

CITY OF LOMITA



# Cypress Water Production Facility Monthly Status Report

---

January 2019

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**CITY COUNCIL**

HENRY SANCHEZ, JR  
JIM GAZELEY  
MICHAEL SAVIDAN  
CINDY SEGAWA  
MARK WARONEK



**ADMINISTRATION**

RYAN SMOOT  
CITY MANAGER

February 11, 2019

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 January 1 through January 31, 2019.

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 January 2019.

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 January 2019 maintaining water levels inside the reservoir ranging from 7 feet to 10 feet. The average flow from Well No. 5 was 365 gpm and 542 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 January 2019.

Table 1. Monthly Production Totals.

	Production for January 2019	
Well No. 5	38.19 ac-ft	12,444,244 (gallons)
MWD	56.85 ac-ft	18,524,000 (gallons)
Combined Total	95.04 ac-ft	30,968,244 (gallons)
Daily	3.07 ac-ft/day	998,976 (gallons/day)

## C. OPERATIONAL INTERRUPTIONS

There were no operational interruptions during the month of January 2019. Routine and preventive maintenance was performed on various pieces of equipment as-needed. No major planned operational interruptions are anticipated for the following month. During this month, maintenance was performed on the SolarBee mixers.

## 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. It is noted in this report that breakthrough for Iron and Manganese occurred during the second week of the month. We believe we to have overcome this, as the results show ND for the third, fourth and fifth week of the month. We will continue to monitor this closely.

### **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 682 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 810 mg/L and 610 mg/L, respectively.

#### **E3-2 HARDNESS**

The sampling results for the month indicate the hardness levels of the blended water to be on average 360 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 0.30 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 January 2019 in Appendix B.

### **E3-5 ODOR**

The odor levels at the CWPF effluent averaged 2.0 units for the month. Odors levels within the distribution system averaged 1.3 units for the month.

### **E3-6 TOTAL PHOSPHATE AND ORTHOPHOSPHATE**

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 January 2019 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
1/3/2019											ND	300	ND	50	5	15
1/8/2019	180	300	150	50	15	15	A	ND	ND	500	470	300	80	50	15	15
1/15/2019											ND	300	ND	50	5	15
1/22/2019											ND	300	ND	50	5	15
1/30/2019											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 <sub>3</sub>	Free Cl	Total Cl	Total NH <sub>3</sub>	Free Cl	Total Cl	Total NH <sub>3</sub>
1/3/2019	7.61	0.80	3.90	0.70	0.65	3.60	0.52	0.05	2.83	0.51
1/8/2019	9.90	1.50	8.60	0.69	0.70	5.40	0.68	0.13	2.90	0.49
1/15/2019	-	-	-	-	-	-	-	0.06	3.03	0.58
1/22/2019	10.80	1.50	9.20	0.72	0.60	6.00	0.62	0.09	3.18	0.51
1/30/2019	-	-	-	-	-	-	-	0.05	2.81	0.51

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
1/3/2019			650	500-750	2	3						0.35
1/8/2019	810	610	700	500-750	2	3	370	260	360	180-250	3.0	0.32
1/15/2019			700	500-750	2	3						0.29
1/22/2019			700	500-750	2	3						0.21
1/30/2019			660	500-750	2	3						0.33
Average			682	500-750	2	3						0.30

**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 CaCO<sub>3</sub>  
 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 252 <sup>nd</sup> St	1/8/19	0.45	0.57
24632 S Moon Ave		0.44	0.56
2450 W 247 <sup>th</sup> St		0.47	0.54
2052 Dawn St		0.46	0.56
CWPF SP5		0.43	-

**Notes:**

Monthly- Orange;  
 mg/L – milligram per liter



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

Notes: <sup>1</sup>Self-Imposed (SI) Goals: TDS Goal-500-750 ppm; Hardness as CaCO<sub>3</sub> Goal-180-250 ppm.

\*\*\*This Report is due to DDW by the 10<sup>th</sup> of the following month.

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

## **APPENDIX A**

### LABORATORY RESULTS

# *Clinical Laboratory of San Bernardino, Inc.*



15 January 2019

Clinical Lab No.: 19A0293

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

Project Name: Standard Analysis  
Sub Project: CWPF 1st Week of January, 2019 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 01/03/19 . Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

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

Stu Styles  
Client Services Manager

# Clinical Laboratory of San Bernardino, Inc.



**Lomita, City of**  
24373 Walnut Avenue  
Lomita CA, 91717

Project: Standard Analysis  
Sub Project: CWPf 1st Week of January, 2019 Compliance Sampling  
Project Manager: Mark Andersen

Work Order: 19A0293  
Received: 01/03/19 16:15  
Reported: 01/15/19

**Reservoir Influent Site #3** **19A0293-01 (Water)** **Sample Date:** 01/03/19 9:10 **Sampler:** P.M.

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

<b>Cl Res Total (Field)</b>	Field	<b>6.8</b>		N/A	mg/L	01/03/19	01/03/19	1902147	
<b>pH (Field)</b>	Field	<b>7.57</b>		N/A	pH Units	01/03/19	01/03/19	1902147	
<b>Temperature (Field)</b>	Field	<b>19.5</b>		N/A	°C	01/03/19	01/03/19	1902147	

## General Physical Analyses

<b>Apparent Color</b>	SM 2120BM	<b>5.0</b>	3.0	15	Color Units	01/03/19	01/03/19	1901129	
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## Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	01/09/19	01/09/19	1902142	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	01/09/19	01/09/19	1902142	

**Reservoir Effluent Site #5** **19A0293-02 (Water)** **Sample Date:** 01/03/19 9:45 **Sampler:** P.M.

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

<b>Cl Res Total (Field)</b>	Field	<b>2.84</b>		N/A	mg/L	01/03/19	01/03/19	1902147	
<b>pH (Field)</b>	Field	<b>7.92</b>		N/A	pH Units	01/03/19	01/03/19	1902147	
<b>Temperature (Field)</b>	Field	<b>16.6</b>		N/A	°C	01/03/19	01/03/19	1902147	

## General Physical Analyses

<b>Apparent Color</b>	SM 2120BM	ND	3.0	15	Color Units	01/03/19	01/03/19	1901129	
<b>Odor Threshold</b>	EPA 140.1-M	<b>2</b>	1	3	TON	01/03/19	01/03/19	1901129	

## General Chemical Analyses

<b>Total Filterable Residue/TDS</b>	SM 2540C	<b>650</b>	5.0	1000	mg/L	01/04/19	01/10/19	1901102	
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ND Analyte NOT DETECTED at or above the reporting limit





January 11, 2019

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



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

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

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

### LABORATORY TEST RESULTS

Project Reference: 19A0293  
Lab Number: K010402-01

Enclosed are results for sample(s) received 1/04/19 by Air Technology Laboratories. Samples were received intact and chilled to 4° 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,

A handwritten signature in blue ink, appearing to read "MJohnson", followed by a small number "1" to the right.

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**  
**19A0293**

K010402-01

**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 [x] styles@clinical-lab.com [ ] bernstein@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:

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

19A0293

**Analysis****Comments****Sample ID: Reservoir Effluent Site #5 / 19A0293-02****Sampled: 01/03/19 09:45 PS Code:****Water****WTX ID:**

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (B)

40ml Amber Vial (C)

Air Technology Labs

City of Industry, CA 91748

Phone: (626) 964-4032

Fax:

Water

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

Client: Clinical Laboratory  
Attn: Stu Styles  
Project Name: NA  
Project No.: 19A0293  
Date Received: 01/04/19  
Matrix: Water  
Reporting Units: mg/L

RSK175

Lab No.:	K010402-01						
Client Sample I.D.:	Reservoir Effluent Site #5 / 19A0293- 02						
Date/Time Sampled:	1/3/19 9:45						
Date/Time Analyzed:	1/7/19 11:18						
QC Batch No.:	190107GC8A1						
Analyst Initials:	CM/MJ						
Dilution Factor:	1.0						
ANALYTE	Result mg/L	RL mg/L					
Methane	0.35	0.0010					

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

Reviewed/Approved By: Mark Johnson  
Mark Johnson  
Operations Manager

Date 1/11/19

The cover letter is an integral part of this analytical report



## LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 190107GC8A1

Matrix: Air

Reporting Units: mg/L

RSK175  
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date/Time Analyzed:	1/7/19 10:16			1/7/19 9:47		1/7/19 10:02					
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	0.619	94.6	0.648	99.0	4.6	70	130	30

ND= Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson  
Operations ManagerDate 1/11/19

The cover letter is an integral part of this analytical report



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[illegible]

# *Clinical Laboratory of San Bernardino, Inc.*



21 January 2019

Clinical Lab No.: 19A0749

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

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

Enclosed are the results of the analyses for samples received at the laboratory on 01/08/19 . Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

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

Stu Styles  
Client Services Manager



# Clinical Laboratory of San Bernardino, Inc.



**Lomita, City of**  
24373 Walnut Avenue  
Lomita CA, 91717

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

Work Order: 19A0749  
Received: 01/08/19 17:57  
Reported: 01/21/19

**Raw Water Site #1** **19A0749-01 (Water)** **Sample Date:** 01/08/19 10:30 **Sampler:** Patrick McCue

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

Cl Res Total (Field)	Field	0		N/A	mg/L	01/08/19	01/08/19	1902181	
pH (Field)	Field	7.58		N/A	pH Units	01/08/19	01/08/19	1902181	
Temperature (Field)	Field	20.9		N/A	°C	01/08/19	01/08/19	1902181	

## Microbiology Analyses

Total Coliform	SM 9223	A		N/A	P/A	01/08/19	01/09/19	1902162	
E. Coli	SM 9223	A		N/A	P/A	01/08/19	01/09/19	1902162	
Plate Count	SM9215B	37	1	500	CFU/ml	01/08/19	01/10/19	1902198	HT-08

## General Physical Analyses

Apparent Color	SM 2120BM	15.0	3.0	15	Color Units	01/08/19	01/08/19	1902176	
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## General Chemical Analyses

Hardness, Total (as CaCO <sub>3</sub> )	Calculated	370	6.6	N/A	mg/L	01/17/19	01/17/19	[CALC]	
Total Filterable Residue/TDS	SM 2540C	810	5.0	1000	mg/L	01/15/19	01/18/19	1903060	

## Metals

Calcium (Ca)	EPA 200.7	100	1.0	N/A	mg/L	01/17/19	01/17/19	1903108	
Iron (Fe)	EPA 200.7	180	100	300	ug/L	01/18/19	01/18/19	1903136	
Magnesium (Mg)	EPA 200.7	29	1.0	N/A	mg/L	01/17/19	01/17/19	1903108	
Manganese (Mn)	EPA 200.7	150	20	50	ug/L	01/18/19	01/18/19	1903136	

**Filter Effluent (Free Chlorine) Site #2** **19A0749-02 (Water)** **Sample Date:** 01/08/19 10:40 **Sampler:** Patrick McCue

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

Cl Res Total (Field)	Field	14		N/A	mg/L	01/08/19	01/08/19	1902181	
pH (Field)	Field	7.54		N/A	pH Units	01/08/19	01/08/19	1902181	
Temperature (Field)	Field	21.9		N/A	°C	01/08/19	01/08/19	1902181	

## Microbiology Analyses

Total Coliform	SM 9223	A		N/A	P/A	01/08/19	01/09/19	1902162	
E. Coli	SM 9223	A		N/A	P/A	01/08/19	01/09/19	1902162	
Plate Count	SM9215B	ND	1	500	CFU/ml	01/08/19	01/10/19	1902198	HT-08

# Clinical Laboratory of San Bernardino, Inc.



**Lomita, City of**  
24373 Walnut Avenue  
Lomita CA, 91717

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

Work Order: 19A0749  
Received: 01/08/19 17:57  
Reported: 01/21/19

## Filter Effluent (Total Chlorine) Site #3

19A0749-03 (Water)

Sample Date: 01/08/19 10:43 Sampler: Patrick McCue

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

Cl Res Total (Field)	Field	13.1		N/A	mg/L	01/08/19	01/08/19	1902181	
pH (Field)	Field	7.55		N/A	pH Units	01/08/19	01/08/19	1902181	
Temperature (Field)	Field	21.9		N/A	°C	01/08/19	01/08/19	1902181	

### General Physical Analyses

Apparent Color	SM 2120BM	15.0	3.0	15	Color Units	01/08/19	01/08/19	1902176	
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### Metals

Iron (Fe)	EPA 200.7	470	100	300	ug/L	01/18/19	01/18/19	1903136	
Manganese (Mn)	EPA 200.7	80	20	50	ug/L	01/18/19	01/18/19	1903136	

## Zone #2 Site #6

19A0749-04 (Water)

Sample Date: 01/08/19 10:45 Sampler: Patrick McCue

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

Cl Res Total (Field)	Field	2.09		N/A	mg/L	01/08/19	01/08/19	1902181	
pH (Field)	Field	8.19		N/A	pH Units	01/08/19	01/08/19	1902181	
Temperature (Field)	Field	17.4		N/A	°C	01/08/19	01/08/19	1902181	

### General Chemical Analyses

Hardness, Total (as CaCO3)	Calculated	260	6.6	N/A	mg/L	01/17/19	01/17/19	[CALC]	
Total Filterable Residue/TDS	SM 2540C	610	5.0	1000	mg/L	01/15/19	01/18/19	1903060	

### Metals

Calcium (Ca)	EPA 200.7	67	1.0	N/A	mg/L	01/17/19	01/17/19	1903108	
Magnesium (Mg)	EPA 200.7	24	1.0	N/A	mg/L	01/17/19	01/17/19	1903108	

## Reservoir Effluent Site #5

19A0749-05 (Water)

Sample Date: 01/08/19 10:47 Sampler: Patrick McCue

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

Cl Res Total (Field)	Field	2.73		N/A	mg/L	01/08/19	01/08/19	1902181	
pH (Field)	Field	7.88		N/A	pH Units	01/08/19	01/08/19	1902181	
Temperature (Field)	Field	18		N/A	°C	01/08/19	01/08/19	1902181	

### General Physical Analyses

Odor Threshold	EPA 140.1-M	2	1	3	TON	01/08/19	01/08/19	1902176	
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### General Chemical Analyses

Total Filterable Residue/TDS	SM 2540C	700	5.0	1000	mg/L	01/15/19	01/18/19	1903060	
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# Clinical Laboratory of San Bernardino, Inc.



**Lomita, City of**  
24373 Walnut Avenue  
Lomita CA, 91717

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

Work Order: 19A0749  
Received: 01/08/19 17:57  
Reported: 01/21/19

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



January 17, 2019

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



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

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

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

### LABORATORY TEST RESULTS

Project Reference: 19A0749  
Lab Number: K011003-01/02

Enclosed are results for sample(s) received 1/10/19 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,

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

Mark Johnson  
Operations Manager  
MJohnson@AirTechLabs.com

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

## SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

19A0749

K011003-01/02

**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 [ ] bernstein@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:

50C

**Analysis****Comments**

-01 Sample ID: Raw Water Site #1 / 19A0749-01

Sampled: 01/08/19 10:30 PS Code:  
Water

WTX ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (A)

40ml Amber Vial (B)

-02 Sample ID: Reservoir Effluent Site #5 / 19A0749-05

Sampled: 01/08/19 10:47 PS Code:  
Water

WTX ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (B)

40ml Amber Vial (C)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

**Client:** Clinical Laboratory  
**Attn:** Stu Styles  
**Project Name:** NA  
**Project No.:** 19A0749  
**Date Received:** 01/10/19  
**Matrix:** Water  
**Reporting Units:** mg/L

**RSK175**

Lab No.:	K011003-01	K011003-02		
Client Sample I.D.:	Raw Water Site #1 / 19A0749-01	Reservoir Effluent Site #5 / 19A0749-05		
Date/Time Sampled:	1/8/19 10:30	1/8/19 10:47		
Date/Time Analyzed:	1/14/19 10:21	1/14/19 10:37		
QC Batch No.:	190114GC8A1	190114GC8A1		
Analyst Initials:	CM/MJ	CM/MJ		
Dilution Factor:	1.0	1.0		
ANALYTE	Result mg/L	RL mg/L	Result mg/L	RL mg/L
Methane	3.0	0.0010	0.32	0.0010

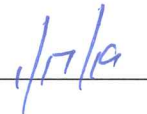
ND= Not Detected (below MDL)

RL = Reporting Limit

Reviewed/Approved By: \_\_\_\_\_

  
Mark Johnson  
Operations Manager

Date \_\_\_\_\_



The cover letter is an integral part of this analytical report



## LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 190114GC8A1

Matrix: Air

Reporting Units: mg/L

RSK175 LABORATORY CONTROL SAMPLE SUMMARY											
Lab No.:		METHOD BLANK		LCS		LCSD					
Date/Time Analyzed:		1/14/19 9:54		1/14/19 9:27		1/14/19 9:41					
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	0.654	100.0	0.655	100	0.1	70	130	30

ND= Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: \_\_\_\_\_

Mark Johnson  
Operations Manager

Date \_\_\_\_\_

The cover letter is an integral part of this analytical report



2/3/11

Client		City of Lomita		System Number		Analysis Requested											
Address		24373 Walnut Avenue		1910073													
Phone #		Lomita, CA 91717		Destination Laboratory													
Fax #		(310)903-2243		[X] Clinical Laboratory													
Project		Standard Analysis		RWQCB Compliance													
Sub Project		CWP/ Monthly Compliance Samples; 2nd week of Jan., 2019		YES													
Comments				ELAP #													
Sampled by		Patrick McCue		1088													
Date	Time	Sample Identification	Matrix	Type	Preserv	Temp.	pH	Total Chlorine	Total Dissolved Solids	Iron & Manganese	Total Coliform / E. Coli P-A / HPC	Hardness	Methane (Water) (RSK175)	Nitrate	Color	Odor	
1/8/2019	1030	Raw Water Site #1	GW	IW	N/A	20.9°	7.58	0	X	X					X		
1/8/2019	1030	Raw Water Site #1	GW	IW	1, 2, 7	20.9°	7.58	0			X	X	X				
1/8/2019	1040	Filter Effluent (Free Chlorine) Site#2	DW	IW	1, 7	21.9°	7.54	14.0			X						
1/8/2019	1043	Filter Effluent (Total Chlorine) Site#3	DW	IW	N/A	21.9°	7.55	13.1		X					X		
1/8/2019	1045	Zone #2 Site #6	DW	ID	N/A	17.4°	8.19	2.09	X								
1/8/2019	1047	Reservoir Effluent Site #5	DW	ID	N/A	18.0°	7.88	2.73	X						X		
1/8/2019	1047	Reservoir Effluent Site #5	DW	ID	2, 7								X				
Preservatives: (1) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (2) HCl (3) HNO <sub>3</sub> (4) NH <sub>4</sub> Cl (5) H <sub>2</sub> SO <sub>4</sub> (6) Na <sub>2</sub> SO <sub>3</sub> (7) Cold (8) Other:		Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW-Ground Water, A-Air															
Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company									
Patrick McQuinn		Patrick McCue / City of Lomita		1/8/2019		[Signature]		[Signature]									
[Signature]		[Signature]		557		[Signature]		[Signature]									
Comments:						Samples received: (X) On ice ( ) Contact ( ) Custody seals Temp 8.6 ( ) F ( ) C											
Shipped Via		Fed X		Golden State		UPS		Client		Other		Page 1 of 1					

# *Clinical Laboratory of San Bernardino, Inc.*



25 January 2019

Clinical Lab No.: 19A1368

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

Project Name: Standard Analysis  
Sub Project: CWPF 3rd Week of January, 2019 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 01/15/19 . Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

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

Stu Styles  
Client Services Manager



# Clinical Laboratory of San Bernardino, Inc.



**Lomita, City of**  
24373 Walnut Avenue  
Lomita CA, 91717

Project: Standard Analysis  
Sub Project: CWPf 3rd Week of January, 2019 Compliance Sampling  
Project Manager: Mark Andersen

Work Order: 19A1368  
Received: 01/15/19 19:00  
Reported: 01/25/19

**Reservoir Influent Site #3** **19A1368-01 (Water)** **Sample Date:** 01/15/19 7:45 **Sampler:** P.M.

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

<b>Cl Res Total (Field)</b>	Field	<b>8.2</b>		N/A	mg/L	01/15/19	01/15/19	1903083	
<b>pH (Field)</b>	Field	<b>7.59</b>		N/A	pH Units	01/15/19	01/15/19	1903083	
<b>Temperature (Field)</b>	Field	<b>18.9</b>		N/A	°C	01/15/19	01/15/19	1903083	

## General Physical Analyses

<b>Apparent Color</b>	SM 2120BM	<b>5.0</b>	3.0	15	Color Units	01/15/19	01/15/19	1903094	
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## Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	01/22/19	01/22/19	1904040	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	01/22/19	01/22/19	1904040	

**Reservoir Effluent Site #5** **19A1368-02 (Water)** **Sample Date:** 01/15/19 7:55 **Sampler:** P.M.

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

<b>Cl Res Total (Field)</b>	Field	<b>3.32</b>		N/A	mg/L	01/15/19	01/15/19	1903083	
<b>pH (Field)</b>	Field	<b>7.95</b>		N/A	pH Units	01/15/19	01/15/19	1903083	
<b>Temperature (Field)</b>	Field	<b>17.7</b>		N/A	°C	01/15/19	01/15/19	1903083	

## General Physical Analyses

<b>Apparent Color</b>	SM 2120BM	ND	3.0	15	Color Units	01/15/19	01/15/19	1903094	
<b>Odor Threshold</b>	EPA 140.1-M	<b>2</b>	1	3	TON	01/15/19	01/15/19	1903094	

## General Chemical Analyses

<b>Total Filterable Residue/TDS</b>	SM 2540C	<b>700</b>	5.0	1000	mg/L	01/21/19	01/23/19	1904026	
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ND Analyte NOT DETECTED at or above the reporting limit





January 24, 2019

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



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

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

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

### LABORATORY TEST RESULTS

Project Reference: 19A1368  
Lab Number: K011704-01

Enclosed are results for sample(s) received 1/17/19 by Air Technology Laboratories. Samples were received intact and chilled to 4° 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,

A handwritten signature in blue ink, appearing to read "Mark Johnson", followed by a vertical line.

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**  
**19A1368**

K011704-01

**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 [x] styles@clinical-lab.com [ ] bernstein@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: Reservoir Effluent Site #5 / 19A1368-02

Sampled: 01/15/19 07:55 PS Code:  
Water

WTX ID:

01

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

Released By

Date / Time

Received By

Date / Time

**Client:** Clinical Laboratory  
**Attn:** Stu Styles  
**Project Name:** NA  
**Project No.:** 19A1368  
**Date Received:** 01/17/19  
**Matrix:** Water  
**Reporting Units:** mg/L

RSK175

Lab No.:	K011704-01						
Client Sample I.D.:	Reservoir Effluent Site #5/19A1368-02						
Date/Time Sampled:	1/15/19 7:55						
Date/Time Analyzed:	1/22/19 10:09						
QC Batch No.:	190122GC8A1						
Analyst Initials:	CM/MJ						
Dilution Factor:	1.0						
ANALYTE	Result mg/L	RL mg/L					
Methane	0.29	0.0010					

MDL = Method Detection Limit

RL = Reporting Limit

Reviewed/Approved By:



Mark Johnson  
Operations Manager

Date

1-23-19

The cover letter is an integral part of this analytical report



## LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 190122GC8A1

Matrix: Air

Reporting Units: mg/L

RSK175  
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date/Time Analyzed:	1/22/19 9:39			1/22/19 9:10		1/22/19 9:25					
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	0.620	94.7	0.628	96.0	1.4	70	130	30

ND= Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: \_\_\_\_\_

Mark Johnson  
Operations Manager

Date

1-23-19

The cover letter is an integral part of this analytical report





# *Clinical Laboratory of San Bernardino, Inc.*



01 February 2019

Clinical Lab No.: 19A1748

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

Project Name: Standard Analysis  
Sub Project: CWPF 4th Week of January, 2019 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 01/22/19 . Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

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

Stu Styles  
Client Services Manager

# Clinical Laboratory of San Bernardino, Inc.



**Lomita, City of**  
24373 Walnut Avenue  
Lomita CA, 91717

Project: Standard Analysis  
Sub Project: CWPf 4th Week of January, 2019 Compliance Sampling  
Project Manager: Mark Andersen

Work Order: 19A1748  
Received: 01/22/19 17:15  
Reported: 02/01/19

**Reservoir Influent Site #3** **19A1748-01 (Water)** **Sample Date:** 01/22/19 8:00 **Sampler:** P.M.

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

<b>Cl Res Total (Field)</b>	Field	<b>8.4</b>		N/A	mg/L	01/22/19	01/22/19	1904079	
<b>pH (Field)</b>	Field	<b>7.59</b>		N/A	pH Units	01/22/19	01/22/19	1904079	
<b>Temperature (Field)</b>	Field	<b>18</b>		N/A	°C	01/22/19	01/22/19	1904079	

## General Physical Analyses

<b>Apparent Color</b>	SM 2120BM	<b>5.0</b>	3.0	15	Color Units	01/22/19	01/22/19	1904104	
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## Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	01/25/19	01/25/19	1904137	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	01/25/19	01/25/19	1904137	

**Reservoir Effluent Site #5** **19A1748-02 (Water)** **Sample Date:** 01/22/19 11:00 **Sampler:** P.M.

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

<b>Cl Res Total (Field)</b>	Field	<b>2.98</b>		N/A	mg/L	01/22/19	01/22/19	1904079	
<b>pH (Field)</b>	Field	<b>8.07</b>		N/A	pH Units	01/22/19	01/22/19	1904079	
<b>Temperature (Field)</b>	Field	<b>17.7</b>		N/A	°C	01/22/19	01/22/19	1904079	

## General Physical Analyses

<b>Apparent Color</b>	SM 2120BM	ND	3.0	15	Color Units	01/22/19	01/22/19	1904104	
<b>Odor Threshold</b>	EPA 140.1-M	<b>2</b>	1	3	TON	01/22/19	01/22/19	1904104	

## General Chemical Analyses

<b>Hardness, Total (as CaCO3)</b>	Calculated	<b>360</b>	6.6	N/A	mg/L	01/23/19	01/24/19	[CALC]	
<b>Total Filterable Residue/TDS</b>	SM 2540C	<b>700</b>	5.0	1000	mg/L	01/24/19	01/25/19	1904108	

## Metals

<b>Calcium (Ca)</b>	EPA 200.7	<b>92</b>	1.0	N/A	mg/L	01/23/19	01/24/19	1904075	
<b>Magnesium (Mg)</b>	EPA 200.7	<b>31</b>	1.0	N/A	mg/L	01/23/19	01/24/19	1904075	

ND Analyte NOT DETECTED at or above the reporting limit





January 30, 2019

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



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

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

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

### LABORATORY TEST RESULTS

Project Reference: 19A1748  
Lab Number: K012301-01

Enclosed are results for sample(s) received 1/23/19 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,

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

Mark Johnson  
Operations Manager  
MJohnson@AirTechLabs.com

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



**SUBCONTRACT ORDER**  
**Clinical Laboratory of San Bernardino**  
**19A1748**

K012301-01

**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 [x] styles@clinical-lab.com [ ] bernstein@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: Reservoir Effluent Site #5 / 19A1748-02**

**Sampled: 01/22/19 11:00 PS Code:**

**Water**

**WTX ID:**

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

Released By

Date / Time

Received By

Date / Time

**Client:** Clinical Laboratory  
**Attn:** Stu Styles  
**Project Name:** NA  
**Project No.:** 19A1748  
**Date Received:** 01/23/19  
**Matrix:** Water  
**Reporting Units:** mg/L

RSK175

Lab No.:	K012301-01						
Client Sample I.D.:	Reservoir Effluent Site #5 / 19A1748- 02						
Date/Time Sampled:	1/22/19 11:00						
Date/Time Analyzed:	1/29/19 13:44						
QC Batch No.:	190129GC8A1						
Analyst Initials:	CM/MJ						
Dilution Factor:	1.0						
ANALYTE	Result mg/L	RL mg/L					
Methane	0.21	0.0010					

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: 

Mark Johnson  
Operations Manager

Date 1-30-19

The cover letter is an integral part of this analytical report



## LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 190129GC8A1

Matrix: Air

Reporting Units: mg/L

RSK175  
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date/Time Analyzed:	1/29/19 13:12			1/29/19 12:37		1/29/19 12:58					
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	0.613	93.7	0.639	97.6	4.1	70	130	30

ND= Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: \_\_\_\_\_

Mark Johnson  
Operations Manager

Date

1-30-19

The cover letter is an integral part of this analytical report



*"Your Water and Wastewater Analysis Solution"*

# *Clinical Laboratory of San Bernardino, Inc.*



07 February 2019

Clinical Lab No.: 19A2411

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

Project Name: Standard Analysis  
Sub Project: CWPF 5th Week of January, 2019 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 01/30/19 . Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

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

Stu Styles

Client Services Manager

# Clinical Laboratory of San Bernardino, Inc.



**Lomita, City of**  
24373 Walnut Avenue  
Lomita CA, 91717

Project: Standard Analysis  
Sub Project: CWPf 5th Week of January, 2019 Compliance Sampling  
Project Manager: Mark Andersen

Work Order: 19A2411  
Received: 01/30/19 16:22  
Reported: 02/07/19

**Reservoir Influent Site #3** **19A2411-01 (Water)** **Sample Date:** 01/30/19 6:40 **Sampler:** P.M.

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

<b>Cl Res Total (Field)</b>	Field	<b>8.6</b>		N/A	mg/L	01/30/19	01/30/19	1905103	
<b>pH (Field)</b>	Field	<b>7.66</b>		N/A	pH Units	01/30/19	01/30/19	1905103	
<b>Temperature (Field)</b>	Field	<b>20.3</b>		N/A	°C	01/30/19	01/30/19	1905103	

## General Physical Analyses

<b>Apparent Color</b>	SM 2120BM	<b>5.0</b>	3.0	15	Color Units	01/30/19	01/30/19	1905114	
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## Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	02/04/19	02/04/19	1906016	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	02/04/19	02/04/19	1906016	

**Reservoir Effluent Site #5** **19A2411-02 (Water)** **Sample Date:** 01/30/19 9:20 **Sampler:** P.M.

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

<b>Cl Res Total (Field)</b>	Field	<b>2.82</b>		N/A	mg/L	01/30/19	01/30/19	1905103	
<b>pH (Field)</b>	Field	<b>7.99</b>		N/A	pH Units	01/30/19	01/30/19	1905103	
<b>Temperature (Field)</b>	Field	<b>17.4</b>		N/A	°C	01/30/19	01/30/19	1905103	

## General Physical Analyses

<b>Apparent Color</b>	SM 2120BM	<b>7.5</b>	3.0	15	Color Units	01/30/19	01/30/19	1905114	
<b>Odor Threshold</b>	EPA 140.1-M	<b>2</b>	1	3	TON	01/30/19	01/30/19	1905114	

## General Chemical Analyses

<b>Total Filterable Residue/TDS</b>	SM 2540C	<b>660</b>	5.0	1000	mg/L	02/04/19	02/05/19	1906028	
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ND Analyte NOT DETECTED at or above the reporting limit





February 7, 2019

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



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

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

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

### LABORATORY TEST RESULTS

Project Reference: 19A2411  
Lab Number: K013101-01

Enclosed are results for sample(s) received 1/31/19 by Air Technology Laboratories. Samples were received intact and chilled to 4° 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,

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

Mark Johnson  
Operations Manager  
MJohnson@AirTechLabs.com

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

SUBCONTRACT ORDER  
Clinical Laboratory of San Bernardino  
19A2411

K013101-01

**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 [x] styles@clinical-lab.com [ ] bernstein@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: Reservoir Effluent Site #5 / 19A2411-02

Sampled: 01/30/19 09:20 PS Code:  
Water

WTX ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (B)

40ml Amber Vial (C)

40°C  
01/31/19

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

**Client:** Clinical Laboratory  
**Attn:** Stu Styles  
**Project Name:** NA  
**Project No.:** 19A2411  
**Date Received:** 01/31/19  
**Matrix:** Water  
**Reporting Units:** mg/L


RSK175

<b>Lab No.:</b>	K013101-01						
<b>Client Sample I.D.:</b>	Reservoir Effluent Site #5 / 19A2411-02						
<b>Date/Time Sampled:</b>	1/30/19 9:20						
<b>Date/Time Analyzed:</b>	2/6/19 13:27						
<b>QC Batch No.:</b>	190206GC8A1						
<b>Analyst Initials:</b>	CM/MJ						
<b>Dilution Factor:</b>	1.0						
<b>ANALYTE</b>	<b>Result mg/L</b>	<b>RL mg/L</b>					
Methane	0.33	0.0010					

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: \_\_\_\_\_

  
Mark Johnson  
Operations Manager

Date \_\_\_\_\_



The cover letter is an integral part of this analytical report



## LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 190206GC8A1

Matrix: Air

Reporting Units: mg/L

RSK175 LABORATORY CONTROL SAMPLE SUMMARY											
Lab No.:	METHOD BLANK			LCS		LCSD					
Date/Time Analyzed:	2/6/19 12:25			2/6/19 12:54		2/6/19 13:08					
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	0.698	107	0.679	104	2.8	70	130	30

ND= Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: \_\_\_\_\_

Mark Johnson  
Operations Manager

Date

2/7/19

The cover letter is an integral part of this analytical report



19A2411

## "Your Water and Wastewater Analysis Solution"

# *Clinical Laboratory of San Bernardino, Inc.*



21 January 2019

Clinical Lab No.: 19A0739

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

Project Name: Standard Analysis  
Sub Project: Lomita Distribution Ortho, 2nd Week January 2019

Enclosed are the results of the analyses for samples received at the laboratory on 01/08/19 . Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

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

Stu Styles  
Client Services Manager



# Clinical Laboratory of San Bernardino, Inc.



**Lomita, City of**  
24373 Walnut Avenue  
Lomita CA, 91717

Project: Standard Analysis  
Sub Project: Lomita Distribution Ortho, 2nd Week January 2019  
Project Manager: Mark Andersen

Work Order: 19A0739  
Received: 01/08/19 17:57  
Reported: 01/21/19

**1948 252nd St.**

**19A0739-01 (Water)**

**Sample Date:** 01/08/19 8:00 **Sampler:** P.M.

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

<b>Cl Res Total (Field)</b>	Field	<b>2.6</b>		N/A	mg/L	01/08/19	01/08/19	1902181	
<b>pH (Field)</b>	Field	<b>7.89</b>		N/A	pH Units	01/08/19	01/08/19	1902181	
<b>Temperature (Field)</b>	Field	<b>16.6</b>		N/A	°C	01/08/19	01/08/19	1902181	

## General Chemical Analyses

<b>Ortho-Phosphate (PO4)</b>	HACH 8048	<b>0.57</b>	0.020	N/A	mg/L	01/09/19	01/09/19	1902134	
<b>Phosphorus (Total as P)</b>	HACH 8190	<b>0.45</b>	0.0067	N/A	mg/L	01/09/19	01/09/19	1902133	

**24632 S. Moon**

**19A0739-02 (Water)**

**Sample Date:** 01/08/19 9:35 **Sampler:** P.M.

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

<b>Cl Res Total (Field)</b>	Field	<b>2.6</b>		N/A	mg/L	01/08/19	01/08/19	1902181	
<b>pH (Field)</b>	Field	<b>7.85</b>		N/A	pH Units	01/08/19	01/08/19	1902181	
<b>Temperature (Field)</b>	Field	<b>17.5</b>		N/A	°C	01/08/19	01/08/19	1902181	

## General Chemical Analyses

<b>Ortho-Phosphate (PO4)</b>	HACH 8048	<b>0.56</b>	0.020	N/A	mg/L	01/09/19	01/09/19	1902134	
<b>Phosphorus (Total as P)</b>	HACH 8190	<b>0.44</b>	0.0067	N/A	mg/L	01/09/19	01/09/19	1902133	

**2450 W. 247th St.**

**19A0739-03 (Water)**

**Sample Date:** 01/08/19 9:55 **Sampler:** P.M.

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

<b>Cl Res Total (Field)</b>	Field	<b>0.77</b>		N/A	mg/L	01/08/19	01/08/19	1902181	
<b>pH (Field)</b>	Field	<b>7.71</b>		N/A	pH Units	01/08/19	01/08/19	1902181	
<b>Temperature (Field)</b>	Field	<b>18.3</b>		N/A	°C	01/08/19	01/08/19	1902181	

## General Chemical Analyses

<b>Ortho-Phosphate (PO4)</b>	HACH 8048	<b>0.54</b>	0.020	N/A	mg/L	01/09/19	01/09/19	1902151	
<b>Phosphorus (Total as P)</b>	HACH 8190	<b>0.47</b>	0.0067	N/A	mg/L	01/09/19	01/09/19	1902133	

# Clinical Laboratory of San Bernardino, Inc.



**Lomita, City of**  
24373 Walnut Avenue  
Lomita CA, 91717

Project: Standard Analysis  
Sub Project: Lomita Distribution Ortho, 2nd Week January 2019  
Project Manager: Mark Andersen

Work Order: 19A0739  
Received: 01/08/19 17:57  
Reported: 01/21/19

**2052 Dawn St.**

**19A0739-04 (Water)**

**Sample Date:** 01/08/19 12:35 **Sampler:** P.M.

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

<b>Cl Res Total (Field)</b>	Field	<b>1.46</b>		N/A	mg/L	01/08/19	01/08/19	1902181	
<b>pH (Field)</b>	Field	<b>7.81</b>		N/A	pH Units	01/08/19	01/08/19	1902181	
<b>Temperature (Field)</b>	Field	<b>18.9</b>		N/A	°C	01/08/19	01/08/19	1902181	

## General Chemical Analyses

<b>Ortho-Phosphate (PO4)</b>	HACH 8048	<b>0.56</b>	0.020	N/A	mg/L	01/09/19	01/09/19	1902151	
<b>Phosphorus (Total as P)</b>	HACH 8190	<b>0.46</b>	0.0067	N/A	mg/L	01/09/19	01/09/19	1902133	

**CWPF SP5**

**19A0739-05 (Water)**

**Sample Date:** 01/08/19 10:47 **Sampler:** P.M.

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

<b>Cl Res Total (Field)</b>	Field	<b>2.73</b>		N/A	mg/L	01/08/19	01/08/19	1902181	
<b>pH (Field)</b>	Field	<b>7.88</b>		N/A	pH Units	01/08/19	01/08/19	1902181	
<b>Temperature (Field)</b>	Field	<b>18</b>		N/A	°C	01/08/19	01/08/19	1902181	

## General Chemical Analyses

<b>Ortho-Phosphate (PO4)</b>	HACH 8048	<b>0.58</b>	0.020	N/A	mg/L	01/09/19	01/09/19	1902151	
<b>Phosphorus (Total as P)</b>	HACH 8190	<b>0.43</b>	0.0067	N/A	mg/L	01/09/19	01/09/19	1902133	

ND Analyte NOT DETECTED at or above the reporting limit

## *"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**

JANUARY 2019				
DATE	DAY	METHANE HANDHELD		COMMENTS
1/1/2019	Sat	CH <sub>4</sub> -	Oxy-	
1/2/2019	Sun	CH <sub>4</sub> -	Oxy-	
1/3/2019	Mon	CH <sub>4</sub> -	Oxy-	
1/4/2019	Tue	CH <sub>4</sub> - 3%	Oxy- 20.7%	
1/5/2019	Wed	CH <sub>4</sub> -	Oxy-	
1/6/2019	Thu	CH <sub>4</sub> -	Oxy-	
1/7/2019	Fri	CH <sub>4</sub> -	Oxy-	
1/8/2019	Sat	CH <sub>4</sub> - 1%	Oxy- 20.9%	
1/9/2019	Sun	CH <sub>4</sub> - 1%	Oxy- 20.9%	
1/10/2019	Mon	CH <sub>4</sub> -	Oxy-	
1/11/2019	Tue	CH <sub>4</sub> -	Oxy-	
1/12/2019	Wed	CH <sub>4</sub> -	Oxy-	
1/13/2019	Thu	CH <sub>4</sub> -	Oxy-	
1/14/2019	Fri	CH <sub>4</sub> -	Oxy-	
1/15/2019	Sat	CH <sub>4</sub> - 0%	Oxy- 20.9%	
1/16/2019	Sun	CH <sub>4</sub> - 0%	Oxy- 20.9%	
1/17/2019	Mon	CH <sub>4</sub> - 0%	Oxy- 20.9%	
1/18/2019	Tue	CH <sub>4</sub> - 0%	Oxy- 20.9%	
1/19/2019	Wed	CH <sub>4</sub> -	Oxy-	
1/20/2019	Thu	CH <sub>4</sub> -	Oxy-	
1/21/2019	Fri	CH <sub>4</sub> -	Oxy-	
1/22/2019	Sat	CH <sub>4</sub> - 0%	Oxy- 20.9%	
1/23/2019	Sun	CH <sub>4</sub> - 0%	Oxy- 20.9%	
1/24/2019	Mon	CH <sub>4</sub> - 0%	Oxy- 20.9%	
1/25/2019	Tue	CH <sub>4</sub> -	Oxy-	
1/26/2019	Wed	CH <sub>4</sub> -	Oxy-	
1/27/2019	Thu	CH <sub>4</sub> -	Oxy-	
1/28/2019	Fri	CH <sub>4</sub> - 0%	Oxy- 20.9%	
1/29/2019	Sat	CH <sub>4</sub> -	Oxy-	
1/30/2019	Sun	CH <sub>4</sub> -	Oxy-	
1/31/2019	Mon	CH <sub>4</sub> - 0%	Oxy- 20.9%	
ND- Non Detect				
CH <sub>4</sub> - 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: **JANUARY 2019**

#	Code	Sample ID	Location	Sample Date	Temp	pH	Total Chlorine	Free Chlorine	Total Ammonia	Free Ammonia	Nitrite <sup>2</sup>	Nitrate	Coliform <sup>2</sup>	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	1/3/2019	15.5	7.93	2.50	0.03	0.19	0.05	0.004	ND	A	ND	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	1/3/2019	15.4	7.81	2.30	0.05	0.31	0.01	0.004	ND	A	12	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	1/3/2019	15.9	7.89	2.80	0.06	0.35	0.03	0.008	ND	A	2	1	Well/MWD Blend
4	D	A	2052 Dawn St	1/3/2019	16.0	7.79	1.37	0.07	0.00	0.15	0.048	ND	A	34	1	Well/MWD Blend
5	D		Reservoir SP5	1/3/2019	16.6	7.92	2.84	0.08	0.55	0.04	0.006	ND	A	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	1/3/2019	14.5	8.20	1.93	0.03	0.29	0.09	0.006	ND	A	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	1/3/2019	14.2	8.25	1.89	0.04	0.33	0.07	0.005	ND	A	ND	3	MWD Only
8	D	S13-005	2500 PCH	1/3/2019	15.5	8.16	1.91	0.04	0.46	0.09	0.006	ND	A	ND	2	MWD Only
1	D	S13-003	1948 W 252nd St	1/8/2019	16.6	7.89	2.60	0.07	0.03	0.00	0.005	ND	A	ND	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	1/8/2019	17.5	7.85	2.60	0.10	0.15	0.00	0.014	ND	A	1	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	1/8/2019	18.1	7.82	2.70	0.07	0.42	0.00	0.007	ND	A	4	1	Well/MWD Blend
4	D	A	2052 Dawn St	1/8/2019	18.9	7.81	1.46	0.05	0.20	0.00	0.052	ND	A	10	1	Well/MWD Blend
5	D		Reservoir SP5	1/8/2019	18.0	7.88	2.73	0.06	0.51	0.00	0.007	ND	A	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	1/8/2019	14.8	8.22	2.01	0.08	0.12	0.00	0.005	ND	A	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	1/8/2019	14.9	8.19	1.98	0.10	0.12	0.00	0.005	ND	A	ND	3	MWD Only
8	D	S13-005	2500 PCH	1/8/2019	17.0	8.17	2.06	0.06	0.25	0.06	0.004	ND	A	ND	2	MWD Only
1	D	S13-003	1948 W 252nd St	1/15/2019	16.5	7.96	3.00	0.06	0.59	0.05	0.015	ND	A	3	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	1/15/2019	17.1	7.89	2.80	0.09	0.14	0.09	0.012	ND	A	4	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	1/15/2019	16.9	7.91	3.00	0.07	0.25	0.05	0.013	ND	A	8	1	Well/MWD Blend
4	D	A	2052 Dawn St	1/15/2019	17.2	7.86	1.35	0.07	0.31	0.15	0.060	ND	A	140	1	Well/MWD Blend
5	D		Reservoir SP5	1/15/2019	17.7	7.95	3.32	0.07	0.36	0.00	0.007	ND	A	1	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	1/15/2019	15.2	8.24	1.90	0.11	0.24	0.04	0.005	ND	A	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	1/15/2019	15.7	8.23	1.91	0.04	0.39	0.07	0.009	ND	A	ND	3	MWD Only
8	D	S13-005	2500 PCH	1/15/2019	15.9	8.21	2.00	0.07	0.25	0.02	0.008	ND	A	1	2	MWD Only
1	D	S13-003	1948 W 252nd St	1/22/2019	16.5	7.99	2.4	0.04	0.35	0.03	0.003	ND	A	ND	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	1/22/2019	16.8	7.95	2.13	0.06	0.19	0.05	0.020	ND	A	8	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	1/22/2019	17.3	8.03	2.80	0.03	0.42	0.08	0.010	ND	A	4	1	Well/MWD Blend
4	D	A	2052 Dawn St	1/22/2019	17.3	7.90	1.20	0.06	0.13	0.08	0.059	ND	A	6	1	Well/MWD Blend
5	D		Reservoir SP5	1/22/2019	17.7	8.07	2.98	0.04	0.31	0.01	0.003	ND	A	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	1/22/2019	14.7	8.30	1.90	0.14	0.32	0.05	0.006	ND	A	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	1/22/2019	14.7	8.30	2.01	0.07	0.18	0.05	0.006	ND	A	ND	3	MWD Only
8	D	S13-005	2500 PCH	1/22/2019	16.2	8.33	2.04	0.06	0.25	0.04	0.010	ND	1	ND	2	MWD Only
1	D	S13-003	1948 W 252nd St	1/30/2019	16.9	8.02	2.80	0.02	0.40	0.02	0.002	ND	A	ND	1	Well/MWD Blend
2	D	S13-004	24632 S Moon Ave	1/30/2019	17.5	7.92	2.70	0.05	0.39	0.00	0.009	ND	A	6	1	Well/MWD Blend
3	D	S13-008	25417 Pennsylvania Ave	1/30/2019	17.6	7.94	3.10	0.06	0.49	0.02	0.005	ND	A	11	1	Well/MWD Blend
4	D	A	2052 Dawn St	1/30/2019	17.4	7.91	1.51	0.02	0.22	0.10	0.050	ND	A	120	1	Well/MWD Blend
5	D		Reservoir	1/30/2019	17.4	7.99	2.82	0.04	0.49	0.00	0.002	ND	A	ND	1	Well/MWD Blend
6	D	S13-001	1912 W 259th St	1/30/2019	15.4	8.40	1.96	0.03	0.39	0.00	0.004	ND	A	ND	2	MWD Only
7	D	S13-002	26314 S Monte Vista Ave	1/30/2019	15.4	8.32	1.99	0.04	0.44	0.05	0.004	ND	A	ND	3	MWD Only
8	D	S13-005	2500 PCH	1/30/2019	16.4	8.32	1.99	0.05	0.47	0.08	0.004	ND	A	ND	2	MWD Only

<sup>1</sup>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).

<sup>2</sup>Coliform results are part of weekly Bacti sampling results.

<sup>3</sup>The City is monitoring trends of Nitrite in Zone I, in accordance with the Nitrification Monitoring Plan. Due to elevated reads additional hydrant flushing has been implemented.