CITY OF LOMITA

Cypress Water Production Facility Monthly Status Report

July 2018

TABLE OF CONTENTS

August 09, 2018

Mr. Dmitry Ginzburg, 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 July 1 through July 31, 2018.

Dear Mr. Ginzburg,

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 July 2018.

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

Sincerely,

Mark Andersen
Public Works Superintendent

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 July 2018 maintaining water levels inside the reservoir ranging from 7 feet to 10 feet. The average flow from Well No. 5 was 420 gpm and 628 gpm from MWD. The blend ratio for month was 40% Well water and 60% MWD water. See Table 1 below for production totals for the month of July 2018.

Table 1. Monthly Production Totals.

	Production for July 2018	
Well No. 5	56.84 ac-ft	18,518,991 (gallons)
MWD	83.66 ac-ft	27,260,000 (gallons)
Combined Total	140.50 ac-ft	45,778,991 (gallons)
Daily	4.53 ac-ft/day	1,476,742 (gallons/day)

C. OPERATIONAL INTERRUPTIONS

There were no operational interruptions during the month of July 2018. 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 level. Iron for raw water was below the MCL level and Manganese was above the MCL level for the month. 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 598 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 890 mg/L and 460 mg/L, respectively.

E3-2 HARDNESS

The sampling results for the month indicate the hardness levels of the blended water to be on average 280 mg/L. This hardness level is above 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 0.14 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 July 2018 in Appendix B.

E3-5 ODOR

The odor levels at the CWPF effluent averaged 2.0 units for the month.

E3-6 TOTAL PHOSPHATE AND ORTHOPHOPHATE

See Table 5 below for a summary of the results for the monitoring of Orthophosphate and Total Phosphate both in the distribution system and CWPF.

E4. NITRIFICATION MONITORING

Weekly nitrification sampling was performed during the month of July 2018 following the City's Nitrification Monitoring Plan. Refer to Appendix C for results.

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
7/3/2018											ND	300	ND	50	5	15
7/10/2018	240	300	190	50	10	15	A	A	ND	500	ND	300	ND	50	5	15
7/17/2018											ND	300	ND	50	5	15
7/24/2018											ND	300	ND	50	7.5	15
7/31/2018											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
7/3/2018	6.77	1.36	8.34	0.97	0.58	4.85	0.76	0.13	3.44	0.68
7/10/2018	6.67	1.25	8.02	0.91	0.65	5.07	0.8	0.13	3.55	0.71
7/17/2018	8.40	1.10	7.55	0.84	0.88	5.03	0.63	0.07	3.31	0.63
7/24/2018	8.31	1.06	8.28	0.82	0.69	4.90	0.74	0.06	3.48	0.69
7/31/2018	7.18	0.97	8.10	1.01	0.74	5.16	0.82	0.09	3.54	0.71

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
7/3/2018			530	500-750	2	3						0.27
7/10/2018	840	550	580	500-750	2	3	260	230	280	180-250	1.8	0.14
7/17/2018			690	500-750	2	3						0.078
7/24/2018			630	500-750	2	3						0.14
7/31/2018			560	500-750	2	3						0.072
Average			**598**	500-750	**2**	3						**0.14**

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

Table 5. Monitoring Requirements and Frequencies for Total Phosphate and Orthophosphate.

Sample Location	Date, week of	Total Phosphate, mg/L	Orthophosphate, mg/L
1948 W 252nd St	7/31/18	0.33	0.36
24632 S Moon Ave	7/31/18	0.34	0.38
2450 W 247th St	7/31/18	0.35	0.45
2052 Dawn St	7/31/18	0.33	0.39
CWPF SP5	7/31/18	0.35	-

Notes:
Monthly- Orange;
mg/L – milligram per liter

Monthly CWPF Monitoring Report – July 2018
Cypress Water Production Facility
City of Lomita; System No. 1910073

Sample Locations and Parameters	Frequency	MCL/ Goal	7/3 1stWk or Mo. Result (date)	7/10 2nd Wk	7/17 3rdWk	7/24 4th Wk	7/31 5th Wk	Comments and/or Other Info.
SP1 --- Also called Well 5 Raw Water or Site#1.								
TDS, ppm	Monthly	See SP5	840 7/10	**Operations Data/Information:**				*Chlorine injected after SP1, before entering the greensand filter.
Hardness	Monthly	See SP5	260 7/10	**CWPF operation days**				
CH4, ppm	Monthly	See SP5	1.8 7/10	**On Well 5:** Daily average flow – 420 gpm; total prod. – 56.84 AF				
Iron, ppb	Monthly	See SP3	240 7/10	**Combined Well 5/MWD data:** Average Well 5: MWD blend Ratio – 40% WELL: 60% MWD; total prod.- 140.50 AF				
Manganese, ppb	Monthly	See SP3	190 7/10					
Color, units	Monthly	See SP3	10 7/10	Chlorine Dosage: N/A*				
Total Coliform, P or A	Monthly	A	A 7/10					
SP2 --- Also called Filter Effluent or Site#3.								
Total Coliform, P or A	Monthly	A	A					*Ammonia added after filter effluent
HPC,MPN/100 ml	Monthly	500	ND	Ammonia Dosage: N/A*				
Free Cl Res, ppm	Continuous	Average: 7.47 ; Range: 6.67 – 8.40						
SP3 --- Also called the Site After Chloramination & Before MWD Blending or Site#4.								
Iron, ppb	Weekly	ND	ND	ND	ND	ND	ND	
Manganese, ppb	Weekly	50	ND	ND	ND	ND	ND	
Color	Weekly	15	5	5	5	7.5	5	
Free and Total Cl Res, ppm	Continuous	Free Cl: Average: 1.15; Range: 0.97 – 1.36 Total Cl: Average: 8.06; Range: 7.55 – 8.34 Ammonia: Average: 0.91; Range: 0.82 – 1.01						
SP4 --- Also called Reservoir Influent or the Site Well 5/MWD Water Blend Point/Phosphate Injection.								
Phosphate Injection		Phosphate Dosage: 0.49 mg/L						
Free and Total Cl Res, ppm	Continuous	Free Cl: Average: 0.70; Range: 0.58 – 0.88 Total Cl: Average: 5.00; Range: 4.85 – 5.16 Ammonia: Average: 0.75; Range: 0.63 – 0.80						Cl/NH3 Ratio: 6.63
SP5 --- Also called Reservoir Effluent or Site#5. SP5 discharges into Zone 1 of the distribution system.								
TDS, ppm	Weekly	SI Goal: 500-750ppm	530	580	690	630	560	
Hardness	Monthly	SI Goal: 180-250ppm		280				
CH4, ppm	Weekly	Goal: from PA	0.27	0.14	0.078	0.14	0.072	% CH4 Removal: 92.2%
Odor, units	Monthly	1	2	2	2	2	2	
Free and Total Cl Res, ppm	Continuous	Free Cl: Average: 0.09; Range: 0.06 – 0.13 Total Cl: Average: 3.46; Range: 3.31 - 3.55 Ammonia: Average: 0.68; Range: 0.63 – 0.71						Cl/NH3 Ratio: 5.09
Headspace of the Cypress Reservoir.								
[1]CH4 ppmv; using Portable Device	Daily (from log)	Goal - LEL	CH4 Average: 0.48% CH4 Range: 0% - 3%					
SP 6 --- MWD Source Feeding CWPF. Also called Zone 2 of the distribution system or Site #6.								
TDS, ppm	Monthly	-----		550				
Hardness	Monthly	-----		230				

Notes: [1]Self-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.

24 July 2018 Clinical Lab No.: 18G0302

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

Project Name: Standard Analysis
Sub Project: CWPF 1st Week of July, 2018 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 07/03/18 . 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,

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Lomita, City of	Project: Standard Analysis	Work Order: 18G0302
24373 Walnut Avenue	Sub Project: CWPF 1st Week of July, 2018 Compliance Sampling	Received: 07/03/18 16:20
Lomita CA, 91717	Project Manager: Mark Andersen	Reported: 07/24/18

Reservoir Influent Site #3 **18G0302-01 (Water)** **Sample Date:** 07/03/18 9:20 **Sampler:** P.M.

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**7.9**		N/A	mg/L	07/03/18	07/03/18	1827146	
pH (Field)	Field	**7.91**		N/A	pH Units	07/03/18	07/03/18	1827146	
Temperature (Field)	Field	**22.2**		N/A	°C	07/03/18	07/03/18	1827146	
General Physical Analyses									
Apparent Color	SM 2120BM	**5.0**	3.0	15	Color Units	07/03/18	07/03/18	1827165	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	07/16/18	07/17/18	1829020	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	07/16/18	07/17/18	1829020	

Reservoir Effluent Site #5 **18G0302-02 (Water)** **Sample Date:** 07/03/18 9:25 **Sampler:** P.M.

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**3.33**		N/A	mg/L	07/03/18	07/03/18	1827146	
pH (Field)	Field	**8.06**		N/A	pH Units	07/03/18	07/03/18	1827146	
Temperature (Field)	Field	**21.1**		N/A	°C	07/03/18	07/03/18	1827146	
General Physical Analyses									
Apparent Color	SM 2120BM	ND	3.0	15	Color Units	07/03/18	07/03/18	1827165	
Odor Threshold	EPA 140.1-M	**2**	1	3	TON	07/03/18	07/03/18	1827165	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	**530**	5.0	1000	mg/L	07/10/18	07/12/18	1828053	

ND Analyte NOT DETECTED at or above the reporting limit

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Air TECHNOLOGY
Laboratories, Inc.

July 13, 2018

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

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

LABORATORY TEST RESULTS

Project Reference: 18G0302
Lab Number: J070601-01

Enclosed are results for sample(s) received 7/06/18 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 TNI 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

18G0302

J070601-01

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 [✓] 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
Sample ID: Reservoir Effluent Site #5 / 18G0302-02 **Sampled: 07/03/18 09:25 PS Code: Water** **WTX ID:**	
6	
Methane RSK175	Report in mg/L
Containers Supplied:	
40ml Amber Vial (B) 40ml Amber Vial (C)	

9°C

Released By	Date / Time	Received By	Date / Time
07/06/18 07:15		7/6/18 900	
Released By	Date / Time	Received By	Date / Time
7/6/18 959		7/6/18 0959	

Client:	**Clinical Laboratory**
Attn:	**Stu Styles**
Project Name:	**NA**
Project No.:	**18G0302**
Date Received:	**07/06/18**
Matrix:	**Water**
Reporting Units:	**mg/L**

RSK175

Lab No.:	**J070601-01**							
Client Sample I.D.:	**Reservoir Effluent Site #5/ 18G0302-02**							
Date/Time Sampled:	**7/3/18 9:25**							
Date/Time Analyzed:	**7/11/18 11:29**							
QC Batch No.:	**180711GC8A1**							
Analyst Initials:	**AS**							
Dilution Factor:	**1.0**							
ANALYTE	**Result mg/L**	**RL mg/L**						
Methane	0.27	0.0010						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ **Date** 7/13/18

Mark Johnson
Operations Manager

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

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 180711GC8A1

Matrix: Air

Reporting Units: mg/L

RSK175
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date/Time Analyzed:	7/11/18 11:16			7/11/18 10:00		7/11/18 10:29					
Analyst Initials:	AS			AS		AS					
Dilution Factor:	1.0			1.0		1.0					
ANALYTE	Result mg/L	RL mg/L	SPIKE AMT. mg/L	Result mg/L	% Rec.	Result mg/L	% Rec.	RPD	Low %Rec	High %Rec	Max. RPD
Methane	ND	0.0010	0.65	0.794	121	0.742	113	6.8	70	130	30.0

ND= Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 7/30/18
Mark Johnson
Operations Manager

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.

Chain of Custody

18G0302

Client	*City of Lomita*	System Number	Analysis Requested
Address	24373 Walnut Avenue Lomita, CA 91717	**1910073**	
Phone #	(310)903-2243	*Destination Laboratory*	
Fax #		[X] Clinical Laboratory	
Project	*Standard Analysis*	*RWQCB Compliance*	
Sub Project	*CWPF 1st week of July, 2018 Compliance Sampling*	*yes*	
Comments	*For TC/EC/BACT see weekly Distro CoC*	ELAP #	
Sampled by	P.M.	**1088**	

Date	Time	Sample Idenitification	Matrix	Type	Preserv	pH	Temp.	Total Chlorine	Iron / Manganese	Total Dissolved Solids	Color	Methane (Water) (RSK175)	Odor					Comments / P.S. Codes
7/3/2018	0920	Reservoir Influent Site #3	DW	1W	N/A	7.91	22.2°	7.9	X		X							
7/3/2018	0925	Reservoir Effluent Site #5	DW	1W	N/A	8.06	21.1°	3.33		X	X		X					
7/3/2018	0925	Reservoir Effluent Site #5	DW	1W	2							X						

Preservatives: (1) $Na_2S_2O_3$ (2) HCl (3) HNO_3 (4) NH_4Cl (5) H_2SO_4 (6) Na_2SO_3 (7) Cold (8) Other:_____

Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air Replacement, 4-Special W-Well D- Dist.

Type- 1-Routine, 2-Repeat, 3-

Relinquished By (Sign)	*Print Name / Company*	*Date / Time*		*Print Name / Company*
Patrick McCue	Patrick McCue City of Lomita	7/3/2018 /	1:30	Chris Martinez
Chris Martinez	Chris Martinez	7-3-18	4:20	Bob Glauby / LCWB

Comments:

Samples received: ( ) On ice ( ) Intact ( ) Custody seals Temp 7.9 ( ) F (X) C

Shipped Via | | | *[ ] Fed X [ ] Golden State [ ] UPS [ ] Client [ ] Other* _____ *Page 1 of 1*

Clinical Laboratory of San Bernardino, Inc.

26 July 2018 Clinical Lab No.: 18G0970

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

Project Name: Standard Analysis
Sub Project: CWPF Monthly Compliance Samples, 2nd Wk of June

Enclosed are the results of the analyses for samples received at the laboratory on 07/10/18 . 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,

Stu Styles
Client Services Manager

Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: CWPF Monthly Compliance Samples, 2nd Wk of Jun
Project Manager: Mark Andersen

Work Order: 18G0970
Received: 07/10/18 17:00
Reported: 07/26/18

Raw Water Site #1 **18G0970-01 (Water)** **Sample Date:** 07/10/18 6:05 **Sampler:** Patrick McCue

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	0		N/A	mg/L	07/10/18	07/10/18	1828131	
pH (Field)	Field	**7.66**		N/A	pH Units	07/10/18	07/10/18	1828131	
Temperature (Field)	Field	**24.9**		N/A	°C	07/10/18	07/10/18	1828131	
Microbiology Analyses									
Total Coliform	SM 9223	A		N/A	P/A	07/10/18	07/11/18	1828108	
E. Coli	SM 9223	A		N/A	P/A	07/10/18	07/11/18	1828108	
Plate Count	SM9215B	**31**	1	500	CFU/ml	07/10/18	07/12/18	1828184	HT-08
General Physical Analyses									
Apparent Color	SM 2120BM	**10.0**	3.0	15	Color Units	07/11/18	07/11/18	1828136	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	**260**	6.6	N/A	mg/L	07/24/18	07/24/18	[CALC]	
Total Filterable Residue/TDS	SM 2540C	**840**	5.0	1000	mg/L	07/17/18	07/19/18	1829054	
Metals									
Calcium (Ca)	EPA 200.7	**51**	1.0	N/A	mg/L	07/24/18	07/24/18	1830041	
Iron (Fe)	EPA 200.7	**240**	100	300	ug/L	07/19/18	07/19/18	1829102	
Magnesium (Mg)	EPA 200.7	**33**	1.0	N/A	mg/L	07/24/18	07/24/18	1830041	
Manganese (Mn)	EPA 200.7	**190**	20	50	ug/L	07/19/18	07/19/18	1829102	

Filter Effluent (Free Chlorine) Site #2 **18G0970-02 (Water)** **Sample Date:** 07/10/18 6:10 **Sampler:** Patrick McCue

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**10.8**		N/A	mg/L	07/10/18	07/10/18	1828131	
pH (Field)	Field	**7.71**		N/A	pH Units	07/10/18	07/10/18	1828131	
Temperature (Field)	Field	**24.4**		N/A	°C	07/10/18	07/10/18	1828131	
Microbiology Analyses									
Total Coliform	SM 9223	A		N/A	P/A	07/10/18	07/11/18	1828108	
E. Coli	SM 9223	A		N/A	P/A	07/10/18	07/11/18	1828108	
Plate Count	SM9215B	ND	1	500	CFU/ml	07/10/18	07/12/18	1828184	HT-08

Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: CWPF Monthly Compliance Samples, 2nd Wk of Jun
Project Manager: Mark Andersen

Work Order: 18G0970
Received: 07/10/18 17:00
Reported: 07/26/18

Filter Effluent (Total Chlorine) Site #3 **18G0970-03 (Water)** **Sample Date:** 07/10/18 6:12 **Sampler:** Patrick McCue

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**10**		N/A	mg/L	07/10/18	07/10/18	1828131	
pH (Field)	Field	**7.67**		N/A	pH Units	07/10/18	07/10/18	1828131	
Temperature (Field)	Field	**23.7**		N/A	°C	07/10/18	07/10/18	1828131	
General Physical Analyses									
Apparent Color	SM 2120BM	**5.0**	3.0	15	Color Units	07/11/18	07/11/18	1828136	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	07/19/18	07/19/18	1829102	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	07/19/18	07/19/18	1829102	

Zone #2 Site #6 **18G0970-04 (Water)** **Sample Date:** 07/10/18 6:25 **Sampler:** Patrick McCue

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**2.04**		N/A	mg/L	07/10/18	07/10/18	1828131	
pH (Field)	Field	**8.32**		N/A	pH Units	07/10/18	07/10/18	1828131	
Temperature (Field)	Field	**23.5**		N/A	°C	07/10/18	07/10/18	1828131	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	**230**	6.6	N/A	mg/L	07/24/18	07/24/18	[CALC]	
Total Filterable Residue/TDS	SM 2540C	**550**	5.0	1000	mg/L	07/17/18	07/19/18	1829054	
Metals									
Calcium (Ca)	EPA 200.7	**56**	1.0	N/A	mg/L	07/24/18	07/24/18	1830041	
Magnesium (Mg)	EPA 200.7	**21**	1.0	N/A	mg/L	07/24/18	07/24/18	1830041	

Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: CWPF Monthly Compliance Samples, 2nd Wk of Jun
Project Manager: Mark Andersen

Work Order: 18G0970
Received: 07/10/18 17:00
Reported: 07/26/18

Reservoir Effluent Site #5 **18G0970-05 (Water)** **Sample Date:** 07/10/18 6:30 **Sampler:** Patrick McCue

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**3.59**		N/A	mg/L	07/10/18	07/10/18	1828131	
pH (Field)	Field	**7.86**		N/A	pH Units	07/10/18	07/10/18	1828131	
Temperature (Field)	Field	**23.3**		N/A	°C	07/10/18	07/10/18	1828131	
General Physical Analyses									
Odor Threshold	EPA 140.1-M	**2**	1	3	TON	07/11/18	07/11/18	1828136	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	**280**	6.6	N/A	mg/L	07/24/18	07/24/18	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	ND	0.40	10	mg/L	07/11/18	07/11/18	1828093	
Total Filterable Residue/TDS	SM 2540C	**580**	5.0	1000	mg/L	07/17/18	07/19/18	1829054	
Metals									
Calcium (Ca)	EPA 200.7	**72**	1.0	N/A	mg/L	07/24/18	07/24/18	1830041	
Magnesium (Mg)	EPA 200.7	**25**	1.0	N/A	mg/L	07/24/18	07/24/18	1830041	

HT-08 Analysis performed outside of recommended 8 hour hold time but within required 24 hour hold time.

ND Analyte NOT DETECTED at or above the reporting limit

Air TECHNOLOGY
Laboratories, Inc.

July 19, 2018

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

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

LABORATORY TEST RESULTS

Project Reference: 18G0970
Lab Number: J071201-01/02

Enclosed are results for sample(s) received 7/12/18 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 TNI 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

18G0970

J071201-01/02

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 [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 / 18G0970-01 — **Sampled: 07/10/18 06:05 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 / 18G0970-05 — **Sampled: 07/10/18 06:30 PS Code: Water** — **WTX ID:**	
Methane RSK175	Report in mg/L
Containers Supplied:	
40ml Amber Vial (B) — 40ml Amber Vial (C)	

3°C

Released By	Date / Time	Received By	Date / Time
[signature]	7/12/18	[signature]	7/12/18 8:00
[signature]	7/12/18 10:59	[signature]	7/12/18 1059

Client: Clinical Laboratory
Attn: Stu Styles
Project Name: NA
Project No.: 18G0970
Date Received: 07/12/18
Matrix: Water
Reporting Units: mg/L

RSK175

Lab No.:	J071201-01		J071201-02					
Client Sample I.D.:	Raw Water Site #1 / 18G0970-01		Reservoir Effluent Site #5 / 18G0970-05					
Date/Time Sampled:	7/10/18 6:05		7/10/18 6:30					
Date/Time Analyzed:	7/17/18 10:29		7/17/18 10:16					
QC Batch No.:	180717GC8A2		180717GC8A2					
Analyst Initials:	AS		AS					
Dilution Factor:	1.0		1.0					
ANALYTE	Result mg/L	RL mg/L	Result mg/L	RL mg/L				
Methane	1.8	0.0010	0.14	0.0010				

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 7/19/18
Mark Johnson
Operations Manager

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

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 180717GC8A2

Matrix: Air

Reporting Units: mg/L

RSK175
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date/Time Analyzed:	7/17/18 10:03			7/17/18 9:36		7/17/18 9:49					
Analyst Initials:	AS			AS		AS					
Dilution Factor:	1.0			1.0		1.0					
ANALYTE	Result mg/L	RL mg/L	SPIKE AMT. mg/L	Result mg/L	% Rec.	Result mg/L	% Rec.	RPD	Low %Rec	High %Rec	Max. RPD
Methane	ND	0.0010	0.65	0.807	123	0.804	123	0.4	70	130	30.0

ND= Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 7/19/18

Mark Johnson
Operations Manager

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. — *Chain of Custody*

18G0970

Client	*City of Lomita*	System Number	Analysis Requested
Address	24373 Walnut Avenue Lomita, CA 91717	**1910073**	
Phone #	(310)903-2243	*Destination Laboratory*	
Fax #		[X] Clinical Laboratory	
Project	*Standard Analysis*	*RWQCB Compliance*	
Sub Project	*CWPF Monthly Compliance Samples; 2nd week of July, 2018*	*YES* ELAP #	
Comments		**1088**	
Sampled by	*Patrick McCue*		

Date	Time	Sample Idenitification	Matrix	Type	Preserv	Temp.	pH	Total Chlorine	Total Dissolved Solids	Iron & Manganese	E. Coli	Total Coliform	Heterophic Plate Count	Nitrate	Color	Odor	Methane (WATER) (RSK175)	Hardness
7/10/2018	0605	Raw Water Site #1	GW	1W	N/A	24.9°	7.66	Ø	X	X					X			
7/10/2018	0605	Raw Water Site #1	GW	1W	1, 2, 7	24.9°	7.66	Ø			X	X	X				X	X
7/10/2018	0610	Filter Effluent (Free Chlorine) Site#2	DW	1W	1,7	24.4°	7.71	10.8			X	X	X					
7/10/2018	0612	Filter Effluent (Total Chlorine) Site#3	DW	1W	N/A	23.7°	7.67	10.0		X					X			
7/10/2018	0625	Zone #2 Site #6	DW	1D	N/A	23.5°	8.32	2.04	X									X
7/10/2018	0630	Reservoir Effluent Site #5	DW	1D	N/A	23.3°	7.86	3.59	X							X		X
7/10/2018	0630	Reservoir Effluent Site #5	DW	1D	2,7												X	

Preservatives: (1) $Na_2S_2O_3$ (2) HCl (3) HNO3 (4) NH4Cl (5) H2SO4 (6) Na2SO3 (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	Patrick McCue /City of Lomita	7/10/2018 / 1:40	Chris Martinez	Chris Martinez
Chris Martinez	Chris Martinez	7-10-18 5:00		

Comments:

Samples received: ( ) On ice ( ) Intact ( ) Custody seals **Temp** 7.6 ( ) F (X) C

Shipped Via | | | | *Fed X* | | *Golden State* | | *UPS* | | *Client* | | *Other* _____

*Page _1_ of _1_*

"Your Water and Wastewater Analysis Solution"

Clinical Laboratory of San Bernardino, Inc.

07 August 2018 Clinical Lab No.: 18G1628

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

Project Name: Standard Analysis
Sub Project: CWPF 3rd Week of July, 2018 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 07/17/18 . 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,

Stu Styles
Client Services Manager

Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: CWPF 3rd Week of July, 2018 Compliance Sampling
Project Manager: Mark Andersen

Work Order: 18G1628
Received: 07/17/18 18:00
Reported: 08/07/18

Reservoir Influent Site #3 **18G1628-01 (Water)** **Sample Date:** 07/17/18 8:35 **Sampler:** P.M.

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**10.6**		N/A	mg/L	07/17/18	07/17/18	1829097	
pH (Field)	Field	**7.72**		N/A	pH Units	07/17/18	07/17/18	1829097	
Temperature (Field)	Field	**23.7**		N/A	°C	07/17/18	07/17/18	1829097	
General Physical Analyses									
Apparent Color	SM 2120BM	**5.0**	3.0	15	Color Units	07/17/18	07/17/18	1829088	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	07/25/18	07/25/18	1830085	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	07/25/18	07/25/18	1830085	

Reservoir Effluent Site #5 **18G1628-02 (Water)** **Sample Date:** 07/17/18 8:40 **Sampler:** P.M.

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**3.298**		N/A	mg/L	07/17/18	07/17/18	1829097	
pH (Field)	Field	**8.04**		N/A	pH Units	07/17/18	07/17/18	1829097	
Temperature (Field)	Field	**23.6**		N/A	°C	07/17/18	07/17/18	1829097	
General Physical Analyses									
Apparent Color	SM 2120BM	ND	3.0	15	Color Units	07/17/18	07/17/18	1829088	
Odor Threshold	EPA 140.1-M	**2**	1	3	TON	07/17/18	07/17/18	1829088	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	**690**	5.0	1000	mg/L	07/19/18	07/24/18	1829123	

ND Analyte NOT DETECTED at or above the reporting limit

AirTECHNOLOGY
Laboratories, Inc.

July 26, 2018

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

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

LABORATORY TEST RESULTS

Project Reference: 18G1628
Lab Number: J071903-01

Enclosed are results for sample(s) received 7/19/18 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 TNI 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

18G1628

J071903-01

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 [✓] 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
Sample ID: Reservoir Effluent Site #5 / 18G1628-02 01	**Sampled: 07/17/18 08:40 PS Code: Water** **WTX ID:**
Methane RSK175	Report in mg/L
Containers Supplied:	
40ml Amber Vial (B)	40ml Amber Vial (C)

4°C

Released By	Date / Time	Received By	Date / Time
BJ	07/18/18 16:45	Michael Labrador	7/19/18 8:00
Michael Labrador	7/19/18 11:55		7/19/18 1155

Client:	Clinical Laboratory
Attn:	Stu Styles
Project Name:	NA
Project No.:	18G1628
Date Received:	07/19/18
Matrix:	Water
Reporting Units:	mg/L

RSK175

Lab No.:	J071903-01							
Client Sample I.D.:	Reservoir Effluent Site #5/18G1628-02							
Date/Time Sampled:	7/17/18 8:40							
Date/Time Analyzed:	7/26/18 10:59							
QC Batch No.:	180726GC8A1							
Analyst Initials:	AS							
Dilution Factor:	1.0							
ANALYTE	Result mg/L	RL mg/L						
Methane	0.078	0.0010						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 7/26/18

Mark Johnson
Operations Manager

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

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 180726GC8A1

Matrix: Air

Reporting Units: mg/L

RSK175
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date/Time Analyzed:	7/26/18 10:42			7/26/18 9:56		7/26/18 10:29					
Analyst Initials:	AS			AS		AS					
Dilution Factor:	1.0			1.0		1.0					
ANALYTE	Result mg/L	RL mg/L	SPIKE AMT. mg/L	Result mg/L	% Rec.	Result mg/L	% Rec.	RPD	Low %Rec	High %Rec	Max. RPD
Methane	ND	0.0010	0.65	0.805	123	0.770	118	4.5	70	130	30.0

ND= Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 7/26/18

Mark Johnson
Operations Manager

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.

Chain of Custody

1861628

Client	*City of Lomita*	System Number	Analysis Requested
Address	24373 Walnut Avenue	**1910073**	
	Lomita, CA 91717	*Destination Laboratory*	
Phone #	(310)903-2243	[X] Clinical Laboratory	
Fax #		*RWQCB Compliance*	
Project	*Standard Analysis*	yes	
Sub Project	*CWPF 3rd week of July, 2018 Compliance Sampling*	ELAP #	
Comments	*For TC/EC/BACT see weekly Distro CoC*	**1088**	
Sampled by	P.M.		

Date	Time	Sample Idenitification	Matrix	Type	Preserv	pH	Temp.	Total Chlorine	Iron Manganese	Total Dissolved Solids	Color	Methane (Water) (RSK175)	Odor					Comments / P.S. Codes
7/17/2018	0835	Reservoir Influent Site #3	DW	1W	N/A	7.72	23.7°	10.6	X		X							
7/17/2018	0840	Reservoir Effluent Site #5	DW	1W	N/A	8.04	23.6°	3.29		X	X		X					
7/17/2018	0840	Reservoir Effluent Site #5	DW,	1W	2							X						

Preservatives: (1) $Na_2S_2O_3$ (2) HCl (3) HNO_3 (4) NH_4Cl (5) H_2SO_4 (6) Na_2SO_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*		*Print Name / Company*
Patrick McCue	Patrick McCue / City of Lomita	7/17/2018 /	2:10	Chris Martinez
Chris Martinez	Chris Martinez	7-17-18	6:00	CP/CLSB

Comments:

Samples received: ( ) On ice ( ) Intact ( ) Custody seals Temp 7.3 ( ) F (X) C

Shipped Via | | | | *Fed X* | | *Golden State* | | *UPS* | | *Client* | | *Other* _____ *Page 1 of 1*

"Your Water and Wastewater Analysis Solution"

Clinical Laboratory of San Bernardino, Inc.

07 August 2018 Clinical Lab No.: 18G2097

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

Project Name: Standard Analysis
Sub Project: CWPF 4th Week of July, 2018 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 07/24/18 . 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,

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.

Lomita, City of	Project: Standard Analysis	Work Order: 18G2097
24373 Walnut Avenue	Sub Project: CWPF 4th Week of July, 2018 Compliance Sampling	Received: 07/24/18 14:40
Lomita CA, 91717	Project Manager: Mark Andersen	Reported: 08/07/18

Reservoir Influent Site #3 **18G2097-01 (Water)** **Sample Date:** 07/24/18 9:00 **Sampler:** P.M.

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**10.9**		N/A	mg/L	07/24/18	07/24/18	1830088	
pH (Field)	Field	**7.69**		N/A	pH Units	07/24/18	07/24/18	1830088	
Temperature (Field)	Field	**24.9**		N/A	°C	07/24/18	07/24/18	1830088	
General Physical Analyses									
Apparent Color	SM 2120BM	**7.5**	3.0	15	Color Units	07/24/18	07/24/18	1830106	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	07/25/18	07/25/18	1830085	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	07/25/18	07/25/18	1830085	

Reservoir Effluent Site #5 **18G2097-02 (Water)** **Sample Date:** 07/24/18 9:10 **Sampler:** P.M.

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**3.3**		N/A	mg/L	07/24/18	07/24/18	1830088	
pH (Field)	Field	**8.02**		N/A	pH Units	07/24/18	07/24/18	1830088	
Temperature (Field)	Field	**24.6**		N/A	°C	07/24/18	07/24/18	1830088	
General Physical Analyses									
Apparent Color	SM 2120BM	**5.0**	3.0	15	Color Units	07/24/18	07/24/18	1830106	
Odor Threshold	EPA 140.1-M	**2**	1	3	TON	07/24/18	07/24/18	1830106	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	**630**	5.0	1000	mg/L	07/24/18	07/27/18	1830061	

ND Analyte NOT DETECTED at or above the reporting limit

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Air TECHNOLOGY
Laboratories, Inc.

August 1, 2018

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

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

LABORATORY TEST RESULTS

Project Reference: 18G2097
Lab Number: J072502-01

Enclosed are results for sample(s) received 7/25/18 by Air Technology Laboratories. Samples were received intact and chilled to 11° C. 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 TNI 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

18G2097

J072502-01

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 [✓] 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
Sample ID: Reservoir Effluent Site #5 / 18G2097-02 **Sampled: 07/24/18 09:10 PS Code: Water** **WTX ID:**	
61	
Methane RSK175	Report in mg/L

Containers Supplied:
40ml Amber Vial (B) 40ml Amber Vial (C)

11°C

Released By	Date / Time	Received By	Date / Time
BJ Olney	07/25/18 07:45		7/25/18 8:33
	7/25/18 10:03		7/25/18 1003

Client:	**Clinical Laboratory**
Attn:	**Stu Styles**
Project Name:	**NA**
Project No.:	**18G2097**
Date Received:	**07/25/18**
Matrix:	**Water**
Reporting Units:	**mg/L**

RSK175

Lab No.:	**J072502-01**							
Client Sample I.D.:	**Reservoir Effluent Site #5/ 18G2097-02**							
Date/Time Sampled:	**7/24/18 9:10**							
Date/Time Analyzed:	**7/26/18 11:16**							
QC Batch No.:	**180726GC8A1**							
Analyst Initials:	**AS**							
Dilution Factor:	**1.0**							
ANALYTE	**Result mg/L**	**RL mg/L**						
Methane	0.14	0.0010						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 8-1-18

Mark Johnson
Operations Manager

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

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 180726GC8A1

Matrix: Air
Reporting Units: mg/L

RSK175
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date/Time Analyzed:	7/26/18 10:42			7/26/18 9:56		7/26/18 10:29					
Analyst Initials:	AS			AS		AS					
Dilution Factor:	1.0			1.0		1.0					
ANALYTE	Result mg/L	RL mg/L	SPIKE AMT. mg/L	Result mg/L	% Rec.	Result mg/L	% Rec.	RPD	Low %Rec	High %Rec	Max. RPD
Methane	ND	0.0010	0.65	0.805	123	0.770	118	4.5	70	130	30.0

ND= Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 8-1-18

Mark Johnson
Operations Manager

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.

Chain of Custody

18G2097

Client	*City of Lomita*	System Number	Analysis Requested
Address	24373 Walnut Avenue	**1910073**	
	Lomita, CA 91717		
Phone #	(310)903-2243	*Destination Laboratory*	
Fax #		[X] Clinical Laboratory	
Project	*Standard Analysis*	*RWQCB Compliance*	
Sub Project	*CWPF 4th week of July, 2018 Compliance Sampling*	*yes*	
		ELAP #	
Comments	*For TC/EC/BACT see weekly Distro CoC*	**1088**	
Sampled by	P. M.		

Date	Time	Sample Idenitification	Matrix	Type	Preserv	pH	Temp.	Total Chlorine	Iron / Manganese	Total Dissolved Solids	Color	Methane (Water) (RSK175)	Odor					Comments / P.S. Codes
7/24/2018	0900	Reservoir Influent Site #3	DW	1W	N/A	7.69	24.9	10.9	X		X							
7/24/2018	0910	Reservoir Effluent Site #5	DW	1W	N/A	8.02	24.6	3.3		X	X		X					
7/24/2018	0910	Reservoir Effluent Site #5	DW	1W	2							X						

Preservatives: (1) $Na_2S_2O_3$ (2) HCl (3) HNO3 (4) NH4Cl (5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:_____

Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air Replacement, 4-Special W-Well D- Dist.

Type- 1-Routine, 2-Repeat, 3-

Relinquished By (Sign)	*Print Name / Company*	*Date / Time*		*Print Name / Company*
Patrick McCue	Patrick McCue City of Lomita	7/24/2018 /	1:00	Chris Martinez
Chris Martinez	Chris Martinez	7-24-18	2:40	CP ICUSB

Comments:

Samples received: ( ) On ice ( ) Intact ( ) Custody seals Temp 7.3 ( ) F (X) C

Shipped Via | | *Fed X* | | *Golden State* | | *UPS* | | *Client* | | *Other* _____

*Page _1_ of _1_*

"Your Water and Wastewater Analysis Solution"

Clinical Laboratory of San Bernardino, Inc.

09 August 2018 Clinical Lab No.: 18H0078

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

Project Name: Standard Analysis
Sub Project: CWPF 5th Week of July, 2018 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 07/31/18 . 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,

Stu Styles
Client Services Manager

Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: CWPF 5th Week of July, 2018 Compliance Sampling
Project Manager: Mark Andersen

Work Order: 18H0078
Received: 07/31/18 16:00
Reported: 08/09/18

Reservoir Influent Site #3 **18H0078-01 (Water)** **Sample Date:** 07/31/18 6:35 **Sampler:** P.M.

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**9.2**		N/A	mg/L	07/31/18	07/31/18	1831087	
pH (Field)	Field	**7.78**		N/A	pH Units	07/31/18	07/31/18	1831087	
Temperature (Field)	Field	**22.8**		N/A	°C	07/31/18	07/31/18	1831087	
General Physical Analyses									
Apparent Color	SM 2120BM	**5.0**	3.0	15	Color Units	07/31/18	07/31/18	1831100	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	08/03/18	08/03/18	1831157	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	08/03/18	08/03/18	1831157	

Reservoir Effluent Site #5 **18H0078-02 (Water)** **Sample Date:** 07/31/18 6:40 **Sampler:** P.M.

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**3.75**		N/A	mg/L	07/31/18	07/31/18	1831087	
pH (Field)	Field	**8.21**		N/A	pH Units	07/31/18	07/31/18	1831087	
Temperature (Field)	Field	**23.5**		N/A	°C	07/31/18	07/31/18	1831087	
General Physical Analyses									
Apparent Color	SM 2120BM	ND	3.0	15	Color Units	07/31/18	07/31/18	1831100	
Odor Threshold	EPA 140.1-M	**2**	1	3	TON	07/31/18	07/31/18	1831100	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	**560**	5.0	1000	mg/L	08/03/18	08/08/18	1832032	

ND Analyte NOT DETECTED at or above the reporting limit

AirTECHNOLOGY
Laboratories, Inc.

August 8, 2018

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

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

LABORATORY TEST RESULTS

Project Reference: 18H0078
Lab Number: J080201-01

Enclosed are results for sample(s) received 8/02/18 by Air Technology Laboratories. Samples were received intact and chilled to 6° C. 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 TNI 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

18H0078

J080201-01

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 [√] 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
Sample ID: Reservoir Effluent Site #5 / 18H0078-02 01	**Sampled: 07/31/18 06:40 PS Code: Water** **WTX ID:**
Methane RSK175	Report in mg/L

Containers Supplied:
40ml Amber Vial (B) 40ml Amber Vial (C)

6°C

Released By	Date / Time	Received By	Date / Time
BJ Shy	08/02/18 07:40	Chris Martinez	8-2-18 8:00
Chris Martinez	8-2-18	[illegible]	8/2/18 0934
Released By	Date / Time	Received By	Date / Time

Client:	**Clinical Laboratory**
Attn:	**Stu Styles**
Project Name:	**NA**
Project No.:	**18H0078**
Date Received:	**08/02/18**
Matrix:	**Water**
Reporting Units:	**mg/L**

RSK175

Lab No.:	**J080201-01**							
Client Sample I.D.:	**Reservoir Effluent Site #5/ 18H0078-02**							
Date/Time Sampled:	**7/31/18 6:40**							
Date/Time Analyzed:	**8/2/18 12:36**							
QC Batch No.:	**180802GC8A1**							
Analyst Initials:	**AS**							
Dilution Factor:	**1.0**							
ANALYTE	**Result mg/L**	**RL mg/L**						
Methane	0.072	0.0010						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 8/7/18

Mark Johnson
Operations Manager

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

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 180802GC8A1

Matrix: Air
Reporting Units: mg/L

RSK175
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date/Time Analyzed:	8/2/18 11:42			8/2/18 11:29		8/2/18 13:27					
Analyst Initials:	AS			AS		AS					
Dilution Factor:	1.0			1.0		1.0					
ANALYTE	Result mg/L	RL mg/L	SPIKE AMT. mg/L	Result mg/L	% Rec.	Result mg/L	% Rec.	RPD	Low %Rec	High %Rec	Max. RPD
Methane	ND	0.0010	0.65	0.764	117	0.711	109	7.2	70	130	30.0

ND= Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 8/7/18
Mark Johnson
Operations Manager

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.

Chain of Custody

18H0078

Client	*City of Lomita*	System Number	Analysis Requested
Address	24373 Walnut Avenue	**1910073**	
	Lomita, CA 91717		
Phone #	(310)903-2243	*Destination Laboratory*	
Fax #		[X] Clinical Laboratory	
Project	*Standard Analysis*	*RWQCB Compliance*	
Sub Project	*CWPF 5th week of July, 2018 Compliance Sampling*	*yes*	
		ELAP #	
Comments	*For TC/EC/BACT see weekly Distro CoC*	**1088**	
Sampled by	P. M.		

Date	Time	Sample Idenitification	Matrix	Type	Preserv	pH	Temp.	Total Chlorine	Iron / Manganese	Total Dissolved Solids	Color	Methane (Water) (RSK175)	Odor					Comments / P.S. Codes
7/31/2018	0635	Reservoir Influent Site #3	DW	1W	N/A	7.78	22.8°	4.2	X		X							
7/31/2018	0640	Reservoir Effluent Site #5	DW	1W	N/A	8.21	23.5°	3.75		X	X		X					
7/31/2018	0640	Reservoir Effluent Site #5	DW	1W	2							X						

Preservatives: (1) $Na_2S_2O_3$ (2) HCl (3) HNO3 (4) NH4Cl (5) H2SO4 (6) Na2SO3 (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*		*Print Name / Company*
Patrick McCue	Patrick McCue / City of Lomita	7/31/2018 /		B Blomley C.L.S.B
B Blomley	B Blomley C.L.S.B	7/31/18 16:00		J H C.L.S.B

Comments:

Samples received: (X) On ice (X) Intact (X) Custody seals Temp 7 ( ) F (X) C

Shipped Via | | | | *Fed X* | | *Golden State* | | *UPS* | | *Client* | | *Other* _____ | *Page _1_ of _1_*

"Your Water and Wastewater Analysis Solution"

Clinical Laboratory of San Bernardino, Inc.

06 August 2018 Clinical Lab No.: 18H0013

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

Project Name: Standard Analysis
Sub Project: Lomita Distribution Ortho, 5th Week, July 2018

Enclosed are the results of the analyses for samples received at the laboratory on 07/31/18 . 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,

Stu Styles
Client Services Manager

Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: Lomita Distribution Ortho, 5th Week, July 2018
Project Manager: Mark Andersen

Work Order: 18H0013
Received: 07/31/18 15:55
Reported: 08/06/18

1948 252nd St. **18H0013-01 (Water)** **Sample Date:** 07/31/18 9:00 **Sampler:** P.M.

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**3.3**		N/A	mg/L	07/31/18	07/31/18	1831076	
pH (Field)	Field	**8.18**		N/A	pH Units	07/31/18	07/31/18	1831076	
Temperature (Field)	Field	**25.6**		N/A	°C	07/31/18	07/31/18	1831076	
General Chemical Analyses									
Ortho-Phosphate (PO4)	HACH 8048	**0.36**	0.020	N/A	mg/L	08/01/18	08/01/18	1831085	
Phosphorus (Total as P)	HACH 8190	**0.33**	0.0067	N/A	mg/L	08/02/18	08/02/18	1831114	

24632 S. Moon **18H0013-02 (Water)** **Sample Date:** 07/31/18 9:30 **Sampler:** P.M.

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**2.8**		N/A	mg/L	07/31/18	07/31/18	1831076	
pH (Field)	Field	**8.08**		N/A	pH Units	07/31/18	07/31/18	1831076	
Temperature (Field)	Field	**26**		N/A	°C	07/31/18	07/31/18	1831076	
General Chemical Analyses									
Ortho-Phosphate (PO4)	HACH 8048	**0.38**	0.020	N/A	mg/L	08/01/18	08/01/18	1831085	
Phosphorus (Total as P)	HACH 8190	**0.34**	0.0067	N/A	mg/L	08/02/18	08/02/18	1831114	

2450 W. 247th St. **18H0013-03 (Water)** **Sample Date:** 07/31/18 9:50 **Sampler:** P.M.

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**0.7**		N/A	mg/L	07/31/18	07/31/18	1831076	
pH (Field)	Field	**7.97**		N/A	pH Units	07/31/18	07/31/18	1831076	
Temperature (Field)	Field	**27**		N/A	°C	07/31/18	07/31/18	1831076	
General Chemical Analyses									
Ortho-Phosphate (PO4)	HACH 8048	**0.45**	0.020	N/A	mg/L	08/01/18	08/01/18	1831085	
Phosphorus (Total as P)	HACH 8190	**0.35**	0.0067	N/A	mg/L	08/02/18	08/02/18	1831114	

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Clinical Laboratory of San Bernardino, Inc.

Lomita, City of	Project: Standard Analysis	Work Order: 18H0013
24373 Walnut Avenue	Sub Project: Lomita Distribution Ortho, 5th Week, July 2018	Received: 07/31/18 15:55
Lomita CA, 91717	Project Manager: Mark Andersen	Reported: 08/06/18

2052 Dawn St. **18H0013-04 (Water)** **Sample Date:** 07/31/18 9:15 **Sampler:** P.M.

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**1.23**		N/A	mg/L	07/31/18	07/31/18	1831076	
pH (Field)	Field	**8.01**		N/A	pH Units	07/31/18	07/31/18	1831076	
Temperature (Field)	Field	**28.1**		N/A	°C	07/31/18	07/31/18	1831076	
General Chemical Analyses									
Ortho-Phosphate (PO4)	HACH 8048	**0.39**	0.020	N/A	mg/L	08/01/18	08/01/18	1831085	
Phosphorus (Total as P)	HACH 8190	**0.33**	0.0067	N/A	mg/L	08/02/18	08/02/18	1831114	

CWPF SP5 **18H0013-05 (Water)** **Sample Date:** 07/31/18 7:40 **Sampler:** P.M.

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**3.75**		N/A	mg/L	07/31/18	07/31/18	1831076	
pH (Field)	Field	**8.21**		N/A	pH Units	07/31/18	07/31/18	1831076	
Temperature (Field)	Field	**23.5**		N/A	°C	07/31/18	07/31/18	1831076	
General Chemical Analyses									
Phosphorus (Total as P)	HACH 8190	**0.35**	0.0067	N/A	mg/L	08/02/18	08/02/18	1831114	

ND Analyte NOT DETECTED at or above the reporting limit

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Clinical Laboratory of San Bernardino, Inc.

Chain of Custody

18H0013

Client	*City of Lomita*
Address	24373 Walnut Avenue
	Lomita, CA 91717
Phone #	(310) 903-2243
Fax #	(310) 325-3627
Project	*Standard Analysis*
Sub Project	*Lomita Distribution Ortho, 5TH Week July, 2018*
Comments	
Sampled by	P.M.

System Number

1910073

Destination Laboratory

[X] Clinical Laboratory

RWQCB Compliance

No

ELAP #

1088

Analysis Requested

Date	Time	Sample Idenitification	Matrix	Type	Preserv	Bottle Number	Temp.	Total Chlorine	pH	ORTHO PHOSPHATE	TOTAL PHOSPHATE					Comments / P.S. Codes
7/31/2018	0900	1948 252ND ST.	DW	D1	N/A	3	25.6°	3.30	8.18	X	X					
7/31/2018	0930	24632 S. MOON	DW	D1	N/A	4	26.0°	2.80	8.08	X	X					
7/31/2018	0950	2450 W. 247th ST.	DW	D1	N/A	6	27.0°	0.70	7.97	X	X					
7/31/2018	0915	2052 DAWN ST.	DW	D1	N/A	7	28.1°	1.23	8.01	X	X					
7/31/2018	0740	CWPF SP5	DW	D1	N/A	8	23.5°	3.75	8.21		X					

Preservatives: (1) $Na_2S_2O_3$ (2) HCl (3) HNO3 (4) NH4Cl (5) H2SO4 (6) Na2SO3 (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 McGee	Patrick McGee /City of Lomita	7/31/2018 /		B Blowney C.L.S.B
	B Blowney C.L.S.B	7/31/18 3:55		

Samples received: (X) On ice (X) Intact (X) Custody seals Temp 7 F (X) C

Shipped Via [ ] *Fed X* [ ] *Golden State* [ ] *UPS* [ ] *Client* [ ] *Other*

Page 1 of 1

"Your Water and Wastewater Analysis Solution"

APPENDIX B

METHANE MONITORING LOG

CITY OF LOMITA
PUBLIC WORKS DEPARTMENT

CYPRESS WATER PRODUCTION FACILITY
HANDHELD METHANE LOG READINGS

JULY 2018				
DATE	DAY	METHANE HANDHELD		COMMENTS
7/1/2018	Sun	CH_4- 3%	Oxy- 20.9%	
7/2/2018	Mon	CH_4- 1%	Oxy- 20.9%	
7/3/2018	Tue	CH_4- 0%	Oxy- 20.8%	
7/4/2018	Wed			Independence Day
7/5/2018	Thu	CH_4- 2%	Oxy- 20.9%	
7/6/2018	Fri	CH_4- 0%	Oxy- 20.7%	
7/7/2018	Sat	CH_4- 0%	Oxy- 20.8%	
7/8/2018	Sun	CH_4- 1%	Oxy- 20.9%	
7/9/2018	Mon	CH_4- 2%	Oxy- 20.9%	
7/10/2018	Tue	CH_4- 1%	Oxy- 20.9%	
7/11/2018	Wed	CH_4- 2%	Oxy- 20.9%	
7/12/2018	Thu	CH_4- 0%	Oxy- 20.8%	
7/13/2018	Fri	CH_4- 0%	Oxy- 20.8%	
7/14/2018	Sat	CH_4- 0%	Oxy- 20.7%	
7/15/2018	Sun	CH_4- 0%	Oxy- 20.9%	
7/16/2018	Mon	CH_4- 0%	Oxy- 20.8%	
7/17/2018	Tue	CH_4- 0%	Oxy- 20.8%	
7/18/2018	Wed	CH_4- 0%	Oxy- 20.9%	
7/19/2018	Thu	CH_4- 0%	Oxy- 20.7%	
7/20/2018	Fri	CH_4- 0%	Oxy- 20.7%	
7/21/2018	Sat	CH_4- 0%	Oxy- 20.8%	
7/22/2018	Sun	CH_4- 1%	Oxy- 20.9%	
7/23/2018	Mon	CH_4- 1%	Oxy- 20.9%	
7/24/2018	Tue	CH_4- 1%	Oxy- 20.9%	
7/25/2018	Wed	CH_4- 0%	Oxy- 20.9%	
7/26/2018	Thu	CH_4- 0%	Oxy- 20.9%	
7/27/2018	Fri	CH_4- 0%	Oxy- 20.8%	
7/28/2018	Sat	CH_4- 0%	Oxy- 20.8%	
7/29/2018	Sun	CH_4- 0%	Oxy- 20.7%	
7/30/2018	Mon	CH_4- 0%	Oxy- 20.9%	
7/31/2018	Tue	CH_4- 0%	Oxy- 20.9%	

ND- Non Detect
CH_4- 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: **July 2018**

#	Code	Sample ID	Location	Sample Date	Temp	pH	Total Chlorine	Free Chlorine	Total Ammonia	Free Ammonia	Nitrite[3]	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	7/3/2018	22.5	8.05	3.10	0.06	0.58	0.02	0.008	ND	A	ND	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	7/3/2018	22.1	7.97	2.90	0.07	0.51	0.08	0.009	ND	A	2	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	7/3/2018	22.6	7.96	3.40	0.05	0.60	0.00	0.008	ND	A	ND	1	Well/MWD Blend
4	D	A	2052 Dawn St	7/3/2018	24.2	7.94	1.66	0.03	0.39	0.06	0.011	0.4	A	2	1	Well/MWD Blend
5	D		Reservoir SP5	7/3/2018	21.1	8.06	3.33	0.03	0.64	0.00	0.005	ND	A	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	7/3/2018	21.1	8.47	2.20	0.02	0.47	0.10	0.009	ND	A	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	7/3/2018	20.2	8.46	2.30	0.02	0.47	0.05	0.004	ND	A	ND	3	MWD Only
8	D	S13-005	2500 PCH	7/3/2018	20.6	8.46	2.40	0.03	0.48	0.01	0.013	ND	A	ND	2	MWD Only
1	D	S13-003	1948 W 252nd St	7/10/2018	24.4	8.05	3.30	0.12	0.60	0.05	0.005	ND	A	1	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	7/10/2018	24.6	7.94	2.90	0.04	0.58	0.10	0.013	ND	A	ND	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	7/10/2018	25.8	7.98	3.50	0.10	0.60	0.05	0.009	ND	A	ND	1	Well/MWD Blend
4	D	A	2052 Dawn St	7/10/2018	26.1	7.92	1.27	0.05	0.36	0.16	0.013	ND	A	ND	1	Well/MWD Blend
5	D		Reservoir SP5	7/10/2018	23.3	7.86	3.59	0.06	0.62	0.02	0.008	ND	A	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	7/10/2018	24.3	8.45	2.30	0.08	0.49	0.08	0.008	ND	A	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	7/10/2018	23.3	8.48	2.40	0.08	0.47	0.10	0.006	ND	A	ND	3	MWD Only
8	D	S13-005	2500 PCH	7/10/2018	24.6	8.41	2.30	0.07	0.45	0.10	0.012	ND	A	ND	2	MWD Only
1	D	S13-003	1948 W 252nd St	7/17/2018	24.1	8.04	2.90	0.12	0.55	0.07	0.003	ND	A	2	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	7/17/2018	24.0	8.05	2.70	0.09	0.45	0.08	0.016	ND	A	130	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	7/17/2018	25.6	8.00	3.20	0.10	0.57	0.01	0.011	ND	A	2	1	Well/MWD Blend
4	D	A	2052 Dawn St	7/17/2018	24.8	7.93	1.20	0.07	0.32	0.15	0.033	ND	A	20	1	Well/MWD Blend
5	D		Reservoir SP5	7/17/2018	23.6	8.04	3.30	0.07	0.59	0.02	0.004	ND	A	1	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	7/17/2018	24.0	8.12	2.20	0.03	0.54	0.03	0.012	ND	A	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	7/17/2018	23.0	8.36	2.10	0.03	0.52	0.04	0.007	ND	A	ND	3	MWD Only
8	D	S13-005	2500 PCH	7/17/2018	24.6	8.34	2.10	0.08	0.49	0.07	0.027	ND	A	ND	2	MWD Only
1	D	S13-003	1948 W 252nd St	7/24/2018	25.6	8.02	3.10	0.12	0.57	0.02	0.008	ND	A	ND	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	7/24/2018	25.1	7.98	2.40	0.06	0.48	0.10	0.012	ND	A	3	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	7/24/2018	26.7	8.01	3.00	0.10	0.59	0.02	0.007	ND	A	30	1	Well/MWD Blend
4	D	A	2052 Dawn St	7/24/2018	27.0	7.91	0.78	0.05	0.33	0.15	0.035	ND	A	ND	1	Well/MWD Blend
5	D		Reservoir SP5	7/24/2018	24.6	8.02	3.80	0.04	0.62	0.00	0.006	ND	A	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	7/24/2018	25.7	8.41	2.40	0.09	0.51	0.08	0.008	ND	A	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	7/24/2018	24.9	8.44	2.40	0.08	0.50	0.10	0.006	ND	A	ND	3	MWD Only
8	D	S13-005	2500 PCH	7/24/2018	25.8	8.40	2.30	0.09	0.46	0.04	0.009	ND	A	ND	2	MWD Only
1	D	S13-003	1948 W 252nd St	7/31/2018	25.6	8.18	3.30	0.06	0.72	0.07	0.006	-	A	ND	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	7/31/2018	26.0	8.08	2.80	0.05	0.60	0.10	0.010	-	A	16	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	7/31/2018	27.5	8.10	3.10	0.07	0.64	0.05	0.011	-	A	1	1	Well/MWD Blend
4	D	A	2052 Dawn St	7/31/2018	28.1	8.01	1.23	0.02	0.42	0.19	0.046	-	A	15	1	Well/MWD Blend
5	D		Reservoir	7/31/2018	23.5	8.21	3.75	0.06	0.66	0.00	0.007	-	A	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	7/31/2018	25.6	8.45	2.40	0.06	0.48	0.09	0.010	-	A	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	7/31/2018	24.5	8.46	2.30	0.05	0.52	0.00	0.006	-	A	ND	3	MWD Only
8	D	S13-005	2500 PCH	7/31/2018	26.5	8.38	2.80	0.00	0.47	0.20	0.022	-	A	ND	2	MWD Only

[1]Notes: 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).

[2]Coliform results are part of weekly Bacti sampling results.

[3]The City is monitoring trends of Nitrite in Zone I, in accordance with the Nitrification Monitoring Plan. Hydrant flushing has been implemented.