CITY OF LOMITA



Cypress Water Production Facility Monthly Status Report

May 2017

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CITY COUNCIL

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ADMINISTRATION

RYAN SMOOT
CITY MANAGER

CITY OF LOMITA

June 12, 2017

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

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

Dear Mr. Williams,

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

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

Sincerely,

Mark A. McAvoy, P.E.

Mark andersen

Public Works Director/City Engineer

A. BACKGROUND

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

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

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

B. WELL PRODUCTION

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

Table 1. Monthly Production Totals.

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

C. OPERATIONAL INTERRUPTIONS

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

D. SAMPLE LOCATIONS

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

E. WATER QUALITY MONITORING

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

E1. IRON, MANGANESE AND COLOR

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

E2. FREE AND TOTAL CHLORINE RESIDUALS

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

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

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

E3-1 TOTAL DISSOLVED SOLIDS (TDS)

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

E3-2 HARDNESS

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

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

E3-3 DISSOLVED METHANE (IN WATER)

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

E3-4 METHANE (IN AIR)

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

E3-5 ODOR

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

E4. NITRIFICATION MONITORING

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

F. TABLES

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

| | | SP1, V | Vell Rav | v Water | Discha | arge | | Pres | Comb sure f | Filter | SP3, After chloramination static mixer; reservoir entry | | | | | | |
|---------------|------------|------------------|-----------------|----------------|--------|---------|----------------|----------------|----------------|---------|---|-----------------|-----------------|----------------|-------|---------|--|
| 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 | |
| 5/3/2017 | | | | | | 73.53 | 1515-1 | | | Hely 2 | ND | 300 | ND | 50 | 5 | 15 | |
| 5/10/2017 | 200 | 300 | 130 | 50 | 7.5 | 15 | Α | А | Α | 500 | ND | 300 | ND | 50 | 7.5 | 15 | |
| 5/17/2017 | W.C. | 200 300 130 | | | | | | | | | ND | 300 | ND | 50 | 5 | 15 | |
| 5/24/2017 | 7 | | | 3000 | | | | | ND | 300 | ND | 50 | ND | 15 | | | |
| 5/31/2017 | | | | | | | | | | | ND | 300 | ND | 50 | 5 | 15 | |

Notes:

Monthly- Orange; Weekly- Yellow

A – Absent

ND - Non Detect

*Per the SWRCB Drinking Water "Chemicals and Contaminants in Drinking Water" Regulations

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

| Date. | SP2 | | SP3 | | | SP4 | | | SP5 | |
|-----------|---------|---------|----------|--------------------------|---------|----------|--------------|---------|----------|--------------|
| week of | Free CI | Free CI | Total CI | Total NH ₃ | Free CI | Total CI | Total NH₃ | Free CI | Total CI | Total NH₃ |
| 5/3/2017 | 4.42 | 0.44 | 4.93 | 0.93 | 0.30 | 4.09 | 0.73 | 0.06 | 3.39 | 0.72 |
| 5/10/2017 | 4.87 | 0.31 | 5.08 | 1.17 | 0.33 | 4.27 | 0.85 | 0.07 | 3.11 | 0.74 |
| 5/17/2017 | 5.07 | 0.50 | 5.30 | 0.77 | 0.38 | 4.17 | 0.68 | 0.08 | 3.32 | 0.62 |
| 5/24/2017 | 5.76 | 0.65 | 5.02 | 0.67 | 0.47 | 4.51 | 0.69 | 0.10 | 3.30 | 0.58 |
| 5/31/2017 | 6.85 | 0.78 | 5.38 | 0.54 | 0.53 | 4.27 | 0.55 | 0.10 | 3.74 | 0.63 |

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

| | | TD | S, mg/L | | T.C | D.N. | | Hardr | ness, m | g/L | 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 | |
| 5/3/2017 | | | 570 | 500-750 | 2 | 3 | | | | | | 0.40 | |
| 5/10/2017 | 750 | 290 | 510 | 500-750 | 1 | 3 | 350 | 110 | 230 | 180-250 | 4.2 | 0.53 | |
| 5/17/2017 | | | 580 | 500-750 | 1 | 3 | | | | | | 0.45 | |
| 5/24/2017 | | | 540 | 500-750 | 2 | 3 | | | SC Mark | | | 0.44 | |
| 5/31/2017 | | | 560 | 500-750 | 3 | 3 | | | | | A TO | 0.39 | |
| Average | | | 552 | 500-750 | 1.8 | 3 | | | | | | 0.44 | |

Notes:

Monthly- <u>Orange</u>; Weekly- <u>Yellow</u> ppm – parts per million mg/L – milligram per liter T.O.N. - Threshold Odor Number

TDS - Total Dissolved Solids

Hardness - As total CaCO3

Methane (Water) - Methane dissolved in water

Monthly CWPF Monitoring Report – May 2017 Cypress Water Production Facility City of Lomita; System No. 1910073

| Sample Locations and Parameters | Frequency | MCL/ Goal | 5/3 | 5/10 | 5/17 | 5/24 | 5/31 5 th Wk | Comments |
|---|--|--|---|--|--|------------------------------|-----------------------------------|---|
| and Farameters | 1 | Guai | 1stWk | 2 nd Wk | 3rdWk | 4 th Wk | 5 VVK | and/or |
| | | | or Mo. | 1 | | | | Other Info. |
| | | | Result | | | | | |
| | | İ | (date) | 1 | | | | |
| SP1 Also called | Well 5 Ray | Water o | | | | | 3 | |
| TDS, ppm | Monthly | See SP5 | 750 | Operations | Data/Inforn | nation: | | *Chlorine injected after |
| 100, ppm | Wieriany | 3 1009408HIDDAN 00944 H0551 | 5//10/17 | ************************************** | | iddioii. | | SP1, before entering |
| Hardness | Monthly | See SP5 | 350 | CWPF opera | ition days | | | the greensand filter. |
| CU4 nnm | Monthly | See SP5 | 5/10/17 4.2 | | Daily average t | low - 499 gpm | ; total prod. | |
| CH4, ppm | Wichting | 000010 | 4.2 5/10/17 | - 64.28 AF | I-II E/MAID -I- | .4 0 | /-U.E. MAA/D | |
| Iron, ppb | Monthly | See SP3 | 200 | blend Ratio - | 1611 5/MWD da | ata: Average V | vell 5: MVVD Il prod | |
| - 30 35 | | See SP3 | 5/10/17 | 128.33 AF | 00 /0 1122210 | 0,0,111,12,1010 | | |
| Manganese, ppb | Monthly | See SP3 | 130 5/10/17 | OL | N 1/A+ | | | |
| Color, units | Monthly | See SP3 | 7.5 | Chlorine Do | sage: N/A^ | | | |
| | 311 (64) Provide (64) (64) | | 5/10/17 | | | | | 19 |
| Total Coliform, P or A | Monthly | Α | Α | | | | | |
| CD2 Also selled | T:14a Eff | 1 C: | 5/10/17 | | | | | |
| SP2 Also called | | | | | | | | *Ammonia added after |
| Total Coliform, P or A | Monthly | A 500 | A | Ammonia D | osage: N/A* | | | filter effluent |
| HPC,MPN/100 ml | Monthly Continuous | 500 | A | | | | | |
| Free Cl Res, ppm | | THE RESERVE THE PERSON NAMED IN | NAME AND ADDRESS OF TAXABLE PARTY. | ge: 4.42 – 6 | THE RESERVE OF THE PARTY OF THE | | 0'1 // 4 | |
| SP3 Also called | | | | | | | | |
| Iron, ppb | Weekly | 300 | ND | ND | ND | ND | ND | 9 |
| Manganese, ppb | Weekly | 50 | ND | ND | ND | ND | ND | |
| | | | | | | | | 1 |
| Color | Weekly | 15 | 5 | 7.5 | 5 | ND | 5 | * |
| Free and Total CI Res, | Weekly Continuous | Free CI: / | Average: 0.5 | 4; Range: 0. | 31 – 0.78 | ND | 5 | ž |
| Free and Total CI Res, | | Free CI: / | Average: 0.5 Average: 5.1 | 4; Range: 0. 4; Range: 4 | 31 – 0.78 93 – 5.38 | ND | 5 | * |
| Free and Total CI Res, ppm | Continuous | Free CI: A Total CI: A Ammonia | Average: 0.5 Average: 5.1 : Average: 0 | 4; Range: 0. 4; Range: 4 .82; Range: 0 | 31 – 0.78 .93 – 5.38 0.54 – 1.17 | · | | hate Injection |
| Free and Total CI Res, ppm SP4 Also called | Continuous | Free CI: A Total CI: A Ammonia | Average: 0.5 Average: 5.1 : Average: 0 or the Site | 4; Range: 0. 4; Range: 4. 82; Range: 0 • Well 5/M\ | 31 – 0.78 .93 – 5.38 0.54 – 1.17 | · | | hate Injection. |
| Free and Total CI Res, ppm SP4 Also called Phosphate Injection | Continuous | Free CI: / Total CI: / Ammonia Influent (Phosphate | Average: 0.5 Average: 5.1 : Average: 0 or the Site e Dosage: 0 | 4; Range: 0. 4; Range: 4. 82; Range: 6 • Well 5/M\ 0.41 mg/L | 31 – 0.78 93 – 5.38 0.54 – 1.17 VD Water | · | | |
| Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, | Continuous Reservoir | Free CI: / Total CI: / Ammonia Influent (Phosphate Free CI: / | Average: 0.5 Average: 5.1 : Average: 0 or the Site e Dosage: 0 Average: 0.4 | 4; Range: 0. 4; Range: 4. 82; Range: 0. Well 5/MV 0.41 mg/L 0; Range: 0. | 31 – 0.78 93 – 5.38 0.54 – 1.17 ND Water 30 – 0.53 | · | | hate Injection. CI/NH3 Ratio: 6.08 |
| Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, | Continuous Reservoir | Free CI: A Total CI: A Ammonia Influent (Phosphate Free CI: A Total CI: A | Average: 0.5 Average: 5.1 : Average: 0 or the Site e Dosage: 0 Average: 0.4 Average: 4.2 | 4; Range: 0. 4; Range: 4. 82; Range: 6 • Well 5/M\ 0.41 mg/L | 31 – 0.78 93 – 5.38 0.54 – 1.17 VD Water 30 – 0.53 09 – 4.51 | · | | CI/NH3 Ratio: |
| Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm | Reservoir Continuous | Free CI: / Total CI: / Ammonia Influent (Phosphate Free CI: / Total CI: / Ammonia | Average: 0.5 Average: 5.1 : Average: 0 or the Site e Dosage: 0 Average: 0.4 Average: 4.2 : Average: 0 | 4; Range: 0. 4; Range: 4 82; Range: 6 Well 5/MV 1.41 mg/L 0; Range: 0. 16; Range: 4 70; Range: 6 | 31 – 0.78 93 – 5.38 0.54 – 1.17 VD Water 30 – 0.53 09 – 4.51 0.55 – 0.85 | Blend Po | int/Phosp | CI/NH3 Ratio: 6.08 |
| Free and Total CI Res, ppm SP4 Also called Phosphate Injection Free and Total CI Res, ppm SP5 Also called | Reservoir Continuous | Free CI: / Total CI: / Ammonia Influent (Phosphate Free CI: / Total CI: / Ammonia | Average: 0.5 Average: 5.1 : Average: 0 or the Site e Dosage: 0 Average: 0.4 Average: 4.2 : Average: 0 | 4; Range: 0. 4; Range: 4 82; Range: 6 Well 5/MV 1.41 mg/L 0; Range: 0. 16; Range: 4 70; Range: 6 | 31 – 0.78 93 – 5.38 0.54 – 1.17 VD Water 30 – 0.53 09 – 4.51 0.55 – 0.85 | Blend Po | int/Phosp | CI/NH3 Ratio: 6.08 |
| 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 | Free CI: A Ammonia Influent of Phosphate Free CI: A Total CI: A Ammonia Effluent of SI Goal: 500-750ppm SI Goal: | Average: 0.5 Average: 5.1 : Average: 0 or the Site e Dosage: 0 Average: 0.4 Average: 4.2 : Average: 0 or Site#5. | 4; Range: 0. 4; Range: 4. 82; Range: 6 9 Well 5/MV 1.41 mg/L 0; Range: 0. 16; Range: 4. 70; Range: 4 510 | 31 – 0.78 93 – 5.38 0.54 – 1.17 VD Water 30 – 0.53 09 – 4.51 0.55 – 0.85 harges int | Blend Po | int/Phosp of the dis | CI/NH3 Ratio: 6.08 |
| 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 | Free CI: / Total CI: / Ammonia Influent (Phosphate Free CI: / Total CI: / Ammonia Effluent (SI Goal: 500-750ppm | Average: 0.5 Average: 5.1 : Average: 0 or the Site e Dosage: 0 Average: 0.4 Average: 4.2 : Average: 0 or Site#5. | 4; Range: 0. 4; Range: 4 82; Range: 6 Well 5/MV 1.41 mg/L 0; Range: 0. 16; Range: 4 70; Range: 0 SP5 disc | 31 – 0.78 93 – 5.38 0.54 – 1.17 VD Water 30 – 0.53 09 – 4.51 0.55 – 0.85 harges int | Blend Po | int/Phosp of the dis | CI/NH3 Ratio: 6.08 tribution 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 CH4, ppm | Reservoir Continuous Reservoir Weekly Monthly | Free CI: / Total CI: / Ammonia Influent (Phosphate Free CI: / Total CI: / Ammonia: Effluent (SI Goal: 500-750ppm SI Goal: 180-250ppm Goal: from | Average: 0.5 Average: 5.1 : Average: 0 or the Site e Dosage: 0 Average: 0.4 Average: 4.2 : Average: 0 or Site#5. | 4; Range: 0. 4; Range: 4. 82; Range: 6 • Well 5/MV .41 mg/L 0; Range: 0. 6; Range: 4. 70; Range: 4 510 230 | 31 – 0.78 93 – 5.38 0.54 – 1.17 VD Water 30 – 0.53 09 – 4.51 0.55 – 0.85 harges in | Blend Po | of the dis | CI/NH3 Ratio: 6.08 tribution system |
| 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 | Free CI: / Total CI: / Ammonia Influent (Phosphate Free CI: / Total CI: / Ammonia Effluent (SI Goal: 500-750ppm SI Goal: 180-250ppm Goal: from PA | Average: 0.5 Average: 5.1 : Average: 0 or the Site e Dosage: C Average: 0.4 Average: 4.2 : Average: 0 or Site#5. 570 0.40 2 | 4; Range: 0. 4; Range: 4. 82; Range: 6 • Well 5/MV .41 mg/L 0; Range: 0. 6; Range: 4. 70; Range: 4 510 230 | 31 – 0.78 93 – 5.38 0.54 – 1.17 ND Water 30 – 0.53 09 – 4.51 0.55 – 0.85 harges int 580 0.45 | Blend Po to Zone 1 540 | of the dis | CI/NH3 Ratio: 6.08 tribution 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 CH4, ppm Odor, units Free and Total CI Res, | Reservoir Continuous Reservoir Weekly Monthly Weekly Monthly | Free CI: A Ammonia Influent of Phosphate Free CI: A Total CI: A Ammonia Free CI: A Ammonia Effluent of SI Goal: 500-750ppm Goal: from PA 1 Free CI: A Total CI: A | Average: 0.5 Average: 5.1 : Average: 0 or the Site e Dosage: 0 Average: 0.4 Average: 0.4 Average: 0.0 or Site#5. 570 0.40 2 Average: 0.0 Average: 0.0 Average: 0.0 Average: 0.0 Average: 0.0 Average: 0.3 | 4; Range: 0. 4; Range: 4. 82; Range: 6 • Well 5/MV 0; Range: 0. 6; Range: 4. 70; Range: 6. 510 230 0.53 1 8; Range: 0.0 7; Range: 3.1 | 31 - 0.78 93 - 5.38 0.54 - 1.17 ND Water 30 - 0.53 09 - 4.51 0.55 - 0.85 harges in 580 0.45 1 16 - 0.10 1 - 3.74 | Blend Po to Zone 1 540 | of the dis | CI/NH3 Ratio: 6.08 tribution system % CH4 Removal: 89.5% |
| 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 | Free CI: A Ammonia Influent (Phosphate Free CI: A Total CI: A Ammonia Effluent (SI Goal: 500-750ppm SI Goal: 180-250ppm Goal: from PA 1 Free CI: A Total CI: A Ammonia: | Average: 0.5 Average: 5.1 : Average: 0 or the Site e Dosage: 0 Average: 0.4 Average: 0.4 Average: 0.0 or Site#5. 570 0.40 2 Average: 0.0 Average: 0.0 Average: 0.0 Average: 0.0 Average: 0.0 Average: 0.3 | 4; Range: 0. 4; Range: 4. 82; Range: 6 • Well 5/MV 0; Range: 0. 6; Range: 4. 70; Range: 6. 8; Range: 6.0. | 31 - 0.78 93 - 5.38 0.54 - 1.17 ND Water 30 - 0.53 09 - 4.51 0.55 - 0.85 harges in 580 0.45 1 16 - 0.10 1 - 3.74 | Blend Po to Zone 1 540 | of the dis | CI/NH3 Ratio: 6.08 tribution system % CH4 Removal: 89.5% 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 | Free CI: A Total CI: A Ammonia Influent Phosphate Free CI: A Total CI: A Ammonia: Effluent SI Goal: 500-750ppm Goal: from PA 1 Free CI: A Total CI: A Ammonia: Servoir. | Average: 0.5 Average: 5.1 : Average: 5.1 : Average: 0 or the Site e Dosage: 0 Average: 0.4 Average: 0.4 The Site e Dosage: 0 Average: 0.4 Average: 0.4 Average: 0.0 Average: 0.0 Average: 0.0 Average: 0.0 Average: 0.0 | 4; Range: 0. 4; Range: 4. 82; Range: 4 82; Range: 6 9 Well 5/MV 1.41 mg/L 0; Range: 0. 16; Range: 4 70; Range: 4 70; Range: 6 510 230 0.53 1 8; Range: 0.0 7; Range: 3.1 66; Range: 0 | 31 - 0.78 93 - 5.38 0.54 - 1.17 ND Water 30 - 0.53 09 - 4.51 0.55 - 0.85 harges in 580 0.45 1 16 - 0.10 1 - 3.74 | Blend Po to Zone 1 540 | of the dis | CI/NH3 Ratio: 6.08 tribution system % CH4 Removal: 89.5% 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 | Reservoir Continuous Reservoir Weekly Monthly Weekly Monthly Continuous Cypress Re Daily | Free CI: A Total CI: A Ammonia Influent of Phosphate Free CI: A Total CI: A Ammonia: Effluent of SI Goal: 500-750ppm Goal: from PA Total CI: A Total CI: A Ammonia: Servoir. Goal - | Average: 0.5 Average: 5.1 : Average: 5.1 : Average: 0 or the Site e Dosage: 0 Average: 0.4 Average: 0.4 To Site#5. 570 0.40 2 Average: 0.0 Average: 3.3 : Average: 0.0 CH4 Aver | 4; Range: 0. 4; Range: 4 82; Range: 4 82; Range: 6 9 Well 5/MV 1.41 mg/L 0; Range: 0. 16; Range: 4 70; Range: 6 510 230 0.53 1 8; Range: 0.0 7; Range: 3.1 66; Range: 0 | 31 – 0.78 93 – 5.38 0.54 – 1.17 WD Water 30 – 0.53 09 – 4.51 0.55 – 0.85 harges int 580 0.45 1 06 – 0.10 1 – 3.74 .58 – 0.74 | Blend Po to Zone 1 540 | of the dis | CI/NH3 Ratio: 6.08 tribution system % CH4 Removal: 89.5% 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 Clare CH4 ppmv; using Portable Device | Reservoir Continuous Reservoir Weekly Monthly Weekly Monthly Continuous Cypress Re Daily (from log) | Free CI: A Total CI: A Ammonia Influent (Phosphate Free CI: A Ammonia: Effluent (SI Goal: 500-750ppm SI Goal: 180-250ppm Goal: from PA 1 Free CI: A Total CI: A Ammonia: Servoir. Goal - LEL | Average: 0.5 Average: 5.1 : Average: 5.1 : Average: 0 or the Site e Dosage: 0 Average: 0.4 Average: 0.4 Average: 0 0.40 2 Average: 0.0 Average: 0.0 Average: 0.0 CH4 Aver CH4 Ran | 4; Range: 0. 4; Range: 4 82; Range: 4 82; Range: 6 9 Well 5/MV 0.41 mg/L 0; Range: 0. 6; Range: 4 70; Range: 6 510 230 0.53 1 8; Range: 0.6; Range: 0.6; Range: 0.67; Range: 0 | 31 – 0.78 93 – 5.38 0.54 – 1.17 WD Water 30 – 0.53 09 – 4.51 0.55 – 0.85 harges int 580 0.45 1 06 – 0.10 1 – 3.74 .58 – 0.74 | 80 Zone 1 540 0.44 2 | of the dis 560 0.39 3 | CI/NH3 Ratio: 6.08 tribution system % CH4 Removal: 89.5% CI/NH3 Ratio: 5.12 |
| 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) | Free CI: A Total CI: A Ammonia Influent (Phosphate Free CI: A Ammonia: Effluent (SI Goal: 500-750ppm SI Goal: 180-250ppm Goal: from PA 1 Free CI: A Total CI: A Ammonia: Servoir. Goal - LEL | Average: 0.5 Average: 5.1 : Average: 5.1 : Average: 0 or the Site e Dosage: 0 Average: 0.4 Average: 0.4 Average: 0 0.40 2 Average: 0.0 Average: 0.0 Average: 0.0 CH4 Aver CH4 Ran | 4; Range: 0. 4; Range: 4 82; Range: 4 82; Range: 6 9 Well 5/MV 0.41 mg/L 0; Range: 0. 6; Range: 4 70; Range: 6 510 230 0.53 1 8; Range: 0.6; Range: 0.6; Range: 0.67; Range: 0 | 31 – 0.78 93 – 5.38 0.54 – 1.17 WD Water 30 – 0.53 09 – 4.51 0.55 – 0.85 harges int 580 0.45 1 06 – 0.10 1 – 3.74 .58 – 0.74 | 80 Zone 1 540 0.44 2 | of the dis 560 0.39 3 | CI/NH3 Ratio: 6.08 tribution system % CH4 Removal: 89.5% CI/NH3 Ratio: 5.12 |
| Free and Total CI Res, ppm SP4 Also called Phosphate Injection | Reservoir Continuous Reservoir Weekly Monthly Weekly Monthly Continuous Cypress Re Daily (from log) | Free CI: A Total CI: A Ammonia Influent (Phosphate Free CI: A Ammonia: Effluent (SI Goal: 500-750ppm SI Goal: 180-250ppm Goal: from PA 1 Free CI: A Total CI: A Ammonia: Servoir. Goal - LEL | Average: 0.5 Average: 5.1 : Average: 5.1 : Average: 0 or the Site e Dosage: 0 Average: 0.4 Average: 0.4 Average: 0 0.40 2 Average: 0.0 Average: 0.0 Average: 0.0 CH4 Aver CH4 Ran | 4; Range: 0. 4; Range: 4 82; Range: 4 82; Range: 6 9 Well 5/MV 0.41 mg/L 0; Range: 0. 6; Range: 4 70; Range: 6 510 230 0.53 1 8; Range: 0.6; Range: 0.6; Range: 0.67; Range: 0 | 31 – 0.78 93 – 5.38 0.54 – 1.17 WD Water 30 – 0.53 09 – 4.51 0.55 – 0.85 harges int 580 0.45 1 06 – 0.10 1 – 3.74 .58 – 0.74 | 80 Zone 1 540 0.44 2 | of the dis 560 0.39 3 | CI/NH3 Ratio: 6.08 tribution system. % CH4 Removal: 89.5% CI/NH3 Ratio: 5.12 |
| 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 CICH4 ppmv; using Portable Device SP 6 MWD Source | Reservoir Continuous Reservoir Weekly Monthly Weekly Monthly Continuous Cypress Re Daily (from log) Ce Feeding | Free CI: A Total CI: A Ammonia Influent (Phosphate Free CI: A Total CI: A Ammonia: Effluent (SI Goal: 500-750ppm Goal: from PA 1 Free CI: A Total CI: A Ammonia: Servoir. Goal - LEL CWPF. A | Average: 0.5 Average: 5.1 : Average: 5.1 : Average: 0 or the Site e Dosage: 0 Average: 0.4 Average: 0.4 Average: 0 0.40 2 Average: 0.0 Average: 0.0 Average: 0.0 CH4 Aver CH4 Ran | 4; Range: 0. 4; Range: 4. 82; Range: 4. 82; Range: 6. 9 Well 5/MV 1.41 mg/L 0; Range: 0. 16; Range: 4. 70; Range: 4. 70; Range: 4. 70; Range: 4. 710; Range: 4. 7230 0.53 1 8; Range: 0.0 7; Range: 3.1 66; Range: 3.1 66; Range: 4. 70; Range: | 31 – 0.78 93 – 5.38 0.54 – 1.17 WD Water 30 – 0.53 09 – 4.51 0.55 – 0.85 harges int 580 0.45 1 06 – 0.10 1 – 3.74 .58 – 0.74 | 80 Zone 1 540 0.44 2 | of the dis 560 0.39 3 | CI/NH3 Ratio: 6.08 tribution system % CH4 Removal: 89.5% CI/NH3 Ratio: 5.12 |

APPENDIX A

LABORATORY RESULTS



17 May 2017 Clinical Lab No.: 17E0332

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

Project Name: Standard Analysis

Sub Project: CWPF 1st week May Compliance Sampling

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

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

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

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

Sincerely,

Stu Styles

Client Services Manager

tistes



Lomita, City ofProjectStandard AnalysisWork Order:17E033224373 Walnut AvenueSub Project:CWPF 1st week May Compliance SamplingReceived:05/03/17 15:55Lomita CA, 91717Project Manager:Mark AndersenReported:05/17/17

| Reservoir Influent Site #3 | | 17E0332-0 | 01 (Water) | | Sample Da | te: 05/03/17 | 7 7:35 Sa | mpler: Pl | LM |
|-------------------------------|---------------------------|-----------|------------|------|-------------|--------------|------------------|-----------|-----------|
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 4.87 | | N/A | mg/L | 05/03/17 | 05/03/17 | 1718115 | |
| pH (Field) | Field | 7.69 | | N/A | pH Units | 05/03/17 | 05/03/17 | 1718115 | |
| Temperature (Field) | Field | 22.8 | | N/A | °C | 05/03/17 | 05/03/17 | 1718115 | |
| General Physical Analyses | | | | | | | | | |
| Apparent Color | SM 2120B-M | 5.0 | 3.0 | 15 | Color Units | 05/03/17 | 05/03/17 | 1718144 | |
| <u>Metals</u> | | | | | | | | | |
| Iron (Fe) | EPA 200.7 | ND | 100 | 300 | ug/L | 05/04/17 | 05/04/17 | 1718104 | |
| Manganese (Mn) | EPA 200.7 | ND | 20 | 50 | ug/L | 05/04/17 | 05/04/17 | 1718104 | |
| Reservoir Effluent Site #5 | | 17E0332-0 | 02 (Water) | | Sample Da | te: 05/03/17 | 7 7:40 Sa | mpler: Pl | LM |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 3.22 | | N/A | mg/L | 05/03/17 | 05/03/17 | 1718115 | |
| pH (Field) | Field | 7.98 | | N/A | pH Units | 05/03/17 | 05/03/17 | 1718115 | |
| Temperature (Field) | Field | 20.4 | | N/A | °C | 05/03/17 | 05/03/17 | 1718115 | |
| General Physical Analyses | | | | | | | | | |
| Apparent Color | SM 2120B-M | ND | 3.0 | 15 | Color Units | 05/03/17 | 05/03/17 | 1718144 | |
| Odor Threshold | EPA 140.1-M | 2 | 1 | 3 | TON | 05/03/17 | 05/03/17 | 1718144 | |
| General Chemical Analyses | | | | | | | | | |
| Total Filterable Residue/TDS | SM 2540C | 570 | 5.0 | 1000 | mg/L | 05/10/17 | 05/12/17 | 1719074 | |
| ND Analyte NOT DETECTED at or | above the renerting limit | | | | | | | | |



May 11, 2017



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



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: 17D0332 Lab Number:

1050405-01

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

Report Narrative:

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

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

Sincerely,

Mark Johnson

Operations Manager

MJohnson@AirTechLabs.com

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

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino 17E0332



| 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 [] ybarra@clinical-lab.com | [] styles@clinical-lab.com [] nelson@clinical-lab.com |
| California EDT transfer those samples with PS codes Water Trax Upload Client: | provided [] Yes [/] No [] Yes [/] No |
| Turn Around Time [] 10 Days [] Ot Subcontract Comments: | her Days |
| | |
| Analysis | Comments |
| | Sampled: 05/03/17 07:40 PS Code: Water WTX ID: |
| Methane RSK175 Containers Supplied: Oml Amber Vial (B) 40ml Amber Vial | Report in mg/L |
| >(| |
| | |
| | |
| BJ 05/04/17 08:15 Released By Date / Time | Received By Date / Time |

Client:

Clinical Laboratory

Attn:

Stu Styles

Project Name:

NA

Project No.:

17E0332

Date Received:

05/04/17

Matrix:

Water

Reporting Units: mg/L

RSK175

| Lab No.: | 105040 | | | | |
|---------------------|------------|----------|--|--|--|
| | Reservoir | Effluent | | | |
| Client Sample I.D.: | Site #5/17 | E0332- | | | |
| 3.5 | 02 | | | | |
| Date/Time Sampled: | 5/3/17 | 7:40 | | | |
| Date/Time Analyzed: | 5/10/17 | 9:31 | | | |
| QC Batch No.: | 1705100 | GC8A1 | | | |
| Analyst Initials: | AS | S | | | |
| Dilution Factor: | 1.0 |) | | | |
| | Result | RL | | | |
| ANALYTE | mg/L | mg/L | | | |
| Methane | 0.40 | 0.0010 | | | |
| | | | | | |

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

Date_5-10-17

QC Batch No.:

170510GC8A1

Matrix:

Water

Units:

mg/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

| Lab | No.: | Metho | d Blank |) | LCS | L | CSD | | |
|--------------|---------|------------|---------|-----------------|---------|-----------------|----------|------|----------|
| Date/Time Ar | alyzed: | 5/10/ | 17 9:17 | 5/10/ | 17 8:37 | 5/10/ | /17 9:04 | | |
| Analyst Ini | tials: | | AS | | AS | | AS | | |
| Data | file: | 10m | nay004 | 10r | nay001 | 10n | nay003 | | |
| Dilution Fa | ctor: | | 1.0 | 1.0 | | 1.0 | | | |
| ANALYTE | PQL | RL Results | | % Rec. Criteria | | % Rec. Criteria | | %RPD | Criteria |
| Methane | 0.001 | 0.001 | ND | 81 | 70-130% | 89 | 70-130% | 9.7 | <30 |

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By:

Mark J. Johnson Operations Manager Date: _5-10-17

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

| S Chain of Custody | | | | | Oc | lor | | | omments / P.S. Co | ph 1.69 temp 27.8 | 30 640 | v bil 1.10 tellip 10:1 | | | | | | • | -Waste Water, SW-Storm Water, GW- Ground Water, A-Air Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D- Dist. | Print Name / Company | 14 Kg C 38 | Custody seals Temp $(0.0 \text{ ()} \text{F ()})$ | Page_1_ of_1_ |
|---|----------------|---------------------|------------------------|-------------------------|-------------------|---------------------------------------|----------|---|------------------------|----------------------------|--------|--------------------------------------|---------------------------------|---|---|--|---|---|--|--------------------------------|----------------|---|--------------------------|
| 332 | | | | | CT/ | ГС/Н | | | | | 1 | # | | | - | | | | W- Grot t, 4-Spec | lign) | | $\chi_{ec{arphi}}$ | |
| 91 | ted | | | | | | | aCO3) 5K175) | | + | + | + | × | | - | | | | <i>Nater, G</i> scemen | By (Sign) | 企 | Intact | |
| <u>C</u> | Requested | | | | | lor | | | | × | ; | <u> </u> | | | | | 1 | | Storm V 3-Repla | Receive | | | |
| | sis Re | | | | | ganese | | ds ——— | | × | - | | × | + | | | | | er, SW-: Repeat, | | H | On ice | |
| | Analysis | | | | Iı | on | | | | × | | | | | | | | | ste Wat tine, 2-f | | | eg:A | |
| | System Number | 1910073 | Destination Laboratory | [X] Clinical Laboratory | RWQCB Compliance | yes | ELAP# | 1088 | Type Preserv Chlorine | 1W N/A 4.8.7 | | _ | 1W HCL 3.22 | | | | | | DW-Drinking Water, WW | Date / Time | 5/3/13/236 | Samples received: | Client Other |
| | Sys | | ď | | A | | | | Matrix | DW | | DW | DW | | | | | | Matrix: | | | | I I UPS |
| Clinical Laboratory of San Bernardino, Inc. | City of Lomita | 24373 Walnut Avenue | (310) 325-9830 | (310) 325-3627 | Standard Analysis | CWPF IST week of MAY, 2017 Compliance | Sampling | For TC/EC/BACT see weekly Distro CoC PLM | Sample Idenitification | Reservoir Influent Site #3 | | 7 6 7 4 6 Reservoir Effluent Site #5 | SP40 Reservoir Effluent Site #5 | | | | | | Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI | By (Sign) Print Name / Company | City of Lomita | NOW. | Fed X Golden State |
| Clinical L | Client | Address | Dhone # | Fax # | Project | Sub Project | | Comments Sampled by | Date Time | 5/3/17 0735 | · | 07/3/176740 | 11/ | | | | | | Preservatives: (1) Na ₂ | Relinquished By (Sign) | Patrick McCue | Comments: | Shipped Vin |



26 May 2017 Clinical Lab No.: 17E1121

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

Project Name: Standard Analysis

Sub Project: Monthly Compliance / Monthly 2nd Week May

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

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

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

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

Sincerely,

Stu Styles

Client Services Manager

tistes



Lomita, City of Project: Standard Analysis Work Order: Sub Project: Monthly Compliance / Monthly 2nd Week May 24373 Walnut Avenue

Lomita CA, 91717 Project Manager: Mark Andersen Received: 05/10/17 16:15

05/26/17

Reported:

| Field Analyses Cl Res Total (Field) Field 0 N/A mg/L 05/10/17 05/10/17 1719136 pH (Field) Field 7.3 N/A pH Units 05/10/17 05/10/17 1719136 Temperature (Field) Field 22.1 N/A ∘ C 05/10/17 05/10/17 1719136 Temperature (Field) Field 22.1 N/A ∘ C 05/10/17 05/10/17 1719136 Microbiology Analyses Total Coliform SM 9223 A N/A P/A 05/10/17 05/10/17 1719120 Plate Count SM 9223 A N/A P/A 05/10/17 05/10/17 1719120 Plate Count SM 9215B 45 1 500 CFU/ml 05/10/17 05/12/17 1719120 Plate Count SM 9215B 45 1 500 CFU/ml 05/10/17 05/12/17 1719120 Plate Count SM 7.5 3.0 15 Color Units 05/10/17 05/12/17 1719120 General Physical Analyses Apparent Color SM 7.5 3.0 15 Color Units 05/10/17 05/10/17 1719122 General Chemical Analyses Hardness, Total (as CaCO3) Calculated 350 6.6 N/A mg/L 05/10/17 05/10/17 1720080 Metals Calcium (Ca) EPA 200.7 91 1.0 N/A mg/L 05/16/17 05/17/17 1720061 Iron (Fe) EPA 200.7 200 100 300 ug/L 05/16/17 05/17/17 1720061 Magnesium (Mg) EPA 200.7 29 1.0 N/A mg/L 05/16/17 05/17/17 1720061 Magnesium (Mg) EPA 200.7 29 1.0 N/A mg/L 05/16/17 05/17/17 1720061 Magnesium (Mg) EPA 200.7 29 1.0 N/A mg/L 05/16/17 05/17/17 1720061 Magnesium (Mg) EPA 200.7 29 1.0 N/A mg/L 05/16/17 05/17/17 1720061 Magnesium (Mg) EPA 200.7 29 1.0 N/A mg/L 05/16/17 05/17/17 1720061 Magnesium (Mg) EPA 200.7 29 1.0 N/A mg/L 05/16/17 05/17/17 1720061 Magnesium (Mg) EPA 200.7 29 1.0 N/A mg/L 05/16/17 05/17/17 1720061 Magnesium (Mg) EPA 200.7 29 1.0 N/A mg/L 05/16/17 05/17/17 1720061 Magnesium (Mg) EPA 200.7 29 1.0 N/A mg/L 05/16/17 05/17/17 1720061 Magnesium (Mg) EPA 200.7 29 1.0 N/A mg/L 05/16/17 05/ | Raw Water Site #1 | | 17E1121-0 | 01 (Water) | | Sample Da | te: 05/10/17 | 9:00 Sa | ampler: D | GM |
|--|---|------------|-----------|------------|------|-------------|---------------------|----------|-----------|-----------|
| Cl Res Total (Field) | Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Field Field 7.3 | Field Analyses | | | | | | | | | |
| Temperature (Field) | Cl Res Total (Field) | Field | 0 | | N/A | mg/L | 05/10/17 | 05/10/17 | 1719136 | |
| Microbiology Analyses | pH (Field) | Field | 7.3 | | N/A | pH Units | 05/10/17 | 05/10/17 | 1719136 | |
| Total Coliform SM 9223 A | Temperature (Field) | Field | 22.1 | | N/A | °C | 05/10/17 | 05/10/17 | 1719136 | |
| E. Coli SM 9223 A | Microbiology Analyses | | | | | | | | | |
| Plate Count SM9215B 45 1 500 CFU/ml 05/10/17 05/12/17 171918 17 | Total Coliform | SM 9223 | A | | N/A | P/A | 05/10/17 | 05/11/17 | 1719120 | |
| Seneral Physical Analyses | E. Coli | SM 9223 | A | | N/A | P/A | 05/10/17 | 05/11/17 | 1719120 | |
| Apparent Color | Plate Count | SM9215B | 45 | 1 | 500 | CFU/ml | 05/10/17 | 05/12/17 | 1719180 | |
| Calculated Separation Sep | General Physical Analyses | | | | | | | | | |
| Hardness, Total (as CaCO3) | Apparent Color | | 7.5 | 3.0 | 15 | Color Units | 05/10/17 | 05/10/17 | 1719122 | |
| Metals SM 2540C 750 5.0 1000 mg/L 05/17/17 05/22/17 1720 08 Metals Calcium (Ca) EPA 200.7 91 1.0 N/A mg/L 05/16/17 05/17/17 1720 06 Iron (Fe) EPA 200.7 200 100 300 ug/L 05/16/17 05/17/17 1720 06 Magnesium (Mg) EPA 200.7 29 1.0 N/A mg/L 05/16/17 05/17/17 1720 06 Manganese (Mn) EPA 200.7 130 20 50 ug/L 05/16/17 05/17/17 1720 06 Filter Effluent (Free Chlorine) Site #2 17E1121-02 (Water) Sample Date: 05/10/17 8:40 Sampler: DGM Analyte Method Result Rep. Limit MCL Units Prepared Analyzed Batch Quality Field Analyses CI Res Total (Field) Field 6.3 N/A mg/L 05/10/17 05/10/17 1719 13 Total Colliform Field Analyses <td>General Chemical Analyses</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | General Chemical Analyses | | | | | | | | | |
| Metals Calcium (Ca) | Hardness, Total (as CaCO3) | Calculated | 350 | 6.6 | N/A | mg/L | 05/16/17 | 05/17/17 | [CALC] | |
| Calcium (Ca) EPA 200.7 91 1.0 N/A mg/L 05/16/17 05/17/17 1720061 Iron (Fe) EPA 200.7 200 100 300 ug/L 05/16/17 05/17/17 1720060 Magnesium (Mg) EPA 200.7 29 1.0 N/A mg/L 05/16/17 05/17/17 1720060 Manganese (Mn) EPA 200.7 130 20 50 ug/L 05/16/17 05/17/17 1720060 Filter Effluent (Free Chlorine) Site #2 17E1121-02 (Water) Sample Date: 05/10/17 8:40 Sampler: DGM Field Analyses N/A N/A Prepared Analyzed Batch Quality Field Analyses CI Res Total (Field) Field 6.3 N/A mg/L 05/10/17 05/10/17 1719136 Ph (Field) Field 7.4 N/A Ph Units 05/10/17 05/10/17 1719136 Temperature (Field) Field <td>Total Filterable Residue/TDS</td> <td>SM 2540C</td> <td>750</td> <td>5.0</td> <td>1000</td> <td>mg/L</td> <td>05/17/17</td> <td>05/22/17</td> <td>1720080</td> <td></td> | Total Filterable Residue/TDS | SM 2540C | 750 | 5.0 | 1000 | mg/L | 05/17/17 | 05/22/17 | 1720080 | |
| Iron (Fe) EPA 200.7 200 100 300 ug/L 05/16/17 05/17/17 1720060 Magnesium (Mg) EPA 200.7 29 1.0 N/A mg/L 05/16/17 05/17/17 1720061 Manganese (Mn) EPA 200.7 130 20 50 ug/L 05/16/17 05/17/17 1720060 Filter Effluent (Free Chlorine) Site #2 17E1121-02 (Water) Sample Date: 05/10/17 8:40 Sampler: DGM Analyte Method Result Rep. Limit MCL Units Prepared Analyzed Batch Quali Field Analyses CI Res Total (Field) Field 6.3 N/A mg/L 05/10/17 05/10/17 1719136 Field 7.4 N/A pH Units 05/10/17 05/10/17 1719136 Temperature (Field) Field 22.2 N/A °C 05/10/17 05/10/17 1719136 Microbiology Analyses Total Coliform SM 9223 | <u>Metals</u> | | | | | | | | | |
| Magnesium (Mg) EPA 200.7 29 1.0 N/A mg/L 05/16/17 05/17/17 1720061 Manganese (Mn) EPA 200.7 130 20 50 ug/L 05/16/17 05/17/17 1720060 Filter Effluent (Free Chlorine) Site #2 17E1121-02 (Water) Sample Date: 05/10/17 8:40 Sampler: DGM Analyte Method Result Rep. Limit MCL Units Prepared Analyzed Batch Quali Field Analyses CI Res Total (Field) Field 6.3 N/A mg/L 05/10/17 05/10/17 1719136 pH (Field) Field 7.4 N/A pH Units 05/10/17 05/10/17 1719136 Temperature (Field) Field 22.2 N/A °C 05/10/17 05/10/17 1719136 Microbiology Analyses Total Coliform SM 9223 A N/A P/A 05/10/17 05/11/17 1719120 | Calcium (Ca) | EPA 200.7 | 91 | 1.0 | N/A | mg/L | 05/16/17 | 05/17/17 | 1720061 | |
| Manganese (Mn) EPA 200.7 130 20 50 ug/L 05/16/17 05/17/17 1720060 Filter Effluent (Free Chlorine) Site #2 17E1121-02 (Water) Sample Date: 05/10/17 8:40 Sampler: DGM Analyte Method Result Rep. Limit MCL Units Prepared Analyzed Batch Quali Field Analyses CI Res Total (Field) Field 6.3 N/A mg/L 05/10/17 05/10/17 1719136 pH (Field) Field 7.4 N/A pH Units 05/10/17 05/10/17 1719136 Temperature (Field) Field 22.2 N/A °C 05/10/17 05/10/17 1719136 Microbiology Analyses Total Coliform SM 9223 A N/A P/A 05/10/17 05/11/17 1719120 | Iron (Fe) | EPA 200.7 | 200 | 100 | 300 | ug/L | 05/16/17 | 05/17/17 | 1720060 | |
| Filter Effluent (Free Chlorine) Site #2 17E1121-02 (Water) Sample Date: 05/10/17 8:40 Sampler: DGM Analyte Method Result Rep. Limit MCL Units Prepared Analyzed Batch Quality Field Analyses CI Res Total (Field) Field 6.3 N/A mg/L 05/10/17 05/10/17 1719136 pH (Field) Field 7.4 N/A pH Units 05/10/17 05/10/17 1719136 Temperature (Field) Field 22.2 N/A °C 05/10/17 05/10/17 1719136 Microbiology Analyses Total Coliform SM 9223 A N/A P/A 05/10/17 05/11/17 1719120 | Magnesium (Mg) | EPA 200.7 | 29 | 1.0 | N/A | mg/L | 05/16/17 | 05/17/17 | 1720061 | |
| Analyte Method Result Rep. Limit MCL Units Prepared Analyzed Batch Quality Field Analyses Cl Res Total (Field) Field 6.3 N/A mg/L 05/10/17 05/10/17 1719136 pH (Field) Field 7.4 N/A pH Units 05/10/17 05/10/17 1719136 Temperature (Field) Field 22.2 N/A °C 05/10/17 05/10/17 1719136 Microbiology Analyses Total Coliform SM 9223 A N/A P/A 05/10/17 05/11/17 1719120 | Manganese (Mn) | EPA 200.7 | 130 | 20 | 50 | ug/L | 05/16/17 | 05/17/17 | 1720060 | |
| Field Analyses Cl Res Total (Field) Field 6.3 N/A mg/L 05/10/17 05/10/17 1719136 pH (Field) Field 7.4 N/A pH Units 05/10/17 05/10/17 1719136 Temperature (Field) Field 22.2 N/A °C 05/10/17 05/10/17 1719136 Microbiology Analyses Total Coliform SM 9223 A N/A P/A 05/10/17 05/11/17 1719120 | Filter Effluent (Free Chlorine) Site #2 | | 17E1121-0 | 02 (Water) | | Sample Da | te: 05/10/17 | 8:40 Sa | ampler: D | GM |
| Cl Res Total (Field) Field 6.3 N/A mg/L 05/10/17 05/10/17 1719136 pH (Field) Field 7.4 N/A pH Units 05/10/17 05/10/17 1719136 Temperature (Field) Field 22.2 N/A °C 05/10/17 05/10/17 1719136 Microbiology Analyses Total Coliform SM 9223 A N/A P/A 05/10/17 05/11/17 1719120 | Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Cl Res Total (Field) Field 6.3 N/A mg/L 05/10/17 05/10/17 1719136 pH (Field) Field 7.4 N/A pH Units 05/10/17 05/10/17 1719136 Temperature (Field) Field 22.2 N/A °C 05/10/17 05/10/17 1719136 Microbiology Analyses Total Coliform SM 9223 A N/A P/A 05/10/17 05/11/17 1719120 | Field Analyses | | | | | | | | | |
| pH (Field) Field 7.4 N/A pH Units 05/10/17 05/10/17 1719136 Temperature (Field) Field 22.2 N/A °C 05/10/17 05/10/17 1719136 Microbiology Analyses Total Coliform SM 9223 A N/A P/A 05/10/17 05/11/17 1719120 | | Field | 6.3 | | N/A | mg/L | 05/10/17 | 05/10/17 | 1719136 | |
| Temperature (Field) Field 22.2 N/A °C 05/10/17 05/10/17 1719136 Microbiology Analyses Total Coliform SM 9223 A N/A P/A 05/10/17 05/11/17 1719120 | | | | | | _ | | | | |
| Microbiology Analyses Total Coliform SM 9223 A N/A P/A 05/10/17 05/11/17 1719120 | | Field | | | | • | 05/10/17 | 05/10/17 | 1719136 | |
| Total Coliform SM 9223 A N/A P/A 05/10/17 05/11/17 1719120 | • | | | | | | | | | |
| | | SM 9223 | A | | N/A | P/A | 05/10/17 | 05/11/17 | 1719120 | |
| E. Con 10/1 1/1/1/ | | | | | | | | | | |
| Plate Count SM9215B ND 1 500 CFU/ml 05/10/17 05/12/17 1719180 | | | | 1 | | | | | | |



05/26/17

Lomita, City ofProject:Standard AnalysisWork Order:17E112124373 Walnut AvenueSub Project:Monthly Compliance / Monthly 2nd Week MayReceived:05/10/17 16:15

Lomita CA, 91717 Project Manager: Mark Andersen Reported:

| Filter Effluent (Total Chlorine) Site #3 | | 17E1121-0 | 3 (Water) | | Sample Da | te: 05/10/1 | 7 8:30 Sa | mpler: D | GM |
|--|---------------------------------------|--------------------|------------|-------------------|------------------------|----------------------------------|--|---|-----------|
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 6.3 | | N/A | mg/L | 05/10/17 | 05/10/17 | 1719136 | |
| pH (Field) | Field | 7.4 | | N/A | pH Units | 05/10/17 | 05/10/17 | 1719136 | |
| Temperature (Field) | Field | 22.4 | | N/A | °C | 05/10/17 | 05/10/17 | 1719136 | |
| General Physical Analyses | | | | | | | | | |
| Apparent Color | SM 2120B-M | 7.5 | 3.0 | 15 | Color Units | 05/10/17 | 05/10/17 | 1719122 | |
| <u>Metals</u> | | | | | | | | | |
| Iron (Fe) | EPA 200.7 | ND | 100 | 300 | ug/L | 05/16/17 | 05/17/17 | 1720060 | |
| Manganese (Mn) | EPA 200.7 | ND | 20 | 50 | ug/L | 05/16/17 | 05/17/17 | 1720060 | |
| Zone #2 Site #6 | | 17E1121-0 | 4 (Water) | | Sample Da | te: 05/10/1 | 7 8:35 Sa | mpler: D | GM |
| A 1 . | | | | | | | | | |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| , | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | Method Field | Result | Rep. Limit | MCL N/A | Units mg/L | Prepared 05/10/17 | Analyzed 05/10/17 | Batch 1719136 | Qualifier |
| Field Analyses | | | Rep. Limit | | | <u> </u> | | | Qualifier |
| Field Analyses Cl Res Total (Field) | Field | 1.99 | Rep. Limit | N/A | mg/L | 05/10/17 | 05/10/17 | 1719136 | Qualifier |
| Field Analyses Cl Res Total (Field) pH (Field) Temperature (Field) | Field Field | 1.99 8.48 | Rep. Limit | N/A N/A | mg/L pH Units | 05/10/17 05/10/17 | 05/10/17 05/10/17 | 1719136 1719136 | Qualifier |
| Field Analyses Cl Res Total (Field) pH (Field) Temperature (Field) | Field Field | 1.99 8.48 | Rep. Limit | N/A N/A | mg/L pH Units | 05/10/17 05/10/17 | 05/10/17 05/10/17 | 1719136 1719136 | Qualifier |
| Field Analyses Cl Res Total (Field) pH (Field) Temperature (Field) General Chemical Analyses | Field Field Field | 1.99 8.48 19 | · | N/A N/A N/A | mg/L pH Units °C | 05/10/17 05/10/17 05/10/17 | 05/10/17 05/10/17 05/10/17 | 1719136 1719136 1719136 | Qualifier |
| Field Analyses Cl Res Total (Field) pH (Field) Temperature (Field) General Chemical Analyses Hardness, Total (as CaCO3) Total Filterable Residue/TDS | Field Field Field Calculated | 1.99 8.48 19 | 6.6 | N/A N/A N/A | mg/L pH Units °C mg/L | 05/10/17 05/10/17 05/10/17 | 05/10/17 05/10/17 05/10/17 05/17/17 | 1719136 1719136 1719136 [CALC] | Qualifier |
| Field Analyses Cl Res Total (Field) pH (Field) Temperature (Field) General Chemical Analyses Hardness, Total (as CaCO3) | Field Field Field Calculated | 1.99 8.48 19 | 6.6 | N/A N/A N/A | mg/L pH Units °C mg/L | 05/10/17 05/10/17 05/10/17 | 05/10/17 05/10/17 05/10/17 05/17/17 | 1719136 1719136 1719136 [CALC] | Qualifier |



05/26/17

Lomita, City ofProject:Standard AnalysisWork Order:17E112124373 Walnut AvenueSub Project:Monthly Compliance / Monthly 2nd Week MayReceived:05/10/17 16:15

Lomita CA, 91717 Project Manager: Mark Andersen Reported:

| Reservoir Effluent Site #5 | | 17E1121-0 | 05 (Water) | | Sample Da | ate: 05/10/1 | 7 8:37 Sa | mpler: D | GM |
|----------------------------------|---------------------------|-----------|------------|------|-----------|--------------|------------------|----------|-----------|
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 3.21 | | N/A | mg/L | 05/10/17 | 05/10/17 | 1719136 | |
| pH (Field) | Field | 7.75 | | N/A | pH Units | 05/10/17 | 05/10/17 | 1719136 | |
| Temperature (Field) | Field | 19.8 | | N/A | °C | 05/10/17 | 05/10/17 | 1719136 | |
| General Physical Analyses | | | | | | | | | |
| Odor Threshold | EPA 140.1-M | 1 | 1 | 3 | TON | 05/10/17 | 05/10/17 | 1719122 | |
| General Chemical Analyses | | | | | | | | | |
| Hardness, Total (as CaCO3) | Calculated | 230 | 6.6 | N/A | mg/L | 05/16/17 | 05/17/17 | [CALC] | |
| Total Filterable Residue/TDS | SM 2540C | 510 | 5.0 | 1000 | mg/L | 05/17/17 | 05/22/17 | 1720080 | |
| Metals | | | | | | | | | |
| Calcium (Ca) | EPA 200.7 | 60 | 1.0 | N/A | mg/L | 05/16/17 | 05/17/17 | 1720061 | |
| Magnesium (Mg) | EPA 200.7 | 20 | 1.0 | N/A | mg/L | 05/16/17 | 05/17/17 | 1720061 | |
| ND Analyte NOT DETECTED at or | above the reporting limit | | | | | | | | |

EDT Transfer Confirmation 1



Work Order: 17E1121 Report Date: 05/26/2017

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

| LOMITA-CITY, WATER DEPT. | | User ID: 4TH | Syste | m: 1910073 |
|----------------------------------|-------------|--------------------|------------|------------------------|
| WELL 05 | St | ation No.: 1910073 | -003 | Sampled: 170510 09:00 |
| COLOR | Result: 7.5 | Units: UNITS | Entry No.: | 00081 Analyzed: 170510 |
| TOTAL HARDNESS (AS CACO3) | Result: 350 | Units: MG/L | Entry No.: | 00900 Analyzed: 170517 |
| CALCIUM | Result: 91 | Units: MG/L | Entry No.: | 00916 Analyzed: 170517 |
| MAGNESIUM | Result: 29 | Units: MG/L | Entry No.: | 00927 Analyzed: 170517 |
| IRON | Result: 200 | Units: UG/L | Entry No.: | 01045 Analyzed: 170517 |
| MANGANESE | Result: 130 | Units: UG/L | Entry No.: | 01055 Analyzed: 170517 |
| TOTAL DISSOLVED SOLIDS | Result: 750 | Units: MG/L | Entry No.: | 70300 Analyzed: 170522 |
| WELL 05 TREATMENT PLANT EFFLUENT | St | ation No.: 1910073 | -006 | Sampled: 170510 08:30 |
| COLOR | Result: 7.5 | Units: UNITS | Entry No.: | 00081 Analyzed: 170510 |
| IRON | Result: ND | Units: UG/L | Entry No.: | 01045 Analyzed: 170517 |
| MANGANESE | Result: ND | Units: UG/L | Entry No.: | 01055 Analyzed: 170517 |



May 19, 2017



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



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: 17E1121

Lab Number:

I051202-01/02

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

Report Narrative:

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

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

Sincerely,

Mark Johnson

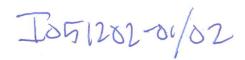
Operations Manager

MJohnson@AirTechLabs.com

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

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino 17E1121



| 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 [] ybarra@clinical-lab.co | om [v] styles@clinical-lab.com [] nelson@clinical-lab.com |
| California EDT transfer those samples with PS code Water Trax Upload Client: | es provided [] Yes [] No [] Yes [] No |
| Turn Around Time [] 10 Days 5 Days [] 6 Subcontract Comments: | Other Days |
| | |
| | |
| Analysis | Comments |
| Sample ID: Raw Water Site #1 / 17E1121-01 | Sampled: 05/10/17 09:00 PS Code: |
| • | Water WTX ID: |
| Methane RSK175 | Report in mg/L |
| ontainers Supplied: | |
| 0ml Amber Vial (B) 40ml Amber Vi | al (C) |
| Sample ID: Reservoir Effluent Site #5 / 17E1121-05 | Sampled: 05/10/17 08:37 PS Code: Water WTX ID: |
| | Water WTX ID: |
| Methane RSK175 | Report in mg/L |
| 'ontainers Supplied: | |
| 11 | |

5/12/17 8/00 Date/Time 5/12/17 0921

Released By

Date / Time

Received By

Received By

Date / T

Client:

Clinical Laboratory

Attn:

Stu Styles

Project Name:

NA

Project No.:

17E1121

Date Received:

05/12/17

Matrix:

Water

Reporting Units: mg/L

RSK175

| Lab No.: | I05120 | 02-01 | I05120 | 02-02 | | | |
|---------------------|-------------------|--------------|-------------------------------|---------------|--|----|--|
| Client Sample I.D.: | Raw Wa #1/17E1 | | Reservoir Site #5/17 02 | 7E1121- | | | |
| Date/Time Sampled: | 5/10/17 | 9:00 | 5/10/17 | 5/10/17 8:37 | | | |
| Date/Time Analyzed: | 5/17/17 | 5/17/17 9:44 | | 5/17/17 10:03 | | | |
| QC Batch No.: | 170517GC8A1 | | 170517GC8A1 | | | | |
| Analyst Initials: | AS | 5 | AS | | | ., | |
| Dilution Factor: | 1.0 |) | 1.0 | | | | |
| ANALYTE | Result mg/L | RL mg/L | Result mg/L | RL mg/L | | | |
| Methane | 4.2 | 0.0010 | 0.53 | 0.0010 | | | |

| NID - NI | of Dotoot | od (holow | DIA |
|----------|------------|-----------|------|
| M - M | ot Detecte | eu (beiow | INL) |

RL = Reporting Limit

| Reviewed/Approved By: | Molor |
|-----------------------|--------------|
| | Mark Johnson |

1 11

Operations Manager

Date 5/9/17

The cover letter is an integral part of this analytical report

QC Batch No.:

170517GC8A1

Matrix: Units:

Water

mg/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

| Lab | No.: | Metho | d Blank | I | LCS | L | CSD | | |
|--------------|------------------|-------|---------|--------|----------|--------|----------|------|----------|
| Date/Time An | alyzed: | 5/17/ | 17 9:02 | 5/17/ | 17 9:15 | 5/17/ | 17 9:29 | | |
| Analyst Init | ials: | AS | | | AS | | AS | | |
| Data | Datafile: | | ay003 | 17n | nay004 | 17n | nay005 | | |
| Dilution Fac | Dilution Factor: | | 1.0 | | 1.0 | 1.0 | | | |
| ANALYTE | PQL | RL | Results | % Rec. | Criteria | % Rec. | Criteria | %RPD | Criteria |
| Methane | 0.001 | 0.001 | ND | 100 | 70-130% | 98 | 70-130% | 1.8 | <30 |

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

| Reviewed/Approved By: | WW | 6 | Date: | 5/19 | 1.7 |
|-----------------------|-----------------|---|-------|------|-----|
| - WA 1007 | Mark J. Johnson | | | /- | |

Operations Manager

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

| Ch | nical Lab | oratory | Clinical Laboratory of San Bernardino, Inc. | 10. | | | | , | | 4 | = | m | (1 | \mathcal{A} | Shain of Custody | |
|------------------|---|--------------------------------|---|----------|-----------|-------------------------|--|---------------|---------|---------------|---------------|-------------|--------------------|---------------|---|-----|
| | | | - | | | | | | | | | | • | Y | 176.1121 | Г |
| Client | | | City of Lomita | Sys | stem N | System Number | | Analysis | sis R | Rednested | ted | | | | | |
| Address | | 24 | 24373 Walnut Avenue | | 107 | 010072 | | | | | | - | | | | |
| | | | Lomita, CA 91717 | • | 5 | 001 | | | | | | | Mo | | | |
| Phone # | | | (310) 325-9830 | Q | estinatic | Destination Laboratory | ory | | | | He | | etha | | | |
| Fax# | | | (310) 325-3627 | 1 | K] Clinic | [X] Clinical Laboratory | ory | | Incr | T | tetr | | ne (| | | |
| Project | | | Standard Analysis | 1 | RWQCB | RWQCB Compliance | e: | | | otal | oph | | | | | |
| ر برمانی طبری | + | Monthly | Monthly Compliance/ Monthly 2nd | | | YES | | | . C | Co | ic F | Cole | ATE Odo | | | |
| naforu due | | | week of MAY | | Ш | ELAP# | | | | lifo | Plate | | | iess | | |
| Comments | | , | | | 7 | 000 | | Solid | nese | rm | e Cou | | (RS | | | |
| Sampled by | y | | DGM | | _ | 000 | | ls | | | ınt | | K175 | | | |
| Date | Time | Sa | Sample Idenitification | Matrix | Type | Preserv | Total Chlorine | | | | | |) | | | |
| 5-10-17 | 0825 | | Raw Water Site #1 | GW | <u>w</u> | N/A | Ć. | × | × | | | × | | | PH 7.3 STEMP 22,1" | T |
| 5-10-17 | 0060 | | Raw Water Site #1 | GW | 1W | 2,7 | | | X | X | X | | X | X | | |
| 5-10-17 | | | Raw Water Site #1 | GW | 1W | 1,7 | | | | | | | | | | |
| 6480 Chans | 0420 | Filter Ef | Filter Effluent (Free Chlorine) Site#2 | DW | 1W | 1,7 | 6.3 | | X | X | X | | | | PH 740 TEMP 22,2 | |
| 2-10-17 | 0830 | Filter Eff | Filter Effluent (Total Chlorine) Site#3 | DW | 1W | N/A | 6.3 | | X | | | × | | | РН 7,4ОТЕМР 224° | |
| L1-01-5 | | - | Zone #2 Site #6 | DW | 1D | N/A | 1.99 | × | | | | | | X | PH8.48 TEMP 19.0" | |
| 2-10-1- | | | | | | | | | | | | | | | | |
| 5-10-17 0837 | 0837 | Re | Reservoir Effluent Site #5 | DW | 11) | N/A | 3.21 | X | | | | , · | X | X | PH 7.75 TEMP 19.8" | Γ |
| 15-10-17 10837 | 0837 | Re | Reservoir Effluent Site #5 | DW | 1D | 2,7 | 3.21 | | | | | | X | | | |
| Preservatives | Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 | (2) HCI (3) HI (7) Cold (8) | NO3 (4) NH4CI | | Mati | ix: DW-Dr | Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, Type- 1-Routine. 2-Repeat. 3-Replacement. 4-Special | e. 2-Rei | Waste | Wate Repla | SW- | Storm | Water pecial | | WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air 2-Repeat. 3-Replacement. 4-Special W-Well D- Dist. | г — |
| Relin | Relinquished By (Sign) | Sign) | Print Name / Company | | | Date / Time | Time | | K | Regeiver | M By | By (Sign) | | | Print Name / Company | т |
| Patrick McCue | le le | | City of Lomita, CA | | 5/10/17 | 1 / | 2:00 | Y | 7 | 4 | |) | | | Studie 1685 | T |
| Tetrus, | of Melie | Such | J. Lucope/cess | | 5/19 | 10 | 4:15 | \mathcal{L} | R | | 98 | hin | M | 4 | , | |
| Comments: | is: |) | 1 | | | Sample | Samples received: | X | ÇOn icé |) 93 |) In () F | Intact F | $ \mathbb{C}\zeta$ | Cus | Custody seals Temp_10.9 | |
| Shipped Via | | | Fed X Golden State | - | l san l | Client | Other | | | | | | | | Page_1_ of_1_ | 1 |
| | | | | | | | | | | | | | | | | |

"Your Water and Wastewater Analysis Solution"



02 June 2017 Clinical Lab No.: 17E1582

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

Project Name: Standard Analysis

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

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

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

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

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

Sincerely,

Stu Styles

Client Services Manager

tistes



Lomita, City ofProject:Standard AnalysisWork Order:17E158224373 Walnut AvenueSub Project:CWPF 3rd week May, 2017 Compliance SamplingReceived:05/17/17 15:15Lomita CA, 91717Project Manager:Mark AndersenReported:06/02/17

| Reservoir Influent Site #3 | | 17E1582-0 | 01 (Water) | | Sample Da | te: 05/17/1′ | 7 8:15 Sa | mpler: PI | LM |
|------------------------------|-----------------------------|-----------|------------|------|-------------|---------------------|------------------|-----------|-----------|
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 6.8 | | N/A | mg/L | 05/17/17 | 05/17/17 | 1720119 | |
| pH (Field) | Field | 7.63 | | N/A | pH Units | 05/17/17 | 05/17/17 | 1720119 | |
| Temperature (Field) | Field | 22 | | N/A | °C | 05/17/17 | 05/17/17 | 1720119 | |
| General Physical Analyses | | | | | | | | | |
| Apparent Color | SM 2120B-M | 5.0 | 3.0 | 15 | Color Units | 05/17/17 | 05/17/17 | 1720125 | |
| <u>Metals</u> | | | | | | | | | |
| Iron (Fe) | EPA 200.7 | ND | 100 | 300 | ug/L | 05/19/17 | 05/22/17 | 1720170 | |
| Manganese (Mn) | EPA 200.7 | ND | 20 | 50 | ug/L | 05/19/17 | 05/22/17 | 1720170 | |
| Reservoir Effluent Site #5 | | 17E1582-0 | 02 (Water) | | Sample Da | te: 05/17/1 | 7 8:05 Sa | mpler: PI | LM |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 3.6 | | N/A | mg/L | 05/17/17 | 05/17/17 | 1720119 | |
| pH (Field) | Field | 7.98 | | N/A | pH Units | 05/17/17 | 05/17/17 | 1720119 | |
| Temperature (Field) | Field | 19.9 | | N/A | °C | 05/17/17 | 05/17/17 | 1720119 | |
| General Physical Analyses | | | | | | | | | |
| Apparent Color | SM 2120B-M | ND | 3.0 | 15 | Color Units | 05/17/17 | 05/17/17 | 1720125 | |
| Odor Threshold | EPA 140.1-M | 1 | 1 | 3 | TON | 05/17/17 | 05/17/17 | 1720125 | |
| General Chemical Analyses | | | | | | | | | |
| Total Filterable Residue/TDS | SM 2540C | 580 | 5.0 | 1000 | mg/L | 05/24/17 | 05/30/17 | 1721072 | |
| ND Analyte NOT DETECTED at o | r above the reporting limit | | | | | | | | |



May 25, 2017



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



TX Cert T104704450-14-6 EPA Methods TO14A, TO15 UT Cert CA0133332015-3 EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: 17E1582 Lab Number:

ATTN: Stu Styles

21881 Barton Rd.

Grand Terrace, CA 92313

1051804-01

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

Report Narrative:

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

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

Sincerely,

Mark Johnson

Operations Manager

MJohnson@AirTechLabs.com

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

SUBCONTRACT ORDER

2 of 4 I051804

Clinical Laboratory of San Bernardino 17E1582

I051804-01

RECEIVING LABORATORY: SENDING LABORATORY: Air Technology Labs Clinical Laboratory of San Bernardino 18501 East Gale Avenue Suite 130 21881 Barton Road City of Industry, CA 91748 Grand Terrace, CA 92313 Phone: (626) 964-4032 Phone: 909.825.7693 Fax: 909.825.7696 Fax: Project Manager: Stu Styles Please email results to Project Manager: Stu Styles [\styles@clinical-lab.com |] nelson@clinical-lab.com [] glaubig@clinical-lab.com [] ybarra@clinical-lab.com California EDT transfer those samples with PS codes provided [] Yes Water Trax Upload Client: [] Yes Turn Around Time **Subcontract Comments:** Comments Analysis Sampled: 05/17/17 08:05 PS Code: Sample ID: Reservoir Effluent Site #5 / 17E1582-02 Water WTX ID: Report in mg/L Methane RSK175 Containers Supplied: 40ml Amber Vial (B) 40ml Amber Vial (C)

Received By

Released By

Client:

Clinical Laboratory

Attn:

Stu Styles

Project Name:

NA

Project No.:

17E1582

Date Received:

05/18/17

Matrix:

Water

Reporting Units: mg/L

| - | ~ | | - | - |
|----|---|----|---|---|
| 1) | • | K1 | | - |
| 1 | | | | |
| | | | | |

| Lab No.: | I05180 | 4-01 | | | | |
|---------------------|------------|----------|---|---|--|----|
| | Reservoir | Effluent | | | | |
| Client Sample I.D.: | Site #5/17 | E1582- | | | | |
| | 02 | | _ | | | |
| Date/Time Sampled: | 5/25/17 | 8:05 | | | | |
| Date/Time Analyzed: | 5/23/17 | 15:26 | | | | |
| QC Batch No.: | 1705230 | GC8A1 | | | | |
| Analyst Initials: | AS | S | | | | 11 |
| Dilution Factor: | 1.0 | | | | | |
| | Result | RL | | | | |
| ANALYTE | mg/L | mg/L | | _ | | |
| Methane | 0.45 | 0.0010 | | | | |
| | | | | | | |

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson **Operations Manager** Date 5-24-17

The cover letter is an integral part of this analytical report

QC Batch No.:

170523GC8A1

Matrix:

Water

Units: mg/L

| QC for Dissolved | Gases b | y EPA | Procedure | RSKSOP-175 |
|------------------|---------|-------|-----------|------------|

| Lab | No.: | Metho | d Blank | I | LCS | L | CSD | | |
|-------------|-----------|--------|----------|--------|----------|--------|----------|------|----------|
| Date/Time A | nalyzed: | 5/23/1 | 7 10:25 | 5/23/ | 17 13:14 | 5/23/ | 17 14:23 | | |
| Analyst Ini | tials: | AS | | | AS | | AS | | |
| Data | Datafile: | | 23may013 | | 23may006 | | 23may011 | | |
| Dilution Fa | ctor: | 1 | 1.0 | | 1.0 | 1.0 | | | |
| ANALYTE | PQL | RL | Results | % Rec. | Criteria | % Rec. | Criteria | %RPD | Criteria |
| Methane | 0.001 | 0.001 | ND | 112 | 70-130% | 104 | 70-130% | 7.1 | <30 |

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By:

Mark J. Johnson

Operations Manager

Date: 5-24-17

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

Chain of Custody

| · | | | | | | | | | | | | | | 1 (It 1587 | 7 |
|----------------|--|---|---------|--|-------------------------|-------------------|---------|---------------------------|--------------|-------------------|---------------------|---------|--|---------------------------|----------|
| Client | | City of Lomita | S | System Number | ımber | | Analy | Analysis Requested | edne | sted | | | | | |
| Address | | 24373 Walnut Avenue | | 101 | 1010072 | | | | | | | | | | |
| | | Lomita, CA 91717 | | 10 | 200 | | | | | | To | | | | |
| Phone # | | (310) 325-9830 | | Destination | Destination Laboratory | 'n | | 1 | | | | | | | |
| Fax# | | (310) 325-3627 | | [X] Clinica | [X] Clinical Laboratory | <u>-</u> | | Fotal | | | | | | | |
| Project | | Standard Analysis | | RWQCB C | RWQCB Compliance | é | | | C | | | | | | |
| Sub Project | CWP | CWPF 3rd week of MAY, 2017 Compliance | | ֧֧֧֓֞֞֞֞֞֟֝֟֞֟֞֝֞֓֞֟֞֟֞֓֓֓֞֟֞֓֓֓֞֟֞֓֓֓֞֟֞֓֓֓֞֞֜֞֞֓֓֞֜֞֜֝֡֡֡֡ | yes | | ron | solved iganes | olor | ater) | /TC/I ess (a | dor | | | |
| Comments | For TC | Sumpring For TC/EC/BACT see weekly Distro CoC | | d ; | # 4 | | | | | | | | | | |
| Sampled by | | ЬГМ | | 7 | 1088 | | | | | | CO3 | | | | |
| Date | Time | Sample Idenitification | Matrix | Type | Preserv | Total Chlorine | | | | | | | | Comments / P.S. Codes | |
| 5/17/2017 C | OSIS Reserve | Reservoir Influent Site #3 | DW | 1W | N/A | 6.8 | X | X | X | | | ļ | ph 7.63 | | |
| | | | | | | | | | | | | | | | |
| 5/17/2017 C | SOS Reserve | OSOS Reservoir Effluent Site #5 | DW | 18 | A/A | 3.6 | | | X | | | X | ph 7.98 | temp /9.9 | |
| 5/17/2017 C | 3805 Reserve | ට8්ටර Reservoir Effluent Site #5 | DW | 1W | HCL | 3.6 | | X | | X | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | + | | T | T | - | | | |
| | | | | | | | | + | | T | - | | | | |
| | | | | | | | | - | $oxed{\Box}$ | | - | - | | | |
| | | | | | | | | - | | | + | - | | | |
| | | | | | | | | - | | | | - | | | |
| | | | | | | | | + | | | + | 1 | | | |
| | | | | | | | | | | 1 | | - | | | |
| | | | | | | | | - | | | | - | | | |
| Preservatives: | (1) Na ₂ S ₂ O ₃ (2) h | Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCl (3) HNO3 (4) NH4Cl | Matrix | · DW-Drink | ring Water, | WW-Wast | e Wate | r, SW-S | torm V | Vater, | SW-G | puno. | Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air | | Type- 1- |
| (5) H2SO4 | (5) H2SO4 (6) Na2SO3 (7) Cold (8) Other | Cold (8) Other: | | | | Routi | ne, 2-R | epeat, | 3-Repl | еше | 1t, 4-Sp | ecial | Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D- Dist. | Dist. | |
| Relingu | Relinquished By (Sign) | 1) Print Name / Company | | | Date / Time | ime | | ~ | ecqive | ecqived By (Sign) | Sign) | | | Print Name Company | |
| Patrick McCue | | City of Lomita | | 21/11/5 | .T / | 45 | | 1 | 3 | | | ١, | 3 | 113/10/15R | |
| - Outsing | S MUNICA | J. Waspillo C | (> 8 | 5/17 | 10.0 | 3:15 | | | 5 | | | | AM | (1,93 | |
| Commens | X dox | Y Y | | | Sample | Samples received: | di A | Jon ice | | X) Intact | tact | P | Custody se | Custody seals Temp 11.5 (| F & |
| Shipped Via | _ | Fed X Golden State | I I UPS | Client | nt Other | ther | | | | | | A_{a} | Page 1 of 1 | | |
| | The second secon | | | | | | | | | | | | | - | |

"Your Water and Wastewater Analysis Solution"



07 June 2017 Clinical Lab No.: 17E2069

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

Project Name: Standard Analysis

Sub Project: CWPF 4th week May 2017

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

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

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

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

Sincerely,

Stu Styles

Client Services Manager



Lomita, City ofProject:Standard AnalysisWork Order:17E206924373 Walnut AvenueSub Project:CWPF 4th week May 2017Received:05/24/17 16:10Lomita CA, 91717Project Manager:Mark AndersenReported:06/07/17

| Reservoir Effluent Site #3 | | 17E2069-0 | 01 (Water) | | Sample Da | te: 05/24/17 | 7:35 S | ampler: | Patrick McCue |
|---------------------------------|-------------|-----------|------------|------|-------------|--------------|---------------|---------|---------------|
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 5.2 | | N/A | mg/L | 05/24/17 | 05/24/17 | 1721128 | 3 |
| pH (Field) | Field | 7.75 | | N/A | pH Units | 05/24/17 | 05/24/17 | 1721128 | 3 |
| Temperature (Field) | Field | 18.4 | | N/A | °C | 05/24/17 | 05/24/17 | 1721128 | 3 |
| General Physical Analyses | | | | | | | | | |
| Apparent Color | SM 2120BM | ND | 3.0 | 15 | Color Units | 05/24/17 | 05/24/17 | 1721121 | 1 |
| Metals | | | | | | | | | |
| Iron (Fe) | EPA 200.7 | ND | 100 | 300 | ug/L | 05/25/17 | 05/26/17 | 1721122 | 2 |
| Manganese (Mn) | EPA 200.7 | ND | 20 | 50 | ug/L | 05/25/17 | 05/26/17 | 1721122 | 2 |
| Reservoir Effluent Site #5 | | 17E2069-0 | 02 (Water) | | Sample Da | te: 05/24/17 | 7:35 S | ampler: | Patrick McCue |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 3.54 | | N/A | mg/L | 05/24/17 | 05/24/17 | 1721128 | 3 |
| pH (Field) | Field | 7.7 | | N/A | pH Units | 05/24/17 | 05/24/17 | 1721128 | 3 |
| Temperature (Field) | Field | 20.2 | | N/A | °C | 05/24/17 | 05/24/17 | 1721128 | 3 |
| General Physical Analyses | | | | | | | | | |
| Apparent Color | SM 2120BM | ND | 3.0 | 15 | Color Units | 05/24/17 | 05/24/17 | 1721121 | l |
| Odor Threshold | EPA 140.1-M | 2 | 1 | 3 | TON | 05/24/17 | 05/24/17 | 1721121 | I |
| General Chemical Analyses | | | | | | | | | |
| Total Filterable Residue/TDS | SM 2540C | 540 | 5.0 | 1000 | mg/L | 05/31/17 | 06/02/17 | 1722044 | 1 |
| ND Analyte NOT DETECTED at or a | .1 41 | | | | | | | | |



June 5, 2017



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



TX Cert T104704450-14-6 EPA Methods T014A, T015

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: 17E2069

Lab Number:

17E2069 I052607-01

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

Report Narrative:

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

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

Sincerely,

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

17E2069

IO52607-01

| SENDING LABORATORY: | | RECEIVING LABORATORY: | |
|--|--|---|---------------------|
| Clinical Laboratory of San Bernard | lino | Air Technology Labs | |
| 21881 Barton Road | | 18501 East Gale Avenue Suite 130 | 3 |
| Grand Terrace, CA 92313 | | City of Industry, CA 91748 | |
| Phone: 909.825.7693 | | Phone :(626) 964-4032 | |
| Fax: 909.825.7696 | 7 | Fax: | |
| Project Manager: Stu Styles | | | |
| Please email results to Project Man [] glaubig@clinical-lab.com [| | [v] styles@clinical-lab.com [] nels | on@clinical-lab.com |
| California EDT transfer tho Water Trax Upload Client: | se samples with PS codes pr | rovided []Yes [/]No []Yes [V]No | |
| Turn Around Time [] 10 Day Subcontract Comments: | ys [v] 5 Days [] Othe | er Days | 6° E E & 5-26-1 |
| | | | |
| Analysis | Section 1990 | | Comments |
| | | | |
| Sample ID: Reservoir Effluent Site | | ampled: 05/24/17 07:35 PS Code: Vater WTX ID | : |
| * · · · · · · · · · · · · · · · · · · · | 98. | | |
| Methane RSK175 | | is the control of the second of the second | Report in mg/L |
| Containers Supplied: | | | |
| 40ml Amber Vial (B) | 40ml Amber Vial (0 | C) | |
| * | | | |
| A TOTAL TO A STATE OF THE STATE | of the theory and the method continues in the control of the contr | THE THE THE THE TOTAL CO | |
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| distribution of the state of th | ve sar ar element. Co | | Carrier Briggs Cox |
| | r r a Tax | | |
| | | | |
| | ** \$ | | |
| | | | |
| | | | |
| 131 Dh/ | 05/26/17 88:00 | Klankaran | F101/17 211 |
| Released By | Date / Time | Received By | Date / Time |
| Keen Grobana | 5/26/17 1000 | Alla lla | 5-26-17 9 10:00 |
| Released By | Date / Time | Received By | Date / Time |

-01

Client:

Clinical Laboratory

Attn:

Stu Styles

Project Name:

NA

Project No.:

17E2069

Date Received:

05/26/17

Matrix:

Water

Reporting Units: mg/L

| | | RS | K175 | | | | | |
|---------------------|-------------------------------|------------|------|----|---|---|---|--|
| Lab No.: | 105260 | 7-01 | 1 | | Γ | | 1 | |
| Client Sample I.D.: | Reservoir Site #5/17 02 | E2069- | | | | | | |
| Date/Time Sampled: | 5/24/17 | 7:35 | | | | | | |
| Date/Time Analyzed: | 5/30/17 | 14:57 | | | | | | |
| QC Batch No.: | 1705300 | GC8A1 | | | | | | |
| Analyst Initials: | AS | 5 | | | | | | |
| Dilution Factor: | 1.0 |) | | | | | | |
| ANALYTE | Result mg/L | RL mg/L | | 15 | | 4 | | |
| Methane | 0.44 | 0.0010 | | | | | | |
| † | | | | | | | | |

| ND = Not Detected (| (below | RL) |
|---------------------|--------|-----|
|---------------------|--------|-----|

RL = Reporting Limit

| Reviewed/Approved By: _ | 11/1/000 - 1 | / |
|-------------------------|--------------|---|
| | 7 7 7 7 7 | |

Mark Johnson **Operations Manager**

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The cover letter is an integral part of this analytical report

QC Batch No.:

170530GC8A1

Matrix:

Water

Units: mg/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

| Lab | No.: | Metho | d Blank | j | LCS | L | CSD | | |
|--------------|-----------|-------|---------|--------|-----------------|-------|----------|----------|----------|
| Date/Time An | alyzed: | 5/30/ | 17 9:51 | 5/30/ | 17 8:51 | 5/30/ | 17 9:04 | | |
| Analyst Init | ials: | | AS | | AS | | AS | | |
| Data | Datafile: | | 1ay005 | 30r | nay001 | 30n | nay002 | | |
| Dilution Fac | ctor: | - | 1.0 | | 1.0 | | 1.0 | | |
| ANALYTE | PQL | RL | Results | % Rec. | % Rec. Criteria | | Criteria | %RPD | Criteria |
| Methane | 0.001 | 0.001 | ND | 97 | 70-130% | 100 | 70-130% | % 2.3 <3 | |

PQL = **Practical Quantitation Limit**

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By:

Mark J. Johnson

Operations Manager

1 Date: 6/5/17

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

| 3 Chain of Custody 17E 2069 (4) |) | | | | | | | | | Comments / P.S. Codes | ph 7,75 temp 18,4° | The state of the s | The terms 2017 | | | | | Water A-Air |)ist. | Print Name / Company | J. LAUGHA CUB | - Ar CA-8/5 | Custbdy seals Temp 10.5 () F (| June 1 of 1 | ' uge - ' - ' ' - ' - ' - ' - ' - ' - ' - ' |
|---|--------------------|---------------------|------------------|------------------------|-------------------------|--------------------|---------------------------------------|--------------------------------------|---------------|------------------------------|--------------------------------|--|---------------------------------|----------------------------|--|----|--|--|--|------------------------|---------------|--------------------|---------------------------------|-------------|---|
| 413 | Analysis Requested | | | tal I | larone (| Wan Co Disso | SS (as ter) (I lor slved S | CaC RSK1 | | | XXXX | | X | × | | | | MICO AND MIC | -Waste Water, SW-Stoff Water, SW-Stoding Water, P.C., Routine, 2-Ropeat, 3-Replacement, 4-Special W-Well D- Dist. | Reserved By (Sign) | | 107 | On ice (X) Intact | a | - |
| | System Number Ar | 1910073 | 20016 | Destination Laboratory | [X] Clinical Laboratory | RWQCB Compliance | yes ELAP# | 4000 | | Matrix Type Presery Chlorine | \vdash | | DW 1W N/A 3.5 4 | DW IW HCL 3,54 | | | | | Matrix: DW-Drinking Water, WW-Wasie Water, 5W-Stoff Water, Grand Matrix: DW-Drinking Water, A-Mil D- L | Date /, Time | 5/24/17/5:30 | 01:17 /C. 25.5 (S) | Samples received: | | UPS Client Other |
| Clinical Laboratory of San Bernardino, Inc. | City of Lomita | 24373 Walnut Avenue | Lomita, CA 91717 | (310) 325-9830 | (310) 325-3627 | Standard Analysis | CWPF 4th week of MAY, 2017 Compliance | For TC/EC/BACT see weekly Distro CoC | Patrick McCue | Sample Idenitification | 73% Reservoir Influent Site #3 | | 0735 Reservoir Effluent Site #5 | Reservoir Effluent Site #5 | | 1. | | | S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4Cl | Print Name / Company | | 7/ 00/1/12 | | | Fed X Golden Slate |
| Chnical Lu | Client | Address | | Phone # | Fax # | Project | Sub Project | Comments | | Date Time | 17 | | 5/24/2017 O735 R | 0735 | | | | | Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 | Polinanished Ry (Sign) | Detain 10 M | | A Tuesday | | Shipped Via |

Clinical Laboratory of San Bernardino, Inc.



08 June 2017 Clinical Lab No.: 17E2461

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

Project Name: Standard Analysis

Sub Project: CWPF 5th Week May 2017 Compliance Sampling

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

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

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

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

Sincerely,

Stu Styles

Client Services Manager

tistes

Clinical Laboratory of San Bernardino, Inc.



Lomita, City ofProject:Standard AnalysisWork Order:17E246124373 Walnut AvenueSub Project:CWPF 5th Week May 2017 Compliance SamplingReceived:05/31/17 14:50Lomita CA, 91717Project Manager:Mark AndersenReported:06/08/17

05/31/17 7:00 17E2461-01 (Water) **Sample Date:** Not Listed Reservoir Influent Site #3 Sampler: Analyte Method Result MCL Units Prepared Analyzed Batch Qualifier Rep. Limit Field Analyses Field 05/31/17 05/31/17 1722098 4.52 Cl Res Total (Field) N/A mg/LpH (Field) Field 7.3 N/A pH Units 05/31/17 05/31/17 1722098 Field 20.5 05/31/17 05/31/17 1722098 Temperature (Field) $^{\circ}\mathrm{C}$ N/A **General Physical Analyses** SM 2120BM 5.0 05/31/17 05/31/17 1722123 **Apparent Color** 3.0 15 Color Units Metals EPA 200.7 ND 06/05/17 06/05/17 1723020 Iron (Fe) 100 300 ug/L EPA 200.7 ND 06/05/17 06/05/17 1723020 Manganese (Mn) 20 50 ug/L Reservoir Effluent Site #5 17E2461-02 (Water) **Sample Date:** 05/31/17 7:00 Sampler: Not Listed Analyte Method Result Prepared Analyzed Batch Qualifier Rep. Limit MCL Units Field Analyses Cl Res Total (Field) Field 3.61 05/31/17 05/31/17 1722098 N/A mg/LpH (Field) Field 05/31/17 05/31/17 1722098 7.5 N/A pH Units Field 05/31/17 05/31/17 1722098 Temperature (Field) 19 N/A °C **General Physical Analyses Apparent Color** SM 2120BM 5.0 05/31/17 05/31/17 1722123 3.0 15 Color Units EPA 140.1-M 05/31/17 **Odor Threshold** 3 1 3 TON 05/31/17 1722123 **General Chemical Analyses** Total Filterable Residue/TDS SM 2540C 560 06/01/17 06/06/17 1722087 5.0 1000 mg/L Analyte NOT DETECTED at or above the reporting limit ND



Clinical Laboratory of San Bernardino

June 8, 2017



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



TX Cert T104704450-14-6 EPA Methods TO14A, TO15 UT Cert CA0133332015-3 EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: 17E2461

ATTN: Stu Styles

21881 Barton Rd.

Grand Terrace, CA 92313

Lab Number:

1060102-01

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

Report Narrative:

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

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

Sincerely,

Mark Johnson

Operations Manager

MJohnson@AirTechLabs.com

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

SUBCONTRACT ORDER

2 of 4 I060102

Clinical Laboratory of San Bernardino 17E2461

IOG0102-01

Report in mg/L

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 [] ybarra@clinical-lab.com [] styles@clinical-lab.com [] nelson@clinical-lab.com California EDT transfer those samples with PS codes provided [] Yes Water Trax Upload Client: [] Yes [] Other Days Turn Around Time [] 10 Days **Subcontract Comments:** Comments **Analysis** Sample ID: Reservoir Effluent Site #5 / 17E2461-02 Sampled: 05/31/17 07:00 PS Code: Water WTX ID:

40ml Amber Vial (C)

Methane RSK175

Containers Supplied:
40ml Amber Vial (B)

Released By

Date / Time

Received By

Date / Time

Received By

Date / Time

Date / Time

Client:

Clinical Laboratory

Attn:

Stu Styles

Project Name:

NA

Project No.:

17E2461

Date Received:

06/01/17

Matrix:

Water

Reporting Units: mg/L

RSK175

| Lab No.: | I06010 | 02-01 | | | | |
|---------------------|------------|----------|-----|--|--|--|
| | Reservoir | Effluent | | | | |
| Client Sample I.D.: | Site #5/17 | E2461- | | | | |
| | 02 | | | | | |
| Date/Time Sampled: | 5/31/17 | 7:00 | | | | |
| Date/Time Analyzed: | 6/6/17 | 12:27 | | | | |
| QC Batch No.: | 1706060 | GC8A1 | | | | |
| Analyst Initials: | AS | 8 | | | | |
| Dilution Factor: | 1.0 |) | že. | | | |
| | Result | RL | | | | |
| ANALYTE | mg/L | mg/L | | | | |
| Methane | 0.39 | 0.0010 | | | | |
| | | | | | | |

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson

Operations Manager

Date_6-8-17

The cover letter is an integral part of this analytical report

QC Batch No.:

170606GC8A1

Matrix:

Water

Units:

mg/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

| Lab | No.: | Metho | d Blank | I | LCS | L | CSD | | |
|--------------|---------|-------|---------|--------|----------|--------|---------------|------|----------|
| Date/Time An | alyzed: | 6/6/1 | 7 9:23 | 6/6/ | 17 9:36 | 6/6/ | 17 9:50 | | |
| Analyst Init | ials: | 1 | AS | | AS | | AS | | |
| Data | file: | 06j | un005 | 06j | jun006 | 06j | un007 | | |
| Dilution Fa | ctor: | 1 | 1.0 | | 1.0 | | 1.0 | | |
| ANALYTE | PQL | RL | Results | % Rec. | Criteria | % Rec. | Criteria | %RPD | Criteria |
| Methane | 0.001 | 0.001 | ND | 81 | 70-130% | 83 | 70-130% 2.2 < | | <30 |

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By:

Mark J. Johnson

Operations Manager

Date: 6-8-17

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

Clinical Laboratory of San Bernardino, Inc.

Chain of Custody

| Client | | City of Lomita | S | System Number | ımber | | Anal | Analysis Requested | edne | sted | - | | - | | 101771 | |
|----------------|---------------------|---|---------|---------------|-------------------------|-------------------|---------|--------------------|--------------|-----------------|-----------|------------|--|-----------|-----------------------|----------|
| Address | | 24373 Walnut Avenue | | 707 | 4040072 | | | \vdash | - | | | \vdash | | | | |
| | | Lomita, CA 91717 | | 131 | C / OO | | | | | M | To | | | | | |
| Phone # | | (310) 325-9830 | 7 | Destination | Destination Laboratory | yıc | | 7 | | etha | | | | | | |
| Fax# | | (310) 325-3627 | | [X] Clinica | [X] Clinical Laboratory | ory | | | | ane | | RA | | | | |
| Project | | Standard Analysis | | RWQCB (| RWQCB Compliance | . | ı | | | (W | | | | | | |
| Sub Project | | CWPF 5th week of MAY, 2017 Compliance | | | yes | | ron | solve igan | olor | ater | | dor /TC | | | | |
| ann Lighert | | Sampling | | 日 | ELAP# | | | | |) (F | | | | | | |
| Comments | | For TC/EC/BACT see weekly Distro CoC | | 7.6 | 900 | | | tids | | RSK | | PC | | | | |
| Sampled by | | | | _ | 000 | | | | | 175) | :O3) | | | | | |
| Date | Time | Sample Idenitification | Matrix | Type | Preserv | Total Chlorine | | | | | | | | Comment | Comments / P.S. Codes | |
| 5/31/2017 | 0,L | Reservoir Influent Site #3 | DW | 1W | A/N | 75.4 | × | × | × | | | | CZ. L: 49 | c temp | 2,500:00 | |
| | | | | | | | | | | | | | | | | |
| 5/31/2017 | ري. دي. | Reservoir Effluent Site #5 | DW | 1W | ΑX | 15.61 | | | × | | | × | SS. L. ya | temp | 0: 19.00 | |
| 5/31/2017 | 3 | Reservoir Effluent Site #5 | DW | 1W | HCL | | | × | | × | | | | | | |
| | | | | | | | | | | | <u> </u> | - | | | | |
| | | | | | | | | | - | | <u> </u> | ╁ | | | | - |
| | | | | | | | | | - | | | H | | | | |
| | | | | | | | | + | + | | + | + | | | | |
| | | | | | | | | + | + | | | | | | | |
| | | | | | | | | + | + | 1 | \dagger | + | | | | |
| | | | | | | | | | \downarrow | | + | + | | | | |
| | | | | | | | | + | | | \dagger | + | | | | |
| | | , | | | | | | + | + | | | + | | | | |
| Preservatives: | (1) Na ₂ | Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCl (3) HNO3 (4) NH4Cl | Matrix: | DW-Drink | ring Water | ; WW-Was | e Wat | er, SW- | Storm | Water, | GW- | Sroun | Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air | | 1 | Type- 1- |
| (5) H2SO | 4 (6) Na | (5) H2SO4 (6) Na2SO3 (7) Cold (8) Other: | | | • | Routi | ne, 2-I | Repeat, | 3-Rep | laceme | ent, 4-5 | pecia | Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D- Dist. | Dist. | • | |
| Reling | uished. | Relinquished By (Sign) Print Name / Company | | | Date / Time | ïme | | (| Recent | Recently (Sign) | (Sign) | | | Print Nar | Print Name Kompany | |
| | To See | City of Lymita | | S | 1-17 | 2;2 | 0 | X | \sum | 5 | Z | | 7. | 7 | 6 CCR | |
| はい | B | $ \mathcal{L}(\mathcal{M}(\mathcal{M})) $ | 9 | 5-2 | 10012 | 2:50 | | 1 | 7 | + | 44 | | Ah | 73 | 200 | |
| Comprents: | | | | , | Sample | Samples received: | ک ق | | ice | Z II | Intact | | Custody seals Temp | eals Tem |) 5.91, du |) F (|
| Shipped Via | | Fed X Golden State | I I UPS | [] Client | | Other | | | | | | 1 | Page 1 of 1 | | | |
| | | | | | | | | | | | | | | | | |

APPENDIX B

METHANE MONITORING LOG



CITY OF LOMITA PUBLIC WORKS DEPARTMENT

CYPRESS WATER PRODUCTION FACILITY HANDHELD METHANE LOG READINGS

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

ND- Non Detect CH4- Methane

Oxy- Oxygen

Day Off/Holiday- Red

APPENDIX C

NITRIFICATION MONITORING DATA SUMMARY

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

| # Code | Sample ID | Location | Sample Date | Temp | рН | Total Chlorine | Free Chlorine | Total Ammonia | Free Ammonia | Nitrite | Nitrate | Coliform ² | HPC | Zone | Comments |
|---------|---------------------|-------------------------|-------------|------|------|-------------------|---------------|------------------|-----------------|---------|---------|-----------------------|--------|------|----------------|
| Units/C | thers \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 | 5/3/2017 | 21.1 | 7.56 | 3.30 | 0.05 | 0.62 | 0.00 | 0.008 | ND | А | ND | 1 | Well/MWD Blend |
| 2 D | S13-004 | 24632 S Moon Ave | 5/3/2017 | 20.9 | 7.65 | 3.30 | 0.06 | 0.59 | 0.07 | 0.012 | ND | Α | ND | 1 | Well/MWD Blend |
| 3 D | S13-008 | 25417 Pennsylvania Ave | 5/3/2017 | 22.7 | 7.72 | 3.50 | 0.09 | 0.62 | 0.02 | 0.009 | ND | А | ND | 1 | Well/MWD Blend |
| 4 D | Α | 2052 Dawn St | 5/3/2017 | 21.3 | 7.18 | 2.60 | 0.06 | 0.53 | 0.00 | 0.012 | ND | А | ND | 1 | Well/MWD Blend |
| 5 D | | Reservoir | 5/3/2017 | 21.0 | 7.93 | 3.20 | 0.09 | 0.62 | 0.00 | 0.100 | ND | А | ND | 1 | Well/MWD Blend |
| 6 D | S13-001 | 1912 W 259th PI | 5/3/2017 | 22.7 | 8.37 | 2.40 | 0.05 | 0.45 | 0.02 | 0.009 | 0.55 | А | 4 | 2 | MWD Only |
| 7 D | S13-002 | 26314 S Monte Vista Ave | 5/3/2017 | 20.7 | 8.43 | 2.40 | 0.08 | 0.43 | 0.00 | 0.009 | 0.55 | А | 2 | 3 | MWD Only |
| 8 D | S13-005 | 2500 PCH | 5/3/2017 | 19.4 | 8.25 | 2.50 | 0.05 | 0.42 | 0.03 | 0.010 | 0.59 | А | ND | 2 | MWD Only |
| | | | | | | | | | | | | | | | |
| 1 D | S13-003 | 1948 W 252nd St | 5/10/2017 | 20.1 | 7.80 | 3.00 | 0.12 | 0.64 | 0.00 | 0.020 | ND | А | 2 | 1 | Well/MWD Blend |
| 2 D | S13-004 | 24632 S Moon Ave | 5/10/2017 | 19.6 | 7.70 | 3.10 | 0.04 | 0.70 | 0.01 | 0.019 | ND | А | ND | 1 | Well/MWD Blend |
| 3 D | S13-008 | 25417 Pennsylvania Ave | 5/10/2017 | 20.1 | 7.78 | 3.30 | 0.08 | 0.74 | 0.00 | 0.019 | ND | Α | ND | 1 | Well/MWD Blend |
| 4 D | A | 2052 Dawn St | 5/10/2017 | 19.4 | 7.90 | 2.10 | 0.06 | 0.57 | 0.00 | 0.019 | ND | Α | 2 | 1 | Well/MWD Blend |
| 5 D | | Reservoir | 5/10/2017 | 19.8 | 8.48 | 3.21 | 0.08 | 0.80 | 0.06 | 0.010 | ND | Α | ND | 1 | Well/MWD Blend |
| 6 D | S13-001 | 1912 W 259th Pl | 5/10/2017 | 19.0 | 8.71 | 2.40 | 0.08 | 0.34 | 0.00 | 0.015 | 0.44 | Α | ND | 2 | MWD Only |
| 7 D | S13-002 | 26314 S Monte Vista Ave | 5/10/2017 | 18.6 | 8.59 | 2.30 | 0.13 | 0.48 | 0.00 | 0.014 | 0.45 | А | ND | 3 | MWD Only |
| 8 D | S13-005 | 2500 PCH | 5/10/2017 | 19.1 | 8.28 | 2.30 | 0.08 | 0.46 | 0.02 | 0.015 | 0.41 | А | ND | 2 | MWD Only |
| | | | · | | | | | | | | | | | | |
| 1 D | S13-003 | 1948 W 252nd St | 5/17/2017 | 20.2 | 7.92 | 3.30 | 0.10 | 0.55 | 0.00 | 0.020 | ND | А | ND | 1 | Well/MWD Blend |
| 2 D | S13-004 | 24632 S Moon Ave | 5/17/2017 | 20.2 | 7.76 | 3.30 | 0.09 | 0.60 | 0.01 | 0.015 | ND | А | ND | 1 | Well/MWD Blend |
| 3 D | S13-008 | 25417 Pennsylvania Ave | 5/17/2017 | 20.7 | 7.76 | 3.60 | 0.07 | 0.68 | 0.00 | 0.020 | ND | А | 2 | 1 | Well/MWD Blend |
| 4 D | Α | 2052 Dawn St | 5/17/2017 | 19.7 | 8.08 | 2.20 | 0.04 | 0.52 | 0.01 | 0.015 | ND | А | 8 | 1 | Well/MWD Blend |
| 5 D | | Reservoir | 5/17/2017 | 19.9 | 7.95 | 3.6 | 0.12 | 0.60 | 0.02 | 0.010 | ND | Α | ND | 1 | Well/MWD Blend |
| 6 D | S13-001 | 1912 W 259th Pl | 5/17/2017 | 19.0 | 8.46 | 2.40 | 0.04 | 0.45 | 0.02 | 0.014 | 0.46 | Α | ND | 2 | MWD Only |
| 7 D | S13-002 | 26314 S Monte Vista Ave | 5/17/2017 | 18.6 | 8.41 | 2.40 | 0.06 | 0.42 | 0.00 | 0.015 | 0.44 | А | ND | 3 | MWD Only |
| 8 D | S13-005 | 2500 PCH | 5/17/2017 | 18.7 | 8.26 | 2.30 | 0.06 | 0.34 | 0.01 | 0.016 | 0.50 | Α | ND | 2 | MWD Only |
| | | | _ | | | | | | | | | | | | |
| 1 D | S13-003 | 1948 W 252nd St | 5/24/2017 | 20.6 | 7.79 | 3.40 | 0.14 | 0.47 | 0.00 | 0.014 | ND | Α | ND | 1 | Well/MWD Blend |
| 2 D | S13-004 | 24632 S Moon Ave | 5/24/2017 | 19.6 | 7.68 | 3.50 | 0.17 | 0.38 | 0.04 | 0.013 | ND | Α | 2 | 1 | Well/MWD Blend |
| 3 D | S13-008 | 25417 Pennsylvania Ave | 5/24/2017 | 20.1 | 7.72 | 3.80 | 0.08 | 0.44 | 0.04 | 0.011 | ND | Α | 2 | 1 | Well/MWD Blend |
| 4 D | Α | 2052 Dawn St | 5/24/2017 | 20.7 | 7.81 | 2.10 | 0.03 | 0.39 | 0.00 | 0.019 | 0.40 | Α | ND | 1 | Well/MWD Blend |
| 5 D | | Reservoir | 5/24/2017 | 19.6 | 7.83 | 3.90 | 0.08 | 0.50 | 0.04 | 0.010 | ND | Α | ND | 1 | Well/MWD Blend |
| 6 D | S13-001 | 1912 W 259th Pl | 5/24/2017 | 18.7 | 8.36 | 2.40 | 0.03 | 0.43 | 0.04 | 0.014 | 0.59 | А | ND | 2 | MWD Only |
| 7 D | S13-002 | 26314 S Monte Vista Ave | 5/24/2017 | 17.8 | 8.20 | 2.40 | 0.09 | 0.44 | 0.00 | 0.011 | 0.59 | Α | ND | 3 | MWD Only |
| 8 D | S13-005 | 2500 PCH | 5/24/2017 | 18.0 | 7.98 | 2.30 | 0.18 | 0.45 | 0.00 | 0.015 | 0.59 | Α | ND | 2 | MWD Only |
| | | | | | | | | | | | | | | | |
| 1 D | S13-003 | 1948 W 252nd St | 5/31/2017 | 20.5 | 7.24 | 3.40 | 0.06 | 0.62 | 0.00 | 0.021 | ND | Α | ND | 1 | Well/MWD Blend |
| 2 D | S13-004 | 24632 S Moon Ave | 5/31/2017 | 19.9 | 7.56 | 3.30 | 0.18 | 0.72 | 0.00 | 0.021 | ND | Α | 5 | 1 | Well/MWD Blend |
| 3 D | S13-008 | 25417 Pennsylvania Ave | 5/31/2017 | 20.9 | 7.74 | 3.30 | 0.10 | 0.80 | 0.00 | 0.022 | ND | Α | 5 | 1 | Well/MWD Blend |
| 4 D | Α | 2052 Dawn St | 5/31/2017 | 20.4 | 7.83 | 2.20 | 0.10 | 0.46 | 0.00 | 0.034 | 0.46 | Α | 3 | 1 | Well/MWD Blend |
| 5 D | | Reservoir | 5/31/2017 | 19.0 | 7.50 | 3.61 | 0.08 | 0.82 | 0.00 | 0.021 | ND | Α | ND | 1 | Well/MWD Blend |
| 6 D | S13-001 | 1912 W 259th Pl | 5/31/2017 | 18.6 | 8.50 | 2.30 | 0.08 | 0.48 | 0.06 | 0.018 | 0.51 | Α | 34 | 2 | MWD Only |
| 7 D | S13-002 | 26314 S Monte Vista Ave | 5/31/2017 | 18.0 | 8.54 | 2.30 | 0.06 | 0.49 | 0.04 | 0.016 | 0.51 | A | ND | 3 | MWD Only |
| 8 D | S13-005 | 2500 PCH | 5/31/2017 | 18.7 | 8.32 | 2.30 | 0.02 | 0.49 | 0.02 | 0.014 | 0.51 | А | 14 | 2 | MWD Only |

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

²Coliform results are part of weekly Bacti sampling results.