CITY OF LOMITA

Cypress Water Production Facility Monthly Status Report

October 2018

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November 13, 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 October 1 through October 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 October 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 October 2018 maintaining water levels inside the reservoir ranging from 7 feet to 10 feet. The average flow from Well No. 5 was 417 gpm and 575 gpm from MWD. The blend ratio for month was 41% Well water and 59% MWD water. See Table 1 below for production totals for the month of October 2018.

Table 1. Monthly Production Totals.

	Production for October 2018	
Well No. 5	40.67 ac-ft	13,251,366 (gallons)
MWD	59.10 ac-ft	19,257,000 (gallons)
Combined Total	99.77 ac-ft	32,508,366 (gallons)
Daily	3.99 ac-ft/day	1,300,335 (gallons/day)

C. OPERATIONAL INTERRUPTIONS

The CWPF was offline for approximately six days during the month of October to perform routine and preventive maintenance on various pieces of equipment. During this time, Zone 1 was being supplied only by MWD water. The CWPF was put back online on October 9, 2018. 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 596 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 360 mg/L, respectively.

E3-2 HARDNESS

The sampling results for the month indicate the hardness levels of the blended water to be on average 250 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 0.28 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 October 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 October 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
10/2/2018											ND	300	ND	50	5	15
10/9/2018	200	300	150	50	10	15	A	ND	ND	500	ND	300	ND	50	5	15
10/16/2018											ND	300	ND	50	5	15
10/23/2018											ND	300	ND	50	5	15
10/30/2018											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
10/22018	-	-	-	-	-	-	-	0.07	3.77	0.87
10/9/2018	8.91	1.01	8.70	0.96	0.78	5.18	0.77	0.05	3.55	0.73
10/16/2018	8.98	0.96	9.76	1.02	0.68	5.37	0.84	0.06	3.70	0.77
10/23/2018	8.54	1.05	9.68	1.01	0.73	5.11	0.80	0.07	3.52	0.74
10/30/2018	8.89	1.00	9.40	1.10	0.62	4.49	0.86	0.05	3.39	0.72

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
10/2/2018			600	500-750	2	3						0.31
10/9/2018	750	360	580	500-750	2	3	370	160	250	180-250	2.0	0.18
10/16/2018			620	500-750	2	3						0.32
10/23/2018			650	500-750	2	3						0.30
10/30/2018			530	500-750	2	3						0.29
Average			**596**	500-750	**2**	3						**0.28**

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	10/9/18	0.11	0.16
24632 S Moon Ave		0.13	0.19
2450 W 247th St		0.062	0.075
2052 Dawn St		0.043	0.098
CWPF SP5		0.39	-

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

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

Sample Locations and Parameters	Frequency	MCL/ Goal	10/2/18 1stWk or Mo. Result (date)	10/9/18 2nd Wk	10/16/18 3rdWk	10/23/18 4th Wk	10/30/18 5th Wk	Comments and/or Other Info.
SP1 --- Also called Well 5 Raw Water or Site#1.								
TDS, ppm	Monthly	See SP5	750 10/9/18	**Operations Data/Information:**				*Chlorine injected after SP1, before entering the greensand filter.
Hardness	Monthly	See SP5	370 10/9/18	**CWPF operation days**				
CH4, ppm	Monthly	See SP5	2.0 10/9/18	**On Well 5:** Daily average flow – 417 gpm; total prod. – 40.67 AF				
Iron, ppb	Monthly	See SP3	220 10/9/18	**Combined Well 5/MWD data:** Average Well 5: MWD blend Ratio – 41% WELL: 59% MWD; total prod.- 99.77 AF				
Manganese, ppb	Monthly	See SP3	150 10/9/18					
Color, units	Monthly	See SP3	10 10/9/18	Chlorine Dosage: N/A*				
Total Coliform, P or A	Monthly	A	A 10/9/18					
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: 8.83 ; Range: 8.54 – 8.98						
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	5	5	
Free and Total Cl Res, ppm	Continuous	Free Cl: Average: 1.00; Range: 0.96 – 1.05 Total Cl: Average: 9.38; Range: 8.70 – 9.76 Ammonia: Average: 1.02; Range: 0.96 – 1.10						
SP4 --- Also called Reservoir Influent or the Site Well 5/MWD Water Blend Point/Phosphate Injection.								
Phosphate Injection		Phosphate Dosage: 0.48 mg/L						
Free and Total Cl Res, ppm	Continuous	Free Cl: Average: 0.72; Range: 0.62 – 0.78 Total Cl: Average: 5.07; Range: 4.49 – 5.37 Ammonia: Average: 0.81; Range: 0.77 – 0.84						Cl/NH3 Ratio: 6.29
SP5 --- Also called Reservoir Effluent or Site#5. SP5 discharges into Zone 1 of the distribution system.								
TDS, ppm	Weekly	SI Goal: 500-750ppm	600	580	620	650	530	
Hardness	Monthly	SI Goal: 180-250ppm		250				
CH4, ppm	Weekly	Goal: from PA	0.31	0.18	0.32	0.30	0.29	% CH4 Removal: 86.0%
Odor, units	Monthly	1	2	2	2	2	2	
Free and Total Cl Res, ppm	Continuous	Free Cl: Average: 0.06; Range: 0.05 – 0.07 Total Cl: Average: 3.59; Range: 3.39 - 3.77 Ammonia: Average: 0.76; Range: 0.72 – 0.87						Cl/NH3 Ratio: 4.73
Headspace of the Cypress Reservoir.								
[1]CH4 ppmv; using Portable Device	Daily (from log)	Goal - LEL	CH4 Average: 0.38% CH4 Range: 0% - 4%					
SP 6 --- MWD Source Feeding CWPF. Also called Zone 2 of the distribution system or Site #6.								
TDS, ppm	Monthly	-----		360				
Hardness	Monthly	------		160				

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.

12 October 2018 Clinical Lab No.: 18J0186

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

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

Enclosed are the results of the analyses for samples received at the laboratory on 10/02/18 . 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 1st Week of October, 2018 Compliance Sampli
Project Manager: Mark Andersen

Work Order: 18J0186
Received: 10/02/18 16:22
Reported: 10/12/18

Reservoir Influent Site #3 **18J0186-01 (Water)** **Sample Date:** 10/02/18 9:00 **Sampler:** P.M.

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**3.7**		N/A	mg/L	10/02/18	10/02/18	1840076	
pH (Field)	Field	**7.47**		N/A	pH Units	10/02/18	10/02/18	1840076	
Temperature (Field)	Field	**23.7**		N/A	°C	10/02/18	10/02/18	1840076	
General Physical Analyses									
Apparent Color	SM 2120BM	**5.0**	3.0	15	Color Units	10/02/18	10/02/18	1840093	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	10/04/18	10/05/18	1840123	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	10/04/18	10/05/18	1840123	

Reservoir Effluent Site #5 **18J0186-02 (Water)** **Sample Date:** 10/02/18 9:20 **Sampler:** P.M.

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**3.56**		N/A	mg/L	10/02/18	10/02/18	1840076	
pH (Field)	Field	**7.79**		N/A	pH Units	10/02/18	10/02/18	1840076	
Temperature (Field)	Field	**24**		N/A	°C	10/02/18	10/02/18	1840076	
General Physical Analyses									
Apparent Color	SM 2120BM	ND	3.0	15	Color Units	10/02/18	10/02/18	1840093	
Odor Threshold	EPA 140.1-M	**2**	1	3	TON	10/02/18	10/02/18	1840093	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	**600**	5.0	1000	mg/L	10/02/18	10/04/18	1840061	

ND Analyte NOT DETECTED at or above the reporting limit

Air TECHNOLOGY Laboratories, Inc.

October 10, 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: 18J0186
Lab Number: J100301-01

Enclosed are results for sample(s) received 10/03/18 by Air Technology Laboratories. Samples were received intact and chilled to 5° 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

18J0186

J100301-01

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 / 18J0186-02 **Sampled: 10/02/18 09:20 PS Code: Water** **WTX ID:**	
01	
Methane RSK175	Report in mg/L

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

5°C

Released By	Date / Time	Received By	Date / Time
10/03/18 07:30		10/3/18 8:32	
Released By	Date / Time	Received By	Date / Time
10/3/18 950		10/3/18	9:58

Client:	**Clinical Laboratory**
Attn:	**Stu Styles**
Project Name:	**NA**
Project No.:	**18J0186**
Date Received:	**10/03/18**
Matrix:	**Water**
Reporting Units:	**mg/L**

RSK175

Lab No.:	**J100301-01**					
Client Sample I.D.:	**Reservoir Effluent Site #5/18J0186-02**					
Date/Time Sampled:	**10/2/18 9:20**					
Date/Time Analyzed:	**10/5/18 9:35**					
QC Batch No.:	**181004GC8A2**					
Analyst Initials:	**AS**					
Dilution Factor:	**1.0**					
ANALYTE	**Result mg/L**	**RL mg/L**				
Methane	0.31	0.0010				

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

Reviewed/Approved By: _____ **Date** 10/10/18

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 #: 181004GC8A2

Matrix: Air
Reporting Units: mg/L

RSK175
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date/Time Analyzed:	10/4/18 15:17			10/4/18 14:31		10/4/18 14:44					
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	0.638	97.5	0.697	107	8.9	70	130	30.0

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

Reviewed/Approved By: _____ Date 10/10/18
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*

1810186

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 October, 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
10/2/2018	0900	Reservoir Influent Site #3	DW	1W	N/A	7.47	23.7°	3.7	X		X							
10/2/2018	0920	Reservoir Effluent Site #5	DW	1W	N/A	7.79	24.0°	3.56		X	X		X					
10/2/2018	0920	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	10/2/2018 / 16:22	JA CLSB

Comments:

Samples received: X On ice X 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.

24 October 2018 Clinical Lab No.: 18J0898

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

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

Enclosed are the results of the analyses for samples received at the laboratory on 10/09/18 . 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 Oct
Project Manager: Mark Andersen

Work Order: 18J0898
Received: 10/09/18 15:45
Reported: 10/24/18

Raw Water Site #1 **18J0898-01 (Water)** **Sample Date:** 10/09/18 11:40 **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	10/09/18	10/09/18	1841121	
pH (Field)	Field	**7.4**		N/A	pH Units	10/09/18	10/09/18	1841121	
Temperature (Field)	Field	**23.5**		N/A	°C	10/09/18	10/09/18	1841121	
Microbiology Analyses									
Total Coliform	SM 9223	A		N/A	P/A	10/09/18	10/10/18	1841126	
E. Coli	SM 9223	A		N/A	P/A	10/09/18	10/10/18	1841126	
Plate Count	SM9215B	**65**	1	500	CFU/ml	10/09/18	10/11/18	1841171	
General Physical Analyses									
Apparent Color	SM 2120BM	**10.0**	3.0	15	Color Units	10/09/18	10/09/18	1841132	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	**370**	6.6	N/A	mg/L	10/18/18	10/18/18	[CALC]	
Total Filterable Residue/TDS	SM 2540C	**750**	5.0	1000	mg/L	10/10/18	10/11/18	1841044	
Metals									
Calcium (Ca)	EPA 200.7	**99**	1.0	N/A	mg/L	10/18/18	10/18/18	1842103	
Iron (Fe)	EPA 200.7	**220**	100	300	ug/L	10/19/18	10/19/18	1842157	
Magnesium (Mg)	EPA 200.7	**30**	1.0	N/A	mg/L	10/18/18	10/18/18	1842103	
Manganese (Mn)	EPA 200.7	**150**	20	50	ug/L	10/19/18	10/19/18	1842157	

Filter Effluent (Free Chlorine) Site #2 **18J0898-02 (Water)** **Sample Date:** 10/09/18 11:55 **Sampler:** Patrick McCue

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**10.6**		N/A	mg/L	10/09/18	10/09/18	1841121	
pH (Field)	Field	**7.46**		N/A	pH Units	10/09/18	10/09/18	1841121	
Temperature (Field)	Field	**23.2**		N/A	°C	10/09/18	10/09/18	1841121	
Microbiology Analyses									
Total Coliform	SM 9223	A		N/A	P/A	10/09/18	10/10/18	1841126	
E. Coli	SM 9223	A		N/A	P/A	10/09/18	10/10/18	1841126	
Plate Count	SM9215B	ND	1	500	CFU/ml	10/09/18	10/11/18	1841171	

Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

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

Work Order: 18J0898
Received: 10/09/18 15:45
Reported: 10/24/18

Filter Effluent (Total Chlorine) Site #3 **18J0898-03 (Water)** **Sample Date:** 10/09/18 12:00 **Sampler:** Patrick McCue

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**9.8**		N/A	mg/L	10/09/18	10/09/18	1841121	
pH (Field)	Field	**7.6**		N/A	pH Units	10/09/18	10/09/18	1841121	
Temperature (Field)	Field	**23.2**		N/A	°C	10/09/18	10/09/18	1841121	
General Physical Analyses									
Apparent Color	SM 2120BM	**5.0**	3.0	15	Color Units	10/09/18	10/09/18	1841132	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	10/19/18	10/19/18	1842157	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	10/19/18	10/19/18	1842157	

Zone #2 Site #6 **18J0898-04 (Water)** **Sample Date:** 10/09/18 12:05 **Sampler:** Patrick McCue

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**2.15**		N/A	mg/L	10/09/18	10/09/18	1841121	
pH (Field)	Field	**8.3**		N/A	pH Units	10/09/18	10/09/18	1841121	
Temperature (Field)	Field	**22.2**		N/A	°C	10/09/18	10/09/18	1841121	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	**160**	6.6	N/A	mg/L	10/15/18	10/16/18	[CALC]	
Total Filterable Residue/TDS	SM 2540C	**360**	5.0	1000	mg/L	10/10/18	10/11/18	1841044	
Metals									
Calcium (Ca)	EPA 200.7	**37**	1.0	N/A	mg/L	10/15/18	10/16/18	1842026	
Magnesium (Mg)	EPA 200.7	**15**	1.0	N/A	mg/L	10/15/18	10/16/18	1842026	

Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

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

Work Order: 18J0898
Received: 10/09/18 15:45
Reported: 10/24/18

Reservoir Effluent Site #5 **18J0898-05 (Water)** **Sample Date:** 10/09/18 12:10 **Sampler:** Patrick McCue

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**3.44**		N/A	mg/L	10/09/18	10/09/18	1841121	
pH (Field)	Field	**7.86**		N/A	pH Units	10/09/18	10/09/18	1841121	
Temperature (Field)	Field	**22.8**		N/A	°C	10/09/18	10/09/18	1841121	
General Physical Analyses									
Odor Threshold	EPA 140.1-M	**2**	1	3	TON	10/09/18	10/09/18	1841132	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	**250**	6.6	N/A	mg/L	10/15/18	10/16/18	[CALC]	
Total Filterable Residue/TDS	SM 2540C	**580**	5.0	1000	mg/L	10/10/18	10/11/18	1841044	
Metals									
Calcium (Ca)	EPA 200.7	**64**	1.0	N/A	mg/L	10/15/18	10/16/18	1842026	
Magnesium (Mg)	EPA 200.7	**22**	1.0	N/A	mg/L	10/15/18	10/16/18	1842026	

ND Analyte NOT DETECTED at or above the reporting limit

AirTECHNOLOGY
Laboratories, Inc.

October 18, 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: 18J0898
Lab Number: J101105-01/02

Enclosed are results for sample(s) received 10/11/18 by Air Technology Laboratories. Samples were received intact and chilled to 5° 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

18J0898

J101105-01/02

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 [√] 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: Raw Water Site #1 / 18J0898-01 — **Sampled: 10/09/18 11:40 PS Code: Water** — **WTX ID:**	
01	
Methane RSK175	Report in mg/L
Containers Supplied:	
40ml Amber Vial (B) — 40ml Amber Vial (C)	
Sample ID: Reservoir Effluent Site #5 / 18J0898-05 — **Sampled: 10/09/18 12:10 PS Code: Water** — **WTX ID:**	
02	
Methane RSK175	Report in mg/L
Containers Supplied:	
40ml Amber Vial (B) — 40ml Amber Vial (C)	

5°C

Released By	Date / Time	Received By	Date / Time
[signature]	10/11/18 07:40	[signature]	10/11/18 8:00
[signature]	10/11/18 10:36	[signature]	10/11/18 1036

Client:	**Clinical Laboratory**
Attn:	**Stu Styles**
Project Name:	**NA**
Project No.:	**18J0898**
Date Received:	**10/11/18**
Matrix:	**Water**
Reporting Units:	**ug/L**

RSK175

Lab No.:	J101105-01		J101105-02					
Client Sample I.D.:	Raw Water Site #1 / 18J0898-01		Reservoir Effluent Site #5 / 18J0898-05					
Date/Time Sampled:	10/9/18 11:40		10/9/18 12:10					
Date/Time Analyzed:	10/11/18 15:28		10/11/18 15:16					
QC Batch No.:	181011GC8A1		181011GC8A1					
Analyst Initials:	AS		AS					
Dilution Factor:	1.0		1.0					
ANALYTE	**Result ug/L**	**RL ug/L**	**Result ug/L**	**RL ug/L**				
Methane	2,000	1.0	180	1.0				

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

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 10/18/18

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 #: 181011GC8A1

Matrix: Air

Reporting Units: ug/L

RSK175
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date/Time Analyzed:	10/11/18 11:52			10/11/18 11:24		10/11/18 11:37					
Analyst Initials:	AS			AS		AS					
Dilution Factor:	1.0			1.0		1.0					
ANALYTE	Result ug/L	RL ug/L	SPIKE AMT. ug/L	Result ug/L	% Rec.	Result ug/L	% Rec.	RPD	Low %Rec	High %Rec	Max. RPD
Ethene	ND	1.0	1,150	1,060	92.6	1,050	91.6	1.1	70	130	30
Ethane	ND	1.0	1,230	1,200	98.0	1,200	97.6	0.4	70	130	30
Methane	ND	1.0	654	653	99.8	654	99.9	0.2	70	130	30

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

Reviewed/Approved By: _____ Date 10/18/18

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

18J0898

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 Monthly Compliance Samples; 2nd week of October, 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	Hetetrophic Plate Count	Nitrate	Color	Odor	Methane (WATER) (RSK175)	Hardness
10/9/2018	1140	Raw Water Site #1	GW	1W	N/A	23.5°	7.40	Ø	X	X					X			
10/9/2018	1140	Raw Water Site #1	GW	1W	1, 2, 7						X	X	X				X	X
10/9/2018	1155	Filter Effluent (Free Chlorine) Site#2	DW	1W	1,7	23.2°	7.46	10.6			X	X	X					
10/9/2018	1200	Filter Effluent (Total Chlorine) Site#3	DW	1W	N/A	23.2°	7.60	9.8		X					X			
10/9/2018	1205	Zone #2 Site #6	DW	1D	N/A	22.2°	8.30	2.15	X									X
10/9/2018	1210	Reservoir Effluent Site #5	DW	1D	N/A	22.8°	7.86	3.44	X							X		X
10/9/2018	1210	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	10/9/2018 / 1:15	Chris Martinez	Chris Martinez
Chris M		10-9-18 3:45	Jeanette Hernandez	J-A CLSB

Comments:

Samples received: ( ) On ice ( ) Intact ( ) Custody seals Temp 11.4 ( ) 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.

29 October 2018 Clinical Lab No.: 18J1392

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

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

Enclosed are the results of the analyses for samples received at the laboratory on 10/16/18 . 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 October, 2018 Compliance Sampl
Project Manager: Mark Andersen

Work Order: 18J1392
Received: 10/16/18 15:28
Reported: 10/29/18

Reservoir Influent Site #3 **18J1392-01 (Water)** **Sample Date:** 10/16/18 9:45 **Sampler:** P.M.

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**10.7**		N/A	mg/L	10/16/18	10/16/18	1842072	
pH (Field)	Field	**7.92**		N/A	pH Units	10/16/18	10/16/18	1842072	
Temperature (Field)	Field	**22.5**		N/A	°C	10/16/18	10/16/18	1842072	
General Physical Analyses									
Apparent Color	SM 2120BM	**5.0**	3.0	15	Color Units	10/16/18	10/16/18	1842090	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	10/26/18	10/26/18	1843133	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	10/26/18	10/26/18	1843133	

Reservoir Effluent Site #5 **18J1392-02 (Water)** **Sample Date:** 10/16/18 9:55 **Sampler:** P.M.

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**3.76**		N/A	mg/L	10/16/18	10/16/18	1842072	
pH (Field)	Field	**8.21**		N/A	pH Units	10/16/18	10/16/18	1842072	
Temperature (Field)	Field	**22.5**		N/A	°C	10/16/18	10/16/18	1842072	
General Physical Analyses									
Apparent Color	SM 2120BM	ND	3.0	15	Color Units	10/16/18	10/16/18	1842090	
Odor Threshold	EPA 140.1-M	**2**	1	3	TON	10/16/18	10/16/18	1842090	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	**620**	5.0	1000	mg/L	10/17/18	10/18/18	1842071	

ND Analyte NOT DETECTED at or above the reporting limit

Air TECHNOLOGY Laboratories, Inc.

October 25, 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: 18J1392
Lab Number: J101701-01

Enclosed are results for sample(s) received 10/17/18 by Air Technology Laboratories. Samples were received intact and chilled to 7° 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

18J1392

J101701-01

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 / 18J1392-02 **Sampled: 10/16/18 09:55 PS Code: Water** **WTX ID:**	
01	
Methane RSK175	Report in mg/L

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

7°C

BJ Shy	10/17/18 07:30		10/17/18 835
Released By	Date / Time	Received By	Date / Time
	10/17/18 10:00		10/17/18 1000
Released By	Date / Time	Received By	Date / Time

Client:	**Clinical Laboratory**
Attn:	**Stu Styles**
Project Name:	**NA**
Project No.:	**18J1392**
Date Received:	**10/17/18**
Matrix:	**Water**
Reporting Units:	**mg/L**

RSK175

Lab No.:	**J101701-01**							
Client Sample I.D.:	**Reservoir Effluent Site #5/18J1392-02**							
Date/Time Sampled:	**10/16/18 9:55**							
Date/Time Analyzed:	**10/24/18 12:37**							
QC Batch No.:	**181024GC8A1**							
Analyst Initials:	**CM/MJ**							
Dilution Factor:	**1.0**							
ANALYTE	**Result mg/L**	**RL mg/L**						
Ethene	ND	0.0010						
Ethane	0.00026	0.0010						
Methane	0.32	0.0010						

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

Reviewed/Approved By: _____ **Date** 10/25/18

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 #: 181024GC8A1

Matrix: Air

Reporting Units: mg/L

RSK175
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date/Time Analyzed:	10/24/18 11:39			10/24/18 10:59		10/24/18 11:22					
Analyst Initials:	CM/MJ			CM/MJ		CM/MJ					
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
Ethene	ND	0.0010	1.15	1.06	92.6	1.01	87.8	5.3	70	130	30
Ethane	ND	0.0010	1.23	1.19	96.7	1.11	90.2	6.9	70	130	30
Methane	ND	0.0010	0.654	0.599	91.5	0.566	86.4	5.7	70	130	30

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

Reviewed/Approved By: _____ Date 10/25/18
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

10/3/18

18J1392

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 3rd week of October, 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
10/16/2018	0945	Reservoir Influent Site #3	DW	1W	N/A	7.92	22.5°	10.7	X		X							
10/16/2018	0955	Reservoir Effluent Site #5	DW	1W	N/A	8.21	22.5°	3.76		X	X		X					
10/16/2018	0955	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 Mallon	Patrick McCue/ City of Lomita	10/16/2018 /	1:10	Chris Martinez CLSB
[illegible]	CLSB	4	328	

Comments:

Samples received: ( ) On ice (X) Intact ( ) Custody seals Temp 11.9 ( ) 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.

05 November 2018 Clinical Lab No.: 18J2007

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

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

Enclosed are the results of the analyses for samples received at the laboratory on 10/23/18 . 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 4th Week of October, 2018 Compliance Sampl
Project Manager: Mark Andersen

Work Order: 18J2007
Received: 10/23/18 18:30
Reported: 11/05/18

Reservoir Influent Site #3 **18J2007-01 (Water)** **Sample Date:** 10/23/18 10:05 **Sampler:** P.M.

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**11**		N/A	mg/L	10/23/18	10/23/18	1843075	
pH (Field)	Field	**7.94**		N/A	pH Units	10/23/18	10/23/18	1843075	
Temperature (Field)	Field	**22.6**		N/A	°C	10/23/18	10/23/18	1843075	
General Physical Analyses									
Apparent Color	SM 2120BM	**5.0**	3.0	15	Color Units	10/23/18	10/23/18	1843109	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	11/01/18	11/01/18	1844087	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	11/01/18	11/01/18	1844087	

Reservoir Effluent Site #5 **18J2007-02 (Water)** **Sample Date:** 10/23/18 10:25 **Sampler:** P.M.

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**3.45**		N/A	mg/L	10/23/18	10/23/18	1843075	
pH (Field)	Field	**8.18**		N/A	pH Units	10/23/18	10/23/18	1843075	
Temperature (Field)	Field	**21.4**		N/A	°C	10/23/18	10/23/18	1843075	
General Physical Analyses									
Apparent Color	SM 2120BM	ND	3.0	15	Color Units	10/23/18	10/23/18	1843109	
Odor Threshold	EPA 140.1-M	**2**	1	3	TON	10/23/18	10/23/18	1843109	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	**650**	5.0	1000	mg/L	10/25/18	11/01/18	1843106	

ND Analyte NOT DETECTED at or above the reporting limit

Air TECHNOLOGY Laboratories, Inc.

November 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: 18J2007
Lab Number: J102504-01

Enclosed are results for sample(s) received 10/25/18 by Air Technology Laboratories. Samples were received intact and chilled to 5° 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.

J102504-01

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

18J2007

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 / 18J2007-02 **Sampled: 10/23/18 10:25 PS Code: Water** **WTX ID:**	
81	
Methane RSK175	Report in mg/L
Containers Supplied:	
40ml Amber Vial (B) 40ml Amber Vial (C)	

5°C

Released By	Date / Time	Received By	Date / Time
[signature]	10/25/18 02:40	[signature]	10/25/18 8:00
[signature]	10/25/18 10:43	[signature]	10/25/18 1043

Client:	**Clinical Laboratory**
Attn:	**Stu Styles**
Project Name:	**NA**
Project No.:	**18J2007**
Date Received:	**10/25/18**
Matrix:	**Water**
Reporting Units:	**mg/L**

RSK175

Lab No.:	J102504-01									
Client Sample I.D.:	Reservoir Effluent Site #5/18J2007-02									
Date/Time Sampled:	10/23/18 10:25									
Date/Time Analyzed:	10/30/18 15:32									
QC Batch No.:	181030GC8A1									
Analyst Initials:	CM/MJ									
Dilution Factor:	1.0									
ANALYTE	**Result mg/L**	**RL mg/L**								
Methane	0.30	0.0010								

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

Reviewed/Approved By: _____ Date 11/1/18

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 #: 181030GC8A1

Matrix: Air

Reporting Units: mg/L

RSK175
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date/Time Analyzed:	10/30/18 15:14			10/30/18 12:04		10/30/18 12:18					
Analyst Initials:	CM/MJ			CM/MJ		CM/MJ					
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	0.654	0.629	96.1	0.639	97.7	1.6	70	130	30

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

Reviewed/Approved By: Mark Johnson
Operations Manager

Date 11/1/18

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.

18J2007

Chain of Custody

0/3/4

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 4th week of October, 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
10/23/2018	1005	Reservoir Influent Site #3	DW	1W	N/A	7.94	22.6	11.0	X		X							
10/23/2018	1025	Reservoir Effluent Site #5	DW	1W	N/A	8.18	21.4	3.45		X	X		X					
10/23/2018	1025	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 McKee	Patrick McKee City of Lomita	10/23/2018	245	CCSB
[signature]	CCSB	"	630	Bob Glaubig / CCSB

Comments:

Samples received: (✓) On ice (✓) Intact ( ) Custody seals Temp 7 ( ) F ( ) 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 November 2018 Clinical Lab No.: 18K0006

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

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

Enclosed are the results of the analyses for samples received at the laboratory on 10/30/18 . 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 October, 2018 Compliance Sampl
Project Manager: Mark Andersen

Work Order: 18K0006
Received: 10/30/18 16:40
Reported: 11/07/18

Reservoir Influent Site #3 **18K0006-01 (Water)** **Sample Date:** 10/30/18 10:55 **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	10/30/18	10/30/18	1844106	
pH (Field)	Field	**7.53**		N/A	pH Units	10/30/18	10/30/18	1844106	
Temperature (Field)	Field	**22.3**		N/A	°C	10/30/18	10/30/18	1844106	
General Physical Analyses									
Apparent Color	SM 2120BM	**5.0**	3.0	15	Color Units	10/30/18	10/30/18	1844095	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	11/05/18	11/05/18	1845027	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	11/05/18	11/05/18	1845027	

Reservoir Effluent Site #5 **18K0006-02 (Water)** **Sample Date:** 10/30/18 11:10 **Sampler:** P.M.

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**2.86**		N/A	mg/L	10/30/18	10/30/18	1844106	
pH (Field)	Field	**7.72**		N/A	pH Units	10/30/18	10/30/18	1844106	
Temperature (Field)	Field	**21.7**		N/A	°C	10/30/18	10/30/18	1844106	
General Physical Analyses									
Apparent Color	SM 2120BM	ND	3.0	15	Color Units	10/30/18	10/30/18	1844095	
Odor Threshold	EPA 140.1-M	**2**	1	3	TON	10/30/18	10/30/18	1844095	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	**530**	5.0	1000	mg/L	11/05/18	11/07/18	1845025	

ND Analyte NOT DETECTED at or above the reporting limit

AirTECHNOLOGY
Laboratories, Inc.

November 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: 18K0006
Lab Number: J110204-01

Enclosed are results for sample(s) received 11/02/18 by Air Technology Laboratories. Samples were received intact and chilled to 3° 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

18K0006

J110204-01

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 / 18K0006-02 **Sampled: 10/30/18 11:10 PS Code:** **Water** **WTX ID:**	
01	
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
11/01/18 14:30		11/2/18 9:35	
Released By	Date / Time	Received By	Date / Time
11/2/18 11:50		11/2/18 1150	

Client:	**Clinical Laboratory**
Attn:	**Stu Styles**
Project Name:	**NA**
Project No.:	**18K0006**
Date Received:	**11/02/18**
Matrix:	**Water**
Reporting Units:	**mg/L**

RSK175

Lab No.:	J110204-01									
Client Sample I.D.:	Reservoir Effluent Site #5 / 18K0006-02									
Date/Time Sampled:	10/30/18 11:10									
Date/Time Analyzed:	11/7/18 13:06									
QC Batch No.:	181107GC8A1									
Analyst Initials:	CM/MJ									
Dilution Factor:	1.0									
ANALYTE	**Result mg/L**	**RL mg/L**								
Methane	0.29	0.0010								

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

Reviewed/Approved By: _____ **Date** 11/8/18

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 #: 181107GC8A1

Matrix: Air

Reporting Units: mg/L

RSK175
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date/Time Analyzed:	11/7/18 12:19			11/7/18 10:41		11/7/18 10:56					
Analyst Initials:	CM/MJ			CM/MJ		CM/MJ					
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	0.654	0.610	93.3	0.618	94.4	1.2	70	130	30

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

Reviewed/Approved By: MMall. 1 Date 11/8/18

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.

18K0056 *Chain of Custody*

0/3/4

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 October, 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 (1)	Total Dissolved Solids (1)	Color (1)	Methane (Water) (RSK175) (1)	Odor (1)					Comments / P.S. Codes
10/30/2018	1055	Reservoir Influent Site #3	DW	1W	N/A	7.53	22.3°	9.2	X		X							
10/30/2018	1110	Reservoir Effluent Site #5	DW	1W	N/A	7.72	21.7°	2.86		X	X		X					
10/30/2018	1110	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	10/30/2018	1844	CLSB
	CLSB		1440	

Comments:

Samples received: (√) On ice (√) Intact ( ) Custody seals Temp 5 ( ) F ( ) C

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

Clinical Laboratory of San Bernardino, Inc.

19 October 2018 Clinical Lab No.: 18J0818

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

Project Name: Standard Analysis
Sub Project: Lomita Distribution Ortho, 2nd Week October 2018

Enclosed are the results of the analyses for samples received at the laboratory on 10/09/18 . 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, 2nd Week October 2018
Project Manager: Mark Andersen

Work Order: 18J0818
Received: 10/09/18 15:45
Reported: 10/19/18

1948 252nd St. **18J0818-01 (Water)** **Sample Date:** 10/09/18 9:15 **Sampler:** Not Listed

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**2.2**		N/A	mg/L	10/09/18	10/09/18	1841113	
pH (Field)	Field	**8.22**		N/A	pH Units	10/09/18	10/09/18	1841113	
Temperature (Field)	Field	**22.4**		N/A	°C	10/09/18	10/09/18	1841113	
General Chemical Analyses									
Ortho-Phosphate (PO4)	HACH 8048	**0.16**	0.020	N/A	mg/L	10/10/18	10/10/18	1841133	
Phosphorus (Total as P)	HACH 8190	**0.11**	0.0067	N/A	mg/L	10/12/18	10/12/18	1841199	

24632 S. Moon **18J0818-02 (Water)** **Sample Date:** 10/09/18 9:45 **Sampler:** Not Listed

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**1.8**		N/A	mg/L	10/09/18	10/09/18	1841113	
pH (Field)	Field	**8.09**		N/A	pH Units	10/09/18	10/09/18	1841113	
Temperature (Field)	Field	**23.7**		N/A	°C	10/09/18	10/09/18	1841113	
General Chemical Analyses									
Ortho-Phosphate (PO4)	HACH 8048	**0.19**	0.020	N/A	mg/L	10/10/18	10/10/18	1841133	
Phosphorus (Total as P)	HACH 8190	**0.13**	0.0067	N/A	mg/L	10/12/18	10/12/18	1841199	

2450 W. 247th St. **18J0818-03 (Water)** **Sample Date:** 10/09/18 10:40 **Sampler:** Not Listed

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**0.37**		N/A	mg/L	10/09/18	10/09/18	1841113	
pH (Field)	Field	**8.01**		N/A	pH Units	10/09/18	10/09/18	1841113	
Temperature (Field)	Field	**24.6**		N/A	°C	10/09/18	10/09/18	1841113	
General Chemical Analyses									
Ortho-Phosphate (PO4)	HACH 8048	**0.075**	0.020	N/A	mg/L	10/10/18	10/10/18	1841133	
Phosphorus (Total as P)	HACH 8190	**0.062**	0.0067	N/A	mg/L	10/12/18	10/12/18	1841199	

Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: Lomita Distribution Ortho, 2nd Week October 2018
Project Manager: Mark Andersen

Work Order: 18J0818
Received: 10/09/18 15:45
Reported: 10/19/18

2052 Dawn St. **18J0818-04 (Water)** **Sample Date:** 10/09/18 9:25 **Sampler:** Not Listed

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**2.7**		N/A	mg/L	10/09/18	10/09/18	1841113	
pH (Field)	Field	**8.27**		N/A	pH Units	10/09/18	10/09/18	1841113	
Temperature (Field)	Field	**22.9**		N/A	°C	10/09/18	10/09/18	1841113	
General Chemical Analyses									
Ortho-Phosphate (PO4)	HACH 8048	**0.098**	0.020	N/A	mg/L	10/10/18	10/10/18	1841133	
Phosphorus (Total as P)	HACH 8190	**0.043**	0.0067	N/A	mg/L	10/12/18	10/12/18	1841199	

CWPF SP5 **18J0818-05 (Water)** **Sample Date:** 10/09/18 12:10 **Sampler:** Not Listed

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**3.44**		N/A	mg/L	10/09/18	10/09/18	1841113	
pH (Field)	Field	**7.86**		N/A	pH Units	10/09/18	10/09/18	1841113	
Temperature (Field)	Field	**22.8**		N/A	°C	10/09/18	10/09/18	1841113	
General Chemical Analyses									
Ortho-Phosphate (PO4)	HACH 8048	**0.57**	0.020	N/A	mg/L	10/10/18	10/10/18	1841133	
Phosphorus (Total as P)	HACH 8190	**0.39**	0.0067	N/A	mg/L	10/12/18	10/12/18	1841199	

ND Analyte NOT DETECTED at or above the reporting limit

Clinical Laboratory of San Bernardino, Inc.

Chain of Custody

18J0818

Client	*City of Lomita*	System Number	Analysis Requested
Address	24373 Walnut Avenue Lomita, CA 91717	**1910073**	
Phone #	(310) 903-2243	*Destination Laboratory*	
Fax #	(310) 325-3627	[X] Clinical Laboratory	
Project	*Standard Analysis*	*RWQCB Compliance*	
Sub Project	*Lomita Distribution Ortho, 2nd Week October, 2018*	*No* ELAP #	
Comments		**1088**	
Sampled by			

Date	Time	Sample Idenitification	Matrix	Type	Preserv	Bottle Number	Temp.	Total Chlorine	pH	ORTHO PHOSPHATE (o-PO4)	TOTAL PHOSPHATE (PO4)				Comments / P.S. Codes
10/9/2018	0915	1948 252ND ST.	DW	D1	N/A	3	22.4°	2.7	8.22	X	X				
10/9/2018	0915	24632 S. MOON	DW	D1	N/A	4	23.7°	1.8	8.09	X	X				
10/9/2018	1040	2450 W. 247th ST.	DW	D1	N/A	6	24.6°	0.37	8.01	X	X				
10/9/2018	0925	2052 DAWN ST.	DW	D1	N/A	7	22.9°	2.7	8.27	X	X				
10/9/2018	1210	CWPF SP5	DW	D1	N/A	8	22.8°	3.44	7.86	x	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*	*Received By (Sign)*	*Print Name / Company*
Patrick McCue	Patrick McCue/City of Lomita	10/9/2018 / 1:15	Chris M	Chris Martinez
Chris M		10-9-18 5:45	Jeanette Hernandez	SAWCCB

Samples received: ( ) On ice ( ) Intact ( ) Custody seals Temp 11.4 ( )
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

OCTOBER 2018				
DATE	**DAY**	**METHANE HANDHELD**		**COMMENTS**
10/1/2018	Mon	CH_4- 0%	Oxy- 20.8%	
10/2/2018	Tue	CH_4- 0%	Oxy- 20.3%	
10/3/2018	Wed	CH_4- 0%	Oxy- 20.9%	Offline
10/4/2018	Thu	CH_4-	Oxy-	Offline
10/5/2018	Fri	CH_4-	Oxy-	Offline
10/6/2018	Sat	CH_4-	Oxy-	Offline
10/7/2018	Sun	CH_4-	Oxy-	Offline
10/8/2018	Mon	CH4-	Oxy-	Offline
10/9/2018	Tue	CH_4-	Oxy-	
10/10/2018	Wed	CH_4- 0%	Oxy- 20.6%	
10/11/2018	Thu	CH_4- 0%	Oxy- 20.9%	
10/12/2018	Fri	CH_4-	Oxy-	
10/13/2018	Sat	CH_4-	Oxy-	
10/14/2018	Sun	CH_4-	Oxy-	
10/15/2018	Mon	CH_4- 0%	Oxy- 20.6%	
10/16/2018	Tue	CH_4- 0%	Oxy- 20.9%	
10/17/2018	Wed	CH_4- 0%	Oxy- 20.7%	
10/18/2018	Thu	CH_4- 0%	Oxy- 20.9%	
10/19/2018	Fri	CH_4-	Oxy-	
10/20/2018	Sat	CH_4-	Oxy-	
10/21/2018	Sun	CH_4-	Oxy-	
10/22/2018	Mon	CH_4- 0%	Oxy- 20.9%	
10/23/2018	Tue	CH_4- 0%	Oxy- 20.8%	
10/24/2018	Wed	CH_4-	Oxy-	
10/25/2018	Thu	CH_4- 0%	Oxy- 20.6%	
10/26/2018	Fri	CH_4- 0%	Oxy- 20.9%	
10/27/2018	Sat	CH_4-	Oxy-	
10/28/2018	Sun	CH_4-	Oxy-	
10/29/2018	Mon	CH_4- 0%	Oxy- 20.7%	
10/30/2018	Tue	CH_4- 2%	Oxy- 20.8%	
10/31/2018	Wed	CH_4- 4%	Oxy- 20.8%	

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: **October 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	10/2/2018	24.7	7.75	3.50	0.06	0.66	0.07	0.010	ND	A	ND	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	10/2/2018	24.0	7.67	3.20	0.06	0.62	0.15	0.022	ND	A	3	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	10/2/2018	24.5	7.72	3.70	0.05	0.66	0.03	0.011	ND	A	ND	1	Well/MWD Blend
4	D	A	2052 Dawn St	10/2/2018	24.7	7.55	0.98	0.05	0.31	0.14	0.129	ND	A	100	1	Well/MWD Blend
5	D		Reservoir SP5	10/2/2018	24.0	7.79	3.56	0.06	0.82	0.09	0.005	ND	A	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	10/2/2018	24.7	8.21	2.20	0.05	0.47	0.09	0.008	ND	A	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	10/2/2018	24.6	8.21	2.30	0.04	0.48	0.03	0.005	ND	A	ND	3	MWD Only
8	D	S13-005	2500 PCH	10/2/2018	24.6	8.16	2.00	0.05	0.47	0.08	0.024	ND	A	ND	2	MWD Only
1	D	S13-003	1948 W 252nd St	10/9/2018	22.4	8.22	2.20	0.07	0.46	0.07	0.009	ND	A	ND	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	10/9/2018	23.7	8.09	1.80	0.06	0.22	0.14	0.025	ND	A	8	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	10/9/2018	24.1	7.79	3.30	0.06	0.51	0.10	0.016	ND	A	ND	1	Well/MWD Blend
4	D	A	2052 Dawn St	10/9/2018	22.9	8.27	2.70	0.06	0.42	0.10	0.012	ND	A	6	1	Well/MWD Blend
5	D		Reservoir SP5	10/9/2018	22.8	7.86	3.14	0.07	0.70	0.00	0.009	ND	A	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	10/9/2018	21.6	8.27	2.50	0.05	0.46	0.03	0.010	ND	A	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	10/9/2018	20.6	8.26	2.40	0.08	0.48	0.00	0.009	ND	A	ND	3	MWD Only
8	D	S13-005	2500 PCH	10/9/2018	22.8	8.25	2.20	0.05	0.53	0.00	0.013	ND	A	ND	2	MWD Only
1	D	S13-003	1948 W 252nd St	10/16/2018	21.6	8.18	3.30	0.01	0.59	0.06	0.009	ND	A	ND	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	10/16/2018	22.2	8.16	3.50	0.01	0.55	0.08	0.008	ND	A	ND	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	10/16/2018	23.2	8.18	3.80	0.03	0.59	0.06	0.008	ND	A	ND	1	Well/MWD Blend
4	D	A	2052 Dawn St	10/16/2018	22.5	8.12	1.93	0.01	0.51	0.15	0.008	ND	A	130	1	Well/MWD Blend
5	D		Reservoir SP5	10/16/2018	22.5	8.21	3.76	0.04	0.64	0.04	0.009	ND	A	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	10/16/2018	22.1	8.56	2.20	0.02	0.45	0.10	0.014	ND	A	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	10/16/2018	21.5	8.57	2.40	0.01	0.45	0.08	0.012	ND	A	ND	3	MWD Only
8	D	S13-005	2500 PCH	10/16/2018	22.9	8.57	2.30	0.16	0.44	0.05	0.022	ND	A	ND	2	MWD Only
1	D	S13-003	1948 W 252nd St	10/23/2018	22.3	8.22	3.00	0.05	0.52	0.00	0.006	ND	A	ND	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	10/23/2018	22.1	8.14	3.30	0.06	0.52	0.05	0.006	ND	A	1	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	10/23/2018	22.4	8.16	3.60	0.07	0.57	0.03	0.006	ND	A	ND	1	Well/MWD Blend
4	D	A	2052 Dawn St	10/23/2018	22.2	8.13	1.89	0.05	0.45	0.16	0.003	ND	A	90	1	Well/MWD Blend
5	D		Reservoir SP5	10/23/2018	21.4	8.18	3.45	0.04	0.60	0.02	0.006	ND	A	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	10/23/2018	21.4	8.51	1.90	0.09	0.33	0.05	0.010	ND	A	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	10/23/2018	20.7	8.46	2.10	0.10	0.39	0.06	0.009	ND	A	ND	3	MWD Only
8	D	S13-005	2500 PCH	10/23/2018	21.5	8.44	2.00	0.06	0.40	0.08	0.012	ND	A	ND	2	MWD Only
1	D	S13-003	1948 W 252nd St	10/30/2018	21.8	7.73	3.00	0.06	0.47	0.05	0.001	ND	A	ND	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	10/30/2018	22.8	7.68	2.60	0.06	0.39	0.00	0.006	ND	A	4	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	10/30/2018	22.7	7.69	3.00	0.06	0.42	0.00	0.008	ND	A	2	1	Well/MWD Blend
4	D	A	2052 Dawn St	10/30/2018	22.6	7.66	1.82	0.07	0.39	0.15	0.008	ND	A	140	1	Well/MWD Blend
5	D		Reservoir	10/30/2018	21.7	7.72	2.86	0.09	0.43	0.00	0.003	ND	A	1	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	10/30/2018	20.6	8.11	2.20	0.07	0.44	0.03	0.017	ND	A	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	10/30/2018	19.7	8.14	2.20	0.09	0.43	0.02	0.009	ND	A	ND	3	MWD Only
8	D	S13-005	2500 PCH	10/30/2018	21.9	8.09	2.70	0.04	0.39	0.00	0.024	ND	A	1	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.