CITY OF LOMITA



Cypress Water Production Facility Monthly Status Report

January 2019

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CITY COUNCIL

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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

<u>Subject: System No. 1910073 - Monthly Report for the Cypress Water Production Facility (CWPF) for the period of January 1 through January 31, 2019.</u>

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.

| · | F | Production for January 2019 | | | | | | | | | |
|----------------|-------|-----------------------------|-----------------------|--|--|--|--|--|--|--|--|
| Well No. 5 | 38.19 | ac-ft | 12,444,244 (gallons) | | | | | | | | |
| MWD: | 56.85 | aciii | 1k3,524,000 (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 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 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.

| | SP1, Well Raw Water Discharge | | | | | | Pres | Combi sure F Effluent | ilter | SP3, After chloramination static reservoir entry | | | | tatic mi | xer; | |
|---------------|-------------------------------|------------------|-----------------|----------------|-------|---------|----------------|-----------------------------|----------------|--|------------|-----------------|-----------------|----------------|-------|---------|
| Date, week of | 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 | Α | ND | ND | 500 | 470 | 300 | 80 | 50 | 15 | 15 |
| 1/15/2019 | | | | | | | | | | | ND | 300 | ND | 50 | 5 | 15 |
| 1/22/2019 | | | | | | | | | N. III | | 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, | SP2 | | SP3 | | | SP4 | | SP5 | | | |
|-----------|---------|---------|----------|--------------------------|---------|----------|--------------------------|---------|----------|--------------------------|--|
| week of | Free CI | Free CI | Total CI | Total NH ₃ | Free CI | Total CI | Total NH ₃ | Free CI | Total CI | Total NH ₃ | |
| 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.

| | | TD | S, mg/L | | T.O.I | ٧. | | Hardn | ess, mç | j/L | \$150 PERMIT | Methane (Water), mg/L | |
|---------------|----------------------|-----------------|--------------------------|----------------------|--------------------------|--------|----------------------|-----------------|--------------------------|----------------------|----------------------|--------------------------|--|
| Date, week of | 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 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 252 nd St | | 0.45 | 0.57 |
| 24632 S Moon Ave | | 0.44 | 0.56 |
| 2450 W 247 th St | 1/8/19 | 0.47 | 0.54 |
| 2052 Dawn St | | 0.46 | 0.56 |
| CWPF SP5 | | 0.43 | |

Notes:

Monthly- Orange;

mg/L – milligram per liter

Monthly CWPF Monitoring Report – January 2019 Cypress Water Production Facility City of Lomita; System No. 1910073

| | Frequency | MCL/ | 1/3/19 | 1/8/19 | 1/15/19 | 1/22/19 | 1/30/19 | Comments |
|--|--|---|--|--|--|---|--------------------------|--|
| Sample Locations and Parameters | rioquorioy | Goal | 1 st Wk | 2 nd Wk | 3 rd Wk | 4 th Wk | 5 th Wk | and/or |
| and r dramotoro | | Odai | IVVIX | ZVVK | O VVK | 7 7 7 7 | JVVK | Other Info. |
| | | | or Mo. | | | | | Other into. |
| | | | Result | | | | | |
| | | | (date) | | | | | |
| SP1 Also called | Well 5 Raw | Water o | r Site#1. | | | | | |
| TDS, ppm | Monthly | See SP5 | 810 | Operations | Data/Inforn | nation: | | *Chlorine injected after |
| 111 | NA - matterly s | See SP5 | 1/8/19 | CWPF opera | ition days | | | SP1, before entering the greensand filter. |
| Hardness | Monthly | | 370 1/8/19 | | Daily average t | low 265 app | at total prod | the greensand litter. |
| CH4, ppm | Monthly | See SP5 | 3.0 1/8/19 | - 38.19 AF | | | | |
| Iron, ppb | Monthly | See SP3 | 180 1/8/19 | blend Ratio - 95.04 AF | Vell 5/MWD da - 40% WELL: 6 | 60% MWD; tot | al prod | |
| Manganese, ppb | Monthly | See SP3 | 150 1/8/19 | | *** | | | |
| Color, units | Monthly | See SP3 | 15 | Chlorine Do | sage: N/A* | | | |
| Total Coliform, P or A | Monthly | A | 1/8/19 A | | | | | |
| | - | | 1/8/19 | | | 204 (200 S 8 A) 74 | PAGE FOR THE PROPERTY OF | |
| SP2 Also called | Filter Efflu | ent or Si | te#3. | | | | | |
| Total Coliform, P or A | Monthly | Α | Α | 100 Oct. 700 | | | | *Ammonia added after |
| HPC,MPN/100 ml | Monthly | 500 | ND | | osage: N/A* | | | filter effluent |
| Free Cl Res, ppm | Continuous | | | ge: <mark>7.61 – 1</mark> | | | | |
| SP3 Also called | the Site Af | ter Chlor | raminatio | n & Before | MWD BI | ending or | Site#4. | |
| Iron, ppb | Weekly | ND | ND | 470 | ND | ND | ND | |
| Manganese, ppb | Weekly | 50 | ND | 80 | ND | ND | ND | 1 |
| Color | Weekly | 15 | 5 | 15 | 5 | 5 | 5 | 1 |
| | | | The second secon | | The second secon | | | .1 |
| Free and Total CI Res, | Continuous | | verage: 1.27 | 7; Range: 0. | 80 – 1.50 | | | |
| Free and Total CI Res, | | Total CI: A | Average: 1.27 Average: 7.2 | 3; Range: 3 | 30 - 1.50 .90 - 9.20 | 2 | | |
| Free and Total CI Res, ppm | Continuous | Total CI: A | Average: 1.27 Average: 7.2 : Average: 0 | 3; Range: 3 .70; Range: | 80 - 1.50 .90 - 9.20 0.69 - 0.72 | 4 | K 18 | hate Injection |
| Free and Total CI Res, ppm SP4 Also called | Continuous | Total CI: A Ammonia Influent | Average: 1.27 Average: 7.2 : Average: 0 or the Site | 3; Range: 3 .70; Range: • Well 5/M | 80 - 1.50 .90 - 9.20 0.69 - 0.72 | 4 | K 18 | phate Injection. |
| Free and Total CI Res, ppm SP4 Also called Phosphate Injection | Continuous | Total CI: A Ammonia Influent of Phosphat | Average: 1.27 Average: 7.2 : Average: 0 or the Site e Dosage: 0 | 3; Range: 3 .70; Range: • Well 5/M 0.54 mg/L | 80 – 1.50 .90 – 9.20 0.69 – 0.72 WD Water | 4 | K 18 | |
| Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, | Continuous Reservoir | Total CI: Ammonia Influent Phosphat Free CI: Ammonia | Average: 1.27 Average: 7.2 : Average: 0 or the Site e Dosage: 0 Average: 0.6 | 3; Range: 3 .70; Range: • Well 5/M | 80 – 1.50 .90 – 9.20 0.69 – 0.72 WD Water | 4 | K 18 | CI/NH3 Ratio: |
| Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm | Reservoir Continuous | Total CI: A Ammonia Influent of Phosphat Free CI: A Total CI: A Ammonia | Average: 1.27 Average: 7.2 : Average: 0 or the Site e Dosage: 0 Average: 0.6 Average: 5.2 : Average: 0 | 3; Range: 3 .70; Range: • Well 5/M 0.54 mg/L 5; Range: 0 8; Range: 3 .62; Range: | 80 - 1.50 .90 - 9.20 0.69 - 0.72 WD Water 60 - 0.70 60 - 6.00 0.52 - 0.68 | Blend Po | oint/Phosp | CI/NH3 Ratio: 8.46 |
| Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called | Reservoir Continuous | Total Cl: / Ammonia Influent of Phosphat Free Cl: / Total Cl: / Ammonia | Average: 1.27 Average: 7.2 : Average: 0 or the Site e Dosage: 0 Average: 0.6 Average: 5.2 : Average: 0 | 3; Range: 3 .70; Range: • Well 5/M 0.54 mg/L 5; Range: 0 8; Range: 3 .62; Range: | 80 - 1.50 .90 - 9.20 0.69 - 0.72 WD Water 60 - 0.70 60 - 6.00 0.52 - 0.68 | Blend Po | oint/Phosp | CI/NH3 Ratio: 8.46 |
| Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called | Reservoir Continuous | Total CI: A Ammonia Influent of Phosphat Free CI: A Total CI: A Ammonia | Average: 1.27 Average: 7.2 : Average: 0 or the Site e Dosage: 0 Average: 0.6 Average: 5.2 : Average: 0 | 3; Range: 3 .70; Range: • Well 5/M 0.54 mg/L 5; Range: 0 8; Range: 3 .62; Range: | 80 - 1.50 .90 - 9.20 0.69 - 0.72 WD Water 60 - 0.70 60 - 6.00 0.52 - 0.68 | Blend Po | oint/Phosp | CI/NH3 Ratio: 8.46 |
| Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called TDS, ppm | Reservoir Continuous Reservoir | Total Cl: / Ammonia Influent of Phosphat Free Cl: / Total Cl: / Ammonia Effluent SI Goal: 500-750ppm | Average: 1.27 Average: 7.2 : Average: 0 or the Site e Dosage: 0.6 Average: 0.6 Average: 5.2 : Average: 0 | 3; Range: 3 .70; Range: 4 Well 5/M ¹ 0.54 mg/L 5; Range: 0 8; Range: 3 .62; Range: 5 SP5 disc | 80 - 1.50 .90 - 9.20 0.69 - 0.72 WD Water 60 - 0.70 60 - 6.00 0.52 - 0.68 charges in | Blend Po | of the dis | CI/NH3 Ratio: 8.46 |
| Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called TDS, ppm Hardness | Reservoir Continuous Reservoir Weekly | Total Cl: Ammonia Influent (Phosphat Free Cl: Ammonia Effluent SI Goal: 500-750ppm | Average: 1.27 Average: 7.2 : Average: 0 or the Site e Dosage: 0.6 Average: 0.6 Average: 5.2 : Average: 0 | 3; Range: 3 .70; Range: 4 Well 5/M ¹ 0.54 mg/L 5; Range: 0 8; Range: 3 .62; Range: 5 SP5 disc | 80 - 1.50 .90 - 9.20 0.69 - 0.72 WD Water 60 - 0.70 60 - 6.00 0.52 - 0.68 charges in | Blend Potential Blend | of the dis | CI/NH3 Ratio: 8.46 stribution system % CH4 Removal |
| Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called TDS, ppm Hardness | Reservoir Continuous Reservoir Weekly Monthly | Total Cl: Ammonia Influent of Phosphat Free Cl: Ammonia Effluent SI Goal: 500-750ppm SI Goal: 180-250ppm Goal: from | Average: 1.27 Average: 7.2 : Average: 0 or the Site e Dosage: 0 Average: 0.6 Average: 5.2 : Average: 0 or Site#5. | 3; Range: 3.70; Range: 4 Well 5/M' 0.54 mg/L 0.5; Range: 0.8; Range: 3.62; Range: 5P5 disc | 80 - 1.50 .90 - 9.20 0.69 - 0.72 WD Water .60 - 0.70 60 - 6.00 0.52 - 0.68 .harges in | to Zone 1 | of the dis | CI/NH3 Ratio: 8.46 stribution systen |
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| Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called TDS, ppm Hardness CH4, ppm Odor, units Free and Total CI Res, | Reservoir Continuous Reservoir Weekly Monthly Weekly Monthly | Total Cl: Ammonia Influent of Phosphat Free Cl: Ammonia Effluent SI Goal: 500-750ppm SI Goal: 180-250ppm Goal: from PA 1 Free Cl: Amonia | Average: 1.27 Average: 7.2 : Average: 0.0 or the Site e Dosage: 0.6 Average: 0.6 Average: 5.2 : Average: 0 or Site#5. 650 0.35 2 Average: 0.0 Average: 0.0 Average: 2.9 | 3; Range: 3 .70; Range: 4 .70; Range: 4 .54 mg/L .55; Range: 0 .62; Range: 3 .62; Range: 700 0.32 2 .8; Range: 0.8; Range: 0.8; Range: 2.8 | 80 - 1.50 .90 - 9.20 0.69 - 0.72 WD Water .60 - 0.70 60 - 6.00 0.52 - 0.68 .harges in 700 0.29 2 05 - 0.13 31 - 3.18 | Blend Po to Zone 1 700 360 0.21 | of the dis | CI/NH3 Ratio: 8.46 Stribution system % CH4 Removal 90.0% |
| Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called TDS, ppm Hardness CH4, ppm Odor, units | Reservoir Continuous Reservoir Weekly Monthly Weekly Monthly Continuous | Total Cl: Ammonia Influent of Phosphat Free Cl: Ammonia Effluent SI Goal: 500-750ppm SI Goal: 180-250ppm Goal: from PA 1 Free Cl: Ammonia | Average: 1.27 Average: 7.2 : Average: 0.0 or the Site e Dosage: 0.6 Average: 0.6 Average: 5.2 : Average: 0 or Site#5. 650 0.35 2 Average: 0.0 Average: 0.0 Average: 2.9 | 3; Range: 3 .70; Range: 4 .70; Range: 4 .54 mg/L .55; Range: 0 .62; Range: 3 .62; Range: 700 0.32 2 .8; Range: 0. | 80 - 1.50 .90 - 9.20 0.69 - 0.72 WD Water .60 - 0.70 60 - 6.00 0.52 - 0.68 .harges in 700 0.29 2 05 - 0.13 31 - 3.18 | Blend Po to Zone 1 700 360 0.21 | of the dis | CI/NH3 Ratio: 8.46 Stribution system % CH4 Removal 90.0% CI/NH3 Ratio: |
| Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called TDS, ppm Hardness CH4, ppm Odor, units Free and Total CI Res, ppm | Reservoir Continuous Reservoir Weekly Monthly Weekly Monthly Continuous | Total Cl: / Ammonia Influent of Phosphat Free Cl: / Total Cl: / Ammonia Effluent SI Goal: 500-750ppm Goal: from PA 1 Free Cl: / Ammonia eservoir. Goal - | Average: 1.27 Average: 7.2 : Average: 0 or the Site e Dosage: 0 Average: 0.6 Average: 0.6 Average: 0 or Site#5. 650 0.35 2 Average: 0.0 Average: 2.9 : Average: 0.0 | 3; Range: 3 .70; Range: 4 .70; Range: 4 .54 mg/L .55; Range: 0 .62; Range: 3 .62; Range: 700 0.32 2 .8; Range: 0.8; Range: 0.8; Range: 2.8 | 80 - 1.50 .90 - 9.20 0.69 - 0.72 WD Water 60 - 0.70 60 - 6.00 0.52 - 0.68 harges in 700 0.29 2 05 - 0.13 31 - 3.18 0.49 - 0.59 | Blend Po to Zone 1 700 360 0.21 | of the dis | CI/NH3 Ratio: 8.46 Stribution system % CH4 Removal 90.0% CI/NH3 Ratio: |
| Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called TDS, ppm Hardness CH4, ppm Odor, units Free and Total CI Res, ppm Headspace of the C | Reservoir Continuous Reservoir Weekly Monthly Weekly Monthly Continuous | Total Cl: Ammonia Influent of Phosphat Free Cl: Total Cl: Ammonia Effluent SI Goal: 500-750ppm Goal: from PA 1 Free Cl: Total Cl: Ammonia | Average: 1.27 Average: 7.2 : Average: 0 or the Site e Dosage: 0 Average: 0.6 Average: 5.2 : Average: 0 or Site#5. 650 0.35 2 Average: 2.9 : Average: 0.0 CH4 Aver | 3; Range: 3 .70; Range: 4 .70; Range: 5 .70; Range: 6 .54 mg/L .5; Range: 0 .62; Range: 3 .62; Range: 7 .700 0.32 2 .8; Range: 0 .8; Range: 2 .52; Range: 0 | 80 - 1.50 .90 - 9.20 0.69 - 0.72 WD Water 60 - 0.70 60 - 6.00 0.52 - 0.68 charges in 700 0.29 2 05 - 0.13 31 - 3.18 0.49 - 0.59 | Blend Po to Zone 1 700 360 0.21 | of the dis | CI/NH3 Ratio: 8.46 Stribution system % CH4 Removal 90.0% CI/NH3 Ratio: |
| Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called TDS, ppm Hardness CH4, ppm Odor, units Free and Total CI Res, ppm Headspace of the C CH4 ppmv; using Portable Device | Reservoir Continuous Reservoir Weekly Monthly Weekly Monthly Continuous Cypress Re Daily (from log) | Total Cl: Ammonia Influent of Phosphat Free Cl: Ammonia Effluent SI Goal: 500-750ppm SI Goal: 180-250ppm Goal: from PA 1 Free Cl: Ammonia 2 Servoir. Goal - LEL | Average: 1.27 Average: 7.2 Average: 7.2 Average: 0 or the Site Dosage: 0 Average: 0.6 Average: 5.2 Average: 0 0.35 2 Average: 0.0 Average: 2.9 Average: 0.0 CH4 Average: 0 CH4 Rar | 3; Range: 3 .70; Range: 4 .70; Range: 4 .70; Range: 5 .70; Range: 6 .70, Range: 7 .70, Range: 7 .70, Range: 7 .70, Range: 7 .700 .7 | 80 - 1.50 .90 - 9.20 0.69 - 0.72 WD Water 60 - 0.70 60 - 6.00 0.52 - 0.68 harges in 700 0.29 2 05 - 0.13 31 - 3.18 0.49 - 0.59 | Blend Po to Zone 1 700 360 0.21 2 | of the dis | CI/NH3 Ratio: 8.46 Stribution system % CH4 Removal 90.0% CI/NH3 Ratio: 5.70 |
| Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called TDS, ppm Hardness CH4, ppm Odor, units Free and Total CI Res, ppm Headspace of the C CH4 ppmv; using | Reservoir Continuous Reservoir Weekly Monthly Weekly Monthly Continuous Cypress Re Daily (from log) | Total Cl: Ammonia Influent of Phosphat Free Cl: Ammonia Effluent SI Goal: 500-750ppm SI Goal: 180-250ppm Goal: from PA 1 Free Cl: Ammonia 2 Servoir. Goal - LEL | Average: 1.27 Average: 7.2 Average: 7.2 Average: 0 or the Site Dosage: 0 Average: 0.6 Average: 5.2 Average: 0 0.35 2 Average: 0.0 Average: 2.9 Average: 0.0 CH4 Average: 0 CH4 Rar | 3; Range: 3 .70; Range: 4 .70; Range: 4 .70; Range: 5 .70; Range: 6 .70, Range: 7 .70, Range: 7 .70, Range: 7 .70, Range: 7 .700 .7 | 80 - 1.50 .90 - 9.20 0.69 - 0.72 WD Water 60 - 0.70 60 - 6.00 0.52 - 0.68 harges in 700 0.29 2 05 - 0.13 31 - 3.18 0.49 - 0.59 | Blend Po to Zone 1 700 360 0.21 2 | of the dis | CI/NH3 Ratio: 8.46 Stribution system % CH4 Removal 90.0% CI/NH3 Ratio: 5.70 |
| Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called TDS, ppm Hardness CH4, ppm Odor, units Free and Total CI Res, ppm Headspace of the C CH4 ppmv; using Portable Device SP 6 MWD Source | Reservoir Continuous Reservoir Weekly Monthly Weekly Monthly Continuous Cypress Re Daily (from log) Ce Feeding | Total Cl: Ammonia Influent of Phosphat Free Cl: Total Cl: Ammonia Effluent SI Goal: 500-750ppm Goal: from PA 1 Free Cl: Total Cl: Ammonia eservoir. Goal - LEL CWPF. | Average: 1.27 Average: 7.2 Average: 7.2 Average: 0 or the Site Dosage: 0 Average: 0.6 Average: 5.2 Average: 0 0.35 2 Average: 0.0 Average: 2.9 Average: 0.0 CH4 Average: 0 CH4 Rar | 3; Range: 3 .70; Range: 4 .70; Range: 5 .70; Range: 6 .70; Range: 0 .5; Range: 0 .62; Range: 3 .62; Range: 3 .62; Range: 2 .700 0.32 2 .8; Range: 08; Range: 08; Range: 09; Range: 09; Range: 09; Range: 0. | 80 - 1.50 .90 - 9.20 0.69 - 0.72 WD Water 60 - 0.70 60 - 6.00 0.52 - 0.68 harges in 700 0.29 2 05 - 0.13 31 - 3.18 0.49 - 0.59 | Blend Po to Zone 1 700 360 0.21 2 | of the dis | CI/NH3 Ratio: 8.46 Stribution system % CH4 Removal 90.0% CI/NH3 Ratio: 5.70 |

APPENDIX A

LABORATORY RESULTS



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,

Stu Styles

Client Services Manager

tistes



Lomita, City ofProjectStandard AnalysisWork Order:19A029324373 Walnut AvenueSub Project:CWPF 1st Week of January, 2019 Compliance Sampli Received:01/03/19 16:15Lomita CA, 91717Project Manager:Mark AndersenReported:01/15/19

| Reservoir Influent Site #3 | | 19A0293-0 | 01 (Water) | | Sample Da | te: 01/03/19 | 9 9:10 Sa | mpler: P.1 | M. |
|-------------------------------|---------------------------|-----------|------------|------|-------------|---------------------|------------------|------------|-----------|
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 6.8 | | N/A | mg/L | 01/03/19 | 01/03/19 | 1902147 | |
| pH (Field) | Field | 7.57 | | N/A | pH Units | 01/03/19 | 01/03/19 | 1902147 | |
| Temperature (Field) | Field | 19.5 | | N/A | °C | 01/03/19 | 01/03/19 | 1902147 | |
| General Physical Analyses | | | | | | | | | |
| Apparent Color | SM 2120BM | 5.0 | 3.0 | 15 | Color Units | 01/03/19 | 01/03/19 | 1901129 | |
| 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 | | 19A0293-0 | 02 (Water) | | Sample Da | te: 01/03/19 | 9 9:45 Sa | mpler: P. | M. |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 2.84 | | N/A | mg/L | 01/03/19 | 01/03/19 | 1902147 | |
| pH (Field) | Field | 7.92 | | N/A | pH Units | 01/03/19 | 01/03/19 | 1902147 | |
| Temperature (Field) | Field | 16.6 | | N/A | °C | 01/03/19 | 01/03/19 | 1902147 | |
| General Physical Analyses | | | | | | | | | |
| Apparent Color | SM 2120BM | ND | 3.0 | 15 | Color Units | 01/03/19 | 01/03/19 | 1901129 | |
| Odor Threshold | EPA 140.1-M | 2 | 1 | 3 | TON | 01/03/19 | 01/03/19 | 1901129 | |
| General Chemical Analyses | | | | | | | | | |
| Total Filterable Residue/TDS | SM 2540C | 650 | 5.0 | 1000 | mg/L | 01/04/19 | 01/10/19 | 1901102 | |
| ND Analyte NOT DETECTED at or | above the reporting limit | | | | | | | | |



January 11, 2019

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

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

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,

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

L010402-01

| SENDING LABORATORY: | RECEIVING LABORATORY: |
|--|--|
| Clinical Laboratory of San Bernardino | Air Technology Labs |
| 21881 Barton Road | 18501 East Gale Avenue Suite 130 |
| Grand Terrace, CA 92313 | City of Industry, CA 91748 |
| Phone: 909.825.7693 | Phone :(626) 964-4032 |
| Fax: 909.825.7696 | Fax: |
| Project Manager: Stu Styles | |
| Please email results to Project Manager: Stu Styles [] glaubig@clinical-lab.com [] styles@clinical-lab.com | om [] bernstein@clinical-lab.com |
| California EDT transfer those samples with PS code Water Trax Upload Client: | |
| Turn Around Time [] 10 Days [v] 5 Days [] 0 Subcontract Comments: | Other Days |
| | A STATE OF THE PARTY OF THE PAR |
| | ROBERTHER CATELOR |
| Analysis | An oracory protest decreased and Comments |
| Analysis | Comments |
| Sample ID: Reservoir Effluent Site #5 / 19A0293-02 | Sampled: 01/03/19 09:45 PS Code: |
| All many services and services are services and services and services and services and services are services are services and services are services and services are services | Water WTX ID: |
| Methane RSK175 | Report in mg/L |
| Containers Supplied: | The state of the s |
| 40ml Amber Vial (B) 40ml Amber Vi | |
| Tom Timour Via: (B) | 101 (C) |
| To get the transport of the finance | |
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| Released By / Date / Time | Received By Date / Time |
| Man all del also | Jan no William Nazi |
| Released By Date / Time | Received By Date / Time |

Client:

Clinical Laboratory

Attn:

Stu Styles

Project Name:

NA

Project No .: Date Received: 19A0293

Matrix:

01/04/19 Water

Reporting Units: mg/L

| RSK1 | ME |
|--------|----|
| K NK I | 15 |
| TANTEL | 10 |

| Lab No.: | K0104 | 02-01 | | | | |
|---------------------|--------------------|-------------|--|---|--|--|
| | Reservoir | Effluent | | | | |
| Client Sample I.D.: | Site #5 / 19A0293- | | | | | |
| | 02 | 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 |) | | | | |
| | Result | RL | | | | |
| ANALYTE | mg/L | | | | | |
| Methane | 0.35 | 0.35 0.0010 | | | | |
| | | | | | | |

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Operations Manager

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 | | L | LCS LCSD | | | | = | | |
|---------------------|----------------|------------|-----------------------|----------------|----------|----------------|--------|-----|-------------|--------------|-------------|
| Date/Time Analyzed: | 1/7/19 1 | 0:16 | | 1/7/19 9:47 | | 1/7/19 10:02 | | | | | |
| Analyst Initials: | CM/N | IJ | | 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 Manager

The cover letter is an integral part of this analytical report

19,40293

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| Client | | | City of Lomita | Sys | System Nu | Number | | | | Anal | Analysis Requested | edne | sted | | | | |
|---------------|-----------|---|---|-----------------|-----------|------------|-------------------------|-------------|---|--------|---------------------------|----------|--------------|--|---------------|------------------------|-------------------------------|
| Address | | 2. | 24373 Walnut Avenue | | | 101 | 1010072 | | | | | | | | | | |
| | | | Lomita, CA 91717 | | | 5 | | | | | | M | | | | | |
| Phone # | | | (310)903-2243 | | Q | estination | Destination Laboratory | ory | | | | eth | | | | | |
| Fax# | | | | | ت | (] Clinica | [X] Clinical Laboratory | ory | | Ire | Total | ane | | | | | |
| Project | | | Standard Analysis | | 1 | WQCB C | RWQCB Compliance | j, | | on / M | Co I Disse | (Wa | O | | | | |
| 40 | | CWPF IST WE | CWPF 1st week of January, 2019 Compliance | | | <u> </u> | yes | | | lang | olve | | dor | | | | |
| sub Project | π. | | Sampling | | : | | ELAP# | | | anes | | | | | | | |
| Comments | | For TC/EC/BA | For TC/EC/BACT see weekly Distro CoC | | | 16 | 4000 | | | e | ids | SK1 | | | | | |
| Sampled by | ح | | P.M. | | | _ | 000 | | | | | 75) | | | | | |
| Date | Time | | Sample Idenitification | Matrix | Type | Preserv | Нd | Temp. | Total Chlorine | | | | | | | Comments / P.S. Codes | S. Codes |
| 1/3/2019 | 04/6 | 09/0 Reservoir Influent Site #3 | uent Site #3 | MG | 1W | A/N | 7.5.1 | 1850 | $\stackrel{\triangleright}{}$ | x | X | 1 | | | | | |
| | | | | | | | | | | | | | | | | | |
| 1/3/2019 | 3460 | O945 Reservoir Effluent Site #5 | uent Site #5 | »C | <u>*</u> | V/N | 26 | 999 | 75.2 | | X | | × | | | | |
| 1/3/2019 | 17960 | O 94 G Reservoir Effluent Site #5 | uent Site #5 | DW | <u>₩</u> | 7 | | _ | | | | × | | | | | |
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| | | | | | | | | | | | \dashv | \dashv | | - | | | |
| Preservative | S: (1) Na | Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 | (4) NH4CI | Matrix: DW-Drin | W-Drinkir | g Water, | WW-Was | te Water, ! | king Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air | Water, | GW-G | round | Water, | 4-Air | | Type- | Type- 1-Routine, 2-Repeat, 3- |
| (5) H2S | .04 (6) N | (5) H2SO4 (6) Na2SO3 (7) Cold (8) Other: | 3) Other: | | | | | | Кер. | laceme | int, 4-5 | oecial | W-Well | Replacement, 4-Special W-Well D- Dist. | | | |
| Relin | quished | Relinquished By (Sign) | Print Name / Company | | | | Date / Time | Time | | | | | | | | Print Name / Company | Company |
| 200 | P 7 | The Mean | Patrick McCue / City of Lomita | | 1/3/2019 | | | | 12.1 | 4 | \$ | ع ع | 3 | V | , c | CLSBA | |
| がなん | 3 | | Mike Clark Clar | 5 | (3/16 | 4 | 7 | 13 | | | 7 | ₹ Ş | 111 | A CAR | X Jone | る本で | SR |
| Comments: | ts: | | | | - | <i>S</i> | amples | received | Samples received: (A) On ice | ice (| 5 | Intact | | Custod | Custody seals | Temp_ 6. C. (|)F ()C |
| Shinned Via | | | Fed X Golden State | SUL | Client | | Other | | | | | 1 | Page_1_of_1_ | -1-fo | | | |
| and and dance | , | | | - | | | | | | | | | | | | | |



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,

Stu Styles

Client Services Manager

tistes



Lomita, City ofProject:Standard AnalysisWork Order:19A074924373 Walnut AvenueSub Project:CWPF Monthly Compliance Samples, 2nd Wk of Jan Received:01/08/19 17:57

Lomita CA, 91717 Project Manager: Mark Andersen Reported: 01/21/19

| Raw Water Site #1 | | 19A0749- | 01 (Water) | | Sample Da | te: 01/08/19 | 10:30 | Sampler: P | atrick McCue |
|---|------------|----------|------------|------|-------------|--------------|----------|------------|--------------|
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| 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 | |
| General Chemical Analyses | | | | | | | | | |
| Hardness, Total (as CaCO3) | 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 | |
| <u>Metals</u> | | | | | | | | | |
| 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 Da | te: 01/08/19 | 10:40 | Sampler: P | atrick McCue |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| 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 | Α | | 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 |



Lomita, City ofProject:Standard AnalysisWork Order:19A074924373 Walnut AvenueSub Project:CWPF Monthly Compliance Samples, 2nd Wk of Jan Received:01/08/19 17:57

Lomita CA, 91717 Project Manager: Mark Andersen Reported: 01/21/19

| Filter Effluent (Total Chlorine) Site #3 | | 19A0749-0 | 03 (Water) | | Sample Da | te: 01/08/19 | 10:43 | Sampler: | Patrick McCue |
|--|-------------|-----------|------------|------|-------------|---------------|----------|----------|---------------|
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | l Batch | Qualifier |
| 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 | |
| <u>Metals</u> | | | | | | | | | |
| 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 | | 19A0749-0 | 04 (Water) | | Sample Da | ote: 01/08/19 | 10:45 | Sampler: | Patrick McCue |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | l Batch | Qualifier |
| 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 | |
| <u>Metals</u> | | | | | | | | | |
| 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 | | 19A0749-0 | 05 (Water) | | Sample Da | te: 01/08/19 | 10:47 | Sampler: | Patrick McCue |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | l Batch | Qualifier |
| 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 | |
| General Chemical Analyses | | | | | | | | | |
| Total Filterable Residue/TDS | SM 2540C | 700 | 5.0 | 1000 | mg/L | 01/15/19 | 01/18/19 | 1903060 | |
| | | | 2.0 | | | | | | |



Lomita, City ofProjectStandard AnalysisWork Order:19A074924373 Walnut AvenueSub Project:CWPF Monthly Compliance Samples, 2nd Wk of Jan Received:01/08/19 17:57Lomita CA, 91717Project Manager:Mark AndersenReported: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

LA Cert #04140 EPA Methods T03, T014A, T015, 25C/3C, RSK-175

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

TX Cert T104704450-14-6 EPA Methods T014A, T015 UT Cert CA0133332015-3 EPA Methods T03, T014A, T015, 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,

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

K0(1003-01/02

| SENDING LABORATORY: | RECEIVING LABORATORY: | |
|--|---|---|
| Clinical Laboratory of San Bernardino | Air Technology Labs | |
| 21881 Barton Road | 18501 East Gale Avenue Suite | 130 |
| Grand Terrace, CA 92313 | City of Industry, CA 91748 | |
| Phone: 909.825.7693 | Phone :(626) 964-4032 | ^ |
| Fax: 909.825.7696 | Fax: | |
| Project Manager: Stu Styles | | |
| | lab.com [] bernstein@clinical-lab.com | |
| California EDT transfer those samples with P Water Trax Upload Client: | S codes provided [] Yes [/] No [] Yes [/] No | |
| Turn Around Time [] 10 Days Subcontract Comments: | [] Other Days | 500 |
| | A contract of the second of th | |
| Analysis | o an Danger on County agreef the announcement of the announcement | Comments |
| Sample ID: Raw Water Site #1 / 19A0749-01 | Sampled: 01/08/19 10:30 PS Code: Water WTX | magnis ma in the following of the same of |
| Methane RSK175 | | Report in mg/L |
| Containers Supplied: | City allow may. Takkita | |
| 40ml Amber Vial (A) 40ml Am | ber Vial (B) | |
| Sample ID: Reservoir Effluent Site #5 / 19A0749-05 | Sampled: 01/08/19 10:47 PS Code: Water WTX | i ID: |
| Methane RSK175 | | Report in mg/L |
| | Take the graph of the state of the section of | report in hig L |
| Containers Supplied: 40ml Amber Vial (B) 40ml Am | ber Vial (C) | |
| | J. Scrien C. J. Nami | |
| | 4 | |
| | | |
| | | |
| | | 4 |
| | | |
| | | |
| | Medical Section 2015 and Control Contr | |
| S. A. CO. CO. A. C. CO. CO. C. C. CO. C. | In order to decree a special organization of the property of the | |
| | -1 MA | 11 7 0 |
| Released By Date / Time | 17:30 Millellelle | 1/10/19 8:00 |
| | Received By | Date / Time |
| | | 1/0/00 |
| Released By Date / Time | 10:19 J. Carlo | 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.: | K0110 | 03-01 | K0110 | 03-02 | | |
|---------------------|----------|-----------|-------------|---------|--|-------|
| | Raw Wate | r Site #1 | Reservoir | | | la la |
| Client Sample I.D.: | / 19A07 | | Site #5 / 1 | 9A0749- | | |
| | 7 151107 | 12 01 | 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.: | 1901140 | GC8A1 | 1901140 | GC8A1 | | |
| Analyst Initials: | CM/MJ | | CM/ | MJ | | |
| Dilution Factor: | 1.0 |) | 1.0 | | | |
| | Result | RL | Result | RL | | |
| ANALYTE | mg/L | mg/L | mg/L | mg/L | | |
| Methane | 3.0 | 0.0010 | 0.32 | 0.0010 | | |
| | | - | | | | |

| ND= | Not | Detected | (helow | MDL | h |
|------|------|----------|--------|-------|---|
| -עוו | TOPE | Detected | (DEIOW | IVIDL | , |

RL = Reporting Limit

Reviewed/Approved By:

Operations Manager

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 | | L | CS | LO | CSD | | | | |
|---------------------|----------------|------------|-----------------------|----------------|---------|----------------|---------|-----|-------------|--------------|-------------|
| Date/Time Analyzed: | 1/14/19 | 9:54 | | 1/14/1 | 19 9:27 | 1/14/ | 19 9:41 | | | | |
| Analyst Initials: | CM/M | 1J | | CM | I/MJ | CM | I/MJ | | | | |
| Dilution Factor: | 1.0 | | | 1 | .0 | 1 | .0 | | | | e e |
| 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

The cover letter is an integral part of this analytical report

2/3/11

1940749 Chain of Custody

| Client | | City of Lomita | Syste | System Number | per | | | ٩ | Analysis Requested | Requ | ested | - | | _ | | |
|---|--|--|-----------|---------------|-----------|-------------------------|-------------|--|--------------------------------------|----------|--------------------|--------|--------------|----------------------|----------------------------|-------|
| Address | | 24373 Walnut Avenue | | | 101 | 1910073 | | | - | T | | | | | | |
| | | Lomita, CA 91717 | | | 2 | 5 | | | | otal | М | | | | | |
| Phone # | | (310)903-2243 | | De | stination | Destination Laboratory | ory | T | | Co | eth | | | | | |
| Fax# | | | | × | Clinica | [X] Clinical Laboratory | ory | | | | | | | | | |
| Project | | Standard Analysis | | * | WQCB C | RWQCB Compliance | 9 | | | | | | | | | _ |
| Sub Project | 0 | CWPF Monthly Compliance Samples; 2nd week of Jan., 2019 | | | 7 3 | YES ELAP# | | | Manga | | ater) (| trate | dor olor | | | _ |
| Comments | | | | | 7 | 1088 | | 501143 | nese Solids | oli P-A | RSK1 | | | | | |
| Sampled by | | Patrick McCue | | | | | | | | / HP | 75) | | | | | |
| Date | Time | Sample Idenitification | Matrix | Туре | Preserv | Temp. | Нď | Total Chlorine | | С | | | | | | |
| 6 | 10.30 | Raw Water Site #1 | GW | I.W | N/A | 2093 | 7.58 | Ø | × | | - | | × | | | |
| Т | 1030 | Raw Water Site #1 | МЭ | 1.0 | 1, 2, 7 | %€ O | 7.58 | Ø | _ | ×- | × | | | | | |
| | | | | | | | | | | | - | | - | | | |
| 1/8/2019 | 10:10 | Filter Effluent (Free Chlorine) Sitc#2 | DW | ¥ | 1,7 | 219 | 7.54 | 14.0 | | × | | | - | _ | | |
| + | 670 | Filter Effluent (Total Chlorine) Site#3 | ΝQ | <u>\$</u> | K/X | 219 | 7.55 | 13.1 . | `× | | | | <u>'</u> × | | | |
| | 2401 | Zone #2 Site #6 | DW | G1 | N/A | 174: | 618 | 2,09. | ·× | | × | | _ | | | |
| | | | | | | | | _ | | | - | | | | | |
| 1/8/2019 | 777 | Reservoir Effluent Site #5 | § A | 9 | N/N | 18.0° | 7.88 | 2.73, | × | | | | × | | | |
| T | 10117 | Reservoir Effluent Site #5 | MO | = | 2.7 | | | | | | × | | | | | |
| Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 |) Na ₂ S ₂ O ₃ (2 |) HCI (3) HNO3 (4) NH4CI | Matrix: D | W-Drink | ing Wate | r, ww-w | aste Water, | Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air | Storm Water, GW- Ground Water, A-Air | W- Gre | und W. | ter, A | Vir Dist. | | Type- 1-Routine, 2-Repost. | poat. |
| (5) H2SO4 (I | 6) Na2SO3 (| (5) H2SO4 (6) Na2SO3 (7) Cold (8) Other: | | | | | | dau-c | accinen | , | | 5 | | | Drint Nama / Company | |
| Relinquis | Relinquished By (Sign) | gn) Print Name / Company | y. | | | Date / Time | Time | 141 | | * | Received By (Sign) | S) (S) | (us | | Lini Name / Company | i |
| Potrice ome | mc, s | Patrick McCue /City of Lomita 1/8/201 | Lomita | | 6 | | | , | | 14 | 10 | 1 | _ | | (X/13/00/00/16/2) | 8 |
| | 3000 | C (traporne | son/ | 7 | | | | 157 | - | 3 | 13 | 3 | \$ | \$ TOTAL | Ap (M 048) | |
| Comments: | | | | _ | Ĩ. | amples 1 | received | Samples received On ice | <u> </u> | Antact (| | Cus | pax se |) Custody seals Temp | np 4,6 ()F ()C | 1 |
| Chinnad Via | | Fed X Golden State | e UPS | - S | Client | Other | er | | | | | Page 1 | 1 fo | | | |
| 4 | | | | | | | | - | | | | | | | | |



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,

Stu Styles

Client Services Manager

tistes



Lomita, City ofProjectStandard AnalysisWork Order:19A136824373 Walnut AvenueSub Project:CWPF 3rd Week of January, 2019 Compliance SampliReceived:01/15/19 19:00Lomita CA, 91717Project Manager:Mark AndersenReported:01/25/19

| Reservoir Influent Site #3 | | 19A1368-0 | 01 (Water) | | Sample Da | te: 01/15/19 | 7:45 Sa | mpler: P.1 | M. |
|------------------------------|-------------|-----------|------------|------|-------------|---------------------|----------------|------------|-----------|
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 8.2 | | N/A | mg/L | 01/15/19 | 01/15/19 | 1903083 | |
| pH (Field) | Field | 7.59 | | N/A | pH Units | 01/15/19 | 01/15/19 | 1903083 | |
| Temperature (Field) | Field | 18.9 | | N/A | °C | 01/15/19 | 01/15/19 | 1903083 | |
| General Physical Analyses | | | | | | | | | |
| Apparent Color | SM 2120BM | 5.0 | 3.0 | 15 | Color Units | 01/15/19 | 01/15/19 | 1903094 | |
| 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 | | 19A1368-0 | 02 (Water) | | Sample Da | te: 01/15/19 | 7:55 Sa | mpler: P.1 | M. |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 3.32 | | N/A | mg/L | 01/15/19 | 01/15/19 | 1903083 | |
| pH (Field) | Field | 7.95 | | N/A | pH Units | 01/15/19 | 01/15/19 | 1903083 | |
| Temperature (Field) | Field | 17.7 | | N/A | °C | 01/15/19 | 01/15/19 | 1903083 | |
| General Physical Analyses | | | | | | | | | |
| Apparent Color | SM 2120BM | ND | 3.0 | 15 | Color Units | 01/15/19 | 01/15/19 | 1903094 | |
| Odor Threshold | EPA 140.1-M | 2 | 1 | 3 | TON | 01/15/19 | 01/15/19 | 1903094 | |
| General Chemical Analyses | | | | | | | | | |
| Total Filterable Residue/TDS | SM 2540C | 700 | 5.0 | 1000 | mg/L | 01/21/19 | 01/23/19 | 1904026 | |
| | | | | | | | | | |



January 24, 2019

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



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,

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: | RECEIVING 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 | 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 [] bernstein@clinical-lab.com | |
| California EDT transfer those samples with PS of Water Trax Upload Client: | codes provided [] Yes [V] No [] Yes [V] No [] | |
| Turn Around Time [] 10 Days [√] 5 Days [Subcontract Comments: |] Other Days | |
| | | |
| Analysis | Comments | |
| Sample ID: Reservoir Effluent Site #5 / 19A1368-02 | Sampled: 01/15/19 07:55 PS Code: Water WTX ID: | |
| Methane RSK175 | Report in mg/L | - |
| Containers Supplied: 0ml Amber Vial (B) 40ml Amber | r Vial (C) | |
| | 2 | m |

400

| | | 1 | 1 | |
|-------------|----------------|--------------|------------------|---|
| Bo Oh | 01/17/19 07:30 | 110000000000 | han 1/17/19 8:00 | |
| Released By | Date / Time | Received By | / Date// Time | - |
| M. Salel | 1/17/19 12:44 | ()w | n= 1/17/19 /24 | 4 |
| Released By | Date / Time | Received By | Date / Time | - |
| | | 1 | | |

Client:

Clinical Laboratory

Lab No.:

Attn:

Stu Styles

Project Name:

NA

Project No.:

19A1368

Date Received:

01/17/19

Matrix:

Water

Reporting Units: mg/L

| K011704-01 | | |
|-------------------|---|---|
| eservoir Effluent | | |
| ite #5/19A1368- | | |
| 02 | 2 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| 1/15/10 5 55 | | |

| | Reservoir | Effluent | | | | |
|---------------------|-------------|-----------|-----|----|--|--|
| Client Sample I.D.: | Site #5/19 | A1368- | | | | |
| | 02 | 2 | | 10 | | |
| 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 |) | | | | |
| | Result | RL | | | | |
| ANALYTE | mg/L | mg/L mg/L | | | | |
| Methane | 0.29 | 0.0010 | | | | |
| | | | | | | |

RSK175

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 I | BLANK | | L | CS | LO | CSD | | | | |
|---------------------|----------------|------------|-----------------------|----------------|--------|----------------|---------|-----|-------------|--------------|-------------|
| Date/Time Analyzed: | 1/22/19 | 9:39 | | 1/22/1 | 9 9:10 | 1/22/ | 19 9:25 | | | | |
| Analyst Initials: | CM/N | IJ | | CM | 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

Chain of Custody

1/2/0

| Client | City of Lomita | System Num | umber | | | Analysis Requested | s Requ | uestec | | | | |
|------------------------------------|---|--|-------------------------|----------------------------|------------|--|---------|----------------|--------------|---------|----------------------|-------------------------------|
| Address | 24373 Walnut Avenue | | 1910073 | 73 | | | | | | | | |
| | Lomita, CA 91717 | | | 2 | | | 174 | M | | | | |
| Phone # | (310)903-2243 | Đ _e | Destination Laboratory | boratory | | 7 | | eth | | | | |
| Fa×# | | X | [X] Clinical Laboratory | boratory | | | | ine | | | | |
| Project | Standard Analysis | R | RWQCB Compliance | pliance | | | Co | Od (Wa | | | | |
| Sub Project | CWPF 3rd week of January , 2019 Compliance Sampling | | yes ELAP# | # | | olved Sol | lor | lor ter) (R | | | | |
| Comments | For TC/EC/BACT see weekly Distro CoC | | 4088 | α | | | | SK1 | | | | |
| Sampled by | P.M. | | 2 | o | | _ | 70, | 75) | | | | |
| Date Time | Sample Identification | Matrix Type | Preserv | pH Temp. | Chloring | | | | | | Comment | Comments / P.S. Codes |
| 34LQ 610Z/S1/1 | 1/15/2019 のすりら Reservoir Influent Site #3 | DW 1W | N/A 7 | 5918.9 | 8.2 | × | × | | + | + | | |
| | | | | | - | | | 1 | \downarrow | | | |
| 5560 6102/51/1 | 07 なら Reservoir Effluent Site #5 | DW 1W | N/A | .95 17.70 | 3.32 | × | × | × | | | | |
| 1/15/2019 0755 | 87 S Reservoir Effluent Site #5 | WI WG | 2 | | | | | × | | - | | |
| | | | | | | | | - | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | 1 | | |
| | | | | | | + | 1 | + | \downarrow | + | | *** |
| | | | | | | + | | | + | - | | *** |
| | | | | | | | | | 1 | - | | |
| | | | | | | | | H | | | | |
| Preservatives: (1) Na ₂ | Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI | Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air | ng Water, M | /W-Waste Water | , SW-Storm | Nater, Gl | N- Grou | nd Wat | er, A-Air | į | Type | Type- 1-Routine, 2-Repeat, 3- |
| (5) H2SO4 (6) N. | la2SO3 (7) Cold (8) Other: | | | | Repla | Replacement, 4-Special W-Well D- Dist. | 4-Speci | al W-V | Vell D-L | JIST. | | |
| Relinguished | Relinquished By (Sign) Print Name / Company | | a | Date / Time | | X | | . 4 | | | Print Na. | Print Name / Company |
| Totale Mi | Patrick McCue / City of Lomita | omita 1/15/2019 | | 330 | | 1 | 180 | 24 | 7 | 1 | 1 Chaps | 00/45B |
| 1 house | | 1 837 | | 700 | | \vdash | HE | 3 | TOWN STATE | | enought. | JA CLER |
| Comments: | | | Sai | Samples received: (MOn ice | d: (XOn | ice (| Thtact | 2 |) Cust | ody se. | Custody seals Temp 7 | COF ()C |
| Shipped Via | Fed X Golden State | UPS C'llent | 1 Other | her | | | | Page | Page_1_of_ | 1 | | |
| | | | | | | | | | | | | |



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,

Stu Styles

Client Services Manager

tistes



Lomita, City ofProjectStandard AnalysisWork Order:19A174824373 Walnut AvenueSub Project:CWPF 4th Week of January, 2019 Compliance SampliReceived:01/22/19 17:15Lomita CA, 91717Project Manager:Mark AndersenReported:02/01/19

| Reservoir Influent Site #3 | | 19A1748-0 | 01 (Water) | | Sample Da | te: 01/22/19 | 9 8:00 S | ampler: P. | M. |
|----------------------------------|---------------------------|-----------|------------|------|-------------|--------------|-----------------|------------|-----------|
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 8.4 | | N/A | mg/L | 01/22/19 | 01/22/19 | 1904079 | |
| pH (Field) | Field | 7.59 | | N/A | pH Units | 01/22/19 | 01/22/19 | 1904079 | |
| Temperature (Field) | Field | 18 | | N/A | °C | 01/22/19 | 01/22/19 | 1904079 | |
| General Physical Analyses | | | | | | | | | |
| Apparent Color | SM 2120BM | 5.0 | 3.0 | 15 | Color Units | 01/22/19 | 01/22/19 | 1904104 | |
| <u>Metals</u> | | | | | | | | | |
| 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 | | 19A1748-0 | 02 (Water) | | Sample Da | te: 01/22/19 | 9 11:00 S | ampler: P. | M. |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 2.98 | | N/A | mg/L | 01/22/19 | 01/22/19 | 1904079 | |
| pH (Field) | Field | 8.07 | | N/A | pH Units | 01/22/19 | 01/22/19 | 1904079 | |
| Temperature (Field) | Field | 17.7 | | N/A | °C | 01/22/19 | 01/22/19 | 1904079 | |
| General Physical Analyses | | | | | | | | | |
| Apparent Color | SM 2120BM | ND | 3.0 | 15 | Color Units | 01/22/19 | 01/22/19 | 1904104 | |
| Odor Threshold | EPA 140.1-M | 2 | 1 | 3 | TON | 01/22/19 | 01/22/19 | 1904104 | |
| General Chemical Analyses | | | | | | | | | |
| Hardness, Total (as CaCO3) | Calculated | 360 | 6.6 | N/A | mg/L | 01/23/19 | 01/24/19 | [CALC] | |
| Total Filterable Residue/TDS | SM 2540C | 700 | 5.0 | 1000 | mg/L | 01/24/19 | 01/25/19 | 1904108 | |
| <u>Metals</u> | | | | | | | | | |
| Calcium (Ca) | EPA 200.7 | 92 | 1.0 | N/A | mg/L | 01/23/19 | 01/24/19 | 1904075 | |
| Magnesium (Mg) | EPA 200.7 | 31 | 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

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 T03, T014A, T015, RSK-175

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

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,

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

Ko12301-01

Date / Time

| SENDING LABORATORY: | RECEIVING LABORATORY: | |
|--|--|--|
| Clinical Laboratory of San Bernardino | Air Technology Labs | |
| 21881 Barton Road | 18501 East Gale Avenue Suite 130 | |
| Grand Terrace, CA 92313 | City of Industry, CA 91748 | |
| Phone: 909.825.7693 | Phone :(626) 964-4032 | |
| Fax: 909.825.7696 Project Manager: Stu Styles | Fax: | |
| 1 Toject Wianager. Stu Styles | | ., |
| Please email results to Project Manager: Stu Style | | |
| | cal-lab.com [] bernstein@clinical-lab.com | |
| California EDT transfer those samples wi Water Trax Upload Client: | th PS codes provided [] Yes [1] No [] Yes [1] No | 4.7 |
| Turn Around Time [] 10 Days [\sqrt{5 Day} 5 Days Subcontract Comments: | ys [] Other Days | |
| | SEASON TO ACT OF THE | |
| Analysis | ali i ali alimpiati pia Communia | |
| Allalysis | Comments | 3.8 |
| Sample ID: Reservoir Effluent Site #5 / 19A1748-0 | 2 Sampled: 01/22/19 11:00 PS Code: | The second control of |
| | Water WTX ID: | |
| | Air Cactoraic gy Laur | |
| Methane RSK175 | Report in mg/ | L |
| Containers Supplied: 10ml Amber Vial (B) 40ml | Amber Vial (C) | |
| 40iii. | Amber Vial (C) | |
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| Released By Date / Time | 1027 100/19 | 1027 |
| Date / Ilm | e Received By Date / T | ime |

Client:

Clinical Laboratory

Attn:

Stu Styles

Project Name:

NA

Project No.:

19A1748 01/23/19

Date Received: Matrix:

Water

Reporting Units: mg/L

| RS | T 7 1 | FFF |
|------|-------|-----|
| K | ΚП | 17 |
| TANI | | 10 |

| Lab No.: | K0123 | 01-01 | , <u>\$</u> | | | | |
|---------------------|-------------|----------|-------------|---|---|--|---|
| | Reservoir | Effluent | | | | | 0 |
| Client Sample I.D.: | Site #5 / 1 | 9A1748- | n | | 2 | | |
| | 02 | 2 | | 1 | | | |
| Date/Time Sampled: | 1/22/19 | 11:00 | | | | | |
| Date/Time Analyzed: | 1/29/19 | 13:44 | | | | | |
| QC Batch No.: | 1901290 | GC8A1 | | | | | |
| Analyst Initials: | CM/ | MJ | | | | | |
| Dilution Factor: | 1.0 |) | | | | | |
| | Result | RL | | | | | |
| ANALYTE | mg/L | mg/L | | | | | |
| Methane | 0.21 | 0.0010 | | | | | |
| | V | | | | | | |

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson

Operations Manager

Date 1-30-19

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 | | L | CS | LO | CSD | | | | |
|---------------------|----------------|------------|-----------------------|----------------|---------|----------------|---------|-----|-------------|--------------|-------------|
| Date/Time Analyzed: | 1/29/19 1 | 3:12 | | 1/29/1 | 9 12:37 | 1/29/1 | 9 12:58 | | | | |
| Analyst Initials: | CM/N | 1J | | CM | I/MJ | CIV | I/MJ | | | | |
| Dilution Factor: | 1.0 | | | 1 | .0 | 1 | .0 | | | | 2 4 |
| 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

1941748 Chain of Custody

| Clent | City of Lomita | Syste | System Number | per | | | | Analysis Requested | sis Re | senba | ted | | | | | | | | |
|------------------------|---|-----------|---------------|--------------|------------------------|---------------|--|--|-------------------|----------|-------------------|--------------|--------|---------------------------------|------|--------|-------------------------------|-----------|--------|
| Address | 24373 Walnut Avenue | | | 1910073 | 07.2 | | | | | | - | | | | | | | | |
| | Lomita, CA 91717 | | | 0 0 | 2 | | | | | M | _11 | 1 1 | | | | | | | |
| Phone # | (310)903-2243 | | De | ination | estination Laboratory | | | | | eth | 0, | | | | | | | | |
| Fax# | | | Σ | Clinical | X] Clinical Laboratory | > | | | | ane | <u> </u> | - | | | | | | | |
| Project | Standard Analysis | | Ē | VQCB Co | RWQCB Compliance | | | | | (Wa | <u>vv</u> e 00 | | | | | | | | |
| Sub Project | CWPF 4th week of January, 2019 Compliance Sampling | | | yes ELAP# | ## Q. | | | langanes | olor olved Sol | iter) (R | SS dor | | | | | | | | |
| Comments | For TC/EC/BACT see weekly Distro CoC | | | 4000 | 00 | | | | ide | SKI | | | | | | | | | |
| Sampled by | P.M. | | | 2 | 0 | | | | | 75) | - | | | | | | | | |
| Date Time | Sample Idenitification | Matrix | Type | Preserv | Ho | Temp. | Tetal Chlorine | | | | | | | _ | Com | nments | Comments / P.S. Codes | sepo | |
| 1/22/2019 C&C | රිලිරට Reservoir Influent Site #3 | DW | 1W | ΑN | 2.59 | ري. ا ي ري | 84 | × | X | | | | | | | | | | |
| - 1 | -1 | | | | | ţ | 5 | | -+ | | \dashv | ┥. | | | | | | | |
| 1/22/2019 110G | Reservoir Effluent Site #5 | DW | 1W | N A M | 107 | 17, 10 | 36.2 | | × | | × | X | | | | | | | |
| 1/22/2019 11 GC | Reservoir Effluent Site #5 | DW | 1W | 2 | 8.07 | 17.70 | 2.98 | | - | X | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | - |
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| | | | | | | | | | | | + | - | | | | | | | |
| Preservatives: (1) | Preservatives: (1) Na.S.O. (2) HCI (3) HNO3 (4) NH4CI | Matrix: D | W-Drinkir | g Water, | WW-Was | te Water, | Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Ali | Water, | GW. G | puno | Vater, / | 4-Air | | | | Type- | Type- 1-Routine, 2-Repeat, 3- | e, 2-Repe | at, 3- |
| (5) H2SO4 (6) | | | | | | | Repl | Replacement, 4-Special W-Well D- Dist. | ıt, 4-Sp | ecial V | V-Well | D- Dis | t. | | | | | | |
| Relinguished By (Sign) | I By (Sign) Print Name / Company | | | | Date / Time | me | | | 6 | 7 | | | | | Prin | nt Nam | Print Name / Compans | any | |
| tatuck m | MCCo Patrick McCue / City of Lomita | | 1/22/2019 | | | 12 | 7 | | 2/1 | Rock | 20 | 1 | 1/00 | Wi | Mari | CAR | 10 | 1517 | 3 |
| h/Chm |)! ON | 255 | 13 | | 1 | 2 | γ. | | | 1 | 3 | \mathbb{Z} | 7 | 3 | 6 | 9 | | | |
| Comments: | ı | | | Š | ımples ı | eceived | Samples received: (XOn ice (| ice 🗸 | V | tz Ez |) (| Custoc | ly sea | Intact () Custody seals Temp 7 | 7 du |) ; | ϕ) F | () C | |
| Shipped Via | Fed X Golden State | I I UPS | Client | | Other | | | | | | Page_1_of | of 1 | | | | | | | |



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,

Stu Styles

Client Services Manager

tistes



Lomita, City ofProjectStandard AnalysisWork Order:19A241124373 Walnut AvenueSub Project:CWPF 5th Week of January, 2019 Compliance SampliReceived:01/30/19 16:22Lomita CA, 91717Project Manager:Mark AndersenReported:02/07/19

| Reservoir Influent Site #3 | | 19A2411-0 | 01 (Water) | | Sample Da | te: 01/30/19 | 6:40 Sa | mpler: P.1 | M. |
|-------------------------------|---------------------------|-----------|------------|------|-------------|--------------|----------------|------------|-----------|
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 8.6 | | N/A | mg/L | 01/30/19 | 01/30/19 | 1905103 | |
| pH (Field) | Field | 7.66 | | N/A | pH Units | 01/30/19 | 01/30/19 | 1905103 | |
| Temperature (Field) | Field | 20.3 | | N/A | °C | 01/30/19 | 01/30/19 | 1905103 | |
| General Physical Analyses | | | | | | | | | |
| Apparent Color | SM 2120BM | 5.0 | 3.0 | 15 | Color Units | 01/30/19 | 01/30/19 | 1905114 | |
| 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 | | 19A2411-0 | 02 (Water) | | Sample Da | te: 01/30/19 | 9:20 Sa | mpler: P. | M. |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 2.82 | | N/A | mg/L | 01/30/19 | 01/30/19 | 1905103 | |
| pH (Field) | Field | 7.99 | | N/A | pH Units | 01/30/19 | 01/30/19 | 1905103 | |
| Temperature (Field) | Field | 17.4 | | N/A | °C | 01/30/19 | 01/30/19 | 1905103 | |
| General Physical Analyses | | | | | | | | | |
| Apparent Color | SM 2120BM | 7.5 | 3.0 | 15 | Color Units | 01/30/19 | 01/30/19 | 1905114 | |
| Odor Threshold | EPA 140.1-M | 2 | 1 | 3 | TON | 01/30/19 | 01/30/19 | 1905114 | |
| General Chemical Analyses | | | | | | | | | |
| Total Filterable Residue/TDS | SM 2540C | 660 | 5.0 | 1000 | mg/L | 02/04/19 | 02/05/19 | 1906028 | |
| ND Analyte NOT DETECTED at or | above the reporting limit | | | | | | | | |



February 7, 2019

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: 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,

Mark Johnson

Operations Manager

MJohnson@AirTechLabs.com

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino 19A2411

Ko13101-01

| SENDING LABORATORY: | <u>RECEIVING LABORATORY:</u> | | |
|--|----------------------------------|------------------------|----------------------------------|
| Clinical Laboratory of San Bernardino | Air Technology Labs | | |
| 21881 Barton Road | 18501 East Gale Avenue Suite 130 | | |
| Grand Terrace, CA 92313 | City of Industry, CA 91748 | | |
| Phone: 909.825.7693 | Phone :(626) 964-4032 | | W. |
| Fax: 909.825.7696 | Fax: | | |
| Project Manager: Stu Styles | | | |
| Please email results to Project Manager: Stu Styles [] glaubig@clinical-lab.com [styles@clinical-lab.co | om [] bernstein@clinical-lab.com | | |
| California EDT transfer those samples with PS coor Water Trax Upload Client: | des provided [] Yes [] No | | 8. 9 8 |
| Turn Around Time [] 10 Days [] 5 Days [] Subcontract Comments: | Other Days | | |
| | | | |
| 40 | | | |
| Analysis | Co | mments | |
| Allalysis | | initiality | |
| Sample ID: Reservoir Effluent Site #5 / 19A2411-02 | Sampled: 01/30/19 09:20 PS Code: | that were bed in about | Consect Section 1 is as a second |
| | Water WTX ID: | | |
| Methane RSK175 | Rei | oort in mg/L | |
| Containers Supplied: | | /ort in ing/D | |
| Oml Amber Vial (B) 40ml Amber V | Jial (C) | | |
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| Released By Date / Time | Received By | Date / Time | V - |
| M. Jaly 1/3//19 10:00 | Amount all & Se | 113/19 | 1000 |
| 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

| | | RS | K175 | | | |
|---------------------|-------------|----------|------|--|-----|-----|
| T I NT | TZ0121 | 04 04 | | | T T | |
| Lab No.: | K0131 | | | | | |
| | Reservoir | Effluent | | | | > 1 |
| Client Sample I.D.: | Site #5 / 1 | 9A2411- | | | | |
| | 02 | 2 | | | | |
| Date/Time Sampled: | 1/30/19 | 9:20 | | | | |
| Date/Time Analyzed: | 2/6/19 | 13:27 | | | | |
| QC Batch No.: | 1902060 | GC8A1 | | | | |
| Analyst Initials: | CM/ | MJ | | | | |
| Dilution Factor: | 1.0 |) | | | | |
| | Result | RL | | | | |
| ANALYTE | mg/L | mg/L | | | | |
| Methane | 0.33 | 0.0010 | | | | |

| | | | 100 | | |
|------|-----|----------|--------|-----|--|
| ND = | Not | Detected | (helow | RIA | |

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson

Operations Manager

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 | | L | CS | LO | CSD | | | | |
|---------------------|----------------|------------|-----------------------|----------------|--------|----------------|---------|-----|-------------|--------------|-------------|
| Date/Time Analyzed: | 2/6/19 1 | 2:25 | | 2/6/19 | 12:54 | 2/6/19 | 9 13:08 | | | | |
| Analyst Initials: | CM/N | 1J | | CM | I/MJ | CM | I/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

6 13

Chain of Custody

IgAayil

| Client | City of Lomita | Sys | System Numbe | per | i. San | | | Analysis Requested | s Requ | nested | | | | |
|----------------------|---|------------|--------------|------------|-------------------------|----------|--|--------------------|----------|------------------------|--|-----------|-----------------------|-------------------------------|
| Address | 24373 Walnut Avenue | | | 1910 | 910073 | | | | | | | | | |
| | Lomita, CA 91717 | | | _ | 2 | | | | | M | | | | |
| Phone # | (310)903-2243 | | De | stination | Destination Laboratory | ٨ | | | | eth | | | | |
| Fax# | 100 miles | | X | Clinical | [X] Clinical Laboratory | 7 | | | | ane | | | | |
| Project | Standard Analysis | | R. | MGCB C | RWQCB Compllance | _ | | | | | | | | |
| Sub Project | CWPF 5th week of January, 2019 | | | × | yes | | | olved S angan | lor | ior ter) (| | | | |
| Comments | Enr TC/EC/RACT see weekly Diefro CoC | | | | ± 6 | | | | | RSK | | | | |
| Sampled by | P.M. | | | 2 | 1088 | | | | | 175) | | | | |
| Date Time | Sample Idenitification | Matrix | Type | Preserv | 뜊 | Temp. | Total | | | | | | Comments / P.S. Codes | səp |
| 1/30/2019 064 | O 640 Reservoir Influent Site #3 | DW | <u>¥</u> | ¥ X | 7.66 | 20,3 | ි ව | X | X | H | | | | |
| 1 | | | | | | | | | | | | | | |
| 260 6102/08/1 | ○920 Reservoir Effluent Site #5 | DW | 1W | N/A | 7.93 | 1746 | 7,87 | × | × | × | | | | |
| 1/30/2019 | Reservoir Effluent Site #5 | ΜQ | N N | 7 | | | | | | X | | | | |
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| | | | | | | | | - | 1 | - | | _ | | |
| | | | | | | | | | | | | | | |
| Preservatives: (1) N | Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI | Matrix: DV | V-Drinking | y Water, V | VW-Wast e | Water, S | Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Ali | ater, GV | V. Groun | nd Wate | r, A-Air | , | Type- 1-Rout | Type- 1-Routine, 2-Repeat, 3- |
| (5) HZSO4 (6) | (5) H2SO4 (6) Na2SO3 (7) Cold (8) Other: | | | | | Sec. | Керіа | cement, | 4-Speci | a/ W-N | Replacement, 4-Special W-Well D- DIST. | ינ וני | | |
| Relinquishe | Relinquished By (Sign) Print Name / Company | | | • | Date / Ti | Time / | | _(| ς | | | | Print Name / Comp | any |
| Pateur Me | Patri | 1 | 1/30/2019 | | 12:3 | 0 | | J) | 内 | N N | 1 | | 5. WEND 0158 | |
| | J. Luceno/c138 | | 61.06-1 | | 1615 | | 6:22 | ξ | 4 | 1 | | teins | 1 Phaced 14 | 12/ mary (Cl) |
| Comments | | | | S. | ımples r | eceived; | Samples received: X On ice | $\overline{}$ |) Intac |) ; | Intact () Custody seals Temp | dy seals | Temp 5.9 () F | × |
| Shipped Via | Fed X Golden State | San | Client | | Other | | | | | Page | Page_1_of_1_ | | | <u></u> |
| an i maddana | | | | | | | | | | | | | | |



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,

Stu Styles

Client Services Manager

tistes



Lomita, City ofProjectStandard AnalysisWork Order:19A073924373 Walnut AvenueSub Project:Lomita Distribution Ortho, 2nd Week January 2019Received:01/08/19 17:57Lomita CA, 91717Project Manager:Mark AndersenReported:01/21/19

| 1948 252nd St. | | 19A0739-0 | 01 (Water) | | Sample Da | nte: 01/08/19 | 8:00 | Sampler: P. | M. |
|---------------------------|-----------|-----------|------------|-----|-----------|---------------|---------------|-------------|-----------|
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 2.6 | | N/A | mg/L | 01/08/19 | 01/08/19 | 1902181 | |
| pH (Field) | Field | 7.89 | | N/A | pH Units | 01/08/19 | 01/08/19 | 1902181 | |
| Temperature (Field) | Field | 16.6 | | N/A | °C | 01/08/19 | 01/08/19 | 1902181 | |
| General Chemical Analyses | | | | | | | | | |
| Ortho-Phosphate (PO4) | HACH 8048 | 0.57 | 0.020 | N/A | mg/L | 01/09/19 | 01/09/19 | 1902134 | |
| Phosphorus (Total as P) | HACH 8190 | 0.45 | 0.0067 | N/A | mg/L | 01/09/19 | 01/09/19 | 1902133 | |
| 24632 S. Moon | | 19A0739-0 | 02 (Water) | | Sample Da | ote: 01/08/19 | 9:35 S | Sampler: P. | M. |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 2.6 | | N/A | mg/L | 01/08/19 | 01/08/19 | 1902181 | |
| pH (Field) | Field | 7.85 | | N/A | pH Units | 01/08/19 | 01/08/19 | 1902181 | |
| Temperature (Field) | Field | 17.5 | | N/A | °C | 01/08/19 | 01/08/19 | 1902181 | |
| General Chemical Analyses | | | | | | | | | |
| Ortho-Phosphate (PO4) | HACH 8048 | 0.56 | 0.020 | N/A | mg/L | 01/09/19 | 01/09/19 | 1902134 | |
| Phosphorus (Total as P) | HACH 8190 | 0.44 | 0.0067 | N/A | mg/L | 01/09/19 | 01/09/19 | 1902133 | |
| 2450 W. 247th St. | | 19A0739-0 | 03 (Water) | | Sample Da | ote: 01/08/19 | 9:55 S | Sampler: P. | M. |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 0.77 | | N/A | mg/L | 01/08/19 | 01/08/19 | 1902181 | |
| pH (Field) | Field | 7.71 | | N/A | pH Units | 01/08/19 | 01/08/19 | 1902181 | |
| Temperature (Field) | Field | 18.3 | | N/A | °C | 01/08/19 | 01/08/19 | 1902181 | |
| General Chemical Analyses | | | | | | | | | |
| Ortho-Phosphate (PO4) | HACH 8048 | 0.54 | 0.020 | N/A | mg/L | 01/09/19 | 01/09/19 | 1902151 | |
| Phosphorus (Total as P) | HACH 8190 | 0.47 | 0.0067 | N/A | mg/L | 01/09/19 | 01/09/19 | 1902133 | |



Lomita, City ofProject:Standard AnalysisWork Order:19A073924373 Walnut AvenueSub Project:Lomita Distribution Ortho, 2nd Week January 2019Received:01/08/19 17:57Lomita CA, 91717Project Manager:Mark AndersenReported:01/21/19

| | | 19A0739-0 | 04 (Water) | | Sample Date: 01/08/19 12:35 Sampler: P.M. | | | | |
|------------------------------------|----------------|------------|------------|------------|---|----------------------|----------------------|--------------------|--------------------|
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 1.46 | | N/A | mg/L | 01/08/19 | 01/08/19 | 1902181 | |
| pH (Field) | Field | 7.81 | | N/A | pH Units | 01/08/19 | 01/08/19 | 1902181 | |
| Temperature (Field) | Field | 18.9 | | N/A | °C | 01/08/19 | 01/08/19 | 1902181 | |
| General Chemical Analyses | | | | | | | | | |
| Ortho-Phosphate (PO4) | HACH 8048 | 0.56 | 0.020 | N/A | mg/L | 01/09/19 | 01/09/19 | 1902151 | |
| Phosphorus (Total as P) | HACH 8190 | 0.46 | 0.0067 | N/A | mg/L | 01/09/19 | 01/09/19 | 1902133 | |
| CWPF SP5 | | 19A0739-0 | 05 (Water) | | Sample Da | ote: 01/08/19 | 9 10:47 Sa | mpler: P.1 | M. |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| | Field | 2.73 | | N/A | mg/L | 01/08/19 | 01/08/19 | 1902181 | |
| Cl Res Total (Field) | | | | | - | | | | |
| Cl Res Total (Field) pH (Field) | Field | 7.88 | | N/A | pH Units | 01/08/19 | 01/08/19 | 1902181 | |
| , , | Field Field | 7.88 18 | | N/A N/A | pH Units °C | 01/08/19 01/08/19 | 01/08/19 01/08/19 | 1902181 1902181 | |
| pH (Field) Temperature (Field) | | | | | • | | | | |
| pH (Field) Temperature (Field) | | | 0.020 | | • | | | | |
| pH (Field) | | | | | • | | | | 1902181 1902181 |

1 970739 Chain of Custody 0/0/5

Clinical Laboratory of San Bernardino, Inc.

| Client | City of Lomita | Syst | System Number | nber | | | | Analy | Analysis Requested | ted | |
|------------------------|---|--------|---------------|---------------|--|-------------------|---------------|---------------|--|----------|--------------------------|
| Address | 24373 Walnut Avenue | | | 10, | 1910073 | | | | | | |
| | Lomita, CA 91717 | | | 2 | 2 200 | | | | 7 | | |
| Phone # | (310) 903-2243 | | | Destinati | Destination Laboratory | _ | | | то. | | |
| Fax# | (310) 325-3627 | | | [X] Clinic | [X] Clinical Laboratory | | | | AI F | | |
| Project | Standard Analysis | | | RWQCB | RWQCB Compliance | | | | эно | | |
| Sub Project | Lomita Distribution Ortho, 2nd Week January, 2019 | | | Ш | No ELAP# | | | PHATE | SPHATI | | |
| Comments | | | | _ | 4000 | | | | E (PO | | |
| Sampled by | P.M. | | | _ | 000 | | | | 04) | | 30 |
| Date Time | Sample Idenitification | Matrix | Type | Preserv Nu | Bottle Temp. | Total Chlorine | hф | | | | Comments / r.s. Codes |
| | | | | | | | | | | | |
| 1/8/2019 (7800 | 1948 252ND ST. | NG DW | DI | N/A | 3 146 | ٦.6 | 7.89 | × | × | | |
| | 0935 24632 S. MOON | MO | D1 | N/A | 4 17.50 | 2.6 | 7.85 | × | X | | |
| 5560 6102/8/1 | 2450 W. 247th ST. | wa | DI | V/N | 6 183 | 0,77 | 7,71 | X | X | | |
| 1/8/2019 [235 | | » | Ξ | V/N | 189. | 9K'1 | 12,81 | Х | X | | |
| 7701 610Z/8/1 | OY7 CWPF SP5 | » | Ξ | N/A | 8 18.0° | EL'2 3 | 7.88 | × | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | 1 | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Preservatives: (1) Na | Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI | | Ma | trix: DW-Drit | iking Water, V | WW-Waste V | Nater, SW-S | torm M | Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air | ound Wa | ıter, A-Air |
| (5) H2SO4 (6) N | (5) H2SO4 (6) Na2SO3 (7) Cold (8) Other: | | | Type | 1-Routine, 2 | Repeat, 3-F | Replacemen | t, 4-Sp(| Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D- Dist. | D- DIST. | |
| Relinquished By (Sign) | By (Sign) Print Name / Company | | | | Date / Time | ne | 7 | 1/1 | Received By (Sign) | | Print Name / Company |
| Polar money | Patrick McCue / City of Lomit | æ | 1/8/2019 | | (50) | | 17 | 1837 | the state of | MDC | " Liane my CES |
| 4 Chinoss | 1) Chapane (Liss | | | \$ | | | | `, | J. Sect. | X | , |
| | - | | <u>•</u> | samples re | Samples received: (X) On ice | √On ice | (XIntact F |) () () | Custody seals Temp | seals 1 | () 4 () |
| Chinnad Via | Fed X Golden State | Sd/1 | Client | nt Other | le.r | | | | Page 1 of | 1 | |
| Sudpen vu | 1 | | - | ļ | The state of the s | | | | | | |

APPENDIX B

METHANE MONITORING LOG



CITY OF LOMITA PUBLIC WORKS DEPARTMENT

CYPRESS WATER PRODUCTION FACILITY HANDHELD METHANE LOG READINGS

| | | | ARY 2019 | RY 2019 | | | | | | |
|-----------|-----|--------|----------|-----------|-------|----------|--|--|--|--|
| DATE | DAY | | METHAN | E HANDHEI | LD | COMMENTS | | | | |
| 1/1/2019 | Sat | CH4- | | Оху- | | | | | | |
| 1/2/2019 | Sun | CH4- | | Оху- | | | | | | |
| 1/3/2019 | Mon | CH4- | | Оху- | | | | | | |
| 1/4/2019 | Tue | CH4- | 3% | Оху- | 20.7% | | | | | |
| 1/5/2019 | Wed | CH4- | | Оху- | | | | | | |
| 1/6/2019 | Thu | CH4- | | Оху- | | | | | | |
| 1/7/2019 | Fri | CH4- | | Оху- | | | | | | |
| 1/8/2019 | Sat | CH4- | 1% | Оху- | 20.9% | | | | | |
| 1/9/2019 | Sun | CH4- | 1% | Оху- | 20.9% | | | | | |
| 1/10/2019 | Mon | CH4- | | Оху- | | | | | | |
| 1/11/2019 | Tue | · CH4- | | Оху- | | | | | | |
| 1/12/2019 | Wed | CH4- | | Оху- | | | | | | |
| 1/13/2019 | Thu | CH4- | | Оху- | | | | | | |
| 1/14/2019 | Fri | CH4- | | Оху- | | | | | | |
| 1/15/2019 | Sat | CH4- | 0% | Оху- | 20.9% | | | | | |
| 1/16/2019 | Sun | CH4- | 0% | Оху- | 20.9% | | | | | |
| 1/17/2019 | Mon | CH4- | 0% | Оху- | 20.9% | | | | | |
| 1/18/2019 | Tue | CH4- | 0% | Оху- | 20.9% | | | | | |
| 1/19/2019 | Wed | CH4- | | Оху- | | | | | | |
| 1/20/2019 | Thu | CH4- | | Оху- | | | | | | |
| 1/21/2019 | Fri | CH4- | | Оху- | | | | | | |
| 1/22/2019 | Sat | CH4- | 0% | Оху- | 20.9% | | | | | |
| 1/23/2019 | Sun | CH4- | 0% | Оху- | 20.9% | | | | | |
| 1/24/2019 | Mon | CH4- | 0% | Оху- | 20.9% | | | | | |
| 1/25/2019 | Tue | CH4- | | Оху- | | | | | | |
| 1/26/2019 | Wed | CH4- | | Оху- | | | | | | |
| 1/27/2019 | Thu | CH4- | | Оху- | | | | | | |
| 1/28/2019 | Fri | CH4- | 0% | Оху- | 20.9% | | | | | |
| 1/29/2019 | Sat | CH4- | | Оху- | | | | | | |
| 1/30/2019 | Sun | CH4- | | Оху- | | | | | | |
| 1/31/2019 | Mon | CH4- | 0% | Оху- | 20.9% | | | | | |

ND- Non Detect CH4- Methane

Oxy- Oxygen

Day Off/Holiday- Red

APPENDIX C

NITRIFICATION MONITORING DATA SUMMARY

¹ MONTHLY NITRIFICATION MONITORING SUMMARY REPORT CITY OF LOMITA, System No. 1910073 --- Month, Year: <u>JANUARY 2019</u>

| # Code | Sample ID | Location | Sample Date | Temp | рН | Total Chlorine | Free Chlorine | Total Ammonia | Free Ammonia | Nitrite ³ | Nitrate | Coliform ² | HPC | Zone | Comments |
|---------|--------------------|--|-------------|------|------|-------------------|---------------|--|-------------------------|-------------------------------|----------|-----------------------|----------|------|---|
| Units/C | \rightarrow | | 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 | Α | 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 | Α | 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 | Α | 2 | 1 | Well/MWD Blend |
| 4 D | Α | 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 | 80.0 | 0.55 | 0.04 | 0.006 | ND | A | ND | 1 | Well/MWD Blend |
| 6 D | \$13-001 | 1912 W 259th St | 1/3/2019 | 14.5 | 8.20 | 1.93 | 0.03 | > 0.29 | 0.09 | 0.006 | ND | Α | 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 | Α | ND ND | 3 | MWD Only |
| 8 D | \$13-005 | 2500 PCH | 1/3/2019 | 15.5 | 8.16 | 1.91 | 0.04 | 0.46 | 0.09 | 3 = 0.006° | ND | A | ND | 2 | MWD Only |
| | 1 1 | | | | | | | Torotty suctes plany #89 | aggest votati Lassinse. | NA CARAMANA SANTA | | | | | Liver to the same of the same |
| 1 D | \$13-003 | 1948 W 252nd St | 1/8/2019 | 16.6 | 7.89 | 2.60 | 0.07 | (4,7±0.03/1) | 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 | €-/5.0:00% : | 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 | Α | ND | 3 | MWD Only |
| 8 D | \$13-005 | 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 |
| | | | | | | | | Province delication and a | | | | | 3 | 1 4 | Well/MWD Blend |
| 1 D | \$13-003 | 1948 W 252nd St | 1/15/2019 | 16.5 | 7.96 | 3.00_ | 0.06 | 0.59 | 0.05 | 0.015 | ND | . A | | 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 | | |
| 3 D | \$13-008 | 25417 Pennsylvania Ave | 1/15/2019 | 16.9 | 7.91 | 3.00 | 0.07 | 0.25 | 0.05 | 0.013 | ND | A | 140 | 1 | Well/MWD Blend 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 ND | Α _ | 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 | | A | ND ND | 2 | MWD Only |
| 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 ND | | ND | 3 | 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 0:02 | 0.009 | ND ND | A | UND | 2 | MWD Only |
| 8 D | \$13-005 | 2500 PCH | 1/15/2019 | 15.9 | 8.21 | 2.00 | 0.07 | 0.25 | U.UZ | 0.008 | ND | A | 1 | | IVIVID Only |
| 1 D | S13-003 | 1948 W 252nd St | 1/22/2019 | 16.5 | 7.99 | 2.4 | 0.04 | 0.25 | 0.03 | 0.003 | ND | Α | ND | 1 | Well/MWD Blend |
| 2 D | | | 1/22/2019 | 16.8 | 7.95 | 2.13 | 0.04 | 0.19 | 0.05 | 0.020 | ND | Ã | 8 | 1 | Well/MWD Blend |
| 3 D | S13-004 S13-008 | 24632 S Moon Ave 25417 Pennsylvania Ave | 1/22/2019 | 17.3 | 8.03 | 2.13 | 0.00 | 0.13 | 0.03 | 0.020 | ND | A | 4 | 1 | Well/MWD Blend |
| 4 D | - | 2052 Dawn St | 1/22/2019 | 17.3 | 7.90 | 1.20 | 0.03 | 0.13 | 0.08 | ⊋:÷0.059 | ND | Â | 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 | + | 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 | | 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 | | 2500 PCH | 1/22/2019 | 16.2 | 8.33 | 2.04 | 0.06 | 0.25 | 0.04 | 0.010 | ND | 1 | ND ND | 2 | MWD Only |
| ם וס | 212-002 | 2500 PCn | 1/22/2013 | 10.2 | 0.55 | 2.04 | 0.00 | Total march Control of the Control o | topicalo. Ottober | May 6, 0, 10 10 10 1, 10 10 1 | | · | | · | |
| 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 | Α Ι | ND | 1 | Well/MWD Blend |
| 2 D | | 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 | + | 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 | | 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 | А | ND | 1 | Well/MWD Blend |
| 6 D | | 1912 W 259th St | 1/30/2019 | 15.4 | 8.40 | 1.96 | 0.03 | 0.39 | 0.00 | 0.004 | ND | Α | ND | 2 | MWD Only |
| 7 D | | 26314 S Monte Vista Ave | 1/30/2019 | 15.4 | 8.32 | 1.99 | 0.04 | ≥0:44≥ 5 | Ø.05 | 0.004 | ND | Α | ND | 3 | MWD Only |
| 8 D | | 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 |

^{&#}x27;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).

²Coliform results are part of weekly Bacti sampling results.

³The 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.