

CITY OF LOMITA



Cypress Water Production Facility Monthly Status Report

May 2017

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CITY COUNCIL

MARK WARONEK
MICHAEL G. SAVIDAN
JIM GAZELEY
HENRY SANCHEZ, JR
BEN TRAINA



CITY OF LOMITA

ADMINISTRATION

RYAN SMOOT
CITY MANAGER

June 12, 2017

Mr. Paul Williams, P.E.
District Engineer – Hollywood District
State Water Resources Control Board – Division of Drinking Water
500 North Central Avenue, Suite 500
Glendale, CA 91203

Subject: System No. 1910073 - Monthly Report for the Cypress Water Production Facility (CWPF) for the period of May 1 through May 31, 2017.

Dear Mr. Williams,

In accordance with the Department of Public Health temporary approval letter dated March 15, 2013 and Permit Amendment No. 1910073, I am submitting the following report for the Cypress Water Production Facility operations for the month of May 2017.

If you should have any questions or concerns, please contact me at 310-325-7110 Ext. 124.

Sincerely,

Mark Andersen
for

Mark A. McAvoy, P.E.
Public Works Director/City Engineer

A. BACKGROUND

On March 15, 2013, the City of Lomita received conditional approval from the Department of Public Health (DPH) to distribute blended water from the Cypress Water Production Facility (CWPF) Well No. 5 to the City's customers.

The CWPF is an iron-manganese greensand filtration treatment system designed to remove primarily iron, manganese, and color. The CWPF was recently modified to enable aeration and blending with Metropolitan Water District (MWD) imported water to address the aesthetic secondary issues of Total Dissolved Solids (TDS), Hardness (as Calcium Carbonate), and Taste/Odor.

The CWPF came online on April 1, 2013. The first week of operations from April 1 to April 5, 2013 was utilized for conducting routine startup activities. The distribution of blended water to the City's residents began on April 5, 2013.

B. WELL PRODUCTION

The CWPF operated continuously during the month of May 2017 maintaining water levels inside the reservoir ranging from 7 feet to 10 feet. The average flow from Well No. 5 was 499 gpm and 501 gpm from MWD. The blend ratio for month was 50% Well water and 50% MWD water. See Table 1 below for production totals for the month of May 2017.

Table 1. Monthly Production Totals.

Production for May 2017			
Well No. 5	64.28	ac-ft	(20,942,773 gallons)
MWD	64.05	ac-ft	(20,870,000 gallons)
Combined Total	128.32	ac-ft	(41,811,351 gallons)
Daily	4.14	ac-ft/day	(1,348,753 gallons/day)

C. OPERATIONAL INTERRUPTIONS

There were no operational interruptions during the month of May 2017. Routine and preventive maintenance was performed on various pieces of equipment as-needed. No major planned operational interruptions are anticipated for the following month.

D. SAMPLE LOCATIONS

Compliance monitoring is performed at the following sample locations: SP1, SP2, SP3, SP5, and SP6. The SP1 sample location is the raw well water sample location. The SP2 sample location is on the effluent side of the greensand filter (before ammonia injection or full chloramination). The SP3 sample location is downstream of the greensand filter after full chloramination and the static mixer before entering the reservoir. The SP5 sample location is the reservoir effluent sample location before entering the distribution system. The SP6 sample location is the MWD source sample location before blending occurs.

E. WATER QUALITY MONITORING

All water quality monitoring analyses were performed by laboratories certified by the Department of Health's Environmental Laboratory Accreditation Branch (ELAB). The CWPF has been continuously monitored, maintained and inspected, per the CWPF Operations Monitoring and Maintenance Plan. A brief discussion of the laboratory and/or monitoring results is provided below. Refer to Appendix A for laboratory results.

E1. IRON, MANGANESE AND COLOR

See Table 2 below for a summary of the results for the compliance monitoring at the three sample locations SP1 through SP3. Color for raw water (SP1) was below the MCL. Iron and Manganese in the raw water (SP1) for the month were below and above the MCL, respectively. Iron and Manganese levels before entering the reservoir (SP3) show non-detect, indicating the greensand filtration system remains highly effective.

E2. FREE AND TOTAL CHLORINE RESIDUALS

Daily free chlorine residuals were monitored at SP2, SP3, SP4 and SP5. Daily total chlorine residuals were monitored at SP3, SP4 and SP5. Free chlorine and total chlorine residuals, at all respective sample points, were monitored using a combination of continuous chlorine analyzers and SCADA. See Table 3 below for a weekly summary of results.

E3. TOTAL DISSOLVED SOLIDS (TDS), ODOR, HARDNESS AND METHANE

See Table 4 below for a summary of the results for the monitoring of Total Dissolved Solids (TDS), Odor (as measured by the Threshold Odor No. - T.O.N.), Total Hardness as Calcium Carbonate, and Methane levels in water at three sample locations SP1, SP5 and SP6.

E3-1 TOTAL DISSOLVED SOLIDS (TDS)

The sampling results indicate the TDS levels of the effluent blended water to be on average 552 mg/L. The TDS level of the effluent water meets the City's Water Quality Objective/Goal of 500 to 750 mg/L. The sampling results indicate the TDS levels in the raw water and MWD water source to be 750 mg/L and 290 mg/L, respectively.

E3-2 HARDNESS

The sampling results for the month indicate the hardness levels of the blended water to be on average 230 mg/L. This hardness level is within the City's Water Quality Objective/Goal of 180 to 250 mg/L; staff continues to monitor hardness levels at the CWPF effluent (SP5) and within the water distribution system. The City has maintained a consistent blend ratio to ensure acceptable hardness levels are met.

Staff continues to use an orthophosphate/polyphosphate additive to sequester calcium hardness. Orthophosphate/Polyphosphate is a food grade National Sanitation Foundation (NSF 60) approved additive which decreases iron tuberculation, diminishes calcium scale deposits, minimizes corrosion, reduces discoloration, reduces staining and mineral build-up resulting in fewer customer complaints.

E3-3 DISSOLVED METHANE (IN WATER)

The methane levels in the CWPF effluent after aeration treatment remain negligible averaging 0.44 mg/L.

E3-4 METHANE (IN AIR)

The methane levels in the reservoir headspace are monitored daily by staff using a handheld device. These readings have consistently read non-detect to low concentrations for methane in air. Available methane hand held monitoring instruments can only detect levels of 1% Lower Explosive Limit (LEL) or greater. The handheld methane readings during the month were below the 50,000 ppm LEL. See attached methane log for the month of May 2017 in Appendix B.

E3-5 ODOR

The odor levels at the CWPF effluent averaged 1.8 units for the month.

E4. NITRIFICATION MONITORING

Weekly Nitrification sampling was performed during the month of May 2017, see Appendix C.

F. TABLES

Table 2. Monitoring Results for SP1, SP2, and SP3 Sample Locations.

Date, week of	SP1, Well Raw Water Discharge							SP2, Combined Pressure Filter Effluent			SP3, After chloramination static mixer; reservoir entry					
	Iron, ug/L	*MCL = 3 00 ug/L	Manganese, ug/L	*MCL = 50 ug/L	Color	*MCL=15	Total Coliform	Total Coliform	HPC, MPN/100mL	MCL=500	Iron, mg/L	*MCL = 300 ug/L	Manganese, mg/L	*MCL = 50 ug/L	Color	*MCL=15
5/3/2017											ND	300	ND	50	5	15
5/10/2017	200	300	130	50	7.5	15	A	A	A	500	ND	300	ND	50	7.5	15
5/17/2017											ND	300	ND	50	5	15
5/24/2017											ND	300	ND	50	ND	15
5/31/2017											ND	300	ND	50	5	15

Notes:

Monthly- Orange; Weekly- Yellow

A – Absent

ND – Non Detect

*Per the SWRCB Drinking Water “Chemicals and Contaminants in Drinking Water” Regulations

Table 3. Monitoring Results for Free and Total Chlorine at SP2, SP3, SP4 and SP5 Sample Locations.

Date, week of	SP2	SP3			SP4			SP5		
	Free Cl	Free Cl	Total Cl	Total NH ₃	Free Cl	Total Cl	Total NH ₃	Free Cl	Total Cl	Total NH ₃
5/3/2017	4.42	0.44	4.93	0.93	0.30	4.09	0.73	0.06	3.39	0.72
5/10/2017	4.87	0.31	5.08	1.17	0.33	4.27	0.85	0.07	3.11	0.74
5/17/2017	5.07	0.50	5.30	0.77	0.38	4.17	0.68	0.08	3.32	0.62
5/24/2017	5.76	0.65	5.02	0.67	0.47	4.51	0.69	0.10	3.30	0.58
5/31/2017	6.85	0.78	5.38	0.54	0.53	4.27	0.55	0.10	3.74	0.63

Table 4. Monitoring Requirements and Frequencies for SP1, SP5, and SP6.

Date, week of	TDS, mg/L				T.O.N.		Hardness, mg/L				Methane (Water), mg/L	
	SP1 - Raw Well Water	SP6 - MWD Water	SP5 - Reservoir Effluent	Goal= 500 - 750 mg/L	SP5 - Reservoir Effluent	MCL= 3	SP1 - Raw Well Water	SP6 - MWD Water	SP5 - Reservoir Effluent	Goal= 180 - 250 mg/L	SP1 - Raw Well Water	SP5 - Reservoir Effluent
5/3/2017			570	500-750	2	3						0.40
5/10/2017	750	290	510	500-750	1	3	350	110	230	180-250	4.2	0.53
5/17/2017			580	500-750	1	3						0.45
5/24/2017			540	500-750	2	3						0.44
5/31/2017			560	500-750	3	3						0.39
Average			552	500-750	1.8	3						0.44

Notes:

Monthly- Orange; Weekly- Yellow

ppm – parts per million

mg/L – milligram per liter

T.O.N. - Threshold Odor Number

TDS - Total Dissolved Solids

Hardness - As total CaCO₃

Methane (Water) - Methane dissolved in water

Monthly CWP Monitoring Report – May 2017

Cypress Water Production Facility City of Lomita; System No. 1910073

Sample Locations and Parameters	Frequency	MCL/ Goal	5/3 1stWk	5/10 2 nd Wk	5/17 3rdWk	5/24 4 th Wk	5/31 5 th Wk	Comments and/or Other Info.
			or Mo. Result (date)					

SP1 --- Also called Well 5 Raw Water or Site#1.

TDS, ppm	Monthly	See SP5	750 5/10/17	Operations Data/Information: CWPF operation days On Well 5: Daily average flow - 499 gpm; total prod. - 64.28 AF Combined Well 5/MWD data: Average Well 5: MWD blend Ratio – 50% WELL:50% MWD; total prod.- 128.33 AF Chlorine Dosage: N/A*				*Chlorine injected after SP1, before entering the greensand filter.
Hardness	Monthly	See SP5	350 5/10/17					
CH4, ppm	Monthly	See SP5	4.2 5/10/17					
Iron, ppb	Monthly	See SP3	200 5/10/17					
Manganese, ppb	Monthly	See SP3	130 5/10/17					
Color, units	Monthly	See SP3	7.5 5/10/17					
Total Coliform, P or A	Monthly	A	A 5/10/17					

SP2 --- Also called Filter Effluent or Site#3.

Total Coliform, P or A	Monthly	A	A	Ammonia Dosage: N/A*	*Ammonia added after filter effluent
HPC,MPN/100 ml	Monthly	500	A		
Free Cl Res, ppm	Continuous	Average: 5.39; Range: 4.42 – 6.85			

SP3 --- Also called the Site After Chloramination & Before MWD Blending or Site#4.

Iron, ppb	Weekly	300	ND	ND	ND	ND	ND		
Manganese, ppb	Weekly	50	ND	ND	ND	ND	ND		
Color	Weekly	15	5	7.5	5	ND	5		
Free and Total Cl Res, ppm	Continuous	Free Cl: Average: 0.54; Range: 0.31 – 0.78							
		Total Cl: Average: 5.14; Range: 4.93 – 5.38							
		Ammonia: Average: 0.82; Range: 0.54 – 1.17							

SP4 --- Also called Reservoir Influent or the Site Well 5/MWD Water Blend Point/Phosphate Injection.

Phosphate Injection		Phosphate Dosage: 0.41 mg/L	
Free and Total Cl Res, ppm	Continuous	Free Cl: Average: 0.40; Range: 0.30 – 0.53 Total Cl: Average: 4.26; Range: 4.09 – 4.51 Ammonia: Average: 0.70; Range: 0.55 – 0.85	Cl/NH3 Ratio: 6.08

SP5 --- Also called Reservoir Effluent or Site#5. SP5 discharges into Zone 1 of the distribution system.

TDS, ppm	Weekly	SI Goal: 500-750ppm	570	510	580	540	560	
Hardness	Monthly	SI Goal: 180-250ppm		230				
CH4, ppm	Weekly	Goal: from PA	0.40	0.53	0.45	0.44	0.39	
Odor, units	Monthly	1	2	1	1	2	3	
Free and Total Cl Res, ppm	Continuous	Free Cl: Average: 0.08; Range: 0.06 – 0.10 Total Cl: Average: 3.37; Range: 3.11 – 3.74 Ammonia: Average: 0.66; Range: 0.58 – 0.74						Cl/NH3 Ratio: 5.12

Headspace of the Cypress Reservoir.

¹ CH4 ppmv; using Portable Device	Daily (from log)	Goal - LEL	CH4 Average: 0.03% CH4 Range: 0% - 1%				
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SP 6 --- MWD Source Feeding CWP. Also called Zone 2 of the distribution system or Site #6.

TDS, ppm	Monthly	-----		290				
Hardness	Monthly	-----		110				

Notes: ¹Self-Imposed (SI) Goals: TDS Goal-500-750 ppm; Hardness as CaCO3 Goal-180-250 ppm.

***This Report is due to DDW by the 10th of the following month.

Other Notes/Comments: (1) See comments on the last column

APPENDIX A

LABORATORY RESULTS

Clinical Laboratory of San Bernardino, Inc.



17 May 2017

Clinical Lab No.: 17E0332

Mark Andersen
Lomita, City of
24373 Walnut Avenue
Lomita, CA 91717

Project Name: Standard Analysis
Sub Project: CWPF 1st week May Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 05/03/17. Samples were received within temperature range, in correct containers and preservation.

Analyses were performed pursuant to client's chain of custody, within hold times, utilizing EPA or other ELAP approved methodologies.

I certify that the results are within compliance both technically and for completeness. Analytical results are attached to this letter. Please call if any additional information and or assistance are needed.

Thank you for choosing Clinical Laboratory of San Bernardino for your analytical needs.

Sincerely,

A handwritten signature in black ink, appearing to read 'Stu Styles', with a stylized flourish at the end.

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: CWPf 1st week May Compliance Sampling
Project Manager: Mark Andersen

Work Order: 17E0332
Received: 05/03/17 15:55
Reported: 05/17/17

Reservoir Influent Site #3 **17E0332-01 (Water)** **Sample Date:** 05/03/17 7:35 **Sampler:** PLM

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	4.87		N/A	mg/L	05/03/17	05/03/17	1718115	
pH (Field)	Field	7.69		N/A	pH Units	05/03/17	05/03/17	1718115	
Temperature (Field)	Field	22.8		N/A	°C	05/03/17	05/03/17	1718115	

General Physical Analyses

Apparent Color	SM 2120B-M	5.0	3.0	15	Color Units	05/03/17	05/03/17	1718144	
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Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	05/04/17	05/04/17	1718104	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	05/04/17	05/04/17	1718104	

Reservoir Effluent Site #5 **17E0332-02 (Water)** **Sample Date:** 05/03/17 7:40 **Sampler:** PLM

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	3.22		N/A	mg/L	05/03/17	05/03/17	1718115	
pH (Field)	Field	7.98		N/A	pH Units	05/03/17	05/03/17	1718115	
Temperature (Field)	Field	20.4		N/A	°C	05/03/17	05/03/17	1718115	

General Physical Analyses

Apparent Color	SM 2120B-M	ND	3.0	15	Color Units	05/03/17	05/03/17	1718144	
Odor Threshold	EPA 140.1-M	2	1	3	TON	05/03/17	05/03/17	1718144	

General Chemical Analyses

Total Filterable Residue/TDS	SM 2540C	570	5.0	1000	mg/L	05/10/17	05/12/17	1719074	
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ND Analyte NOT DETECTED at or above the reporting limit



May 11, 2017

Clinical Laboratory of San Bernardino
ATTN: Stu Styles
21881 Barton Rd.
Grand Terrace, CA 92313



ADE-1461
EPA Methods TO3,
TO14A, TO15 SIM & SCAN
ASTM D1946



LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
RSK-175

TX Cert T104704450-14-6
EPA Methods TO14A, TO15

UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: 17D0332
Lab Number: I050405-01

Enclosed are results for sample(s) received 5/04/17 by Air Technology Laboratories. Samples were received intact and properly chilled. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in blue ink, appearing to read "mjk", followed by a small flourish.

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino
17E0332

I050405-01

SENDING LABORATORY:Clinical Laboratory of San Bernardino
21881 Barton Road
Grand Terrace, CA 92313
Phone: 909.825.7693
Fax: 909.825.7696
Project Manager: Stu Styles**RECEIVING LABORATORY:**Air Technology Labs
18501 East Gale Avenue Suite 130
City of Industry, CA 91748
Phone : (626) 964-4032
Fax:

Please email results to Project Manager: Stu Styles

☐ glaubig@clinical-lab.com ☐ ybarra@clinical-lab.com ☒ styles@clinical-lab.com ☐ nelson@clinical-lab.comCalifornia EDT transfer those samples with PS codes provided ☐ Yes ☒ NoWater Trax Upload Client: ☐ Yes ☒ NoTurn Around Time ☐ 10 Days ☒ 5 Days ☐ Other ___ Days

Subcontract Comments:

Analysis**Comments**

Sample ID: Reservoir Effluent Site #5 / 17E0332-02

Sampled: 05/03/17 07:40 PS Code:
Water

WTX ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (B)

40ml Amber Vial (C)

01

6°C

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

Client: Clinical Laboratory
Attn: Stu Styles
Project Name: NA
Project No.: 17E0332
Date Received: 05/04/17
Matrix: Water
Reporting Units: mg/L

RSK175

Lab No.:	I050405-01						
Client Sample I.D.:	Reservoir Effluent Site #5/17E0332- 02						
Date/Time Sampled:	5/3/17 7:40						
Date/Time Analyzed:	5/10/17 9:31						
QC Batch No.:	170510GC8A1						
Analyst Initials:	AS						
Dilution Factor:	1.0						
ANALYTE	Result mg/L	RL mg/L					
Methane	0.40	0.0010					

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
Operations Manager

Date

5-10-17

The cover letter is an integral part of this analytical report



QC Batch No.: 170510GC8A1
Matrix: Water
Units: mg/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175


Lab No.:		Method Blank		LCS		LCSD				
Date/Time Analyzed:		5/10/17 9:17		5/10/17 8:37		5/10/17 9:04				
Analyst Initials:		AS		AS		AS				
Datafile:		10may004		10may001		10may003				
Dilution Factor:		1.0		1.0		1.0				
ANALYTE		PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane		0.001	0.001	ND	81	70-130%	89	70-130%	9.7	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By:


Mark J. Johnson
Operations Manager

Date:

5-10-17

The cover letter is an integral part of this analytical report.



130

17E0332

[illegible]

Clinical Laboratory of San Bernardino, Inc.



26 May 2017

Clinical Lab No.: 17E1121

Mark Andersen
Lomita, City of
24373 Walnut Avenue
Lomita, CA 91717

Project Name: Standard Analysis
Sub Project: Monthly Compliance / Monthly 2nd Week May

Enclosed are the results of the analyses for samples received at the laboratory on 05/10/17. Samples were received within temperature range, in correct containers and preservation.

Analyses were performed pursuant to client's chain of custody, within hold times, utilizing EPA or other ELAP approved methodologies.

I certify that the results are within compliance both technically and for completeness. Analytical results are attached to this letter. Please call if any additional information and or assistance are needed.

Thank you for choosing Clinical Laboratory of San Bernardino for your analytical needs.

Sincerely,

A handwritten signature in black ink, appearing to read 'Stu Styles', with a stylized flourish at the end.

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: Monthly Compliance / Monthly 2nd Week May
Project Manager: Mark Andersen

Work Order: 17E1121
Received: 05/10/17 16:15
Reported: 05/26/17

Raw Water Site #1

17E1121-01 (Water)

Sample Date: 05/10/17 9:00 Sampler: DGM

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	0		N/A	mg/L	05/10/17	05/10/17	1719136	
pH (Field)	Field	7.3		N/A	pH Units	05/10/17	05/10/17	1719136	
Temperature (Field)	Field	22.1		N/A	°C	05/10/17	05/10/17	1719136	

Microbiology Analyses

Total Coliform	SM 9223	A		N/A	P/A	05/10/17	05/11/17	1719120	
E. Coli	SM 9223	A		N/A	P/A	05/10/17	05/11/17	1719120	
Plate Count	SM9215B	45	1	500	CFU/ml	05/10/17	05/12/17	1719180	

General Physical Analyses

Apparent Color	SM 2120B-M	7.5	3.0	15	Color Units	05/10/17	05/10/17	1719122	
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General Chemical Analyses

Hardness, Total (as CaCO ₃)	Calculated	350	6.6	N/A	mg/L	05/16/17	05/17/17	[CALC]	
Total Filterable Residue/TDS	SM 2540C	750	5.0	1000	mg/L	05/17/17	05/22/17	1720080	

Metals

Calcium (Ca)	EPA 200.7	91	1.0	N/A	mg/L	05/16/17	05/17/17	1720061	
Iron (Fe)	EPA 200.7	200	100	300	ug/L	05/16/17	05/17/17	1720060	
Magnesium (Mg)	EPA 200.7	29	1.0	N/A	mg/L	05/16/17	05/17/17	1720061	
Manganese (Mn)	EPA 200.7	130	20	50	ug/L	05/16/17	05/17/17	1720060	

Filter Effluent (Free Chlorine) Site #2

17E1121-02 (Water)

Sample Date: 05/10/17 8:40 Sampler: DGM

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	6.3		N/A	mg/L	05/10/17	05/10/17	1719136	
pH (Field)	Field	7.4		N/A	pH Units	05/10/17	05/10/17	1719136	
Temperature (Field)	Field	22.2		N/A	°C	05/10/17	05/10/17	1719136	

Microbiology Analyses

Total Coliform	SM 9223	A		N/A	P/A	05/10/17	05/11/17	1719120	
E. Coli	SM 9223	A		N/A	P/A	05/10/17	05/11/17	1719120	
Plate Count	SM9215B	ND	1	500	CFU/ml	05/10/17	05/12/17	1719180	

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: Monthly Compliance / Monthly 2nd Week May
Project Manager: Mark Andersen

Work Order: 17E1121
Received: 05/10/17 16:15
Reported: 05/26/17

Filter Effluent (Total Chlorine) Site #3

17E1121-03 (Water)

Sample Date: 05/10/17 8:30 Sampler: DGM

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	6.3		N/A	mg/L	05/10/17	05/10/17	1719136	
pH (Field)	Field	7.4		N/A	pH Units	05/10/17	05/10/17	1719136	
Temperature (Field)	Field	22.4		N/A	°C	05/10/17	05/10/17	1719136	

General Physical Analyses

Apparent Color	SM 2120B-M	7.5	3.0	15	Color Units	05/10/17	05/10/17	1719122	
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Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	05/16/17	05/17/17	1720060	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	05/16/17	05/17/17	1720060	

Zone #2 Site #6

17E1121-04 (Water)

Sample Date: 05/10/17 8:35 Sampler: DGM

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	1.99		N/A	mg/L	05/10/17	05/10/17	1719136	
pH (Field)	Field	8.48		N/A	pH Units	05/10/17	05/10/17	1719136	
Temperature (Field)	Field	19		N/A	°C	05/10/17	05/10/17	1719136	

General Chemical Analyses

Hardness, Total (as CaCO3)	Calculated	110	6.6	N/A	mg/L	05/16/17	05/17/17	[CALC]	
Total Filterable Residue/TDS	SM 2540C	290	5.0	1000	mg/L	05/17/17	05/22/17	1720080	

Metals

Calcium (Ca)	EPA 200.7	25	1.0	N/A	mg/L	05/16/17	05/17/17	1720061	
Magnesium (Mg)	EPA 200.7	11	1.0	N/A	mg/L	05/16/17	05/17/17	1720061	

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: Monthly Compliance / Monthly 2nd Week May
Project Manager: Mark Andersen

Work Order: 17E1121
Received: 05/10/17 16:15
Reported: 05/26/17

Reservoir Effluent Site #5

17E1121-05 (Water)

Sample Date: 05/10/17 8:37 Sampler: DGM

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	3.21		N/A	mg/L	05/10/17	05/10/17	1719136	
pH (Field)	Field	7.75		N/A	pH Units	05/10/17	05/10/17	1719136	
Temperature (Field)	Field	19.8		N/A	°C	05/10/17	05/10/17	1719136	

General Physical Analyses

Odor Threshold	EPA 140.1-M	1	1	3	TON	05/10/17	05/10/17	1719122	
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General Chemical Analyses

Hardness, Total (as CaCO ₃)	Calculated	230	6.6	N/A	mg/L	05/16/17	05/17/17	[CALC]	
Total Filterable Residue/TDS	SM 2540C	510	5.0	1000	mg/L	05/17/17	05/22/17	1720080	

Metals

Calcium (Ca)	EPA 200.7	60	1.0	N/A	mg/L	05/16/17	05/17/17	1720061	
Magnesium (Mg)	EPA 200.7	20	1.0	N/A	mg/L	05/16/17	05/17/17	1720061	

ND Analyte NOT DETECTED at or above the reporting limit

Clinical Laboratory of San Bernardino, Inc.

EDT Transfer Confirmation 1



Work Order: 17E1121

Report Date: 05/26/2017

Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

Page 1 of 1

LOMITA-CITY, WATER DEPT.

User ID: 4TH

System: 1910073

WELL 05	Station No.: 1910073-003			Sampled: 170510 09:00
COLOR	Result: 7.5	Units: UNITS	Entry No.: 00081	Analyzed: 170510
TOTAL HARDNESS (AS CaCO3)	Result: 350	Units: MG/L	Entry No.: 00900	Analyzed: 170517
CALCIUM	Result: 91	Units: MG/L	Entry No.: 00916	Analyzed: 170517
MAGNESIUM	Result: 29	Units: MG/L	Entry No.: 00927	Analyzed: 170517
IRON	Result: 200	Units: UG/L	Entry No.: 01045	Analyzed: 170517
MANGANESE	Result: 130	Units: UG/L	Entry No.: 01055	Analyzed: 170517
TOTAL DISSOLVED SOLIDS	Result: 750	Units: MG/L	Entry No.: 70300	Analyzed: 170522
WELL 05 TREATMENT PLANT EFFLUENT	Station No.: 1910073-006			Sampled: 170510 08:30
COLOR	Result: 7.5	Units: UNITS	Entry No.: 00081	Analyzed: 170510
IRON	Result: ND	Units: UG/L	Entry No.: 01045	Analyzed: 170517
MANGANESE	Result: ND	Units: UG/L	Entry No.: 01055	Analyzed: 170517

May 19, 2017

Clinical Laboratory of San Bernardino
ATTN: Stu Styles
21881 Barton Rd.
Grand Terrace, CA 92313



ADE-1461
EPA Methods TO3,
TO14A, TO15 SIM & SCAN
ASTM D1946



LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
RSK-175

TX Cert T104704450-14-6
EPA Methods TO14A, TO15

UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: 17E1121
Lab Number: I051202-01/02

Enclosed are results for sample(s) received 5/12/17 by Air Technology Laboratories. Samples were received intact and properly chilled. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

SUBCONTRACT ORDER
Clinical Laboratory of San Bernardino
17E1121

1051202-01/02

SENDING LABORATORY:

Clinical Laboratory of San Bernardino
21881 Barton Road
Grand Terrace, CA 92313
Phone: 909.825.7693
Fax: 909.825.7696
Project Manager: Stu Styles

RECEIVING LABORATORY:

Air Technology Labs
18501 East Gale Avenue Suite 130
City of Industry, CA 91748
Phone : (626) 964-4032
Fax:

Please email results to Project Manager: Stu Styles

[] glaubig@clinical-lab.com [] ybarra@clinical-lab.com [x] styles@clinical-lab.com [] nelson@clinical-lab.com

California EDT transfer those samples with PS codes provided [] Yes [x] No

Water Trax Upload Client: [] Yes [x] No

Turn Around Time [] 10 Days [x] 5 Days [] Other ___ Days

Subcontract Comments:

Analysis

Comments

Sample ID: Raw Water Site #1 / 17E1121-01

Sampled: 05/10/17 09:00 PS Code:
Water

WTX ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (B)

40ml Amber Vial (C)

Sample ID: Reservoir Effluent Site #5 / 17E1121-05

Sampled: 05/10/17 08:37 PS Code:
Water

WTX ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (B)

40ml Amber Vial (C)

2°C

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

Client: Clinical Laboratory
Attn: Stu Styles
Project Name: NA
Project No.: 17E1121
Date Received: 05/12/17
Matrix: Water
Reporting Units: mg/L

RSK175

Lab No.:	I051202-01	I051202-02		
Client Sample I.D.:	Raw Water Site #1/17E1121-01	Reservoir Effluent Site #5/17E1121-02		
Date/Time Sampled:	5/10/17 9:00	5/10/17 8:37		
Date/Time Analyzed:	5/17/17 9:44	5/17/17 10:03		
QC Batch No.:	170517GC8A1	170517GC8A1		
Analyst Initials:	AS	AS		
Dilution Factor:	1.0	1.0		
ANALYTE	Result mg/L	RL mg/L	Result mg/L	RL mg/L
Methane	4.2	0.0010	0.53	0.0010

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: _____



Mark Johnson
Operations Manager

Date

5/19/17

The cover letter is an integral part of this analytical report



AirTECHNOLOGY Laboratories, Inc.

page 1 of 1

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

QC Batch No.: 170517GC8A1
Matrix: Water
Units: mg/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:		Method Blank		LCS		LCSD			
Date/Time Analyzed:		5/17/17 9:02		5/17/17 9:15		5/17/17 9:29			
Analyst Initials:		AS		AS		AS			
Datafile:		17may003		17may004		17may005			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	0.001	0.001	ND	100	70-130%	98	70-130%	1.8	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By: _____


Mark J. Johnson
Operations Manager

Date: _____

5/16/17

The cover letter is an integral part of this analytical report.



AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client		City of Lomita		System Number		Analysis Requested									
Address		24373 Walnut Avenue Lomita, CA 91717		1910073											
Phone #		(310) 325-9830		Destination Laboratory											
Fax #		(310) 325-3627		[X] Clinical Laboratory											
Project		Standard Analysis		RWQCB Compliance											
Sub Project		Monthly Compliance/ Monthly 2nd week of MAY		YES											
Comments				ELAP #											
Sampled by		DGM		1088											
Date	Time	Sample Identification		Matrix	Type	Preserv	Total Chlorine								
5-10-17	0825	Raw Water Site #1		GW	1W	N/A	2.7						PH 7.30 TEMP 22.1°		
5-10-17	0900	Raw Water Site #1		GW	1W	2.7							X		
5-10-17		Raw Water Site #1		GW	1W	1.7									
5-10-17	0840	Filter Effluent (Free Chlorine) Site#2		DW	1W	1.7	6.3						PH 7.40 TEMP 22.2°		
5-10-17	0830	Filter Effluent (Total Chlorine) Site#3		DW	1W	N/A	6.3						PH 7.40 TEMP 22.4°		
5-10-17	0835	Zone #2 Site #6		DW	1D	N/A	1.99						PH 8.48 TEMP 19.0°		
5-10-17															
5-10-17	0837	Reservoir Effluent Site #5		DW	1D	N/A	3.21						PH 7.75 TEMP 19.8°		
5-10-17	0837	Reservoir Effluent Site #5		DW	1D	2.7	3.21						X		
Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCl (3) HNO ₃ (4) NH ₄ Cl (5) H ₂ SO ₄ (6) Na ₂ SO ₃ (7) Cold (8) Other:				Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW-Ground Water, A-Air Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D-Dist.											
Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company							
Patrick McCue		City of Lomita, CA		5/10/17 2:00		[Signature]		J. W. [Signature]							
[Signature]		J. W. [Signature]		5/10/17 4:15		[Signature]		[Signature]							
Comments:		Samples received: <input checked="" type="checkbox"/> On ice () Intact () Custody seals Temp 10.9 () F () C													
Shipped Via		Fed X Golden State UPS Client Other		Page 1 of 1											

Clinical Laboratory of San Bernardino, Inc.



02 June 2017

Clinical Lab No.: 17E1582

Mark Andersen
Lomita, City of
24373 Walnut Avenue
Lomita, CA 91717

Project Name: Standard Analysis
Sub Project: CWPF 3rd week May, 2017 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 05/17/17 . Samples were received within temperature range, in correct containers and preservation.

Analyses were performed pursuant to client's chain of custody, within hold times, utilizing EPA or other ELAP approved methodologies.

I certify that the results are within compliance both technically and for completeness. Analytical results are attached to this letter. Please call if any additional information and or assistance are needed.

Thank you for choosing Clinical Laboratory of San Bernardino for your analytical needs.

Sincerely,

A handwritten signature in black ink, appearing to read "Stu Styles", with a stylized flourish at the end.

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: CWPf 3rd week May, 2017 Compliance Sampling
Project Manager: Mark Andersen

Work Order: 17E1582
Received: 05/17/17 15:15
Reported: 06/02/17

Reservoir Influent Site #3 **17E1582-01 (Water)** **Sample Date:** 05/17/17 8:15 **Sampler:** PLM

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	6.8		N/A	mg/L	05/17/17	05/17/17	1720119	
pH (Field)	Field	7.63		N/A	pH Units	05/17/17	05/17/17	1720119	
Temperature (Field)	Field	22		N/A	°C	05/17/17	05/17/17	1720119	

General Physical Analyses

Apparent Color	SM 2120B-M	5.0	3.0	15	Color Units	05/17/17	05/17/17	1720125	
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Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	05/19/17	05/22/17	1720170	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	05/19/17	05/22/17	1720170	

Reservoir Effluent Site #5 **17E1582-02 (Water)** **Sample Date:** 05/17/17 8:05 **Sampler:** PLM

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	3.6		N/A	mg/L	05/17/17	05/17/17	1720119	
pH (Field)	Field	7.98		N/A	pH Units	05/17/17	05/17/17	1720119	
Temperature (Field)	Field	19.9		N/A	°C	05/17/17	05/17/17	1720119	

General Physical Analyses

Apparent Color	SM 2120B-M	ND	3.0	15	Color Units	05/17/17	05/17/17	1720125	
Odor Threshold	EPA 140.1-M	1	1	3	TON	05/17/17	05/17/17	1720125	

General Chemical Analyses

Total Filterable Residue/TDS	SM 2540C	580	5.0	1000	mg/L	05/24/17	05/30/17	1721072	
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ND Analyte NOT DETECTED at or above the reporting limit



May 25, 2017

Clinical Laboratory of San Bernardino
ATTN: Stu Styles
21881 Barton Rd.
Grand Terrace, CA 92313



ADE-1461
EPA Methods TO3,
TO14A, TO15 SIM & SCAN
ASTM D1946



LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
RSK-175

TX Cert T104704450-14-6
EPA Methods TO14A, TO15

UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: 17E1582
Lab Number: I051804-01

Enclosed are results for sample(s) received 5/18/17 by Air Technology Laboratories. Samples were received intact and properly chilled. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in blue ink, appearing to read "M. Johnson", followed by a stylized flourish.

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

SUBCONTRACT ORDER
Clinical Laboratory of San Bernardino
17E1582

2 of 4
I051804

I051804-01

SENDING LABORATORY:

Clinical Laboratory of San Bernardino
21881 Barton Road
Grand Terrace, CA 92313
Phone: 909.825.7693
Fax: 909.825.7696
Project Manager: Stu Styles

RECEIVING LABORATORY:

Air Technology Labs
18501 East Gale Avenue Suite 130
City of Industry, CA 91748
Phone : (626) 964-4032
Fax:

Please email results to Project Manager: Stu Styles

☐ glaubig@clinical-lab.com ☐ ybarra@clinical-lab.com ☒ styles@clinical-lab.com ☐ nelson@clinical-lab.com

California EDT transfer those samples with PS codes provided ☐ Yes ☒ No

Water Trax Upload Client: _____ ☐ Yes ☒ No

Turn Around Time ☐ 10 Days ☒ 5 Days ☐ Other ___ Days

Subcontract Comments:

Analysis

Comments

51 Sample ID: Reservoir Effluent Site #5 / 17E1582-02

Sampled: 05/17/17 08:05 PS Code:
Water

WTX ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (B)

40ml Amber Vial (C)

7°C

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

Client: Clinical Laboratory
Attn: Stu Styles
Project Name: NA
Project No.: 17E1582
Date Received: 05/18/17
Matrix: Water
Reporting Units: mg/L

RSK175

Lab No.:	I051804-01				
Client Sample I.D.:	Reservoir Effluent Site #5/17E1582-02				
Date/Time Sampled:	5/25/17 8:05				
Date/Time Analyzed:	5/23/17 15:26				
QC Batch No.:	170523GC8A1				
Analyst Initials:	AS				
Dilution Factor:	1.0				
ANALYTE	Result mg/L	RL mg/L			
Methane	0.45	0.0010			

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: _____

Mark Johnson
Operations Manager

Date 5-24-17

The cover letter is an integral part of this analytical report



QC Batch No.: 170523GC8A1
Matrix: Water
Units: mg/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:		Method Blank		LCS		LCSD			
Date/Time Analyzed:		5/23/17 10:25		5/23/17 13:14		5/23/17 14:23			
Analyst Initials:		AS		AS		AS			
Datafile:		23may013		23may006		23may011			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	0.001	0.001	ND	112	70-130%	104	70-130%	7.1	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By: _____


Mark J. Johnson
Operations Manager

Date: _____

5-24-17

The cover letter is an integral part of this analytical report.



AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

17E1582

[illegible]

Clinical Laboratory of San Bernardino, Inc.



07 June 2017

Clinical Lab No.: 17E2069

Mark Andersen
Lomita, City of
24373 Walnut Avenue
Lomita, CA 91717

Project Name: Standard Analysis
Sub Project: CWPF 4th week May 2017

Enclosed are the results of the analyses for samples received at the laboratory on 05/24/17 . Samples were received within temperature range, in correct containers and preservation.

Analyses were performed pursuant to client's chain of custody, within hold times, utilizing EPA or other ELAP approved methodologies.

I certify that the results are within compliance both technically and for completeness. Analytical results are attached to this letter. Please call if any additional information and or assistance are needed.

Thank you for choosing Clinical Laboratory of San Bernardino for your analytical needs.

Sincerely,

A handwritten signature in black ink, appearing to read 'Stu Styles', with a stylized flourish at the end.

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: CWPf 4th week May 2017
Project Manager: Mark Andersen

Work Order: 17E2069
Received: 05/24/17 16:10
Reported: 06/07/17

Reservoir Effluent Site #3 **17E2069-01 (Water)** **Sample Date:** 05/24/17 7:35 **Sampler:** Patrick McCue

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	5.2		N/A	mg/L	05/24/17	05/24/17	1721128	
pH (Field)	Field	7.75		N/A	pH Units	05/24/17	05/24/17	1721128	
Temperature (Field)	Field	18.4		N/A	°C	05/24/17	05/24/17	1721128	

General Physical Analyses

Apparent Color	SM 2120BM	ND	3.0	15	Color Units	05/24/17	05/24/17	1721121	
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Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	05/25/17	05/26/17	1721122	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	05/25/17	05/26/17	1721122	

Reservoir Effluent Site #5 **17E2069-02 (Water)** **Sample Date:** 05/24/17 7:35 **Sampler:** Patrick McCue

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
---------	--------	--------	------------	-----	-------	----------	----------	-------	-----------

Field Analyses

Cl Res Total (Field)	Field	3.54		N/A	mg/L	05/24/17	05/24/17	1721128	
pH (Field)	Field	7.7		N/A	pH Units	05/24/17	05/24/17	1721128	
Temperature (Field)	Field	20.2		N/A	°C	05/24/17	05/24/17	1721128	

General Physical Analyses

Apparent Color	SM 2120BM	ND	3.0	15	Color Units	05/24/17	05/24/17	1721121	
Odor Threshold	EPA 140.1-M	2	1	3	TON	05/24/17	05/24/17	1721121	

General Chemical Analyses

Total Filterable Residue/TDS	SM 2540C	540	5.0	1000	mg/L	05/31/17	06/02/17	1722044	
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ND Analyte NOT DETECTED at or above the reporting limit



June 5, 2017

Clinical Laboratory of San Bernardino
ATTN: Stu Styles
21881 Barton Rd.
Grand Terrace, CA 92313



ADE-1461
EPA Methods TO3,
TO14A, TO15 SIM & SCAN
ASTM D1946



LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
RSK-175

TX Cert T104704450-14-6
EPA Methods TO14A, TO15

UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: 17E2069
Lab Number: I052607-01

Enclosed are results for sample(s) received 5/26/17 by Air Technology Laboratories. Samples were received intact and properly chilled. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in blue ink, appearing to read "Mark Johnson", followed by a large number "1".

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

SUBCONTRACT ORDER

2 of 4
I052607

Clinical Laboratory of San Bernardino

17E2069

I052607-01

SENDING LABORATORY:

Clinical Laboratory of San Bernardino
21881 Barton Road
Grand Terrace, CA 92313
Phone: 909.825.7693
Fax: 909.825.7696
Project Manager: Stu Styles

RECEIVING LABORATORY:

Air Technology Labs
18501 East Gale Avenue Suite 130
City of Industry, CA 91748
Phone : (626) 964-4032
Fax:

Please email results to Project Manager: Stu Styles

[] glaubig@clinical-lab.com [] ybarra@clinical-lab.com [x] styles@clinical-lab.com [] nelson@clinical-lab.com

California EDT transfer those samples with PS codes provided [] Yes [x] No

Water Trax Upload Client: [] Yes [x] No

Turn Around Time [] 10 Days [x] 5 Days [] Other ___ Days

Subcontract Comments:

6°C R4
5-26-17AnalysisComments

-01 Sample ID: Reservoir Effluent Site #5 / 17E2069-02

Sampled: 05/24/17 07:35 PS Code:
Water

WTX ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (B)

40ml Amber Vial (C)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

05/26/17 08:00

5/26/17 10:00

Ray Proano

5/26/17 9:00

5-26-17 9:10:00

Client: Clinical Laboratory
Attn: Stu Styles
Project Name: NA
Project No.: 17E2069
Date Received: 05/26/17
Matrix: Water
Reporting Units: mg/L

RSK175

Lab No.:	I052607-01						
Client Sample I.D.:	Reservoir Effluent Site #5/17E2069-02						
Date/Time Sampled:	5/24/17 7:35						
Date/Time Analyzed:	5/30/17 14:57						
QC Batch No.:	170530GC8A1						
Analyst Initials:	AS						
Dilution Factor:	1.0						
ANALYTE	Result mg/L	RL mg/L					
Methane	0.44	0.0010					

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
Mark Johnson
Operations Manager

Date 6/5/17

The cover letter is an integral part of this analytical report



QC Batch No.: 170530GC8A1
Matrix: Water
Units: mg/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:		Method Blank		LCS		LCSD			
Date/Time Analyzed:		5/30/17 9:51		5/30/17 8:51		5/30/17 9:04			
Analyst Initials:		AS		AS		AS			
Datafile:		30may005		30may001		30may002			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	0.001	0.001	ND	97	70-130%	100	70-130%	2.3	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By: _____

Mark J. Johnson
Mark J. Johnson
Operations Manager

Date: _____

6/5/17

The cover letter is an integral part of this analytical report.



AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Clinical Laboratory of San Bernardino, Inc.



08 June 2017

Clinical Lab No.: 17E2461

Mark Andersen
Lomita, City of
24373 Walnut Avenue
Lomita, CA 91717

Project Name: Standard Analysis
Sub Project: CWPF 5th Week May 2017 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 05/31/17. Samples were received within temperature range, in correct containers and preservation.

Analyses were performed pursuant to client's chain of custody, within hold times, utilizing EPA or other ELAP approved methodologies.

I certify that the results are within compliance both technically and for completeness. Analytical results are attached to this letter. Please call if any additional information and or assistance are needed.

Thank you for choosing Clinical Laboratory of San Bernardino for your analytical needs.

Sincerely,

A handwritten signature in black ink, appearing to read 'Stu Styles', with a stylized flourish at the end.

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: CWPf 5th Week May 2017 Compliance Sampling
Project Manager: Mark Andersen

Work Order: 17E2461
Received: 05/31/17 14:50
Reported: 06/08/17

Reservoir Influent Site #3 **17E2461-01 (Water)** **Sample Date:** 05/31/17 7:00 **Sampler:** Not Listed

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
---------	--------	--------	------------	-----	-------	----------	----------	-------	-----------

Field Analyses

Cl Res Total (Field)	Field	4.52		N/A	mg/L	05/31/17	05/31/17	1722098	
pH (Field)	Field	7.3		N/A	pH Units	05/31/17	05/31/17	1722098	
Temperature (Field)	Field	20.5		N/A	°C	05/31/17	05/31/17	1722098	

General Physical Analyses

Apparent Color	SM 2120BM	5.0	3.0	15	Color Units	05/31/17	05/31/17	1722123	
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Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	06/05/17	06/05/17	1723020	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	06/05/17	06/05/17	1723020	

Reservoir Effluent Site #5 **17E2461-02 (Water)** **Sample Date:** 05/31/17 7:00 **Sampler:** Not Listed

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
---------	--------	--------	------------	-----	-------	----------	----------	-------	-----------

Field Analyses

Cl Res Total (Field)	Field	3.61		N/A	mg/L	05/31/17	05/31/17	1722098	
pH (Field)	Field	7.5		N/A	pH Units	05/31/17	05/31/17	1722098	
Temperature (Field)	Field	19		N/A	°C	05/31/17	05/31/17	1722098	

General Physical Analyses

Apparent Color	SM 2120BM	5.0	3.0	15	Color Units	05/31/17	05/31/17	1722123	
Odor Threshold	EPA 140.1-M	3	1	3	TON	05/31/17	05/31/17	1722123	

General Chemical Analyses

Total Filterable Residue/TDS	SM 2540C	560	5.0	1000	mg/L	06/01/17	06/06/17	1722087	
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ND Analyte NOT DETECTED at or above the reporting limit



June 8, 2017

Clinical Laboratory of San Bernardino
ATTN: Stu Styles
21881 Barton Rd.
Grand Terrace, CA 92313



ADE-1461
EPA Methods TO3,
TO14A, TO15 SIM & SCAN
ASTM D1946



LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
RSK-175

TX Cert T104704450-14-6
EPA Methods TO14A, TO15

UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: 17E2461
Lab Number: I060102-01

Enclosed are results for sample(s) received 6/01/17 by Air Technology Laboratories. Samples were received intact and properly chilled. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in blue ink, appearing to read "Mark Johnson".

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

SUBCONTRACT ORDER

2 of 4
I060102Clinical Laboratory of San Bernardino
17E2461

I060102-01

SENDING LABORATORY:Clinical Laboratory of San Bernardino
21881 Barton Road
Grand Terrace, CA 92313
Phone: 909.825.7693
Fax: 909.825.7696
Project Manager: Stu StylesRECEIVING LABORATORY:Air Technology Labs
18501 East Gale Avenue Suite 130
City of Industry, CA 91748
Phone : (626) 964-4032
Fax:

Please email results to Project Manager: Stu Styles

[] glaubig@clinical-lab.com [] ybarra@clinical-lab.com [x] styles@clinical-lab.com [] nelson@clinical-lab.com

California EDT transfer those samples with PS codes provided [] Yes [x] No

Water Trax Upload Client: [] Yes [x] No

Turn Around Time [] 10 Days [x] 5 Days [] Other ___ Days

Subcontract Comments:

AnalysisComments

Sample ID: Reservoir Effluent Site #5 / 17E2461-02

Sampled: 05/31/17 07:00 PS Code:
Water

WTX ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (B)

40ml Amber Vial (C)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

5°C

Client: Clinical Laboratory
Attn: Stu Styles
Project Name: NA
Project No.: 17E2461
Date Received: 06/01/17
Matrix: Water
Reporting Units: mg/L

RSK175

Lab No.:	I060102-01						
Client Sample I.D.:	Reservoir Effluent Site #5/17E2461- 02						
Date/Time Sampled:	5/31/17 7:00						
Date/Time Analyzed:	6/6/17 12:27						
QC Batch No.:	170606GC8A1						
Analyst Initials:	AS						
Dilution Factor:	1.0						
ANALYTE	Result mg/L	RL mg/L					
Methane	0.39	0.0010					

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: _____

Mark Johnson
Operations Manager

Date

6-8-17

The cover letter is an integral part of this analytical report



QC Batch No.: 170606GC8A1
Matrix: Water
Units: mg/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:		Method Blank		LCS		LCSD				
Date/Time Analyzed:		6/6/17 9:23		6/6/17 9:36		6/6/17 9:50				
Analyst Initials:		AS		AS		AS				
Datafile:		06jun005		06jun006		06jun007				
Dilution Factor:		1.0		1.0		1.0				
ANALYTE		PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane		0.001	0.001	ND	81	70-130%	83	70-130%	2.2	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By:



Mark J. Johnson
Operations Manager

Date:

6-8-17

The cover letter is an integral part of this analytical report.



AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

[illegible]

APPENDIX B

METHANE MONITORING LOG



CITY OF LOMITA
PUBLIC WORKS DEPARTMENT

**CYPRESS WATER PRODUCTION FACILITY
HANDHELD METHANE LOG READINGS**

MAY 2017					
DATE	DAY	METHANE HANDHELD			COMMENTS
5/1/2017	M	CH4-	0%	Oxy-	20.2%
5/2/2017	T	CH4-	0%	Oxy-	20.1%
5/3/2017	W	CH4-	0%	Oxy-	20.1%
5/4/2017	TH	CH4-	0%	Oxy-	20.1%
5/5/2017	F	CH4-	0%	Oxy-	20.0%
5/6/2017	SA	CH4-	0%	Oxy-	19.9%
5/7/2017	SU	CH4-	0%	Oxy-	20.1%
5/8/2017	M	CH4-	0%	Oxy-	19.8%
5/9/2017	T	CH4-	0%	Oxy-	20.1%
5/10/2017	W	CH4-	0%	Oxy-	20.2%
5/11/2017	TH	CH4-	0%	Oxy-	20.9%
5/12/2017	F	CH4-	1%	Oxy-	19.9%
5/13/2017	SA	CH4-	0%	Oxy-	20.0%
5/14/2017	SU	CH4-	0%	Oxy-	19.8%
5/15/2017	M	CH4-	0%	Oxy-	20.2%
5/16/2017	T	CH4-	0%	Oxy-	19.8%
5/17/2017	W	CH4-	0%	Oxy-	21.1%
5/18/2017	TH	CH4-	0%	Oxy-	21.1%
5/19/2017	F	CH4-	0%	Oxy-	20.1%
5/20/2017	SA	CH4-	0%	Oxy-	19.8%
5/21/2017	SU	CH4-	0%	Oxy-	19.8%
5/22/2017	M	CH4-	0%	Oxy-	19.8%
5/23/2017	T	CH4-	0%	Oxy-	19.8%
5/24/2017	W	CH4-	0%	Oxy-	19.9%
5/25/2017	TH	CH4-	0%	Oxy-	19.8%
5/26/2017	F	CH4-	0%	Oxy-	19.8%
5/27/2017	SA	CH4-	0%	Oxy-	20.1%
5/28/2017	SU	CH4-	0%	Oxy-	20.2%
5/29/2017	M				Memorial Day Holiday
5/30/2017	T	CH4-	0%	Oxy-	20.0%
5/31/2017	W	CH4-	0%	Oxy-	19.5%

ND- Non Detect
CH4- Methane
Oxy- Oxygen
Day Off/Holiday- Red

APPENDIX C

NITRIFICATION MONITORING DATA SUMMARY

1 MONTHLY NITRIFICATION MONITORING SUMMARY REPORT
CITY OF LOMITA, System No. 1910073 --- Month, Year: **May 2017**

#	Code	Sample ID	Location	Sample Date	Temp	pH	Total Chlorine	Free Chlorine	Total Ammonia	Free Ammonia	Nitrite	Nitrate	Coliform ²	HPC	Zone	Comments
Units/Others →				MM/DD/YYYY	°C		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	P/A	CFU/ml		
1	D	S13-003	1948 W 252nd St	5/3/2017	21.1	7.56	3.30	0.05	0.62	0.00	0.008	ND	A	ND	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	5/3/2017	20.9	7.65	3.30	0.06	0.59	0.07	0.012	ND	A	ND	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	5/3/2017	22.7	7.72	3.50	0.09	0.62	0.02	0.009	ND	A	ND	1	Well/MWD Blend
4	D	A	2052 Dawn St	5/3/2017	21.3	7.18	2.60	0.06	0.53	0.00	0.012	ND	A	ND	1	Well/MWD Blend
5	D		Reservoir	5/3/2017	21.0	7.93	3.20	0.09	0.62	0.00	0.100	ND	A	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th Pl	5/3/2017	22.7	8.37	2.40	0.05	0.45	0.02	0.009	0.55	A	4	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	5/3/2017	20.7	8.43	2.40	0.08	0.43	0.00	0.009	0.55	A	2	3	MWD Only
8	D	S13-005	2500 PCH	5/3/2017	19.4	8.25	2.50	0.05	0.42	0.03	0.010	0.59	A	ND	2	MWD Only

1	D	S13-003	1948 W 252nd St	5/10/2017	20.1	7.80	3.00	0.12	0.64	0.00	0.020	ND	A	2	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	5/10/2017	19.6	7.70	3.10	0.04	0.70	0.01	0.019	ND	A	ND	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	5/10/2017	20.1	7.78	3.30	0.08	0.74	0.00	0.019	ND	A	ND	1	Well/MWD Blend
4	D	A	2052 Dawn St	5/10/2017	19.4	7.90	2.10	0.06	0.57	0.00	0.019	ND	A	2	1	Well/MWD Blend
5	D		Reservoir	5/10/2017	19.8	8.48	3.21	0.08	0.80	0.06	0.010	ND	A	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th Pl	5/10/2017	19.0	8.71	2.40	0.08	0.34	0.00	0.015	0.44	A	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	5/10/2017	18.6	8.59	2.30	0.13	0.48	0.00	0.014	0.45	A	ND	3	MWD Only
8	D	S13-005	2500 PCH	5/10/2017	19.1	8.28	2.30	0.08	0.46	0.02	0.015	0.41	A	ND	2	MWD Only

1	D	S13-003	1948 W 252nd St	5/17/2017	20.2	7.92	3.30	0.10	0.55	0.00	0.020	ND	A	ND	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	5/17/2017	20.2	7.76	3.30	0.09	0.60	0.01	0.015	ND	A	ND	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	5/17/2017	20.7	7.76	3.60	0.07	0.68	0.00	0.020	ND	A	2	1	Well/MWD Blend
4	D	A	2052 Dawn St	5/17/2017	19.7	8.08	2.20	0.04	0.52	0.01	0.015	ND	A	8	1	Well/MWD Blend
5	D		Reservoir	5/17/2017	19.9	7.95	3.6	0.12	0.60	0.02	0.010	ND	A	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th Pl	5/17/2017	19.0	8.46	2.40	0.04	0.45	0.02	0.014	0.46	A	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	5/17/2017	18.6	8.41	2.40	0.06	0.42	0.00	0.015	0.44	A	ND	3	MWD Only
8	D	S13-005	2500 PCH	5/17/2017	18.7	8.26	2.30	0.06	0.34	0.01	0.016	0.50	A	ND	2	MWD Only

1	D	S13-003	1948 W 252nd St	5/24/2017	20.6	7.79	3.40	0.14	0.47	0.00	0.014	ND	A	ND	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	5/24/2017	19.6	7.68	3.50	0.17	0.38	0.04	0.013	ND	A	2	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	5/24/2017	20.1	7.72	3.80	0.08	0.44	0.04	0.011	ND	A	2	1	Well/MWD Blend
4	D	A	2052 Dawn St	5/24/2017	20.7	7.81	2.10	0.03	0.39	0.00	0.019	0.40	A	ND	1	Well/MWD Blend
5	D		Reservoir	5/24/2017	19.6	7.83	3.90	0.08	0.50	0.04	0.010	ND	A	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th Pl	5/24/2017	18.7	8.36	2.40	0.03	0.43	0.04	0.014	0.59	A	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	5/24/2017	17.8	8.20	2.40	0.09	0.44	0.00	0.011	0.59	A	ND	3	MWD Only
8	D	S13-005	2500 PCH	5/24/2017	18.0	7.98	2.30	0.18	0.45	0.00	0.015	0.59	A	ND	2	MWD Only

1	D	S13-003	1948 W 252nd St	5/31/2017	20.5	7.24	3.40	0.06	0.62	0.00	0.021	ND	A	ND	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	5/31/2017	19.9	7.56	3.30	0.18	0.72	0.00	0.021	ND	A	5	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	5/31/2017	20.9	7.74	3.30	0.10	0.80	0.00	0.022	ND	A	5	1	Well/MWD Blend
4	D	A	2052 Dawn St	5/31/2017	20.4	7.83	2.20	0.10	0.46	0.00	0.034	0.46	A	3	1	Well/MWD Blend
5	D		Reservoir	5/31/2017	19.0	7.50	3.61	0.08	0.82	0.00	0.021	ND	A	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th Pl	5/31/2017	18.6	8.50	2.30	0.08	0.48	0.06	0.018	0.51	A	34	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	5/31/2017	18.0	8.54	2.30	0.06	0.49	0.04	0.016	0.51	A	ND	3	MWD Only
8	D	S13-005	2500 PCH	5/31/2017	18.7	8.32	2.30	0.02	0.49	0.02	0.014	0.51	A	14	2	MWD Only

¹Notes: Report Due to DDW by the 10th of the following month. This Report can be used for the routine weekly monitoring (one Report per month) as well as for daily monitoring when there is actual and potential for nitrification (about four or five Reports per month, in this case).

²Coliform results are part of weekly Bacti sampling results.