC, Inc.
Address: 9297 Research Drive
Irvine CA 92618

Project : **(MCC) Daily EFF**
Sampled by: J.T McDonald
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	5-18-19	8:52	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	5.18.19	8:50	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		JT McDonald IPC	5-18-19	9:00
Received by				
Relinquished by	Jose L Gomez	Jose L Gomez	5/18/19	0935
Received by				
Relinquished by				
Received in lab by		Jordan Corkery	5/19/19	11:15

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 - $CuSO_4$

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

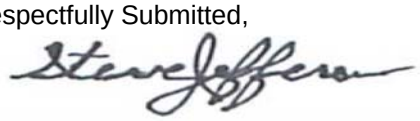
Attention: Ric Vardel
Report Date: 30-May-19 20:23
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0421-01) Collected: 19-May-19 By J.T. McDonald						
pH	SM4500-H-B	AE91927	0.1	19-May-19 (JC)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE91926	0.05	19-May-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE91924	1.8	21-May-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE91924	1.8	21-May-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/30/2019
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.#: 19E0421

Customer: IPC, Inc.		Project : **(MCC) Daily EFF**	
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	5-19-19	09:33	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by	VICTOR ARIKIAN (IPC)	5-19-19	09:33
Received by	Alex Walker Jr (PCL)	5-19-19	10:55
Relinquished by			
Received by			
Relinquished by			
Received in lab by	Alex Walker Jr	5-19-19	1300

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC? (Yes) No

Samples intact? (Yes) No

Samples properly preserved? (Yes) No

Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
(Grab)
Comp

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

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

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

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

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

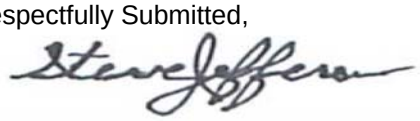
Attention: Ric Vardel
Report Date: 30-May-19 20:26
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0427-01) Collected: 20-May-19 By Carlos Alvarez						
pH	SM4500-H-B	AE92119	0.1	20-May-19 (PL)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE92120	0.05	21-May-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE92029	1.8	22-May-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE92029	1.8	22-May-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/30/2019
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.#: 19E0427

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	05/20/19	1050	AQ	1 pH, T.Res.Chlorine					
			AQ	1 Total & Fecal Coliform					
1	1	1							
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	05/20/19	
Received by	EB		5.20.19	1230
Relinquished by	EB		5-20-19	1400
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (ACL)	5/20/19	1700

Sample Received Checklist

Temperature upon receipt: 4 °C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

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

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

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

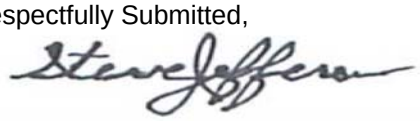
Attention: Ric Vardel
Report Date: 31-May-19 14:04
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0469-01) Collected: 21-May-19 By Carlos Alvarez						
pH	SM4500-H-B	AE92229	0.1	21-May-19 (JC)	7.5 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE92230	0.05	22-May-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE92130	1.8	23-May-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE92130	1.8	23-May-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/31/2019
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.#: 19E0469

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
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	05/21/19	1100	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (ZPE)	05/21/19	
Received by	EB	Evan Bolt PCL	5.21.19	1145
Relinquished by	EB	Evan Bolt PCL	5.21.19	1410
Received by				
Relinquished by				
Received in lab by		MARIO SANTESTEBAN (PCL)	5/21/19	1410

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC? (Yes) No

Samples intact? (Yes) No

Samples properly preserved? (Yes) No

Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

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

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

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
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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(818) 639-5300 ph
(818) 639-5306 fx
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Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 31-May-19 14:06
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0498-01) Collected: 22-May-19 By Carlos Alvarez						
pH	SM4500-H-B	AE92239	0.1	22-May-19 (JC)	7.6 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE92240	0.05	22-May-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE92221	1.8	24-May-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE92221	1.8	24-May-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,

Steve Jefferson 5/31/2019
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.#: 19E0498

Customer: IPC, Inc.

Project: (MCC) Daily EFF

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	05/22/19	0940	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.6 / 21.8 °C
			1	Total & 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 (GSC)	05/22/19	12:10
Received by		Jason Mariner e-cc	5/22/19	12:10
Relinquished by		Jason Mariner pa	5/22	1620
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	5/22/19	1620

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC? (Yes) No

Samples intact? (Yes) No

Samples properly preserved? (Yes) No

Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab **Comp**	**HC** - HCl **HS** - H_2SO_4
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
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pat-chem.com

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

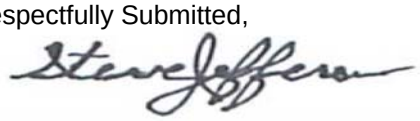
Attention: Ric Vardel
Report Date: 30-May-19 17:10
Subject: (MCC) Weekly EFF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0521-01) Collected: 22-May-19 By C.A.						
Ammonia as N	EPA 350.1	AE92306	0.10	23-May-19 (SGS)	<0.10 mg/l	
Biochemical Oxygen Demand	SM 5210B	AE92311	2	28-May-19 (EA)	<2 mg/l	
Nitrate as N	EPA 353.2	AE92308	0.20	23-May-19 (LA)	4.18 mg/l	
Nitrite as N	EPA 353.2	AE92308	0.02	23-May-19 (LA)	0.06 mg/l	
Total Kjeldahl Nitrogen	EPA 351.2	AE92829	0.10	29-May-19 (LA)	0.77 mg/l	
Total Suspended Solids	SM 2540D	AE92312	1	23-May-19 (EA)	<1 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/30/2019
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.#: 19E0521

Customer: IPC, Inc.		Project : (MCC) Weekly EFF	
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	05/22/19	0940	1	TSS	Grab	AQ	1L P	4°C	
			1	NH4, TKN	Grab	AQ	500 P	HS	
			1	NO2, NO3	Grab	AQ	500 P	4°C	
	05/21/19	0000	1	BOD	[redacted] Composite	AQ	1L P	4°C	
Geotracker EDD: Logcode: IPCI Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	05/22/19	12:00
Received by		Cinny Martinez PCL	5/22/19	12:00
Relinquished by				
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	5/23/19	1620

Sample Received Checklist

Temperature upon receipt: 4°c

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

Compliance Monitor

Initial Flow _____

Final Flow _____

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

Preservations

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

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

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pat-chem.com

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

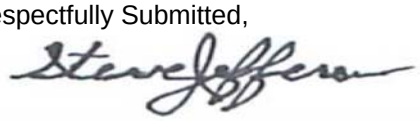
Attention: Ric Vardel
Report Date: 29-May-19 13:15
Subject: (MCC) Weekly INF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
INF (Sample I.D.# : 19E0511-01) Collected: 22-May-19 By CA						
Biochemical Oxygen Demand	SM 5210B	AE92311	2	28-May-19 (EA)	340 mg/l	
Total Suspended Solids	SM 2540D	AE92312	1	23-May-19 (EA)	212 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/29/2019
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.#: 19E0511

Customer: IPC, Inc.		Project : (MCC) Weekly INF	
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
INF	05/21/19	0000	1	TSS	~~Grab~~ Composite	AQ	1L P	4°C	
1	1	1	1	BOD	~~Grab~~ Composite	AQ	1L P	4°C	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	C.	Carlos Alvarez (IPC)	05/22/19	12:10
Received by		Cindy Mortimer PCL	5/22	12:10
Relinquished by		Cindy Mortimer PCL	5/22	16:20
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	5/22/19	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
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

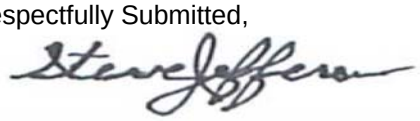
Attention: Ric Vardel
Report Date: 31-May-19 14:09
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0533-01) Collected: 23-May-19 By Carlos Alvarez						
pH	SM4500-H-B	AE92405	0.1	23-May-19 (PL)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE92406	0.05	24-May-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE92309	1.8	25-May-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE92309	1.8	25-May-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/31/2019
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.#: 19E0533

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
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	05/23/19	1105	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.41 / 17.6°C
			1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (3PL)	05/23/19	12:00
Received by		Armando Alvarez (Patchem)	5/23/19	12:00
Relinquished by		Armando Alvarez (Patchem)	5/23/19	13:10
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	5/23/19	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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Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

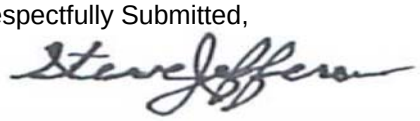
Attention: Ric Vardel
Report Date: 31-May-19 14:12
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0562-01) Collected: 24-May-19 By Carlos Alvarez						
pH	SM4500-H-B	AE92506	0.1	24-May-19 (JC)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE92507	0.05	25-May-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE92410	1.8	26-May-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE92410	1.8	26-May-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/31/2019
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.#: 19E0533

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
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	05/23/19	1105	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.41 / 17.6°C
			1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (3PL)	05/23/19	12:00
Received by		Armando Alvarez (Patchem)	5/23/19	12:00
Relinquished by		Armando Alvarez (Patchem)	5/23/19	13:10
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	5/23/19	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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Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

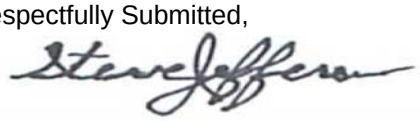
Attention: Ric Vardel
Report Date: 31-May-19 14:14
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0579-01) Collected: 25-May-19 By J.T. McDonald						
pH	SM4500-H-B	AE92514	0.1	25-May-19 (JC)	7.5 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE92515	0.05	25-May-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE92504	1.8	27-May-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE92504	1.8	27-May-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/31/2019
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.#: 19E0579

Customer: IPC, Inc.		Project: (MCC) Daily EFF	
Address: 9297 Research Drive, Irvine, CA 92618		Sampled by: J. T McDonald	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	5.25	9:10	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	5-25	9:10	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by	J.T McDonald IPC	5-25	9:10
Received by			
Relinquished by	Jose L Gomez	5/25/19	1035
Received by			
Relinquished by			
Received in lab by	Jordan Corkery	5/25/19	1230

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 -$CuSO_4$

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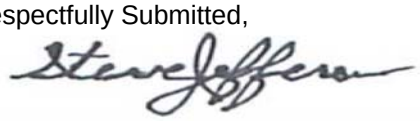
Attention: Ric Vardel
Report Date: 31-May-19 14:17
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0584-01) Collected: 26-May-19 By J.T. McDonald						
pH	SM4500-H-B	AE92716	0.1	26-May-19 (JC)	7.5 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE92717	0.05	27-May-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE92617	1.8	28-May-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE92617	1.8	28-May-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/31/2019
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.#: 19E0584

Customer: IPC, Inc.		Project : **(MCC) Daily EFF**	
Address: 9297 Research Drive Irvine CA 92618		Sampled by: J.T. Mc Donald 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	5.24	9:00	AQ	1 pH, T.Res.Chlorine					
	5.24	9:00	AQ	1 Total & Fecal Coliform					
Geotracker EDD:									
Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by	J.T. Mc Donald IPC	5.24	9:05
Received by	Alex Walker Jr	5/24/19	1022
Relinquished by	Alex Walker Jr	5/24/19	1150
Received by			
Relinquished by			
Received in lab by	Jordan Corkery	5/24/19	1150

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.

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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: 31-May-19 14:20
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0587-01) Collected: 27-May-19 By Carlos Alvarez						
pH	SM4500-H-B	AE92818	0.1	27-May-19 (PL)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE92819	0.05	28-May-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE92715	1.8	29-May-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE92715	1.8	29-May-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,

Steve Jefferson 5/31/2019
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.#: 19E0587

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Matrix	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	05/27/19	0930	1	AQ	pH, T.Res.Chlorine					
"	"	"	1	AQ	Total & Fecal Coliform					
Geotracker EDD:										
Logcode: IPCI Global ID: WDR100000359										

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	05/27/19	1005
Received by		Alex Walker Jr (PCL)	5/27/19	1005
Relinquished by				
Received by				
Relinquished by		Alex Walker Jr	5/27/19	12:30
Received in lab by		Alex Walker Jr	5/27/19	1237

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC?	Yes 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 these Terms and Conditions of sale, including the price schedule, and any additions or amendments hereto which are agreed to in writing. "Client" means the individual or entity who may request laboratory services, consulting or sampling services and his or her 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 thereto are for the exclusive use and benefit of client and client agrees there shall be no third party beneficiary of such reports, data or information. Client will not disclose to any third party any information concerning technical information, software programs or other formulations.

10. Hold Harmless

Client releases and shall save, indemnify, defend and hold PCL, its employees, officers, directors, agents, affiliates, subsidiaries and parent harmless from and against any and all liabilities, losses or damages, claims, demands, causes of action, suits and associated expenses including, but not limited to all court fees (the Litigation Expenses) and awards arising in favor of Client or any third party as a result of, and/or in any way occurring incident to, arising out of, or in connection with the performance of services by PCL pursuant to this agreement and/or transportation, handling or disposal of client's hazardous materials, 1. injury, disease or death of persons 2. loss of, damage to, use 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 losses, suits, damages, or injuries caused solely by the gross negligence or willful misconduct of PCL or its employees. Further, this indemnity shall specifically apply to losses, claims, damages, actions of every kind and character arising out of or in connection with the negligence 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 purchased by client, which insurance shall be in the maximum amounts permitted under applicable law. In no event shall PCL be liable to client for indirect, punitive, special, incidental or consequential damages including, without limitation, loss of profits or business interruption, Litigation Expenses or other fees (including, without limitation, attorney's fees, court costs, and for pre-or post-judgment interest), or any other expenses to client incurred by client or any other party in any civil action against or involving PCL or any indemnified person in connection with this agreement or an services provided under this agreement even if client is the prevailing party.

11. Hazardous Substances

For PCL to perform the services requested by client, client will provide and PCL will receive samples materials for analysis 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 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 its 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 substances. PCL reserves the right to charge the client for the disposal of unused samples in accordance with PCL's current sample disposal policy. In addition, all samples received by PCL for any of bacterial analysis, client will be charged a sample disposal fee, per sample submitted, in accordance with our QA/QC policies and procedures.

12. Prices/Payments

Client shall pay PCL in accordance with PCL's applicable price schedule in effect in the area of operations on the date the services were rendered or with prices quoted and later confirmed in writing. The price schedule is subject to change at any time without notice. Payment in advance or when analysis is completed is required for all new clients or until a history of payment and/or credit account has been established with PCL. For those clients with an established credit account, the terms for payment of charges are NET CASH within thirty (30) days from date of invoices. To the fullest extent permitted (if at all) by applicable law, any amount unpaid at the end of thirty (30) days is subject to interest at the lesser of the maximum rate permitted by law or one and one-half percent (1.5%) per month on the unpaid balances. If unpaid amounts are collected through legal proceedings or by an attorney, the client shall pay reasonable costs and attorney's fees or agents' fees associated with such collection 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 to client's use of any report or data, information, or reports furnished to PCL. Client is securing services hereunder for its 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 rely upon, in connection with or support of, the purchase, sale, underwriting, or distribution of any securities, any periodic or other reporting to the holders of any securities existing, anticipated, renewed, 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 or allow PCL to meet holding times without applying a rush surcharge. All short holding times, 3-7 days, samples must arrive at the lab within 24 hours before expiration to ensure that the holding times can be met. Short holding times of 48 hours or less (bacteria) must be received and delivered the same day in order to guarantee holding times are met - after hours, late delivery, transit 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 may 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: 31-May-19 14:23
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0595-01) Collected: 28-May-19 By Carlos Alvarez						
pH	SM4500-H-B	AE92925	0.1	28-May-19 (PL)	7.3 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE92927	0.05	29-May-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE92825	1.8	30-May-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE92825	1.8	30-May-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,

Steve Jefferson 5/31/2019
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.#: 19E0595

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
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	05/28/19	0900	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (Carl)	05/28/19	
Received by	EG	Carl	5/28/19	1130
Relinquished by	EG	Carl	5/28/19	1330
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	5/29/19	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	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

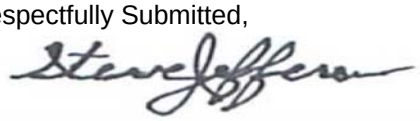
Attention: Ric Vardel
Report Date: 31-May-19 14:26
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0630-01) Collected: 29-May-19 By Golan Kfir						
pH	SM4500-H-B	AE93013	0.1	29-May-19 (JC)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE93014	0.05	30-May-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE92934	1.8	31-May-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE92934	1.8	31-May-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 5/31/2019
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.#: 19E0630

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field (Lab)
EFF	5/29/19	11:15	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.42 / 20.8°C
	〃	〃	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by OK	Golan IPC	5/29/19	11:30
Received by	Hernando Olmos (Pat-Chem)	5/29/19	12:05
Relinquished by	Hernando Olmos (Pat-Chem)	5/29/19	14:10
Received by			
Relinquished by			
Received in lab by	MARIO SANTIESTEBAN (PCL)	5/29/19	1410

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC? (Yes) No

Samples intact? (Yes) No

Samples properly preserved? (Yes) No

Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____

Final Flow _____

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

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

Rev 2 Effective 5/1/17

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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

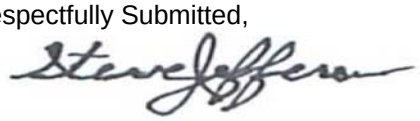
Attention: Ric Vardel
Report Date: 04-Jun-19 16:08
Subject: (MCC) Weekly EFF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0644-01) Collected: 29-May-19 By C.A.						
Ammonia as N	EPA 350.1	AE93007	0.10	30-May-19 (SGS)	<0.10 mg/l	
Biochemical Oxygen Demand	SM 5210B	AE93018	2	04-Jun-19 (EA)	2 mg/l	
Nitrate as N	EPA 353.2	AE92932	0.20	29-May-19 (LA)	2.47 mg/l	
Nitrite as N	EPA 353.2	AE92932	0.02	29-May-19 (LA)	<0.02 mg/l	
Total Kjeldahl Nitrogen	EPA 351.2	AE93010	0.10	31-May-19 (LA)	1.18 mg/l	
Total Suspended Solids	SM 2540D	AE93019	1	30-May-19 (EA)	<1 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/4/2019
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.#: 19E0644

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	5/29/18	11:15	1	TSS	Grab	AQ	1L P	4°C	
	〃	〃	1	NH4, TKN	Grab	AQ	500 P	HS	
	〃	〃	1	NO2, NO3	Grab	AQ	500 P	4°C	
	5/28/19	0:00	1	BOD	~~Grab~~ Comp	AQ	1L P	4°C	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: GK	Golan IPC	5/29/19	11:30
Received by:	Armando Olmos (Pat-Chem)	5/29/19	12:05
Relinquished by:	Armando Olmos (Pat-Chem)	5/29/19	14:10
Received by:			
Relinquished by:			
Received in lab by:	MARIO SANTIESTEBAN (PCL)	5/29/19	1410

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC? (Yes) No

Samples intact? (Yes) No

Samples properly preserved? (Yes) No

Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

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

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

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
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

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pat-chem.com

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

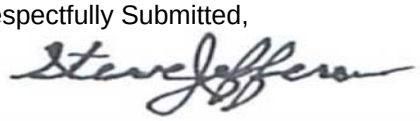
Attention: Ric Vardel
Report Date: 04-Jun-19 16:05
Subject: (MCC) Weekly INF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
INF (Sample I.D.# : 19E0642-01) Collected: 29-May-19 By Golan Kfir						
Biochemical Oxygen Demand	SM 5210B	AE93018	2	04-Jun-19 (EA)	601 mg/l	
Total Suspended Solids	SM 2540D	AE93019	1	30-May-19 (EA)	312 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/4/2019
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.#: 19E0642

Customer: IPC, Inc.		Project : (MCC) Weekly INF	
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
INF	5/28/19	0:00	1	TSS	~~Grab~~ Comp	AQ	1L P	4°C	
	"	"	1	BOD	~~Grab~~ Comp	AQ	1L P	4°C	
Geotracker EDD: Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: GK	Golan IPC	5/29/19	11:30
Received by: [illegible]	[illegible]	5/29/19	17:05
Relinquished by: [illegible]	[illegible] (Pat-Chem)	5/29/19	14:10
Received by:			
Relinquished by:			
Received in lab by: [illegible]	MARIO SANTIESTEBAN (PCL)	5/29/19	1410

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

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

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
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-Jun-19 15:19
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0654-01) Collected: 30-May-19 By Golan Kfir						
pH	SM4500-H-B	AE93107	0.1	31-May-19 (PL)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AE93108	0.05	31-May-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE93012	1.8	03-Jun-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE93012	1.8	03-Jun-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/3/2019
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.#: 19E0654

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field (Lab)
EFF	05/30/19	0910	1	AQ pH, T.Res.Chlorine					7.39 / 19.4°C
			1	AQ Total & Fecal Coliform					
1	1	1							
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by	Carlos Alvarez (SFC)	05/30/19	12:29
Received by	Armando Olmos (Pat-Chem)	5/30/19	12:29
Relinquished by	Armando Olmos (Pat-Chem)	5/30/19	13:35
Received by			
Relinquished by			
Received in lab by	MARIO SANTIESTEBAN (PCL)	5/30/19	1355

Sample Received Checklist

Temperature upon receipt: 4 °C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
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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pat-chem.com

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

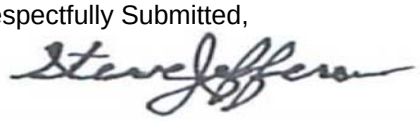
Attention: Ric Vardel
Report Date: 03-Jun-19 09:52
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19E0675-01) Collected: 31-May-19 By Golan Kfir						
pH	SM4500-H-B	AF90125	0.1	31-May-19 (JC)	7.3 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF90126	0.05	01-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AE93116	1.8	02-Jun-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AE93116	1.8	02-Jun-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/3/2019
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.#: 19E0675

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	05/31/19	0930	1	AQ pH, T.Res.Chlorine					7.29/17.4°C
	"	"	1	AQ Total & Fecal Coliform					
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	05/31/19	13:45
Received by		Armando Olmos (PatChem)	5/31/19	13:47
Relinquished by		Armando Olmos (PATCHEM)	5/31/19	15:15
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN	5/31/19	1515

Sample Received Checklist

Temperature upon receipt: 4°C

# of bottles agrees with COC? (Yes) 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

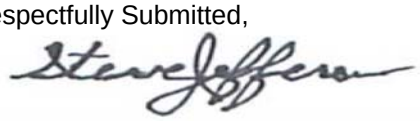
Attention: Ric Vardel
Report Date: 03-Jun-19 15:38
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0004-01) Collected: 01-Jun-19 By Ric Vardel						
pH	SM4500-H-B	AF90130	0.1	01-Jun-19 (JC)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF90213	0.05	02-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF90124	1.8	03-Jun-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF90124	1.8	03-Jun-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/3/2019
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.#: 19F0064

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field (Lab)
EFF	6/1	1000	1	AQ pH, T.Res.Chlorine					7.45/13.3°
11	11	1000	1	AQ Total & Fecal Coliform					
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Ric Vardel (IPC)	6/1	1015
Received by				
Relinquished by	Jose L Gomez	Jose L Gomez	6-1-19	1025
Received by				
Relinquished by				
Received in lab by		Jordan Corkery	6/1/19	11:30

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

Sample Received Checklist

Temperature upon receipt: 12°C
# of bottles agrees with COC? (Yes) 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 - $CuSO_4$

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

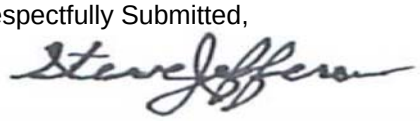
Attention: Ric Vardel
Report Date: 10-Jun-19 13:45
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0009-01) Collected: 02-Jun-19 By Victor Arikian						
pH	SM4500-H-B	AF90217	0.1	02-Jun-19 (JC)	7.5 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF90218	0.05	02-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF90216	1.8	06-Jun-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF90216	1.8	06-Jun-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/10/2019
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.#: 19F000899

Customer: IPC, Inc.		Project: (MCC) Daily EFF	
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	6/2	09:38	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.48/13.3°
〃	〃	〃	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	

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

	Signature	Print Name (Company)	Date	Time
Relinquished by		VICTOR ARIKIAN (IPC)	6/2	09:39
Received by		Jordan Corkery (PatChem)	6/2	12:15
Relinquished by				
Received by				
Relinquished by				
Received in lab by		Jordan Corkery	6/2/19	13:50

Sample Received Checklist

Temperature upon receipt: 10°
# of bottles agrees with COC? (Yes) 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

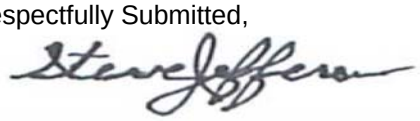
Attention: Ric Vardel
Report Date: 10-Jun-19 13:48
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0018-01) Collected: 03-Jun-19 By Victor Arikian						
pH	SM4500-H-B	AF90419	0.1	03-Jun-19 (PL)	6.9 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF90421	0.05	04-Jun-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF90328	1.8	05-Jun-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF90328	1.8	05-Jun-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/10/2019
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.#: 19F0018

Customer: IPC, Inc.		Project : **(MCC) Daily EFF**	
Address: 9297 Research Drive		Sampled by: C. Dhanens	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	06/03/19	1010	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.29/18.7°
"	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	

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

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Dhanens	Carlos Alvarez (IPC)	06/03/19	12:40
Received by		Armando Arias (PCL)	6/3/19	12:40
Relinquished by		Armando Arias (PCL)	6/3/19	16:30
Received by				
Relinquished by				
Received in lab by	Mars Santiesteban	MARS SANTIESTEBAN (PCL)	6/3/19	1630

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

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

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

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

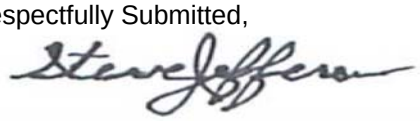
Attention: Ric Vardel
Report Date: 10-Jun-19 13:51
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0075-01) Collected: 04-Jun-19 By Victor Arikian						
pH	SM4500-H-B	AF90531	0.1	04-Jun-19 (JC)	7.3 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF90532	0.05	05-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF90430	1.8	06-Jun-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF90430	1.8	06-Jun-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/10/2019
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.#: 19F0075

Customer: IPC, Inc.		Project : **(MCC) Daily EFF**	
Address: 9297 Research Drive		Sampled by: Mike Jahromi	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	06/04/19	11:10 AM	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.3 / 20.4°C
			1	Total & Fecal Coliform	Grab	AQ	Coli	ST	

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

Signature	Print Name (Company)	Date	Time
Relinquished by	Mike Jahromi	06/04/19	17:15
Received by	Armenuhi Sarkissian (Pat-Chem)	6/4/19	17:15
Relinquished by	Armenuhi Sarkissian (Pat-Chem)	6/4/19	16:15
Received by			
Relinquished by			
Received in lab by	MARIO SAN JUESTEBAN (PCL)	6/4/19	1615

Sample Received Checklist

Temperature upon receipt: 4 °C
# of bottles agrees with COC? (Yes) 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.

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

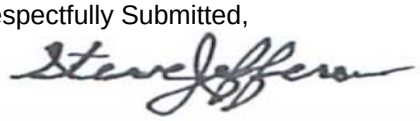
Attention: Ric Vardel
Report Date: 10-Jun-19 13:57
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0115-01) Collected: 05-Jun-19 By C.A.						
pH	SM4500-H-B	AF90543	0.1	05-Jun-19 (JC)	7.5 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF90544	0.05	05-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF90530	1.8	07-Jun-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF90530	1.8	07-Jun-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/10/2019
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.#: 19F0115

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	06/05/19	1030	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	

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

	Signature	Print Name (Company)	Date	Time
Relinquished by	C.	Carlos Alvarez (IPC)	06/05/19	
Received by	EG	Carlos MV	6/5/19	1400
Relinquished by	EG	Carlos FedEx	6/5/19	1800
Received by				
Relinquished by				
Received in lab by			6/5/19	15:00

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.

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

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

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

Attention: Ric Vardel
Report Date: 02-Jul-19 13:18
Subject: (MCC) Monthly EFF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0114-01) Collected: 05-Jun-19 By Carlos Alvarez						
Boron	EPA 200.7	AF90607	0.10	10-Jun-19 (AF)	0.44 mg/l	
MBAS	SM 5540C	AF90545	0.20	05-Jun-19 (JC)	<0.20 mg/l	
Oil & Grease (HEM)	EPA 1664A	AF90707	5	07-Jun-19 (AV)	<5 mg/l	
Phosphorus, Total as P	EPA 365.1	AF92720	0.06	28-Jun-19 (LA)	3.04 mg/l	
Total Dissolved Solids	SM 2540C	AF90613	5	07-Jun-19 (EA)	992 mg/l	
Chloride	EPA 300.0	AF91230	1.0	13-Jun-19 (AV)	252 mg/l	
Sulfate as SO4	EPA 300.0	AF91230	0.5	13-Jun-19 (AV)	195 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 7/2/2019
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.#: 19F0114

Customer: IPC, Inc.
Project: (MCC) Monthly EFF
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	Preserv.	Field Data (pH / Temperature) pH: Field Lab
EFF	06/05/19	1030	1	SO4, Cl, TDS	Grab	AQ	1/2	4°C	
			1	MBAS	Grab	AQ	Gal. P 500 P	4°C	
			1	Oil & Grease	Grab	AQ	1L G	HC	
			1	Boron	Grab	AQ	250 P	HN	
			1	T.Phos	Grab	AQ	250 P	4°C	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. [illegible]	Carlos Alvarez (IPC)	06/05/19	
Received by	EB [illegible]	PAT 6/5/19		1400
Relinquished by	EB [illegible]	PAT 6/5/19		1500
Received by				
Relinquished by				
Received in lab by	[illegible]		6/5/19	15:00

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.

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QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
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(818) 639-5300 ph
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pat-chem.com

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

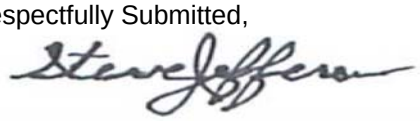
Attention: Ric Vardel
Report Date: 20-Jun-19 18:07
Subject: (MCC) Weekly EFF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0118-01) Collected: 05-Jun-19 By C.A.						
Ammonia as N	EPA 350.1	AF90708	0.10	07-Jun-19 (SGS)	<0.10 mg/l	
Biochemical Oxygen Demand	SM 5210B	AF90612	2	11-Jun-19 (EA)	<2 mg/l	
Nitrate as N	EPA 353.2	AF90610	0.20	06-Jun-19 (LA)	3.03 mg/l	
Nitrite as N	EPA 353.2	AF90610	0.02	06-Jun-19 (LA)	<0.02 mg/l	
Total Kjeldahl Nitrogen	EPA 351.2	AF91028	0.20	18-Jun-19 (LA)	1.37 mg/l	
Total Suspended Solids	SM 2540D	AF90608	1	06-Jun-19 (SGS)	<1 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/20/2019
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.#: 19F0118

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	06/05/19	1030	1	TSS	Grab	AQ	1L P	4°C	
			1	NH4, TKN	Grab	AQ	500 P	HS	
			1	NO2, NO3	Grab	AQ	500 P	4°C	
	06/04	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	Carlos Alvarez (IPC)	06/05/19	
Received by	EG	[illegible]	6/5/19	1400
Relinquished by	EG	[illegible]	6/5/19	1500
Received by				
Relinquished by				
Received in lab by			6/5/19	15:00

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.

Rev 2 Effective 5/1/17

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

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

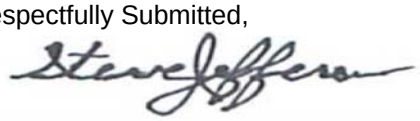
Attention: Ric Vardel
Report Date: 11-Jun-19 14:02
Subject: (MCC) Weekly INF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
INF (Sample I.D.# : 19F0116-01) Collected: 05-Jun-19 By C. A.						
Biochemical Oxygen Demand	SM 5210B	AF90612	2	11-Jun-19 (EA)	349 mg/l	
Total Suspended Solids	SM 2540D	AF90608	1	06-Jun-19 (SGS)	263 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/11/2019
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.#: 19F0116

Customer: IPC, Inc.		Project : **(MCC) Weekly INF**	
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**
INF	06/04/19	0000	1	TSS	Comp	AQ	1L P	4°C	
"	"	"	1	BOD	Comp	AQ	1L P	4°C	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	C.	Carlos Alvarez (3Pac)	06/05/19	
Received by	EG	Grant (3Pac)	6/5/19	1400
Relinquished by	EG	EG	6/5/19	1500
Received by				
Relinquished by				
Received in lab by			6/5/19	15:00

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.

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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

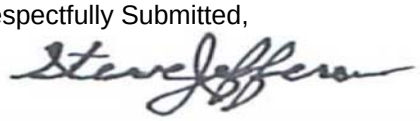
Attention: Ric Vardel
Report Date: 10-Jun-19 13:59
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0149-01) Collected: 06-Jun-19 By C.A.						
pH	SM4500-H-B	AF90710	0.1	06-Jun-19 (JC)	7.6 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF90711	0.05	07-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF90615	1.8	08-Jun-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF90615	1.8	08-Jun-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/10/2019
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.#: 19F0149

Customer: IPC, Inc.		Project: (MCC) Daily EFF	
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	06/06/19	1145	1	pH, T.Res Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	

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

	Signature	Print Name (Company)	Date	Time
Relinquished by				
Received by		Carlos Alvarez (PCL)	06/06/19	
			PM 6.6.19	1200
Relinquished by				
Received by				
Relinquished by				
Received in lab by		Daisy Parada	6/6/19	12:00

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

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

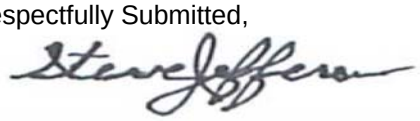
Attention: Ric Vardel
Report Date: 10-Jun-19 14:01
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0178-01) Collected: 07-Jun-19 By Golan Kfir						
pH	SM4500-H-B	AF90815	0.1	07-Jun-19 (JC)	7.6 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF90814	0.05	08-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF90709	1.8	09-Jun-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF90709	1.8	09-Jun-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/10/2019
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.#: 19F0178

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	6/7/19	10:55	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	

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

Signature	Print Name (Company)	Date	Time
Relinquished by GK	Golan IPC	6/7/19	11:00
Received by	Jairo Menjivar	6/7/19	12:20PM
Relinquished by	Jaird Menjivar	6/7/19	3:00PM
Received by			
Relinquished by			
Received in lab by	MARIO SANTIESTEBAN (PCL)		1530

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
Grab
Comp

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

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

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

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

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

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

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

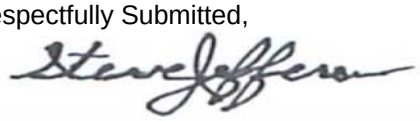
Attention: Ric Vardel
Report Date: 11-Jun-19 12:30
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0184-01) Collected: 08-Jun-19 By J.T. McDonald						
pH	SM4500-H-B	AF90918	0.1	08-Jun-19 (JC)	7.6 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF90917	0.05	09-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF90813	1.8	11-Jun-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF90813	1.8	11-Jun-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/11/2019
Laboratory Director

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

CHAIN OF CUSTODY RECORD

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

Environmental Sample

Sample I.D.#: 19F0184

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	9:15 → 9:15	6/8 → 6/8	AQ 1	pH, T.Res.Chlorine					
			AQ 1	Total & Fecal Coliform					
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: J.T McDonald	IPC.	6.8	9:30
Received by: EC	[illegible]	6/8/19	1000
Relinquished by: EC	[illegible]	6/8/19	1130
Received by			
Relinquished by			
Received in lab by	Jordan Corkery	6/8/19	1130

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

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
Grab
Comp

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

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

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

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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

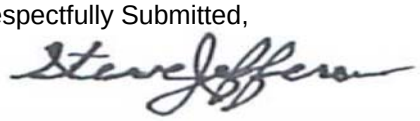
Attention: Ric Vardel
Report Date: 11-Jun-19 12:41
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0192-01) Collected: 09-Jun-19 By Victor Arikian						
pH	SM4500-H-B	AF91022	0.1	09-Jun-19 (PL)	7.0 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF91023	0.05	10-Jun-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF90916	1.8	11-Jun-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF90916	1.8	11-Jun-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/11/2019
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.#: 19F0192

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
Address: 9297 Research Drive Irvine CA 92618		Sampled by: VICTOR ARFIKIAN 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	6/9/2019	09:51	AQ	1 pH, T.Res.Chlorine					
"	"	"	AQ	1 Total & Fecal Coliform					
Geotracker EDD:									
Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by	VICTOR ARFIKIAN (IPC)	6/9/2019	09:52
Received by	Alex Walker (PCL)	6/9/19	1238
Relinquished by	Alex Walker Jr	6/9/19	1500
Received by			
Relinquished by			
Received in lab by	Jaime Parada	6/9/19	15:10

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
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

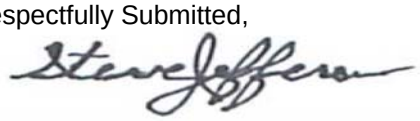
Attention: Ric Vardel
Report Date: 12-Jun-19 12:50
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0208-01) Collected: 10-Jun-19 By CA						
pH	SM4500-H-B	AF91117	0.1	10-Jun-19 (PL)	7.3 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF91119	0.05	11-Jun-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF91030	1.8	12-Jun-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF91030	1.8	12-Jun-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/12/2019
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.#: 19F0208

Customer: IPC, Inc.		Project : **(MCC) Daily EFF**	
Address: 9297 Research Drive		Sampled by: C. Ha	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	06/10/19	0930	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
1	1	1	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	

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

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Ha	Carlos Arana (IPC)	06/10/19	
Received by	EL	Fed Ex	6/10/19	1230
Relinquished by	EL	Fed Ex	6/10/19	1350
Received by				
Relinquished by				
Received in lab by		Dario Parada	6/10/19	13:50

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

Sample Received Checklist

Temperature upon receipt: 4

# of bottles agrees with COC? (Yes) No

Samples intact? (Yes) No

Samples properly preserved? (Yes) No

Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

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

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

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

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

Attention: Ric Vardel
Report Date: 14-Jun-19 16:16
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0245-01) Collected: 11-Jun-19 By GK						
pH	SM4500-H-B	AF91231	0.1	11-Jun-19 (JC)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF91232	0.05	12-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF91126	1.8	13-Jun-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF91126	1.8	13-Jun-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/14/2019
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.#: 1960245

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	6/11/19	11:40	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	〃	〃	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
~~Geotracker EDD:~~ Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name	(Company)	Date	Time
Relinquished by GK	Golan	IPC	6/11/19	11:45
Received by	Jairo	Menjivar	6-11-19	12:30
Relinquished by	Jairo	Menjivar	6-11-19	3:00
Received by				
Relinquished by				
Received in lab by			6/11/19	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
AI - $AlCl_3$
Cu -$CuSO_4$

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

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pat-chem.com

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

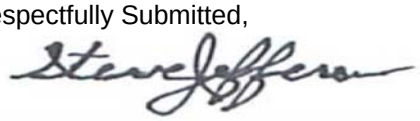
Attention: Ric Vardel
Report Date: 25-Jun-19 15:45
Subject: (MCC) Weekly INF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
INF (Sample I.D.# : 19F0291-01) Collected: 11-Jun-19 By GK						
Biochemical Oxygen Demand	SM 5210B	AF91316	2	18-Jun-19 (EA)	409 mg/l	
Total Suspended Solids	SM 2540D	AF91315	1	13-Jun-19 (EA)	326 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/25/2019
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.#: 19F0291

Customer: IPC, Inc.		Project : (MCC) Weekly INF	
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
INF	6/11/19	0:00	1	TSS	~~Grab~~ Comp	AQ	1L P	4°C	
	"	"	1	BOD	~~Grab~~ Comp	AQ	1L P	4°C	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: GK	Golan IPC	6/12/19	10:30
Received by:	Jairo Maywar	6/12/19	12:30PM
Relinquished by:	Jairo Maywar	6/12/19	3:00PM
Received by:			
Relinquished by:			
Received in lab by:	Jairo Parada	6/13/19	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
Al - $AlCl_3$
Cu - $CuSO_4$

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

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pat-chem.com

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

Attention: Ric Vardel
Report Date: 14-Jun-19 16:23
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0289-01) Collected: 12-Jun-19 By GK						
pH	SM4500-H-B	AF91309	0.1	12-Jun-19 (JC)	7.5 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF91308	0.05	13-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF91233	1.8	14-Jun-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF91233	1.8	14-Jun-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/14/2019
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.#: 19F0289

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	6/12/19	10:10	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
~~Geotracker EDD:~~ Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name	(Company)	Date	Time
Relinquished by GK	Golan	IPC	6/12/19	10:30
Received by	Jairo	Menjivar	6/12/19	12:30PM
Relinquished by	Jairo	Menjivar	6/12/19	5:00PM
Received by				
Relinquished by				
Received in lab by	Jairo	Parada	6/12/19	15:00

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.

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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: 25-Jun-19 15:28
Subject: (MCC) Weekly EFF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0288-01) Collected: 12-Jun-19 By GK						
Ammonia as N	EPA 350.1	AF91408	0.10	14-Jun-19 (SGS)	<0.10 mg/l	
Biochemical Oxygen Demand	SM 5210B	AF91316	2	18-Jun-19 (EA)	3 mg/l	
Nitrate as N	EPA 353.2	AF91225	0.20	12-Jun-19 (LA)	2.63 mg/l	
Nitrite as N	EPA 353.2	AF91225	0.02	12-Jun-19 (LA)	<0.02 mg/l	
Total Kjeldahl Nitrogen	EPA 351.2	AF91734	0.10	18-Jun-19 (LA)	0.92 mg/l	
Total Suspended Solids	SM 2540D	AF91315	1	13-Jun-19 (EA)	<1 mg/l	

Notes and Definitions

Respectfully Submitted,

Steve Jefferson 6/25/2019
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.#: 19F0288

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	6/12/19	10:10	1	TSS	Grab	AQ	1L P	4°C	
	"	"	1	NH4, TKN	Grab	AQ	500 P	HS	
	"	"	1	NO2, NO3	Grab	AQ	500 P	4°C	
	6/11/19	0:00	1	BOD	Comp.	AQ	1L P	4°C	
~~Geotracker EDD:~~ Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by GK	Golan IPC	6/12/19	10:30
Received by	Jairo Menjivar	6/12/19	12:30pm
Relinquished by	Jairo Menjivar	6/12/19	3:00pm
Received by			
Relinquished by			
Received in lab by	Jaird Parada	6/12/19	15:00

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.

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

Attention: Ric Vardel
Report Date: 20-Jun-19 18:13
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0316-01) Collected: 13-Jun-19 By CA						
pH	SM4500-H-B	AF91413	0.1	13-Jun-19 (JC)	7.5 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF91412	0.05	14-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF91307	1.8	15-Jun-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF91307	1.8	15-Jun-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/20/2019
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.#: 19F0316

Customer: IPC, Inc.		**Project :** (MCC) Daily EFF	
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	06/13/19	1050	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
1	1	1	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	

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

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (3Re)	06/13/19	
Received by	EB	[illegible]	6/13/19	1230
Relinquished by	EB	[illegible]	6/13/19	1400
Received by				
Relinquished by				
Received in lab by		Jaio Parada	6/13/19	14:00

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.

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(818) 639-5306 fx
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Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 20-Jun-19 18:15
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0347-01) Collected: 14-Jun-19 By CA						
pH	SM4500-H-B	AF91522	0.1	14-Jun-19 (JC)	7.5 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF91523	0.05	15-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF91411	1.8	16-Jun-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF91411	1.8	16-Jun-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,

Steve Jefferson 6/20/2019
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.#: 19F0347

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	6/14/19	10:45	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	

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

Signature	Print Name (Company)	Date	Time
Relinquished by GK	Golan IPC	6/14/19	11:00
Received by	Jairo Menjivar	6/14/19	12:34
Relinquished by	Jairo Menjivar	6/14/19	3:04
Received by			
Relinquished by			
Received in lab by	MARIO SANTIESTEBAN (PCL)	6/14/19	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

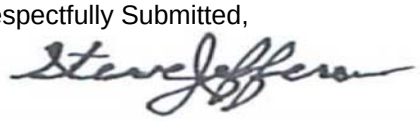
Attention: Ric Vardel
Report Date: 20-Jun-19 18:18
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0361-01) Collected: 15-Jun-19 By Joseph Clark						
pH	SM4500-H-B	AF91618	0.1	15-Jun-19 (JC)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF91619	0.05	16-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF91519	1.8	17-Jun-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF91519	1.8	17-Jun-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/20/2019
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.#: 19F0361

Customer: IPC, Inc.		Project : **(MCC) Daily EFF**	
Address: 9297 Research Drive, Irvine, CA 92618		Sampled by: Joseph Clark	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	6/15	09:55	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
11	11	11	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
Geotracker EDD:									
Logcode: IPCI									
Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: Joseph Clark	Joseph Clark (IPC)	6/15	10:00
Received by:			
Relinquished by: Jose L Gomez	Jose L Gomez	6/15/19	1040
Received by:			
Relinquished by:			
Received in lab by: Jordan Corkery	Jordan Corkery	6/15/19	1148

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: 20-Jun-19 18:20
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0367-01) Collected: 16-Jun-19 By Joseph Clark						
pH	SM4500-H-B	AF91720	0.1	16-Jun-19 (PL)	7.2 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF91721	0.05	17-Jun-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF91617	1.8	18-Jun-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF91617	1.8	18-Jun-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/20/2019
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.#: 19E0367

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
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	6/16/2019	09:39	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	6/16/2019	09:39	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
"	"	"							
Geotracker EDD:									
Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by	VICTOR ARIKIAN (IPC)	6/16/2019	09:44
Received by	Alex Walker Jr	6/16/19	1146
Relinquished by			
Received by			
Relinquished by			
Received in lab by	Alex Walker Jr (PCL)	6/16/19	1430

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

Sample Received Checklist

Temperature upon receipt: 4°c

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

Compliance Monitor

Initial Flow _____

Final Flow _____

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

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 (PCL) Terms and Conditions

1. Definitions

"Terms and Conditions" means these terms and Conditions of sale, including the price schedule, and any additions or amendments hereto which are agreed to in writing. "Client" means the individual or entity who 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 related 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 in the public domain or client has filed to pay PCL for all services rendered or is otherwise in breach of the agreement) subject to any disclosure required by law or legal process. PCL shall use the same standard of care it uses in protecting its own confidential data and shall not be responsible for unauthorized disclosure of said data where such standard was observed. PCL reports and information provided thereon are for the exclusive use and benefit of client and client agrees there shall be no third party beneficiaries of such reports, data or information. Client will not disclose to any third party any information concerning technical information, software programs or other formulations.

10. Hold Harmless

Client releases and shall save, indemnify, defend and hold PCL, its employees, officers, directors, agents, affiliates, subsidiaries and parent harmless from and against any and all liabilities, losses or damages, claims, demands, causes of action, suits and associated expenses including, but not limited to, all court fees (the Litigation Expenses) and awards arising in favor of Client or any third party as a result of, and/or in any way occurring incident to arising out of, or in connection with the performance of services by PCL pursuant to this agreement and/or transportation, handling or disposal of client's hazardous materials, 1. injury, disease or death of persons 2. loss of, damage to, loss of, or loss of use of property and or 3. Financial loss of every kind of character. This indemnity does not apply to any of the foregoing losses, suits, damages, or injuries caused solely by the gross negligence or willful misconduct of PCL or its employees. Further, this indemnity shall specifically apply to losses, claims damages, actions of every kind and character arising out of or in connection with the negligence of or breach of contract by any indemnified Persons, whether actual or alleged, in the performance of services under this agreement. The foregoing indemnities will be in addition to any liability which the client might otherwise have to PCL and the other indemnified Persons. To the extent necessary under applicable law, Client agrees that its indemnity obligation will be supported by available liability insurance coverage to be furnished by client, which insurance shall be in the maximum amounts permitted under applicable law. In no event shall PCL be liable to client for indirect, punitive, special, incidental or consequential damages (including without limitation loss of profit or business interruption) litigation Expenses or other fees (including, without limitation, attorney's fees, court costs, and /or pre or post judgment interest), or any other expenses or costs incurred by Client or any other party in any litigation against or involving PCL or any indemnified person in connection with this agreement or all services provided under this agreement even if client is the prevailing party.

11. Hazardous Substances

For PCL to perform the services requested by client, client will provide and PCL will receive samples materials or mixtures such as asbestos, polychlorinated biphenyls, bacteria or any other hazardous or toxic material, waste 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 SSA/QC policies. In the event the client does not specify its preferred method of disposal, PCL will return to the client all unused samples which contain Hazardous Materials. PCL reserves the right to charge the client for the disposal of unused samples in accordance with PCL's current sample disposal policy. In addition, all samples received by PCL for any/all bacterial analysis, client will be charged a sample disposal fee, per sample submitted, in accordance with our QA/QC policies and procedures.

12. Prices/Payments

Client shall pay PCL in accordance with PCL's applicable price schedule in effect at the time of operations or the date the services were rendered or with prices quoted and later confirmed in writing. The price schedule is subject to change at any time without notice. Payment in advance or when analysis is completed is required for all new clients or until a history of payment and/or credit account has been established with PCL. For those clients with an established credit account, the terms for payment of charges are NET CASH within thirty (30) days from date of invoices. To the fullest extent permitted by law or any 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 collected through legal proceedings or by an attorney, the client shall pay reasonable costs and attorney's fees or agents' fees associated with such collection 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, or shall be used to relied upon in connection with or as part of, the purchase, sale, underwriting, or distribution of any securities. Communication or other reporting to the public of any securities, the securing, amendment, renewal or extension of any loan from any financial institution or other lender or the certification to or connecting with, directly or indirectly, any governmental agency or department.

15. Rush Analysis

Rush analyses are available for an additional charge and must be actioned 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 client notification or acceptance, for short holding times, 72 hours, samples must arrive at the lab within 24 hours before expiration to ensure that the holding times can be met. Short Holding Times of 48 hours or less (bacteria is 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 ninety (30) days after analysis has been completed. Sample storage for longer periods is by request only. Pre-arranged long term storage is subject to an additional charge. Samples will be discarded at the end of the pre-arranged storage time.

18. Sample Pick Up/Field Tech Sampling

All pick up/sampling fees have been notated on the fee schedule. Reasonable time has been allocated for each pick up or service. Unnecessary delays during the pick up or sampling might be accessed an additional fee.

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

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

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

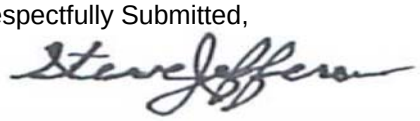
Attention: Ric Vardel
Report Date: 20-Jun-19 18:22
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0375-01) Collected: 17-Jun-19 By Carlos Alvarez						
pH	SM4500-H-B	AF91816	0.1	17-Jun-19 (PL)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF91818	0.05	18-Jun-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF91729	1.8	19-Jun-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF91729	1.8	19-Jun-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/20/2019
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.#: 19F0375

Customer: IPC, Inc.		**Project :** (MCC) Daily EFF	
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	06/17/19	1200	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
1	1	1	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	

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

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (ZPC)	06/17/19	
Received by		Jaird Menjivar	6/17/19	12:35pm
Relinquished by		Jaird Menjivar	6/17/19	3:00pm
Received by				
Relinquished by				
Received in lab by		MARIO SANTESTEBAN (PCL)	6/17/19	1410

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____

Final Flow _____

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

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

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
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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: 20-Jun-19 18:26
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0397-01) Collected: 18-Jun-19 By Julio Leal						
pH	SM4500-H-B	AF91931	0.1	18-Jun-19 (JC)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF91930	0.05	19-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF91825	1.8	20-Jun-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF91825	1.8	20-Jun-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/20/2019
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.#: 19F0397

Customer: IPC, Inc.		**Project :** (MCC) Daily EFF	
Address: 9297 Research Drive		**Sampled by:** JULIO LEAL	**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	06-18-19	11:02	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.40 / 21.6°C
	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
~~Geotracker EDD:~~ Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by	JULIO LEAL	6-18-19	12:30
Received by	ARMANDO OLMOS (PatChem)	6/18/19	12:30
Relinquished by	ARMANDO OLMOS (PatChem)	6/18/19	14:00
Received by			
Relinquished by			
Received in lab by	MARIA SANTIESTEBAN (PCL)	6/18/19	1400

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
Grab
Comp

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

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

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
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: 25-Jun-19 15:15
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0430-01) Collected: 19-Jun-19 By Carlos Alvarez						
pH	SM4500-H-B	AF92010	0.1	19-Jun-19 (JC)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF92009	0.05	20-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF91935	1.8	21-Jun-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF91935	1.8	21-Jun-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/25/2019
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.#: 19F0430

Customer: IPC, Inc.		Project: (MCC) Daily EFF	
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	06/19/19	1040	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (PCL)	06/19/19	
Received by	Eb	Eb (PCL)	6/19/19	1230
Relinquished by	Eb	Eb (PCL)	6/19/19	1430
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	6/19/19	1515

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow

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

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

Rev 2 Effective 5/1/17

PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

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

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

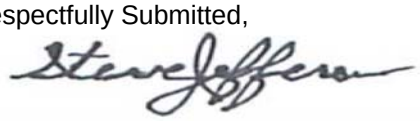
Attention: Ric Vardel
Report Date: 25-Jun-19 15:42
Subject: (MCC) Weekly EFF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0443-01) Collected: 19-Jun-19 By Carlos Alvarez						
Ammonia as N	EPA 350.1	AF92117	0.10	21-Jun-19 (SGS)	<0.10 mg/l	
Biochemical Oxygen Demand	SM 5210B	AF92011	2	25-Jun-19 (EA)	<2 mg/l	
Nitrate as N	EPA 353.2	AF92008	0.20	20-Jun-19 (LA)	2.32 mg/l	
Nitrite as N	EPA 353.2	AF92008	0.02	20-Jun-19 (LA)	<0.02 mg/l	
Total Kjeldahl Nitrogen	EPA 351.2	AF92433	0.10	25-Jun-19 (LA)	0.87 mg/l	
Total Suspended Solids	SM 2540D	AF92012	1	20-Jun-19 (EA)	1 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/25/2019
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.#: AFO443

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	06/19/19	1040	1	TSS	Grab	AQ	1L P	4°C	
	"	"	1	NH4, TKN	Grab	AQ	500 P	HS	
	"	"	1	NO2, NO3	Grab	AQ	500 P	4°C	
	06/18/19	0000	1	BOD	~~Grab~~ Composite	AQ	1L P	4°C	
~~Geotracker EDD:~~ Logcode: IPCI Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (PCL)	06/19/19	
Received by		PCL	6/19/19	
Relinquished by		PCL	6/19/19	1430
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	6/19/19	1515

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

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

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

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QUALITY ANALYTICAL SERVICES SINCE 1987

1824 1st Street
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pat-chem.com

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

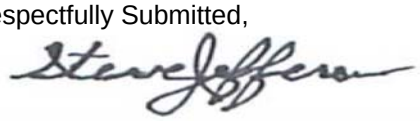
Attention: Ric Vardel
Report Date: 25-Jun-19 15:47
Subject: (MCC) Weekly INF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
INF (Sample I.D.# : 19F0442-01) Collected: 19-Jun-19 By Carlos Alvarez						
Biochemical Oxygen Demand	SM 5210B	AF92011	2	25-Jun-19 (EA)	422 mg/l	
Total Suspended Solids	SM 2540D	AF92012	1	20-Jun-19 (EA)	313 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/25/2019
Laboratory Director

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

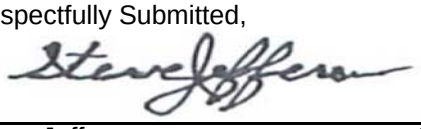
Attention: Ric Vardel
Report Date: 25-Jun-19 15:19
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0475-01) Collected: 20-Jun-19 By Carlos Alvarez						
pH	SM4500-H-B	AF92109	0.1	20-Jun-19 (JC)	7.3 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF92110	0.05	21-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF92015	1.8	22-Jun-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF92015	1.8	22-Jun-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/25/2019
Laboratory Director

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1824 1st Street
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CHAIN OF CUSTODY RECORD

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

Environmental Sample

Sample I.D.#: 19F0475

Customer: IPC, Inc.		**Project :** (MCC) Daily EFF	
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	06/20/19	1040	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.33/23.3°C
1	1	1	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
~~Geotracker EDD:~~ Logcode: IPCI Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (CAPE)	06/20/19	12:15
Received by		Armando Olmos (Pat-Chem)	6/20/19	12:15
Relinquished by		Armando Olmos (Pat-Chem)	6/20/19	
Received by				
Relinquished by				
Received in lab by		MARIO SANTESTEBAN (PCL)	6/20/19	1515

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

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

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

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

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pat-chem.com

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

Attention: Ric Vardel
Report Date: 25-Jun-19 15:21
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0483-01) Collected: 21-Jun-19 By Carlos Alvarez						
pH	SM4500-H-B	AF92225	0.1	21-Jun-19 (JC)	7.8 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF92224	0.05	22-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF92108	1.8	23-Jun-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF92108	1.8	23-Jun-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/25/2019
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.#: 19F0483

Customer: IPC, Inc.		**Project :** (MCC) Daily EFF	
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	06/21/19	1000	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.8 124.5
"	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	

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

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	06/21/19	10:00
Received by		Compliance IPC	6/21/19	10:00
Relinquished by		Compliance IPC	6/21	1:48
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	6/21/19	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	Preservations
Grab	**HC** - HCl
Comp	**HS** - H_2SO_4
Matrix	**HN** - HNO_3
AQ - Water	**HP** - H_3PO_4
SO -Soil / Sludge	**OH** - NaOH
OT - Other	**ST** - Sodium Thiosulfate
Bottle Type	**AA** - Ascorbic Acid
P - Plastic	**Al** - $AlCl_3$
G - Amber Glass	**Cu** -$CuSO_4$
VOA - 40 ml Vial	
Coli - bacteria	

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

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1824 1st Street
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Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

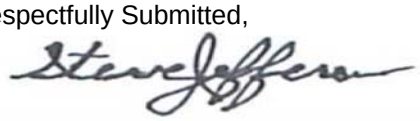
Attention: Ric Vardel
Report Date: 25-Jun-19 15:23
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0506-01) Collected: 22-Jun-19 By Carlos Alvarez						
pH	SM4500-H-B	AF92227	0.1	22-Jun-19 (JC)	7.3 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF92230	0.05	22-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF92223	1.8	24-Jun-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF92223	1.8	24-Jun-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/25/2019
Laboratory Director

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1824 1st Street
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CHAIN OF CUSTODY RECORD

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

Environmental Sample

Sample I.D.#: 19F0506

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	06/22/19	0950	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
			1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
~~Geotracker EDD:~~ Logcode: IPCI Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by	C.	Carlos Alvarez (PCL)	06/22/19	1000
Received by				
Relinquished by	Jose L Gomez	Jose L Gomez	6/22/19	10:00
Received by				
Relinquished by				
Received in lab by	Jordan Corkery	Jordan Corkery	6/22/19	11:55

Sample Received Checklist

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) 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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1824 1st Street
San Fernando, CA 91340
(818) 639-5300 ph
(818) 639-5306 fx
pat-chem.com

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

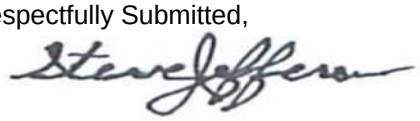
Attention: Ric Vardel
Report Date: 25-Jun-19 15:26
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0511-01) Collected: 23-Jun-19 By Victor Arikian						
pH	SM4500-H-B	AF92321	0.1	23-Jun-19 (JC)	7.5 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF92322	0.05	23-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF92318	1.8	25-Jun-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF92318	1.8	25-Jun-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 6/25/2019
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.#: 19F0511

Customer: IPC, Inc.		Project : (MCC) Daily EFF	
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	6/23/19	09:43	1	pH, T.Res.Chlorine	AQ				
	11	11	1	Total & Fecal Coliform	AQ				
Geotracker EDD:									
Logcode: IPCI Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by		VICTOR ARIKIAN (IPC)	6/23/19	09:47
Received by		Jordan Corkery (PatChem)	6/23/19	13:00
Relinquished by				
Received by				
Relinquished by				
Received in lab by		Jordan Corkery	6/23/19	14:31

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 - $CuSO_4$

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Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
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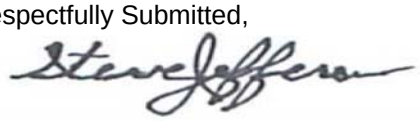
Attention: Ric Vardel
Report Date: 02-Jul-19 13:20
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0519-01) Collected: 24-Jun-19 By Carlos Alvarez						
pH	SM4500-H-B	AF92518	0.1	24-Jun-19 (PL)	7.2 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF92519	0.05	25-Jun-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF92430	1.8	26-Jun-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF92430	1.8	26-Jun-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 7/2/2019
Laboratory Director

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CHAIN OF CUSTODY RECORD

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

Environmental Sample

Sample I.D.#: 19F0519

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	06/24/19	0930	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.7/20.4 °C
"	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
~~Geotracker EDD:~~ Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by	C.	06/24/19	11:35
Received by	[illegible]	6/24/19	11:36
Relinquished by	[illegible]	6/24/19	12:48
Received by			
Relinquished by			
Received in lab by	MARIO SAN TIESTEBAN (PCL)	6/24/19	1248

Sample Received Checklist

Temperature upon receipt: 4°C
# of bottles agrees with COC? (Yes) 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

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pat-chem.com

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

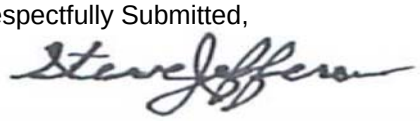
Attention: Ric Vardel
Report Date: 02-Jul-19 13:23
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0538-01) Collected: 25-Jun-19 By Carlos Alvarez						
pH	SM4500-H-B	AF92631	0.1	25-Jun-19 (JC)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF92632	0.05	26-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF92524	1.8	27-Jun-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF92524	1.8	27-Jun-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 7/2/2019
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.#: 19F0538

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field (Lab)
EFF	06/25/19	1120	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.38 / 22.9°C
1	1	1	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	

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

	Signature	Print Name (Company)	Date	Time
Relinquished by	C.	Carlos Arram (PCL)	06/25/19	12:15
Received by		Alejandro Olmos (PatChem)	6/25/19	12:15
Relinquished by		Alejandro Olmos (PatChem)	6/25/19	13:30
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	6/25/19	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	Matrix	Bottle Type
Grab	**AQ** - Water	**P** - Plastic
Comp	**SO** -Soil / Sludge	**G** - Amber Glass
	OT - Other	**VOA** - 40 ml Vial
		Coli - bacteria

Preservations

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

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

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PAT-CHEM
LABORATORIES

QUALITY ANALYTICAL SERVICES SINCE 1987

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

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

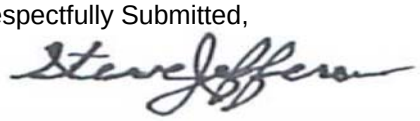
Attention: Ric Vardel
Report Date: 09-Jul-19 15:07
Subject: (MCC) Weekly INF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
INF (Sample I.D.# : 19F0611-01) Collected: 25-Jun-19 By Carlos Alvarez						
Biochemical Oxygen Demand	SM 5210B	AF92821	2	03-Jul-19 (EA)	315 mg/l	
Total Suspended Solids	SM 2540D	AF92822	1	28-Jun-19 (EA)	140 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 7/9/2019
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.#: 190611

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
INF	06/25/19	0000	1	TSS	Grab	AQ	1L P	4°C	
"	"	"	1	BOD	Grab	AQ	1L P	4°C	
~~Geotracker EDD:~~ Logcode: IPCI Global ID: WDR100000359									

	Signature	Print Name (Company)	Date	Time
Relinquished by	C.	Carlos Alvarez (Calel)	06/27/19	
Received by	Elc	Carlos TM	6.27.19	1215
Relinquished by				
Received by				
Relinquished by				
Received in lab by		MARIO SANTESTEBAN (PCL)	6/27/19	1325

Sample Received Checklist

Temperature upon receipt: 4 °C

# of bottles agrees with COC? (Yes) No

Samples intact? (Yes) No

Samples properly preserved? (Yes) No

Samples in holding time? (Yes) No

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type
Grab
Comp

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

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

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
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

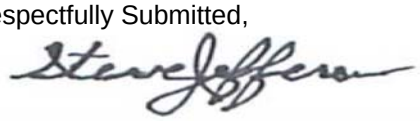
Attention: Ric Vardel
Report Date: 02-Jul-19 13:34
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0567-01) Collected: 26-Jun-19 By MJ						
pH	SM4500-H-B	AF92709	0.1	26-Jun-19 (JC)	7.8 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF92708	0.05	27-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF92630	1.8	28-Jun-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF92630	1.8	28-Jun-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 7/2/2019
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.#: 19F0567

Customer: IPC, Inc.		**Project :** (MCC) Daily EFF	
Address: 9297 Research Drive		**Sampled by:** Mike Jahromi	**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	06/26/19	11:45	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.8 / 24.8
	" "	" "	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	

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

	Signature	Print Name (Company)	Date	Time
Relinquished by		Mike Jahromi IPC	06/26/19	12:20
Received by		(PCL)	6/26/19	12:20
Relinquished by		(PCL)	6/26/19	13:04
Received by				
Relinquished by				
Received in lab by		MARIO SANTIESTEBAN (PCL)	6/26/19	1304

Sample Received Checklist

Temperature upon receipt: 4 °C
# of bottles agrees with COC? (Yes) 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: 09-Jul-19 15:12
Subject: (MCC) Weekly EFF

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0614-01) Collected: 26-Jun-19 By Carlos Alvarez						
Total Suspended Solids	SM 2540D	AF92822	1	28-Jun-19 (EA)	2 mg/l	
EFF (Sample I.D.# : 19F0614-02) Collected: 27-Jun-19 By Carlos Alvarez						
Ammonia as N	EPA 350.1	AG90126	0.10	01-Jul-19 (SGS)	0.26 mg/l	
Biochemical Oxygen Demand	SM 5210B	AF92821	2	03-Jul-19 (EA)	<2 mg/l	
Nitrate as N	EPA 353.2	AF92719	0.20	27-Jun-19 (LA)	2.94 mg/l	
Nitrite as N	EPA 353.2	AF92719	0.02	27-Jun-19 (LA)	0.04 mg/l	
Total Kjeldahl Nitrogen	EPA 351.2	AG90130	0.10	02-Jul-19 (LA)	0.93 mg/l	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 7/9/2019
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.#: 19F0614

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

Sample Description	Date Sampled	Time Sampled	# of bottles	Required Tests	Sample Type	Matrix	Bottle Type	Preserve	Field Data (pH / Temperature) pH: Field Lab
EFF	06/27/19	0000	1	TSS	~~Grab~~ Composite	AQ	1L P	4°C	
	06/27/19	1010	1	NH4, TKN	Grab	AQ	500 P	HS	
			1	NO2, NO3	Grab	AQ	500 P	4°C	
			1	BOD	Grab	AQ	1L P	4°C	

Geotracker EDD:
Logcode: IPCI
Global ID: WDR100000359

	Signature	Print Name (Company)	Date	Time
Relinquished by	C. Alvarez	Carlos Alvarez (CPC)	06/27/19	
Received by	EG Carlo	pcl	6/27/19	1245
Relinquished by				
Received by				
Relinquished by				
Received in lab by	Marjo Santisteban	MARJO SANTISTEBAN (PCL)	6/27/19	1325

Sample Received Checklist

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

Compliance Monitor

Initial Flow _____
Final Flow _____

Sample Type
Grab
Comp

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

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

Preservations
HC - HCl
HS - H_2SO_4
HN - HNO_3
HP - H_3PO_4
OH - NaOH
ST - Sodium Thiosulfate
AA - Ascorbic Acid
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

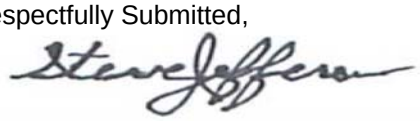
Attention: Ric Vardel
Report Date: 02-Jul-19 13:36
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0609-01) Collected: 27-Jun-19 By Carlos Alvarez						
pH	SM4500-H-B	AF92814	0.1	27-Jun-19 (JC)	7.4 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF92813	0.05	28-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF92707	1.8	29-Jun-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF92707	1.8	29-Jun-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 7/2/2019
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.#: 19F0609

Customer: IPC, Inc.		Project : **(MCC) Daily EFF**	
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	06/27/19	1005	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
"	"	"	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	

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

	Signature	Print Name (Company)	Date	Time
Relinquished by		Carlos Alvarez (IPC)	06/27/19	
Received by	EG		6/27/19	1215
Relinquished by				
Received by				
Relinquished by				
Received in lab by		MARIE SAN TIESTEBAN (PCL)	6/27/19	1325

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

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

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

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San Fernando, CA 91340
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Customer: **Integrated Performance Consultants, Inc.**
9297 Research Drive
Irvine CA, 92618

Attention: Ric Vardel
Report Date: 02-Jul-19 13:38
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0629-01) Collected: 28-Jun-19 By Carlos Alvarez						
pH	SM4500-H-B	AF92918	0.1	28-Jun-19 (JC)	7.2 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF92919	0.05	29-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF92816	1.8	30-Jun-19 (JC)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF92816	1.8	30-Jun-19 (JC)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 7/2/2019
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.#: 19F0629

Customer:	IPC, Inc.	Project :	(MCC) Daily EFF
Address:	9297 Research Drive	Sampled by:	Golan Kfir
	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~~	6/28/19	11:30	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	7.16 / 17.1°C
	"		1	Total & Fecal Coliform	Grab	AQ	Coli	ST	

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

Signature	Print Name (Company)	Date	Time
Relinquished by: GK	Golan IPC	6/28/19	11:45
Received by:	Armando Ornos (Pat Chem)	6/28/19	12:15
Relinquished by:	Armando Ornos (Pat Chem)	6/28/19	13:45
Received by:			
Relinquished by:			
Received in lab by:	~~ARMANDO~~ MARIO SANTIESTEBAN (PCL)	6/28/19	1345

Sample Received Checklist

Temperature upon receipt: 4°C

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

Compliance Monitor

Initial Flow _____

Final Flow _____

Sample Type	Preservations
Grab	**HC** - HCl
Comp	**HS** - H_2SO_4
Matrix	**HN** - HNO_3
AQ - Water	**HP** - H_3PO_4
SO -Soil / Sludge	**OH** - NaOH
OT - Other	**ST** - Sodium Thiosulfate
Bottle Type	**AA** - Ascorbic Acid
P - Plastic	**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.

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

Attention: Ric Vardel
Report Date: 02-Jul-19 13:40
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0650-01) Collected: 29-Jun-19 By Joseph Clark						
pH	SM4500-H-B	AF92921	0.1	29-Jun-19 (JC)	7.5 pH Units	
Residual Chlorine	SM 4500 Cl-G	AF92922	0.05	29-Jun-19 (JC)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF92917	1.8	01-Jul-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF92917	1.8	01-Jul-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 7/2/2019
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.#: 1970650

Customer: IPC, Inc.		Project: (MCC) Daily EFF	
Address: 9297 Research Drive		Sampled by: Joseph Clark	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	6/29/19	9:45	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
11	11	11	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	
~~Geotracker EDD:~~ Logcode: IPCI Global ID: WDR100000359									

Signature	Print Name (Company)	Date	Time
Relinquished by: Joseph Clark	Joseph Clark (IPC)	6/29/19	10:00
Received by:			
Relinquished by: Jose L Gomez	Jose L Gomez	6/29/19	10.10
Received by:			
Relinquished by:			
Received in lab by: Jordan Corkery	Jordan Corkery	6/29/19	11:13

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 - $CuSO_4$

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

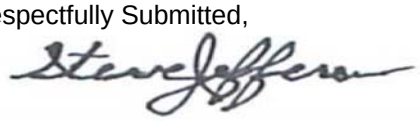
Attention: Ric Vardel
Report Date: 02-Jul-19 13:43
Subject: (MCC) Daily Effluent

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

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
EFF (Sample I.D.# : 19F0655-01) Collected: 30-Jun-19 By victor Arikian						
pH	SM4500-H-B	AF93024	0.1	30-Jun-19 (JC)	7.5 pH Units	
Residual Chlorine	SM 4500 Cl-G	AG90123	0.05	01-Jul-19 (PL)	<0.05 mg/l	
Fecal Coliforms	SM 9221E	AF93021	1.8	02-Jul-19 (PL)	<1.8 MPN/100 ml	
Total Coliforms	SM 9221B	AF93021	1.8	02-Jul-19 (PL)	<1.8 MPN/100 ml	

Notes and Definitions

Respectfully Submitted,



Steve Jefferson 7/2/2019
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.#: 19F0655

Customer: IPC, Inc.		**Project :** (MCC) Daily EFF	
Address: 9297 Research Drive		**Sampled by:** VICTOR ARTKIAN	**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	6/30/19	10:06	1	pH, T.Res.Chlorine	Grab	AQ	500 P	4°C	
	11	11	1	Total & Fecal Coliform	Grab	AQ	Coli	ST	

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

Signature	Print Name (Company)	Date	Time
Relinquished by	VICTOR ARTKIAN (IPC)	6/30/19	10:09
Received by	Jordan Corkery (Patchem)	6/30/19	11:35
Relinquished by			
Received by			
Relinquished by			
Received in lab by	Jordan Corkery (Patchem)	6/30/19	13:11

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

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

Pat-Chem Laboratories

11990 Discovery Court

Moorpark, CA 93021

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.: **1531**

Expiration Date: **5/31/2019**

Effective Date: **6/1/2017**

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

CALIFORNIA STATE
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Accredited Fields of Testing

Pat-Chem Laboratories

11990 Discovery Court
Moorpark, CA 93021
Phone: (805) 532-0012

Certificate No. 1531
Expiration Date 5/31/2019

Field of Testing: 101 - Microbiology of Drinking Water

101.010	001	Heterotrophic Bacteria	SM9215B
101.010	001	Heterotrophic Bacteria	SM9215B
101.010	002	Heterotrophic Bacteria	SimPlate
101.011	001	Heterotrophic Bacteria	SimPlate
101.020	001	Total Coliform P/A	SM9221B
101.020	002	Fecal Coliform P/A	SM 9221 B,E
101.020	003	E. coli P/A	SM 9221 B,F
101.050	001	Total Coliform P/A	SM9223B (Colilert)
101.050	001	Total Coliform P/A	SM9223B (Colilert)
101.050	002	E. coli P/A	SM9223B (Colilert)
101.050	002	E. coli P/A	SM9223B (Colilert)

Field of Testing: 102 - Inorganic Chemistry of Drinking Water

102.015	001	Hydrogen Ion (pH)	EPA 150.1
102.015	001	Hydrogen Ion (pH)	EPA 150.1
102.020	001	Turbidity	EPA 180.1
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	001	Bromide	EPA 300.0
102.030	002	Chlorate	EPA 300.0
102.030	002	Chlorate	EPA 300.0
102.030	003	Chloride	EPA 300.0
102.030	003	Chloride	EPA 300.0
102.030	004	Chlorite	EPA 300.0
102.030	004	Chlorite	EPA 300.0
102.030	005	Fluoride	EPA 300.0
102.030	005	Fluoride	EPA 300.0
102.030	006	Nitrate	EPA 300.0
102.030	006	Nitrate (as N)	EPA 300.0
102.030	007	Nitrite (as N)	EPA 300.0
102.030	007	Nitrite	EPA 300.0
102.030	008	Phosphate, Ortho (as P)	EPA 300.0
102.030	008	Phosphate, Ortho	EPA 300.0

As of 5/31/2017 , this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

102.030	009	Sulfate	EPA 300.0
102.030	010	Sulfate	EPA 300.0
102.045	001	Perchlorate	EPA 314.0
102.045	001	Perchlorate	EPA 314.0
102.060	001	Nitrate (as N) (Calculation)	EPA 353.2
102.060	001	Nitrate (as N) (Calculation)	EPA 353.2
102.061	001	Nitrite	EPA 353.2
102.061	001	Nitrite	EPA 353.2
102.070	001	Phosphate, Ortho	EPA 365.1
102.095	001	Turbidity	SM2130B-2001
102.095	001	Turbidity	SM2130B-2001
102.100	001	Alkalinity	SM2320B
102.100	001	Alkalinity	SM2320B-1997
102.120	001	Hardness (calculation)	SM2340B-1997
102.120	001	Hardness	SM2340B
102.121	001	Hardness	SM2340C
102.121	001	Hardness	SM2340C-1997
102.130	001	Conductivity	SM2510B-1997
102.130	001	Conductivity	SM2510B
102.140	001	Total Dissolved Solids	SM2540C
102.140	001	Residue, Filterable TDS	SM2540C-1997
102.147	001	Calcium	SM3120B-1999
102.147	002	Magnesium	SM3120B-1999
102.147	003	Potassium	SM3120B-1999
102.147	004	Silica	SM3120B-1999
102.147	006	Hardness (calculation)	SM3120B-1999
102.150	001	Chloride	SM4110B
102.150	002	Fluoride	SM4110B
102.150	003	Nitrate	SM4110B
102.150	004	Nitrite	SM4110B
102.150	005	Phosphate, Ortho	SM4110B
102.150	006	Sulfate	SM4110B
102.175	001	Chlorine, Free	SM4500-Cl G-2000
102.175	001	Chlorine, Free	SM4500-Cl G-2000
102.175	002	Chlorine, Total Residual	SM4500-Cl G-2000
102.175	002	Chlorine, Total Residual	SM4500-Cl G-2000
102.190	001	Cyanide, Total	SM4500-CN E
102.190	001	Cyanide, Total	SM4500-CN E
102.191	001	Cyanide, Total	SM4500-CN F
102.192	001	Cyanide, amenable	SM4500-CN G
102.200	001	Fluoride	SM4500-F C-1997
102.200	001	Fluoride	SM4500-F C
102.203	001	Hydrogen Ion (pH)	SM4500-H+ B-2000
102.203	001	Hydrogen Ion (pH)	SM4500-H+ B-2000
102.234	001	Nitrite (as N)	SM4500-NO3- F-2000
102.234	001	Nitrite	SM4500-NO3 F
102.234	002	Nitrate (as N)	SM4500-NO3- F-2000

102.234	002	Nitrate	SM4500-NO3 F
102.241	001	Phosphate, Ortho	SM4500-P F
102.260	001	Total Organic Carbon TOC	SM5310B-2000
102.260	001	Total Organic Carbon TOC	SM5310B
102.261	001	Dissolved Organic Carbon (DOC)	SM5310B-2000
102.261	001	Dissolved Organic Carbon (DOC)	SM5310B
102.270	001	Surfactants	SM5540C-2000
102.270	001	Surfactants	SM5540C
102.520	001	Calcium	EPA 200.7
102.520	002	Magnesium	EPA 200.7
102.520	003	Potassium	EPA 200.7
102.520	004	Silica	EPA 200.7
102.520	005	Sodium	EPA 200.7
102.520	006	Hardness (calculation)	EPA 200.7

Field of Testing: 103 - Toxic Chemical Elements of Drinking Water

103.030	001	Mercury	SM3112B
103.060	001	Aluminum	SM3120B
103.060	003	Barium	SM3120B
103.060	004	Beryllium	SM3120B
103.060	007	Chromium	SM3120B
103.060	008	Copper	SM3120B
103.060	009	Iron	SM3120B
103.060	011	Manganese	SM3120B
103.060	012	Nickel	SM3120B
103.060	015	Silver	SM3120B
103.060	017	Zinc	SM3120B
103.130	001	Aluminum	EPA 200.7
103.130	001	Aluminum	EPA 200.7
103.130	003	Barium	EPA 200.7
103.130	003	Barium	EPA 200.7
103.130	004	Beryllium	EPA 200.7
103.130	004	Beryllium	EPA 200.7
103.130	005	Cadmium	EPA 200.7
103.130	005	Cadmium	EPA 200.7
103.130	007	Chromium	EPA 200.7
103.130	007	Chromium	EPA 200.7
103.130	008	Copper	EPA 200.7
103.130	008	Copper	EPA 200.7
103.130	009	Iron	EPA 200.7
103.130	009	Iron	EPA 200.7
103.130	011	Manganese	EPA 200.7
103.130	011	Manganese	EPA 200.7
103.130	012	Nickel	EPA 200.7
103.130	012	Nickel	EPA 200.7
103.130	015	Silver	EPA 200.7
103.130	015	Silver	EPA 200.7
103.130	017	Zinc	EPA 200.7

103.130	017	Zinc	EPA 200.7
103.130	018	Boron	EPA 200.7
103.130	018	Boron	EPA 200.7
103.140	001	Aluminum	EPA 200.8
103.140	001	Aluminum	EPA 200.8
103.140	002	Antimony	EPA 200.8
103.140	002	Antimony	EPA 200.8
103.140	003	Arsenic	EPA 200.8
103.140	003	Arsenic	EPA 200.8
103.140	004	Barium	EPA 200.8
103.140	004	Barium	EPA 200.8
103.140	005	Beryllium	EPA 200.8
103.140	005	Beryllium	EPA 200.8
103.140	006	Cadmium	EPA 200.8
103.140	006	Cadmium	EPA 200.8
103.140	007	Chromium	EPA 200.8
103.140	007	Chromium	EPA 200.8
103.140	008	Copper	EPA 200.8
103.140	008	Copper	EPA 200.8
103.140	009	Lead	EPA 200.8
103.140	009	Lead	EPA 200.8
103.140	010	Manganese	EPA 200.8
103.140	010	Manganese	EPA 200.8
103.140	012	Nickel	EPA 200.8
103.140	012	Nickel	EPA 200.8
103.140	013	Selenium	EPA 200.8
103.140	013	Selenium	EPA 200.8
103.140	014	Silver	EPA 200.8
103.140	014	Silver	EPA 200.8
103.140	015	Thallium	EPA 200.8
103.140	015	Thallium	EPA 200.8
103.140	016	Zinc	EPA 200.8
103.140	016	Zinc	EPA 200.8
103.140	017	Boron	EPA 200.8
103.140	017	Boron	EPA 200.8
103.140	018	Vanadium	EPA 200.8
103.140	018	Vanadium	EPA 200.8
103.160	001	Mercury	EPA 245.1
103.160	001	Mercury	EPA 245.1
103.310	001	Chromium (VI)	EPA 218.6
103.310	001	Chromium (VI)	EPA 218.6

Field of Testing: 104 - Volatile Organic Chemistry of Drinking Water

104.030	001	1,2-Dibromoethane	EPA 504.1
104.030	001	1,2-Dibromoethane	EPA 504.1
104.030	002	1,2-Dibromo-3-chloropropane	EPA 504.1
104.030	002	1,2-Dibromo-3-chloropropane	EPA 504.1
104.030	003	1,2,3-Trichloropropane	EPA 504.1

104.030	003	1,2,3-Trichloropropane	EPA 504.1
104.035	001	1,2,3-Trichloropropane	SRL 524M-TCP
104.035	001	1,2,3-Trichloropropane	SRL 524M-TCP
104.040	000	Volatile Organic Compounds	EPA 524.2
104.040	000	Volatile Organic Compounds	EPA 524.2
104.040	001	Benzene	EPA 524.2
104.040	001	Benzene	EPA 524.2
104.040	007	n-Butylbenzene	EPA 524.2
104.040	007	n-Butylbenzene	EPA 524.2
104.040	008	sec-Butylbenzene	EPA 524.2
104.040	008	sec-Butylbenzene	EPA 524.2
104.040	009	tert-Butylbenzene	EPA 524.2
104.040	009	tert-Butylbenzene	EPA 524.2
104.040	010	Carbon Tetrachloride	EPA 524.2
104.040	010	Carbon Tetrachloride	EPA 524.2
104.040	011	Chlorobenzene	EPA 524.2
104.040	011	Chlorobenzene	EPA 524.2
104.040	015	2-Chlorotoluene	EPA 524.2
104.040	015	2-Chlorotoluene	EPA 524.2
104.040	016	4-Chlorotoluene	EPA 524.2
104.040	016	4-Chlorotoluene	EPA 524.2
104.040	019	1,3-Dichlorobenzene	EPA 524.2
104.040	019	1,3-Dichlorobenzene	EPA 524.2
104.040	020	1,2-Dichlorobenzene	EPA 524.2
104.040	020	1,2-Dichlorobenzene	EPA 524.2
104.040	021	1,4-Dichlorobenzene	EPA 524.2
104.040	021	1,4-Dichlorobenzene	EPA 524.2
104.040	022	Dichlorodifluoromethane	EPA 524.2
104.040	022	Dichlorodifluoromethane	EPA 524.2
104.040	023	1,1-Dichloroethane	EPA 524.2
104.040	023	1,1-Dichloroethane	EPA 524.2
104.040	024	1,2-Dichloroethane	EPA 524.2
104.040	024	1,2-Dichloroethane	EPA 524.2
104.040	025	1,1-Dichloroethene	EPA 524.2
104.040	025	1,1-Dichloroethene	EPA 524.2
104.040	026	cis-1,2-Dichloroethene	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	027	trans-1,2-Dichloroethene	EPA 524.2
104.040	028	Dichloromethane	EPA 524.2
104.040	028	Dichloromethane	EPA 524.2
104.040	029	1,2-Dichloropropane	EPA 524.2
104.040	029	1,2-Dichloropropane	EPA 524.2
104.040	033	cis-1,3-Dichloropropene	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	034	trans-1,3-Dichloropropene	EPA 524.2

104.040	035	Ethylbenzene	EPA 524.2
104.040	035	Ethylbenzene	EPA 524.2
104.040	037	Isopropylbenzene	EPA 524.2
104.040	037	Isopropylbenzene	EPA 524.2
104.040	039	Naphthalene	EPA 524.2
104.040	039	Naphthalene	EPA 524.2
104.040	041	N-propylbenzene	EPA 524.2
104.040	041	N-propylbenzene	EPA 524.2
104.040	042	Styrene	EPA 524.2
104.040	042	Styrene	EPA 524.2
104.040	043	1,1,1,2-Tetrachloroethane	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	044	1,1,2,2-Tetrachloroethane	EPA 524.2
104.040	045	Tetrachloroethene	EPA 524.2
104.040	045	Tetrachloroethene	EPA 524.2
104.040	046	Toluene	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	048	1,2,4-Trichlorobenzene	EPA 524.2
104.040	049	1,1,1-Trichloroethane	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	050	1,1,2-Trichloroethane	EPA 524.2
104.040	051	Trichloroethene	EPA 524.2
104.040	051	Trichloroethene	EPA 524.2
104.040	052	Trichlorofluoromethane	EPA 524.2
104.040	052	Trichlorofluoromethane	EPA 524.2
104.040	054	1,2,4-Trimethylbenzene	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	055	1,3,5-Trimethylbenzene	EPA 524.2
104.040	056	Vinyl Chloride	EPA 524.2
104.040	056	Vinyl Chloride	EPA 524.2
104.040	057	Xylenes, Total	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	001	Bromodichloromethane	EPA 524.2
104.045	002	Bromoform	EPA 524.2
104.045	002	Bromoform	EPA 524.2
104.045	003	Chloroform	EPA 524.2
104.045	003	Chloroform	EPA 524.2
104.045	004	Dibromochloromethane	EPA 524.2
104.045	004	Dibromochloromethane	EPA 524.2
104.045	005	Trihalomethanes	EPA 524.2

104.050	000	Gasoline Additives	EPA 524.2
104.050	000	Gasoline Additives	EPA 524.2
104.050	002	Methyl tert-butyl Ether (MTBE)	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	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	005	Ethyl tert-butyl Ether (ETBE)	EPA 524.2
104.050	006	Trichlorotrifluoroethane	EPA 524.2
104.050	006	tert-Butyl Alcohol (TBA)	EPA 524.2
104.050	007	tert-Butyl Alcohol (TBA)	EPA 524.2
104.050	008	Carbon Disulfide	EPA 524.2
104.050	009	Methyl Isobutyl Ketone	EPA 524.2

Field of Testing: 105 - Semi-volatile Organic Chemistry of Drinking Water

105.020	000	Adipates	EPA 506
105.020	000	Phthalates	EPA 506
105.020	001	Di(2-ethylhexyl) Adipate	EPA 506
105.020	001	Di(2-ethylhexyl) Adipate	EPA 506
105.020	002	Di(2-ethylhexyl) Phthalate	EPA 506
105.020	002	Di(2-ethylhexyl) Phthalate	EPA 506
105.020	010	Phthalates	EPA 506
105.030	000	N-, P- Pesticides	EPA 507
105.030	000	N-, P- Pesticides	EPA 507
105.030	001	Alachlor	EPA 507
105.030	001	Alachlor	EPA 507
105.030	002	Atrazine	EPA 507
105.030	002	Atrazine	EPA 507
105.030	003	Butachlor	EPA 507
105.030	003	Butachlor	EPA 507
105.030	005	Metolachlor	EPA 507
105.030	005	Metolachlor	EPA 507
105.030	006	Metribuzin	EPA 507
105.030	006	Metribuzin	EPA 507
105.030	007	Molinate	EPA 507
105.030	007	Molinate	EPA 507
105.030	008	Prometryn	EPA 507
105.030	008	Prometryn	EPA 507
105.030	009	Simazine	EPA 507
105.030	009	Simazine	EPA 507
105.035	000	Organochlorine Pesticides	EPA 508
105.035	001	Aldrin	EPA 508
105.035	001	Aldrin	EPA 508
105.035	002	Dieldrin	EPA 508
105.035	003	Endosulfan I	EPA 508
105.035	003	Endosulfan I	EPA 508
105.035	004	Endosulfan II	EPA 508

105.035	004	Endosulfan II	EPA 508
105.035	005	Endosulfan Sulfate	EPA 508
105.035	005	Endosulfan Sulfate	EPA 508
105.035	006	Endrin	EPA 508
105.035	007	Endrin Aldehyde	EPA 508
105.035	007	Endrin Aldehyde	EPA 508
105.035	008	Heptachlor	EPA 508
105.035	009	Heptachlor Epoxide	EPA 508
105.035	010	Hexachlorobenzene	EPA 508
105.035	011	Lindane	EPA 508
105.035	012	Methoxychlor	EPA 508
105.035	013	Propachlor	EPA 508
105.035	013	Propachlor	EPA 508
105.035	014	Chlordane	EPA 508
105.035	015	Toxaphene	EPA 508
105.035	018	Aroclor 1221	EPA 508
105.035	019	Aroclor 1232	EPA 508
105.035	020	Arochlor 1242	EPA 508
105.035	020	Arochlor 1242	EPA 508
105.035	021	Aroclor 1248	EPA 508
105.035	022	Aroclor 1254	EPA 508
105.035	022	Aroclor 1254	EPA 508
105.035	023	Aroclor 1260	EPA 508
105.040	000	Chlorinated Pesticides	EPA 508
105.040	003	Chlordane (total)	EPA 508
105.040	007	Endrin	EPA 508
105.040	008	Heptachlor	EPA 508
105.040	009	Heptachlor Epoxide	EPA 508
105.040	010	Hexachlorobenzene	EPA 508
105.040	012	Lindane	EPA 508
105.040	013	Methoxychlor	EPA 508
105.040	015	Toxaphene	EPA 508
105.040	016	PCBs as Aroclors (screen)	EPA 508
105.070	001	Bentazon	EPA 515.1
105.070	001	Bentazon	EPA 515.1
105.070	002	2,4-D	EPA 515.1
105.070	002	2,4-D	EPA 515.1
105.070	003	Dalapon	EPA 515.1
105.070	004	Dicamba	EPA 515.1
105.070	004	Dicamba	EPA 515.1
105.070	005	Dinoseb	EPA 515.1
105.070	005	Dinoseb	EPA 515.1
105.070	006	Pentachlorophenol	EPA 515.1
105.070	006	Pentachlorophenol	EPA 515.1
105.070	007	Picloram	EPA 515.1
105.070	007	Picloram	EPA 515.1
105.070	008	2,4,5-TP	EPA 515.1

105.070	008	2,4,5-TP	EPA 515.1
105.070	009	Chlorinated Acids	EPA 515.1
105.160	000	Polynuclear Aromatic Hydrocarbons	EPA 550
105.160	000	Polynuclear Aromatic Hydrocarbons	EPA 550
105.160	001	Benzo(a)pyrene	EPA 550
105.160	001	Benzo(a)pyrene	EPA 550
105.200	001	Bromoacetic Acid	EPA 552.2
105.200	001	Bromoacetic Acid	EPA 552.2
105.200	003	Chloroacetic Acid	EPA 552.2
105.200	003	Chloroacetic Acid	EPA 552.2
105.200	004	Dalapon	EPA 552.2
105.200	005	Dibromoacetic Acid	EPA 552.2
105.200	005	Dibromoacetic Acid	EPA 552.2
105.200	006	Dichloroacetic Acid	EPA 552.2
105.200	006	Dichloroacetic Acid	EPA 552.2
105.200	007	Trichloroacetic Acid	EPA 552.2
105.200	007	Trichloroacetic Acid	EPA 552.2
105.200	008	Haloacetic Acids (HAA5)	EPA 552.2
105.200	008	Haloacetic Acids (HAA5)	EPA 552.2

Field of Testing: 107 - Microbiology of Wastewater

107.010	001	Heterotrophic Bacteria	SM9215B
107.020	002	Total Coliform (Enumeration)	SM9221B,E-2006
107.020	002	Total Coliform (Enumeration)	SM9221B-2006
107.030	002	Total Coliform with Chlorine Present	SM9221B,C-2006
107.030	002	Total Coliform with Chlorine Present	SM9221B,C-2006
107.040	002	Fecal Coliform (Enumeration)	SM9221C,E-2006
107.040	002	Fecal Coliform (Enumeration)	SM9221C,E-2006
107.050	002	Fecal Coliform with Chlorine Present	SM9221C,E-2006
107.050	002	Fecal Coliform with Chlorine Present	SM9221C,E-2006
107.242	001	Enterococci	Enterolert
107.242	001	Enterococci	Enterolert
107.245	002	E. coli (Enumeration)	SM9223B (Colilert)
107.245	002	E. coli (Enumeration)	SM9223B (Colilert)
107.247	001	E. coli (Enumeration)	SM9221B,F-2006
107.247	001	E. coli (Enumeration)	SM9221B,F-2006

Field of Testing: 108 - Inorganic Chemistry of Wastewater

108.020	001	Conductivity	EPA 120.1
108.020	001	Conductivity	EPA 120.1
108.030	001	Hardness	EPA 130.1
108.051	001	Hydrogen Ion (pH)	EPA 150.1
108.090	001	Residue, Volatile	EPA 160.4
108.090	001	Residue, Volatile	EPA 160.4
108.110	001	Turbidity	EPA 180.1
108.110	001	Turbidity	EPA 180.1
108.112	001	Boron	EPA 200.7
108.112	001	Boron	EPA 200.7

108.112	002	Calcium	EPA 200.7
108.112	002	Calcium	EPA 200.7
108.112	003	Hardness (calculation)	EPA 200.7
108.112	003	Hardness (calculation)	EPA 200.7
108.112	004	Magnesium	EPA 200.7
108.112	004	Magnesium	EPA 200.7
108.112	005	Potassium	EPA 200.7
108.112	005	Potassium	EPA 200.7
108.112	006	Silica	EPA 200.7
108.112	006	Silica, Dissolved	EPA 200.7
108.112	007	Sodium	EPA 200.7
108.112	007	Sodium	EPA 200.7
108.113	001	Boron	EPA 200.8
108.113	001	Boron	EPA 200.8
108.113	002	Calcium	EPA 200.8
108.113	002	Calcium	EPA 200.8
108.113	003	Magnesium	EPA 200.8
108.113	003	Magnesium	EPA 200.8
108.113	004	Potassium	EPA 200.8
108.113	004	Potassium	EPA 200.8
108.113	005	Silica, Dissolved	EPA 200.8
108.113	006	Sodium	EPA 200.8
108.113	006	Sodium	EPA 200.8
108.120	001	Bromide	EPA 300.0
108.120	001	Bromide	EPA 300.0
108.120	002	Chloride	EPA 300.0
108.120	002	Chloride	EPA 300.0
108.120	003	Fluoride	EPA 300.0
108.120	003	Fluoride	EPA 300.0
108.120	008	Sulfate	EPA 300.0
108.120	008	Sulfate	EPA 300.0
108.120	012	Nitrate (as N)	EPA 300.0
108.120	012	Nitrate (as N)	EPA 300.0
108.120	013	Nitrate-Nitrite (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	014	Nitrite (as N)	EPA 300.0
108.120	015	Phosphate, Ortho (as P)	EPA 300.0
108.120	015	Phosphate, Ortho (as P)	EPA 300.0
108.209	001	Ammonia (as N)	EPA 350.1
108.209	001	Ammonia (as N)	EPA 350.1
108.210	002	Kjeldahl Nitrogen, Total (as N)	EPA 351.1
108.211	002	Kjeldahl Nitrogen, Total (as N)	EPA 351.2
108.211	002	Kjeldahl Nitrogen, Total (as N)	EPA 351.2
108.232	003	Nitrate-Nitrite (as N)	EPA 353.2
108.232	003	Nitrate-Nitrite (as N)	EPA 353.2
108.232	004	Nitrite (as N)	EPA 353.2

108.232	004	Nitrite (as N)	EPA 353.2
108.260	001	Phosphate, Ortho	EPA 365.1
108.260	001	Phosphate, Ortho	EPA 365.1
108.261	001	Phosphorus, Total	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
108.266	001	Phosphorus, Total	EPA 365.4
108.323	001	Chemical Oxygen Demand	EPA 410.4
108.323	001	Chemical Oxygen Demand	EPA 410.4
108.360	001	Phenols, Total	EPA 420.1
108.360	001	Phenols, Total	EPA 420.1
108.381	001	Oil and Grease	EPA 1664A
108.381	001	Oil and Grease	EPA 1664A
108.390	001	Turbidity	SM2130B-2001
108.390	001	Turbidity	SM2130B-2001
108.400	001	Acidity	SM2310B-1997
108.410	001	Alkalinity	SM2320B-1997
108.410	001	Alkalinity	SM2320B-1997
108.420	001	Hardness (calculation)	SM2340B-1997
108.420	001	Hardness (calculation)	SM2340B-1997
108.421	001	Hardness	SM2340C-1997
108.421	001	Hardness	SM2340C-1997
108.430	001	Conductivity	SM2510B-1997
108.430	001	Conductivity	SM2510B-1997
108.438	001	Boron	SM3125B-2009
108.438	002	Calcium	SM3125B-2009
108.438	003	Magnesium	SM3125B-2009
108.438	004	Potassium	SM3125B-2009
108.438	006	Sodium	SM3125B-2009
108.438	007	Hardness (calculation)	SM3125B-2009
108.439	001	Residue, Volatile	SM2540E-1997
108.439	001	Residue, Volatile	SM2540E-1997
108.440	001	Residue, Total	SM2540B-1997
108.440	001	Residue, Total	SM2540B-1997
108.441	001	Residue, Filterable TDS	SM2540C-1997
108.441	001	Residue, Filterable TDS	SM2540C-1997
108.442	001	Residue, Non-filterable TSS	SM2540D-1997
108.442	001	Residue, Non-filterable TSS	SM2540D-1997
108.443	001	Residue, Settleable	SM2540F-1997
108.443	001	Residue, Settleable	SM2540F-1997
108.444	001	Temperature	SM2550B-2000
108.444	001	Temperature	SM2550B-2000
108.447	001	Boron	SM3120B-1999
108.447	002	Calcium	SM3120B-1999
108.447	003	Hardness (calculation)	SM3120B-1999
108.447	004	Magnesium	SM3120B-1999

108.447	005	Potassium	SM3120B-1999
108.447	006	Silica	SM3120B-1999
108.447	007	Sodium	SM3120B-1999
108.448	001	Bromide	SM4110B-2000
108.448	002	Chloride	SM4110B-2000
108.448	003	Fluoride	SM4110B-2000
108.448	004	Nitrate (as N)	SM4110B-2000
108.448	005	Nitrite (as N)	SM4110B-2000
108.448	006	Nitrate-nitrite	SM4110B-2000
108.448	007	Phosphate, Ortho	SM4110B-2000
108.448	008	Sulfate	SM4110B-2000
108.465	001	Chlorine, Total Residual	SM4500-Cl G-2000
108.465	001	Chlorine, Total	SM4500-Cl G-2000
108.465	002	Chlorine, Free	SM4500-Cl G-2000
108.465	002	Chlorine, Free	SM4500-Cl G-2000
108.472	001	Cyanide, Total	SM4500-CN E-1999
108.472	001	Cyanide, Total	SM4500-CN C,E-1999
108.473	001	Cyanide, amenable	SM4500-CN G-1999
108.473	001	Cyanide, amenable	SM4500-CN G-1999
108.474	001	Cyanide, Total	SM4500-CN F-1999
108.480	001	Fluoride	SM4500-F B,C-1997
108.480	001	Fluoride	SM4500-F B,C-1997
108.490	001	Hydrogen Ion (pH)	SM4500-H+ B-2000
108.490	001	Hydrogen Ion (pH)	SM4500-H+ B-2000
108.506	002	Ammonia (as N)	SM4500-NH3 G-1997
108.508	002	Ammonia (as N)	SM4500-NH3 G-1997
108.513	001	Kjeldahl Nitrogen, Total (as N)	SM4500-Norg D-1997
108.529	001	Nitrate-Nitrite (as N)	SM4500-NO3- F-2000
108.529	001	Nitrate-Nitrite (as N)	SM4500-NO3- F-2000
108.529	002	Nitrite (as N)	SM4500-NO3- F-2000
108.529	002	Nitrite (as N)	SM4500-NO3- F-2000
108.529	003	Nitrate (as N)	SM4500-NO3- F-2000
108.529	003	Nitrate (as N)	SM4500-NO3- F-2000
108.536	001	Oxygen, dissolved	SM4500-O G-2001
108.542	001	Phosphate, Ortho	SM4500-P F
108.544	001	Phosphate, Ortho (as P)	SM4500-P G-1999
108.545	001	Phosphorus, Total	SM4500-P H-1999
108.584	001	Sulfide (as S)	SM4500-S= D-2000
108.584	001	Sulfide (as S)	SM4500-S= D-2000
108.592	001	Biochemical Oxygen Demand	SM5210B-2001
108.592	001	Biochemical Oxygen Demand	SM5210B-2001
108.592	002	Carbonaceous BOD	SM5210B-2001
108.592	002	Carbonaceous BOD	SM5210B-2001
108.595	001	Chemical Oxygen Demand	SM5220D-1997
108.595	001	Chemical Oxygen Demand	SM5220D-1997
108.596	001	Organic Carbon-Total (TOC)	SM5310B-2000
108.603	001	Oil & Grease Total	SM5520B-2001

108.605	001	Surfactants	SM5540C-2000
108.605	001	Surfactants	SM5540C-2000
108.625	001	Phenols, Total	SM5530 B-2005
108.626	001	Phenols, Total	SM5530 D-2005
108.626	001	Phenols, Total	SM5530 D-2005

Field of Testing: 109 - Toxic Chemical Elements of Wastewater

109.010	001	Aluminum	EPA 200.7
109.010	001	Aluminum	EPA 200.7
109.010	002	Antimony	EPA 200.7
109.010	002	Antimony	EPA 200.7
109.010	003	Arsenic	EPA 200.7
109.010	003	Arsenic	EPA 200.7
109.010	004	Barium	EPA 200.7
109.010	004	Barium	EPA 200.7
109.010	005	Beryllium	EPA 200.7
109.010	005	Beryllium	EPA 200.7
109.010	006	Boron	EPA 200.7
109.010	006	Boron	EPA 200.7
109.010	007	Cadmium	EPA 200.7
109.010	007	Cadmium	EPA 200.7
109.010	009	Chromium	EPA 200.7
109.010	009	Chromium	EPA 200.7
109.010	010	Cobalt	EPA 200.7
109.010	010	Cobalt	EPA 200.7
109.010	011	Copper	EPA 200.7
109.010	011	Copper	EPA 200.7
109.010	012	Iron	EPA 200.7
109.010	012	Iron	EPA 200.7
109.010	013	Lead	EPA 200.7
109.010	013	Lead	EPA 200.7
109.010	015	Manganese	EPA 200.7
109.010	015	Manganese	EPA 200.7
109.010	016	Molybdenum	EPA 200.7
109.010	016	Molybdenum	EPA 200.7
109.010	017	Nickel	EPA 200.7
109.010	017	Nickel	EPA 200.7
109.010	019	Selenium	EPA 200.7
109.010	019	Selenium	EPA 200.7
109.010	021	Silver	EPA 200.7
109.010	021	Silver	EPA 200.7
109.010	023	Thallium	EPA 200.7
109.010	023	Thallium	EPA 200.7
109.010	024	Tin	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	026	Vanadium	EPA 200.7

109.010	027	Zinc	EPA 200.7
109.010	027	Zinc	EPA 200.7
109.020	001	Aluminum	EPA 200.8
109.020	001	Aluminum	EPA 200.8
109.020	002	Antimony	EPA 200.8
109.020	002	Antimony	EPA 200.8
109.020	003	Arsenic	EPA 200.8
109.020	003	Arsenic	EPA 200.8
109.020	004	Barium	EPA 200.8
109.020	004	Barium	EPA 200.8
109.020	005	Beryllium	EPA 200.8
109.020	005	Beryllium	EPA 200.8
109.020	006	Cadmium	EPA 200.8
109.020	006	Cadmium	EPA 200.8
109.020	007	Chromium	EPA 200.8
109.020	007	Chromium	EPA 200.8
109.020	008	Cobalt	EPA 200.8
109.020	008	Cobalt	EPA 200.8
109.020	009	Copper	EPA 200.8
109.020	009	Copper	EPA 200.8
109.020	010	Lead	EPA 200.8
109.020	010	Lead	EPA 200.8
109.020	011	Manganese	EPA 200.8
109.020	011	Manganese	EPA 200.8
109.020	012	Molybdenum	EPA 200.8
109.020	012	Molybdenum	EPA 200.8
109.020	013	Nickel	EPA 200.8
109.020	013	Nickel	EPA 200.8
109.020	014	Selenium	EPA 200.8
109.020	014	Selenium	EPA 200.8
109.020	015	Silver	EPA 200.8
109.020	015	Silver	EPA 200.8
109.020	016	Thallium	EPA 200.8
109.020	016	Thallium	EPA 200.8
109.020	017	Vanadium	EPA 200.8
109.020	017	Vanadium	EPA 200.8
109.020	018	Zinc	EPA 200.8
109.020	018	Zinc	EPA 200.8
109.020	020	Gold	EPA 200.8
109.020	021	Iron	EPA 200.8
109.020	021	Iron	EPA 200.8
109.020	022	Tin	EPA 200.8
109.020	023	Titanium	EPA 200.8
109.020	023	Titanium	EPA 200.8
109.104	001	Chromium (VI)	EPA 218.6
109.104	001	Chromium (VI)	EPA 218.6
109.190	001	Mercury	EPA 245.1

109.190	001	Mercury	EPA 245.1
109.430	001	Aluminum	SM3120B-1999
109.430	002	Antimony	SM3120B-1999
109.430	003	Arsenic	SM3120B-1999
109.430	004	Barium	SM3120B-1999
109.430	005	Beryllium	SM3120B-1999
109.430	007	Cadmium	SM3120B-1999
109.430	009	Chromium	SM3120B-1999
109.430	010	Cobalt	SM3120B-1999
109.430	012	Iron	SM3120B-1999
109.430	015	Manganese	SM3120B-1999
109.430	016	Molybdenum	SM3120B-1999
109.430	017	Nickel	SM3120B-1999
109.430	019	Selenium	SM3120B-1999
109.430	021	Silver	SM3120B-1999
109.430	023	Thallium	SM3120B-1999
109.430	024	Vanadium	SM3120B-1999
109.430	025	Zinc	SM3120B-1999
109.445	002	Chromium (VI)	SM3500-Cr B-2009
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
110.040	000	Purgeable Organic Compounds	EPA 624

Field of Testing: 111 - Semi-volatile Organic Chemistry of Wastewater

111.010	000	Phenols	EPA 604
111.010	000	Phenols	EPA 604
111.060	000	Polynuclear Aromatics	EPA 610
111.060	000	Polynuclear Aromatics	EPA 610
111.100	000	Base/Neutral & Acid Organics	EPA 625
111.100	000	Base/Neutral & Acid Organics	EPA 625
111.103	000	Nitrosamines	EPA 625
111.103	000	Nitrosamines	EPA 625
111.170	000	Organochlorine Pesticides and PCBs	EPA 608
111.170	000	Organochlorine Pesticides and PCBs	EPA 608

Field of Testing: 114 - Inorganic Chemistry of Hazardous Waste

114.010	001	Antimony	EPA 6010B
114.010	001	Antimony	EPA 6010B
114.010	002	Arsenic	EPA 6010B
114.010	002	Arsenic	EPA 6010B
114.010	003	Barium	EPA 6010B
114.010	003	Barium	EPA 6010B
114.010	004	Beryllium	EPA 6010B
114.010	004	Beryllium	EPA 6010B
114.010	005	Cadmium	EPA 6010B
114.010	005	Cadmium	EPA 6010B
114.010	006	Chromium	EPA 6010B

114.010	006	Chromium	EPA 6010B
114.010	007	Cobalt	EPA 6010B
114.010	007	Cobalt	EPA 6010B
114.010	008	Copper	EPA 6010B
114.010	008	Copper	EPA 6010B
114.010	009	Lead	EPA 6010B
114.010	009	Lead	EPA 6010B
114.010	010	Molybdenum	EPA 6010B
114.010	010	Molybdenum	EPA 6010B
114.010	011	Nickel	EPA 6010B
114.010	011	Nickel	EPA 6010B
114.010	012	Selenium	EPA 6010B
114.010	012	Selenium	EPA 6010B
114.010	013	Silver	EPA 6010B
114.010	013	Silver	EPA 6010B
114.010	014	Thallium	EPA 6010B
114.010	014	Thallium	EPA 6010B
114.010	015	Vanadium	EPA 6010B
114.010	015	Vanadium	EPA 6010B
114.010	016	Zinc	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
114.103	001	Chromium (VI)	EPA 7196A
114.103	001	Chromium (VI)	EPA 7196A
114.106	001	Chromium (VI)	EPA 7199
114.106	001	Chromium (VI)	EPA 7199
114.140	001	Mercury	EPA 7470A
114.140	001	Mercury	EPA 7470A
114.141	001	Mercury	EPA 7471A
114.141	001	Mercury	EPA 7471A
114.240	001	Corrosivity - pH Determination	EPA 9040B
114.241	001	Corrosivity - pH Determination	EPA 9045C

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
115.021	001	TCLP Inorganics	EPA 1311
115.022	001	TCLP Extractables	EPA 1311
115.023	001	TCLP Volatiles	EPA 1311
115.030	001	Waste Extraction Test (WET)	CCR Chapter11, Article 5, Appendix II
115.030	001	Waste Extraction Test (WET)	CCR Chapter11, Article 5, Appendix II

Field of Testing: 116 - Volatile Organic Chemistry of Hazardous Waste

116.020	031	Ethanol and Methanol	EPA 8015B
116.030	001	Gasoline-range Organics	EPA 8015B
116.030	001	Gasoline-range Organics	EPA 8015B
116.080	000	Volatile Organic Compounds	EPA 8260B
116.080	000	Volatile Organic Compounds	EPA 8260B
116.080	120	Oxygenates	EPA 8260B
116.080	120	Oxygenates	EPA 8260B

Field of Testing: 117 - Semi-volatile Organic Chemistry of Hazardous Waste

117.010	001	Diesel-range Total Petroleum Hydrocarbons	EPA 8015B
117.010	001	Diesel-range Total Petroleum Hydrocarbons	EPA 8015B
117.110	000	Extractable Organics	EPA 8270C
117.110	000	Extractable Organics	EPA 8270C
117.140	000	Polynuclear Aromatic Hydrocarbons	EPA 8310
117.140	000	Polynuclear Aromatic Hydrocarbons	EPA 8310
117.210	000	Organochlorine Pesticides	EPA 8081A
117.210	000	Pesticides & PCBs	EPA 8081A
117.220	000	PCBs	EPA 8082
117.220	000	PCBs	EPA 8082
117.240	000	Organophosphorus Pesticides	EPA 8141A
117.240	000	Organophosphorus Pesticides	EPA 8141A
117.250	000	Chlorinated Herbicides	EPA 8151A
117.250	000	Chlorinated Herbicides	EPA 8151A
117.280	000	Carbamates	EPA 8321A

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
120.070	001	Corrosivity - pH Determination	EPA 9040B
120.080	001	Corrosivity - pH Determination	EPA 9045C
120.080	001	Corrosivity - pH Determination	EPA 9045C

Field of Testing: 126 - Microbiology of Recreational Water

126.010	001	Total Coliform (Enumeration)	SM9221B,C-2006
126.010	001	Total Coliform (Enumeration)	SM9221B,C
126.030	001	Fecal Coliform (Enumeration)	SM9221E-2006
126.030	001	Fecal Coliform (Enumeration)	SM9221B,E-2006
126.050	001	Total Coliform (Enumeration)	SM9223B (Colilert/Quanti-Tray)

126.050	001	Total Coliform (Enumeration)	SM9223B (Colilert/Quanti-Tray)
126.050	002	E. coli (Enumeration)	SM9223B (Colilert/Quanti-Tray)
126.050	002	E. coli (Enumeration)	SM9223B (Colilert/Quanti-Tray)
126.080	001	Enterococci	Enterolert
126.080	001	Enterococci	Enterolert