CITY OF LOMITA



Cypress Water Production Facility Monthly Status Report

February 2019

TABLE OF CONTENTS

| COVER LETTER 1 |
|---|
| A. BACKGROUND 2 |
| B. WELL PRODUCTION AND OPERATIONS 2 |
| C. OPERATIONAL INTERRUPTIONS |
| D. SAMPLE LOCATIONS |
| E. WATER QUALITY MONITORING |
| E1. IRON, MANGANESE AND COLOR |
| E2. FREE AND TOTALCHLORINE RESIDUALS |
| E3. TOTAL DISSOLVED SOLIDS (TDS), ODOR, HARDNESS AND METHANE3 |
| E3-1 TOTAL DISSOLVED SOLIDS (TDS) |
| E3-2 HARDNESS 3 |
| E3-3 DISSOLVED MATHANE (IN WATER)4 |
| E3-4 METHANE (IN AIR)4 |
| E3-5 ODOR4 |
| E3-6 TOTAL PHOSPHATE/ORTHOPHOSPHATE4 |
| E4. NITRIFICATION MONITORING4 |
| F. TABLES |

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CITY COUNCIL

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



ADMINISTRATION

RYAN SMOOT CITY MANAGER

March 11, 2019

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

Subject: System No. 1910073 - Monthly Report for the Cypress Water Production Facility (CWPF) for the period of February 1 through February 28, 2019.

Dear Mr. Ginzburg,

In accordance with the Department of Public Health temporary approval letter dated March 15, 2013 and Permit Amendment No. 1910073, I am submitting the following report for the Cypress Water Production Facility operations for the month of February 2019.

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

Sincerely,

Mark Andersen Public Works Superintendent

A. BACKGROUND

On May 30, 2018, the City of Lomita received its Domestic Water Supply Permit Amendment from the State Water Resources Control Board, Division of Drinking Water 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 February 2019 maintaining water levels inside the reservoir ranging from 7 feet to 10 feet. The average flow from Well No. 5 was 364 gpm and 575 gpm from MWD. The blend ratio for month was 33% Well water and 67% MWD water. See Table 1 below for production totals for the month of February 2019.

| Table 1, Wonthly Product | on Lotais. | | | | | | | | | | |
|--------------------------|------------|------------------------------|-----------------------|--|--|--|--|--|--|--|--|
| | P | Production for February 2019 | | | | | | | | | |
| Well No. 5 | 28.03 | ac-ft | 9,134,494 (gallons) | | | | | | | | |
| MWD. | 55.85 | ac ii | 18,200,000 (gellons) | | | | | | | | |
| Combined Total | 83.89 | ac-ft | 27,334,494 (gallons) | | | | | | | | |
| Daily | 3.00 | ac-ft/day | 976,232 (gallons/day) | | | | | | | | |

Table 1. Monthly Production Totals.

C. OPERATIONAL INTERRUPTIONS

The CWPF was offline for approximately six days during this month to collect samples of the green sand filter media. Routine and preventive maintenance was performed on various pieces of equipment as-needed. Also, during this month, the HACH chemical analyzers at the CWPF were serviced, certified and calibrated. 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 at the MCL level. Iron for raw water was below the MCL level and Manganese was above the MCL level for the month. Iron and Manganese levels before entering the reservoir (SP3) show non-detect, indicating the greensand filtration system remains highly effective.

E2. FREE AND TOTAL CHLORINE RESIDUALS

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

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

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

E3-1 TOTAL DISSOLVED SOLIDS (TDS)

The sampling results indicate the TDS levels of the effluent blended water to be on average 665 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 820 mg/L and 620 mg/L, respectively.

E3-2 HARDNESS

The sampling results for the month indicate the hardness levels of the blended water to be on average 350 mg/L. This hardness level is above the City's Water Quality Objective/Goal of 180 to 250 mg/L; staff continues to monitor hardness levels at the CWPF effluent (SP5) and within the water distribution system. The City has maintained a consistent blend ratio to ensure acceptable hardness levels are met.

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

E3-3 DISSOLVED METHANE (IN WATER)

The methane levels in the CWPF effluent after aeration treatment remain negligible averaging 0.23 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 February 2019 in Appendix B.

E3-5 ODOR

The odor levels at the CWPF effluent averaged 1.5 units for the month. Odor levels within the distribution system averaged 1.1 units for the month.

E3-6 TOTAL PHOSPHATE AND ORTHOPHOPHATE

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

E4. NITRIFICATION MONITORING

Weekly nitrification sampling was performed during the month of February 2019 following the City's Nitrification Monitoring Plan. Refer to Appendix C for results.

F. TABLES

| | SP1, Well Raw Water Discharge | | | | | | Pres | Combi sure Fi | ilter | SP3, After chloramination static m reservoir entry | | | tatic mi | cer; | | |
|---------------|-------------------------------|------------------|-----------------|----------------|-------|--|----------------|------------------|----------------|---|------------|-----------------|-----------------|----------------|-------|---------|
| 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 |
| 2/5/2019 | | Data data | | Ra | | | | | | | ND | 300 | ND | 50 | 5 | 15 |
| 2/12/2019 | 170 | 300 | 150 | 50 | 15 | 15 | Α | А | ND | 500 | ND | 300 | ND | 50 | 5 | 15 |
| 2/20/2019 | | | | | - | A SALA | | | | The state | ND | 300 | ND | 50 | 5 | 15 |
| 2/26/2019 | 40 | | | | | and the second s | | | and and a | 建建筑 | ND | 300 | ND | 50 | ND | 15 |

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

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 | | 1. 1. 1. | SP4 | | SP5 | | | |
|-----------|---------|---------|----------|--------------------------|----------|----------|--------------|---------|----------|--------------------------|--|
| week of | Free CI | Free CI | Total CI | Total NH ₃ | Free CI | Total CI | Total NH₃ | Free CI | Total CI | Total NH ₃ | |
| 2/5/2019 | 9.90 | 0.70 | 4.60 | 0.72 | 1.00 | 5.10 | 0.64 | 0.11 | 3.12 | 0.59 | |
| 2/12/2019 | 8.90 | 0.80 | 9.80 | 0.90 | 0.56 | 10.00 | 0.70 | 0.05 | 3.06 | 0.54 | |
| 2/20/2019 | 10.25 | 1.00 | 7.85 | 1.02 | 0.57 | 5.70 | 0.84 | 0.12 | 3.39 | 0.54 | |
| 2/26/2019 | - | | - | - | - | - | 1.50 | 0.07 | 3.34 | 0.61 | |

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

| | | TD | S, mg/L | | T.O.I | N. | | Hardn | ess, mç | J/L | | hane r), 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 |
| 2/5/2019 | and the second s | | 650 | 500-750 | 2 | 3 | | | | | | 0.15 |
| 2/12/2019 | 820 | 620 | 710 | 500-750 | 2 | 3 | 440 | 300 | 350 | 180-250 | 3.0 | 0.30 |
| 2/20/2019 | | | 690 | 500-750 | 1 | 3 | | 11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 | | 191.35 | | 0.18 |
| 2/26/2019 | | | 610 | 500-750 | 1 | 3 | Rections | | | | | 0.27 |
| Average | 12.3 | | 665 | 500-750 | 1.5 | 3 | | No. | 115 12 | C. Bell | | 0.23 |

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

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

| Sample Location | Date, week of | Total Phosphate, mg/L | Orthophosphate, mg/L |
|-----------------------------|---------------|-----------------------|------------------------------|
| 1948 W 252 nd St | | 0.41 | 0.38 |
| 24632 S Moon Ave | | 0.43 | 0.44 |
| 2450 W 247 th St | 1/8/19 | 0.45 | 0.47 |
| 2052 Dawn St | • | 0.48 | 0.49 |
| CWPF SP5 | | 0.40 | States and the second second |

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

Monthly CWPF Monitoring Report – February <u>2019</u> Cypress Water Production Facility City of Lomita; System No. 1910073

| | | City | or Lomita | ; System | 10. 19100 | 13 | | |
|------------------------------|---|--|---|---|---|------------------------------|--------------------|--|
| Sample Locations | Frequency | MCL/ | 2/5/19 | 2/12/19 | 2/20/19 | 2/26/19 | | Comments |
| and Parameters | | Goal | 1 st Wk | 2 nd Wk | 3 rd Wk | 4 th Wk | 5 th Wk | and/or |
| | | | | | | | | Other Info. |
| | | | or Mo. | | | | | |
| | | | Result | | | | | |
| | | | (date) | | | | | |
| SP1 Also called | Well 5 Raw | | or Site#1. | | | | | |
| TDS, ppm | Monthly | See SP5 | 820 | Operations | Data/Inform | nation: | | *Chlorine injected after |
| Llandaaaa | Monthly | See SP5 | 2/12/19 | CWPF opera | tion days | | | SP1, before entering the greensand filter. |
| Hardness | Monuny | 000 01 0 | 440 2/12/19 | | | | | and groonbaria mor. |
| CH4, ppm | Monthly | See SP5 | 3.0 | <u>On Well 5:</u> [- 28.03 AF | Daily average | flow – <mark>364 gp</mark> n | n; total prod. | |
| | | | 2/12/19 | | ell 5/MWD da | ata: Average V | Vell 5: MWD | |
| Iron, ppb | Monthly | See SP3 | 170 | blend Ratio - | 33% WELL: 6 | 67% MWD; tot | al prod | |
| Manganese, ppb | Monthly | See SP3 | 2/12/19 150 | 83.89 AF | | | | |
| Mangariese, ppb | Monany | | 2/12/19 | Chlorine Do | sage: N/A* | | | |
| Color, units | Monthly | See SP3 | 15 | ornonno De | ougo. | | | |
| Total Coliform, P or A | Monthly | Δ. | 2/12/19 | | | | | |
| Total Collionn, P of A | Monuny | A | A 2/12/19 | | | | | |
| SP2 Also called | Filter Efflu | ent or Si | | | | | | The second second second second |
| Total Coliform, P or A | Monthly | A | A | | | | | *Ammonia added after |
| HPC,MPN/100 ml | Monthly | 500 | ND | Ammonia D | osage: N/A* | | | filter effluent |
| Free CI Res, ppm | Continuous | 111000000000000000000000000000000000000 | 9.68 ; Ran | ge: 8.90 – 1 | 0.25 | | | |
| SP3 Also called | the Site Af | | | | | ending or | Site#4 | |
| Iron, ppb | Weekly | ND | ND | ND | ND | ND | | |
| Manganese, ppb | Weekly | 50 | ND | ND | ND | ND | | |
| Color | Weekly | 15 | 5 | 5 | 5 | ND | | - |
| Free and Total CI Res, | Continuous | (15)(15)() | verage: 0.8 | ; Range: 0. | 70 – 1.00 | 0.0- | I | |
| ppm | | Total CI: A | Average: 7.4 | 2; Range: 4 | .60 - 9.80 | | | |
| | | | | .88; Range: | | | | |
| SP4 Also called | Reservoir | Construction of the local data and the local data a | | | WD Water | Blend Po | oint/Phosp | phate Injection. |
| Phosphate Injection | | | e Dosage: C | | | | | |
| Free and Total CI Res, | Continuous | | | 3; Range: 0 | | | | CI/NH3 Ratio: |
| ppm | | | | 9; Range: <mark>5</mark> . .71; Range: | | | | 9.95 |
| SP5 Also called | Pacanyoir | | | | | to 7000 1 | of the die | tribution oveters |
| JPS AISU Calleu | Weekly | SI Goal: | or Sile#3. | JF5 UISC | narges m | | of the dis | Tribution system. |
| TDS, ppm | VVeekiy | 500-750ppm | 650 | 710 | 690 | 610 | | |
| Hardness | Monthly | SI Goal: | | 350 | | | | 4 |
| | | 180-250ppm Goal: from | | 350 | | | | |
| CH4, ppm | Weekly | PA | 0.15 | 0.30 | 0.18 | 0.27 | | % CH4 Removal: 92.5% |
| Odor, units | Monthly | 1 | 2 | 2 | 1 | 1 | | 92.070 |
| Free and Total CI Res, | Continuous | | - | 9; Range: 0. | 05 - 0.12 | | | CI/NH3 Ratio: |
| ppm | | | | 4; Range: 2. | | | | 5.70 |
| | | | : Average: 0 | .57; Range: (| 0.51 – 0.61 | | | |
| Headspace of the (| and the second se | Contraction of the local division of the loc | | | | | | |
| ¹ CH4 ppmv; using | Daily | Goal - | | age: 0.0% | 1000 | | | |
| Portable Device | (from log) | LEL | the second se | nge: <mark>0% - 0</mark> 9 | Artista Martin and an and an article of the local distance of the | | | |
| SP 6 MWD Sour | ce Feeding | CWPF. | Also calle | d Zone 2 | of the dist | tribution s | system or | Site #6. |
| TDS, ppm | Monthly | | | 620 | | | | |
| Hardness | Monthly | | | 300 | | | | |
| Notes: 1Self-Imposed (SI) G | oals: TDS Goa | al-500-750 pr | m; Hardness | as CaCO3 Go | al-180-250 pp | m. | J | |
| ***This Report is d | ue to DDW | by the 1 | 0 th of the | following | month. | | | |

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

APPENDIX A

LABORATORY RESULTS



18 February 2019

Clinical Lab No.: 19B0228

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

Project Name:Standard AnalysisSub Project:CWPF 1st Week of Feb, 2019 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 02/05/19. Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

tister

Stu Styles Client Services Manager



| Lomita, City of 24373 Walnut Avenue Lomita CA, 91717 | venue Sub Project: CWPF 1st Week of Feb, 2019 Compliance Sampling Received: 02/05/19 17:0 | | | | | | | | | |
|--|---|-----------|------------|------------|---------------|--------------|------------|-----------|-----------|--|
| Reservoir Influent Site #3 | | 19B0228-0 | 01 (Water) | 9 10:30 Sa | Sampler: P.M. | | | | | |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier | |
| Field Analyses | | | | | | | | | | |
| Cl Res Total (Field) | Field | 8.8 | | N/A | mg/L | 02/05/19 | 02/05/19 | 1906077 | | |
| pH (Field) | Field | 7.77 | | N/A | pH Units | 02/05/19 | 02/05/19 | 1906077 | | |
| Temperature (Field) | Field | 19.9 | | N/A | °C | 02/05/19 | 02/05/19 | 1906077 | | |
| General Physical Analyses | | | | | | | | | | |
| Apparent Color | SM 2120BM | 5.0 | 3.0 | 15 | Color Units | 02/05/19 | 02/05/19 | 1906148 | | |
| Metals | | | | | | | | | | |
| Iron (Fe) | EPA 200.7 | ND | 100 | 300 | ug/L | 02/07/19 | 02/07/19 | 1906100 | | |
| Manganese (Mn) | EPA 200.7 | ND | 20 | 50 | ug/L | 02/07/19 | 02/07/19 | 1906100 | | |
| Reservoir Effluent Site #5 | | 19B0228-0 | 02 (Water) | | Sample Da | te: 02/05/19 | 9 10:05 Sa | mpler: P. | M. | |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier | |
| Field Analyses | | | | | | | | | | |
| Cl Res Total (Field) | Field | 2.98 | | N/A | mg/L | 02/05/19 | 02/05/19 | 1906077 | | |
| pH (Field) | Field | 8.04 | | N/A | pH Units | 02/05/19 | 02/05/19 | 1906077 | | |
| Temperature (Field) | Field | 16.7 | | N/A | °C | 02/05/19 | 02/05/19 | 1906077 | | |
| General Physical Analyses | | | | | | | | | | |
| Apparent Color | SM 2120BM | ND | 3.0 | 15 | Color Units | 02/05/19 | 02/05/19 | 1906148 | | |
| Odor Threshold | EPA 140.1-M | 2 | 1 | 3 | TON | 02/05/19 | 02/05/19 | 1906148 | | |
| General Chemical Analyses | | | | | | | | | | |
| Total Filterable Residue/TDS | SM 2540C | 650 | 5.0 | 1000 | mg/L | 02/07/19 | 02/08/19 | 1906109 | | |
| ND Analyte NOT DETECTED at o | r above the reporting limit | | | | | | | | | |

Analyte NOT DETECTED at or above the reporting limit

1 of 4 K020602



February 13, 2019



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

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:19B0228Lab Number:K020602-01

Enclosed are results for sample(s) received 2/06/19 by Air Technology Laboratories. Samples were received intact and chilled to 7° C. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

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

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

Sincerely,

Mark Johnson Operations Manager MJohnson@AirTechLabs.com

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

SUBCONTRACT ORDER

| in a fear - jeans a sa san kan sa san sa | Clinical Laboratory of San Bernardino 19B0228 | -01 |
|---|--|-----------------------|
| SENDING LABORATORY: | RECEIVING LABORATORY: | baat v s |
| Clinical Laboratory of San Bernardino 21881 Barton Road Grand Terrace, CA 92313 | Air Technology Labs 18501 East Gale Avenue Suite 130 City of Industry, CA 91748 | |
| Phone: 909.825.7693 Fax: 909.825.7696 Project Manager: Stu Styles | Phone :(626) 964-4032 Fax: | |
| Please email results to Project Manager: [] glaubig@clinical-lab.com [] style | : Stu Styles es@clinical-lab.com [] bernstein@clinical-lab.com | |
| Water Trax Upload Client: | | n Norman Norman |
| Turn Around Time [] 10 Days Subcontract Comments: | [\] 5 Days [] Other Days | |
| | n an | |
| Analysis | Comments | 6 1 |
| Sample ID: Reservoir Effluent Site #5 / 19 | 9B0228-02 Sampled: 02/05/19 10:05 PS Code: Water WTX ID: | |
| Methane RSK175 Containers Supplied: Oml Amber Vial (B) | Report in mg/L 40ml Amber Vial (C) | |
| | a and a maging way a gray gay a g | |
| | | ði. |
| | ్లస్, ఎంస్టెస్, ఎంస్టెస్, ఎంస్ట్ రాజులో 1000 గ్రామం గ్రామంలో 1000 గ్రామం గ్రామంలో 1000 గ్రామం | J. |
| | | × |
| | $\frac{1}{2}$ | G |
| an a | | |
| | 2/06/19 07:45 A Date / Time 2/06/19 07:45 A Date / Time 2/06/19 07:45 A Date / Time | 15 |
| Réleased By | Date/Time Received By Date/Time | 52 |

| Client: | Clinical Laboratory |
|-------------------------|----------------------------|
| Attn: | Stu Styles |
| Project Name: | NA |
| Project No.: | 19B0228 |
| Date Received: | 02/06/19 |
| Matrix: | Water |
| Reporting Units: | mg/L |

| | | RS | K175 | | | |
|---------------------|--------------------------------|---------|------|--------|--|----|
| Lab No.: | K0206 | 02-01 | | | | |
| Client Sample I.D.: | Reservoir Site #5 / 1 02 | 9B0228- | | а 1 | | ±. |
| Date/Time Sampled: | 2/5/19 | | | | | |
| Date/Time Analyzed: | 2/12/19 15:39 | | | n. , | | |
| QC Batch No.: | 1902120 | GC8A1 | | | | |
| Analyst Initials: | CM/ | AS | | | | |
| Dilution Factor: | 1.(|) | | | | |
| ANALYTE | Result RL mg/L mg/L | | | | | × |
| Methane | 0.15 0.0010 | | | | | |
| | | | | | | |

Date 13

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

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Avenue, Suite 130 City of Industry, CA 91748 Ph: (626) 964-4032 Fx: (626) 964-5832

LCS/LCSD Recovery and RPD Summary Report

4 of 4 K020602

QC Batch #: 190212GC8A1

Matrix: Air

Reporting Units: mg/L

| | RSK175 LABORATORY CONTROL SAMPLE SUMMARY | | | | | | | | | | | |
|--------------------------------|---|------------|-----------------------|----------------|---------|----------------|---------|-----|-------------|--------------|-------------|--|
| Lab No.: METHOD BLANK LCS LCSD | | | | | | | | | | | | |
| Date/Time Analyzed: | | | | 2/12/1 | 19 9:34 | 2/12/ | 19 9:48 | | | | | |
| Analyst Initials: | CM/A | S | | CM/AS | | CN | I/AS | | | | | |
| Dilution Factor: | 1.0 | | | 1.0 | | 1 | .0 | | | | | |
| ANALYTE | Result mg/L | RL mg/L | SPIKE AMT. mg/L | Result mg/L | % Rec. | Result mg/L | % Rec. | RPD | Low %Rec | High %Rec | Max. RPD | |
| Methane | ND 0.0010 0.654 0.686 105 0.641 97.9 6.8 | | | | | | | | | 130 | 30 | |
| | | | | | | | | | | | | |

MALL. 1

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 2/13/19

page 1 of 1

AirTECHNOLOGY Laboratories, Inc.

| Inc. |
|------------------------------|
| • |
| 10, |
| aboratory of San Bernardino, |
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19 B0 228 Chain of Custody 4/4/0

| Client | | City of Lomita | <u>S</u> | System Nur | ımber | | | Anal | Analysis Requested | quest | D | | |
|------------------|--|--|-----------|---|------------|---|----------------------------|----------|--------------------|-----------|---------------------------------------|---------|--|
| Address | 24. | 24373 Walnut Avenue | | | 101 | 101072 | | | | | | | |
| | I | Lomita, CA 91717 | | | | 0 J J J | | | | М | | | |
| Phone # | 2 20 2 2 | (310)903-2243 | | Ď | stination | estination Laboratory | | | | eth | | | |
| Fax # | | | | 0 | (] Clinica | X] Cilnical Laboratory | | Iro | Fotal | ane | | | |
| Project | - 1 | Standard Analysis | | 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 | WQCB C | RWQCB Compliance | | n / M | | | | | |
| Sub Project | Co Co | CWPF 1st week of February, 2019 Compliance Sampling | | | EL | yes ELAP # | | anganes | olor otved Sol | ter) (R | lor | | |
| Comments | For TC/EC/BA | For TC/EC/BACT see weekly Distro CoC | | | 4 | 1088 | | e | lids | SK1 | | | |
| Sampled by | | P.M. | | | | 000 | | | | 75) | | | |
| Date | Time San | Sample Idenitification | Matrix | Type | Preserv | pH Te | Temp. Total Chlorine | | | | | | Comments / P.S. Codes |
| 2/5/2019 (0 | (030 Reservoir Influent Site #3 | ent Site #3 | MQ | 1W | N/A | 7.77 19 | 9 8.8 | X | × | | | | |
| | | | | | | 1 | | | | | | _ | |
| 2/5/2019 10 | 1006 Reservoir Effluent Site #5 | ent Site #5 | ΜŪ | <u>»</u> | A/A | 9- 20.0 | 16.1 2.98 | | x x | + | × | _ | والمتعاوية المالية الأحجاج والمستعدية وأوراد والمستعد والمستعدين والمستعدين والمستعد والمعالي المراجع والمستعد والمعار |
| 2/5/2019 | 005 Reservoir Effluent Site #5 | ent Site #5 | DW | 1W | 2 | | | | - | × | | _ | |
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| | | | | | | | | | ╋ | | | | |
| Preservatives: (| 1 1 1 Preservatives: (1) Na.S.O. (2) HCI (3) HNO3 (4) NH4CI | NO3 (4) NH4CI | Matrix: C | Matrix: DW-Drinkin | g Water, | ig Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Ali | ter, SW-Storm | 7 Water, | GW- Gro | und Wa | ter, A-Air | | Type- 1-Routine, 2-Repeat, 3- |
| (5) H2SO4 | (5) H2SO4 (6) Na2SO3 (7) Cold (8) Other | Other: | | | | | Re | placeme | nt, 4-Spi | scial W. | Replacement, 4-Special W-Well D-Dist. | ist | |
| Relinquis | Relinquished By (Sign) | Print Name / Company | | | | Date / Time | 12.000 12.000 12.000 | | 11 | 6 | | | Print Name / Company |
| Retor A Martine | Merce | Patrick McCue / City of Lomita | | 2/5/2019 | | | QHI | Ŕ | 1100 | Arr | 101 m | | 1)/ Magarya/ CESS |
| W Cham | Lanna | NO Ulacomo / LLSS | 8 | મ | | | 2 | 00 | | 5 | | au | 12 |
| Comments: | | | | | õ | Samples received: 📈 On ice 🕺 | ived: (200 | n ice } | | SIntact (|) Cust | ody sea | Custody seals Temp 3.7 ()F ()C |
| Shipped Via | | Fed X Golden State | SAU [] | [] Client | - | Other | | | ł | Pag | Page_1_of_1 | | |
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"Your Water and Wastewater Analysis Solution"



25 February 2019

Clinical Lab No.: 19B0887

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

Project Name:Standard AnalysisSub Project:CWPF Monthly Compliance Samples, 2nd Wk of Feb

Enclosed are the results of the analyses for samples received at the laboratory on 02/12/19. Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

tister

Stu Styles Client Services Manager



| Lomita, City of 24373 Walnut Avenue Lomita CA, 91717 | | | Project: Star b Project: CW Manager: Mar | PF Montl | nly Compliance | e Samples, 2nd | Wk of Fe | Work Order bReceived: Reported: | : 19B0887 02/12/19 18:12 02/25/19 |
|--|------------|-----------|--|----------|----------------|----------------|----------|---------------------------------------|---|
| Raw Water Site #1 | | 19B0887-0 | 01 (Water) | | Sample Dat | e: 02/12/19 | 7:25 | Sampler: | Patrick McCue |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 0 | | N/A | mg/L | 02/12/19 | 02/12/19 | 1907123 | i |
| pH (Field) | Field | 7.63 | | N/A | pH Units | 02/12/19 | 02/12/19 | 1907123 | i i |
| Temperature (Field) | Field | 20.3 | | N/A | °C | 02/12/19 | 02/12/19 | 1907123 | i i |
| Microbiology Analyses | | | | | | | | | |
| Total Coliform | SM 9223 | А | | N/A | P/A | 02/12/19 | 02/13/19 | 1907132 | |
| E. Coli | SM 9223 | А | | N/A | P/A | 02/12/19 | 02/13/19 | 1907132 | |
| Plate Count | SM9215B | 51 | 1 | 500 | CFU/ml | 02/12/19 | 02/14/19 | 1907181 | HT-08 |
| General Physical Analyses | | | | | | | | | |
| Apparent Color | SM 2120BM | 15.0 | 3.0 | 15 | Color Units | 02/12/19 | 02/12/19 | 1907144 | ļ |
| General Chemical Analyses | | | | | | | | | |
| Hardness, Total (as CaCO3) | Calculated | 440 | 9.1 | N/A | mg/L | 02/21/19 | 02/21/19 | [CALC] | |
| Total Filterable Residue/TDS | SM 2540C | 820 | 5.0 | 1000 | mg/L | 02/18/19 | 02/20/19 | 1908023 | i i |
| <u>Metals</u> | | | | | | | | | |
| Calcium (Ca) | EPA 200.7 | 120 | 2.0 | N/A | mg/L | 02/21/19 | 02/21/19 | 1908112 | |
| Iron (Fe) | EPA 200.7 | 170 | 100 | 300 | ug/L | 02/20/19 | 02/20/19 | 1908070 | 1 |
| Magnesium (Mg) | EPA 200.7 | 37 | 1.0 | N/A | mg/L | 02/21/19 | 02/21/19 | 1908112 | |
| Manganese (Mn) | EPA 200.7 | 150 | 20 | 50 | ug/L | 02/20/19 | 02/20/19 | 1908070 |) |
| Filter Effluent (Free Chlorine) Site #2 | | 19B0887-(| 02 (Water) | | Sample Dat | e: 02/12/19 | 7:28 | Sampler: | Patrick McCue |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 10.3 | | N/A | mg/L | 02/12/19 | 02/12/19 | 1907123 | |
| pH (Field) | Field | 7.67 | | N/A | pH Units | 02/12/19 | 02/12/19 | 1907123 | |
| Temperature (Field) | Field | 20.3 | | N/A | °C | 02/12/19 | 02/12/19 | 1907123 | |
| Microbiology Analyses | | | | | | | | | |
| Total Coliform | SM 9223 | А | | N/A | P/A | 02/12/19 | 02/13/19 | 1907132 | 1 |
| E. Coli | SM 9223 | А | | N/A | P/A | 02/12/19 | 02/13/19 | 1907132 | 1 |
| Plate Count | SM9215B | ND | | | | 02/12/19 | 02/14/19 | 1907181 | |



| Lomita, City of 24373 Walnut Avenue | | Su | Project: Star | | 2 | e Samples, 2nd | | /ork Order: eceived: (| 19B0887)2/12/19 18:12 |
|--|------------|-----------|---------------|------|-------------|---------------------|----------|---------------------------|---------------------------|
| Lomita CA, 91717 | | | Manager: Mar | | | e Sumples, 2nd | | |)2/25/19 |
| Filter Effluent (Total Chlorine) Site #3 | | 19B0887-0 |)3 (Water) | | Sample Da | te: 02/12/19 | 7:30 Sa | mpler: P | atrick McCue |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 10 | | N/A | mg/L | 02/12/19 | 02/12/19 | 1907123 | |
| pH (Field) | Field | 7.68 | | N/A | pH Units | 02/12/19 | 02/12/19 | 1907123 | |
| Temperature (Field) | Field | 20.3 | | N/A | °C | 02/12/19 | 02/12/19 | 1907123 | |
| General Physical Analyses | | | | | | | | | |
| Apparent Color | SM 2120BM | 5.0 | 3.0 | 15 | Color Units | 02/12/19 | 02/12/19 | 1907144 | |
| <u>Metals</u> | | | | | | | | | |
| Iron (Fe) | EPA 200.7 | ND | 100 | 300 | ug/L | 02/20/19 | 02/20/19 | 1908070 | |
| Manganese (Mn) | EPA 200.7 | ND | 20 | 50 | ug/L | 02/20/19 | 02/20/19 | 1908070 | |
| Zone #2 Site #6 | | 19B0887-0 | 04 (Water) | | Sample Da | te: 02/12/19 | 7:32 Sa | mpler: P | atrick McCue |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 2.04 | | N/A | mg/L | 02/12/19 | 02/12/19 | 1907123 | |
| pH (Field) | Field | 8.23 | | N/A | pH Units | 02/12/19 | 02/12/19 | 1907123 | |
| Temperature (Field) | Field | 16.2 | | N/A | °C | 02/12/19 | 02/12/19 | 1907123 | |
| General Chemical Analyses | | | | | | | | | |
| Hardness, Total (as CaCO3) | Calculated | 300 | 6.6 | N/A | mg/L | 02/21/19 | 02/21/19 | [CALC] | |
| Total Filterable Residue/TDS | SM 2540C | 620 | 5.0 | 1000 | mg/L | 02/18/19 | 02/20/19 | 1908023 | |
| Metals | | | | | | | | | |
| Calcium (Ca) | EPA 200.7 | 74 | 1.0 | N/A | mg/L | 02/21/19 | 02/21/19 | 1908112 | |
| Magnesium (Mg) | EPA 200.7 | 27 | 1.0 | N/A | mg/L | 02/21/19 | 02/21/19 | 1908112 | |



| Lomita, City of 24373 Walnut Avenue Lomita CA, 91717 | | | Project: Star b Project: CW Manager: Mar | PF Month | ly Complian | ce Samples, 2n | d Wk of Feb | | 19B0887 02/12/19 18:12 02/25/19 |
|---|-------------|-----------|--|----------|-------------|----------------|-------------|------------|---------------------------------------|
| Reservoir Effluent Site #5 | | 19B0887-0 |)5 (Water) | | Sample Da | ote: 02/12/1 | 9 10:00 | Sampler: F | Patrick McCue |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 3.01 | | N/A | mg/L | 02/12/19 | 02/12/19 | 1907123 | |
| pH (Field) | Field | 8.05 | | N/A | pH Units | 02/12/19 | 02/12/19 | 1907123 | |
| Temperature (Field) | Field | 16.7 | | N/A | °C | 02/12/19 | 02/12/19 | 1907123 | |
| General Physical Analyses | | | | | | | | | |
| Odor Threshold | EPA 140.1-M | 2 | 1 | 3 | TON | 02/12/19 | 02/12/19 | 1907144 | |
| General Chemical Analyses | | | | | | | | | |
| Hardness, Total (as CaCO3) | Calculated | 350 | 6.6 | N/A | mg/L | 02/21/19 | 02/21/19 | [CALC] | |
| Total Filterable Residue/TDS | SM 2540C | 710 | 5.0 | 1000 | mg/L | 02/18/19 | 02/20/19 | 1908023 | |
| Metals | | | | | | | | | |
| Calcium (Ca) | EPA 200.7 | 89 | 1.0 | N/A | mg/L | 02/21/19 | 02/21/19 | 1908112 | |
| Magnesium (Mg) | EPA 200.7 | 31 | 1.0 | N/A | mg/L | 02/21/19 | 02/21/19 | 1908112 | |

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

ND Analyte NOT DETECTED at or above the reporting limit

1 of 4 K021403



February 20, 2019



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

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: 19B0887 Lab Number: K021403-01/02

Enclosed are results for sample(s) received 2/14/19 by Air Technology Laboratories. Samples were received intact and chilled to 3° C. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

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

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

Sincerely,

Mark Johnson Operations Manager MJohnson@AirTechLabs.com

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

SUBCONTRACT ORDER

2 of 4 K021403

102

21403-01/

Clinical Laboratory of San Bernardino

19B0887

| 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 California EDT transfer those samples with PS c Water Trax Upload Client: | |
| Turn Around Time [] 10 Days 5 Days [Subcontract Comments: |] Other Days |
| | |
| Analysis | Comments |
| Analysis Sample ID: Raw Water Site #1 / 19B0887-01 6 (| Comments Sampled: 02/12/19 07:25 PS Code: Water WTX ID: |
| Sample ID: Raw Water Site #1 / 19B0887-01 | Sampled: 02/12/19 07:25 PS Code: |
| Sample ID: Raw Water Site #1 / 19B0887-01 | Sampled: 02/12/19 07:25 PS Code: Water WTX ID: |
| Sample ID: Raw Water Site #1 / 19B0887-01 | Sampled: 02/12/19 07:25 PS Code: Water WTX ID: Report in mg/L |
| Sample ID: Raw Water Site #1 / 19B0887-01 6 Methane RSK175 Containers Supplied: 40mL Amber Vial pH<2 w/HCl (A) | Sampled: 02/12/19 07:25 PS Code: Water WTX ID: Report in mg/L er Vial pH<2 w/HCl (B) Sampled: 02/12/19 10:00 PS Code: |

Released By Date / Time Received By Date / Time Received By Date / Time Received By Date / Time Date /

| Client: | Clinical Laboratory |
|-------------------------|----------------------------|
| Attn: | Stu Styles |
| Project Name: | NA |
| Project No.: | 19B0887 |
| Date Received: | 02/14/19 |
| Matrix: | Water |
| Reporting Units: | mg/L |

| | | RS | K175 | | | |
|---------------------|---------------------|------------|--------------------------------|------------|--|--|
| Lab No.: | K0214 | 03-01 | K0214 | 03-02 | | |
| Client Sample I.D.: | Raw Wate / 19B08 | | Reservoir Site #5 / 1 05 | 9B0887- | | |
| Date/Time Sampled: | 2/12/19 | 7:25 | 2/12/19 | 10:00 | | |
| Date/Time Analyzed: | 2/18/19 | 10:14 | 2/18/19 | 10:29 | | |
| QC Batch No.: | 1902180 | GC8A1 | 1902180 | GC8A1 | | |
| Analyst Initials: | CM/ | AS | CM/ | AS | | |
| Dilution Factor: | 1.(| 0 1.0 | | | | |
| ANALYTE | Result mg/L | RL mg/L | Result mg/L | RL mg/L | | |
| Methane | 3.0 | 0.0010 | 0.30 | 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

page 1 of 1

Date 2/19/19

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

LCS/LCSD Recovery and RPD Summary Report

Date 2/19/19

QC Batch #: 190218GC8A1

Matrix: Air

Reporting Units: mg/L

| | LAR | ORATOR | | | LE SUM | ARY | | | | |
|----------------|--|--|--|--|---|--|---|---|--|--|
| | LAD | ORATON | II CONTR | | | | | | | |
| METHOD | BLANK | | | CS | LC | CSD | | | | |
| 2/18/19 | 9:44 | | 2/18/1 | 19 9:16 | 2/18/1 | 19 9:30 | | | | |
| CM/A | S | | CM | 1/AS | CN | I/AS | | | | |
| 1.0 | | | 1.0 | | 1 | .0 | | | | |
| Result mg/L | RL mg/L | SPIKE AMT. mg/L | Result mg/L | % Rec. | Result mg/L | % Rec. | RPD | Low %Rec | High %Rec | Max. RPD |
| ND | 0.0010 | 0.654 | 0.668 | 102 | 0.678 | 104 | 1.5 | 70 | 130 | 30 |
| | 2/18/19 CM/A 1.0 Result mg/L | METHOD BLANK 2/18/19 9:44 CM/AS 1.0 Result RL mg/L mg/L | METHOD BLANK 2/18/19 y:44 CM/AS 1.0 Result RL AMT. mg/L mg/L mg/L | LABORATORY CONTE METHOD BLANK L 2/18/19 9:44 2/18/19 CM/AS CM CM/AS CM 1.0 SPIKE Result RL mg/L mg/L | METHOD BLANK LCS 2/18/19 9:44 2/18/19 9:16 CM/AS CM/AS 1.0 1.0 Result RL AMT. Result mg/L mg/L mg/L | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | $\begin{array}{c c c c c c c c c } \mbox{LABORATORY CONTROL SAMPLE SUMMARY} \\ \hline \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$ | $\begin{array}{c c c c c c c c } \hline LABORATORY CONTROL SAMPLE SUMMARY \\ \hline \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$ | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | $\begin{tabular}{ c c c c c } \hline LABORATORY CONTROL SAMPLE SUMMARY \\ \hline \begin{tabular}{ c c c c c } \hline METHOD & $LANK$ & $$L$ & L & $$L$ & L & $L$$ |

M.M. f

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

- Air TECHNOLOGY Laboratories, Inc. —

page 1 of 1

| | | | | | | | | | | | | | | | 2 | 2/2/12 | 2 | |
|--|------------------------|---|-----------------------|----------------|------------|-------------------------|---|---------|--------------------------------------|--------------------|---------|--------|--|--------------|----------------------------------|----------------------|----------------------------|----------------------------|
| Client | | City of Lomita | Sy | System Numbe | umber | | | | Ana | Analysis Requested | Reque | sted | | | Handelle | | | |
| Address | | 24373 Walnut Avenue | i I I | | Č | 100 | | | | - | - | | - | | | - | | |
| | | Lomita, CA 91717 | | | ת | 1910013 | 2 | | | 100 | Tat | | | | | | | |
| Phone # | | (310)903-2243 | | | Destinati | Destination Laboratory | atory | | 7 | | | Me | | | | | | |
| Fax # | | | | | [X] Clinic | [X] Clinical Laboratory | atory | | Fots | | | thai | | | | | | |
| Project | | Standard Analysis | | and): areas | RWQCB | RWQCB Compliance | 756 | | al Di | | | ne (' | | | | | | |
| Sub Project | CWPI | CWPF Monthly Compliance Samples; | | | | YES | | | issolv | | ardn | Wate | Colo Nitra | Odo | | | | |
| Comments | | 200 WEEK OJ FED., 2019 | | | Ц Т | ELAP# | | | ed So | ngane | | r) (RS | | | | | | |
| Sampled by | | Patrick McCue | | | *** | 1088 | | | lids | | P-A / H | 5K175) | | | | | | |
| Date | Time | Sample Idenitification | Matrix | Type | Preserv | Temp. | Hd | Total | | | | | | | | | | |
| 5260 6102/21/2 | 25 | Raw Water Site #1 | GW | <u>w</u> | N/A | 20.3 | 763 | Ø | × | × | | | × | | | | | |
| 2/12/2019 OT | 0725 | Raw Water Site #1 | GW | 1W | 1, 2, 7 | | | | | | x x | × | | ļ | | | | |
| | | | | | | | | | | | | | | | | | | |
| 2/12/2019 O 7 | 0726 Filter | Filter Effluent (Free Chlorine) Site#2 | MQ | 1W | 1,7 | Ze. 3 | 7.67 | 10.3 | | <u>^</u> | × | | + | | | | | |
| 2/12/2019 0730 | | Filter Effluent (Total Chlorine) Site#3 | DW | 1W | N/A | 20.2 | 7.68 | 0.01 | | × | | | × | | | | | |
| 2/12/2019 CJ | 0732 | Zone #2 Site #6 | MQ | 01 | N/A | رم. 11 ک | 823 | 2.cH | × | | × | | | | | | | |
| | | | | | | | | | | | | | | ļ | | - | | |
| 2/12/2019 1 0 0 | 00 | Reservoir Effluent Site #5 | MQ | a | N/A | 16.70 | 0.0 | 3.01 | × | <u> </u> | × | | - | × | | | | |
| 2/12/2019 1000 | 00 | Reservoir Effluent Site #5 | MQ | 9 | 2.7 | | | | | <u> </u> | | × | | | | | | |
| Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI (5) U2SCA (5) N2SCO3 (7) C214 (6) C4420 | Ia2S203 (2) HCI (| | Matrix: DW-Drinking W | W-Drink | ting Wate | r, WW-W | ater, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air | SW-Ston | Storm Water, GW- Ground Water, A-Air | r, GW- | Groun | d Wate | r, A-Ai | | | | Type- 1-Re | Type- 1-Routine, 2-Repeat, |
| Relinquishe | Relinquished By (Sign) | Print Name / Company | | | | Date / Time | Time | AV-C | biaceil | | Rend | AV-W | Pecial W-Well D- Dis Peopled Rit (Sign) | //SI. | 1 | | Dates Manual / Contraction | |
| PARIS A. MIN | N.C. | Patrick McCue /City of Lomita | omita | | | | | 1 | | | 11 | | 8 | | | $\overline{\lambda}$ | · / | 517 |
| - Som mo | - ann | | | /12/20 | 19 | | 167 | | | $\frac{1}{2}$ | Ľ | 204 | シノン | 9 | | ろつ | hapaved, | 1/2158 |
| Witzarro | zro | alaparo/crss | LSB | 2 | | | | 612 | | 子 子 | B | 5 | 5 | \mathbf{k} | | Bol | Bob Glach. | 45777 |
| Comments: | | | | | Х | mples i | Samples received: (MOn ice | UN() | | Z. | tact | Ĉ | Custo | dy sea | (XIntact () Custody seals Temp. | | 6.2 ()F | () C |
| Chinned Via | | 1 Fod X Golden State | DOLL 1 | | | | | | | | | | | | | | | |

"Your Water and Wastewater Analysis Solution"

1960887



05 March 2019

Clinical Lab No.: 19B1604

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

Project Name:Standard AnalysisSub Project:CWPF 3rd Week of Feb, 2019 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 02/20/19 . Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

tister

Stu Styles Client Services Manager



| Lomita, City of 24373 Walnut Avenue Lomita CA, 91717 | | | Project: Star b Project: CW Manager: Mar | PF 3rd W | veek of Feb, 20 | 19 Compliance | Sampling I | | 19B1604)2/20/19 16:50)3/05/19 |
|--|-----------------------------|-----------|--|----------|-----------------|---------------|------------|------------|---------------------------------------|
| Reservoir Influent Site #3 | | 19B1604-(| 01 (Water) | | Sample Da | te: 02/20/19 | 6:05 Sa | ampler: P. | M. |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 11.2 | | N/A | mg/L | 02/20/19 | 02/20/19 | 1908138 | |
| pH (Field) | Field | 7.54 | | N/A | pH Units | 02/20/19 | 02/20/19 | 1908138 | |
| Temperature (Field) | Field | 18.6 | | N/A | °C | 02/20/19 | 02/20/19 | 1908138 | |
| General Physical Analyses | | | | | | | | | |
| Apparent Color | SM 2120BM | 5.0 | 3.0 | 15 | Color Units | 02/20/19 | 02/20/19 | 1908135 | |
| Metals | | | | | | | | | |
| Iron (Fe) | EPA 200.7 | ND | 100 | 300 | ug/L | 02/28/19 | 02/28/19 | 1909104 | |
| Manganese (Mn) | EPA 200.7 | ND | 20 | 50 | ug/L | 02/28/19 | 02/28/19 | 1909104 | |
| Reservoir Effluent Site #5 | | 19B1604-(| 02 (Water) | | Sample Da | te: 02/20/19 | 9:10 S | ampler: P. | M. |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 3.75 | | N/A | mg/L | 02/20/19 | 02/20/19 | 1908138 | |
| pH (Field) | Field | 8.06 | | N/A | pH Units | 02/20/19 | 02/20/19 | 1908138 | |
| Temperature (Field) | Field | 16.8 | | N/A | °C | 02/20/19 | 02/20/19 | 1908138 | |
| General Physical Analyses | | | | | | | | | |
| Apparent Color | SM 2120BM | 5.0 | 3.0 | 15 | Color Units | 02/20/19 | 02/20/19 | 1908135 | |
| Odor Threshold | EPA 140.1-M | 1 | 1 | 3 | TON | 02/20/19 | 02/20/19 | 1908135 | |
| General Chemical Analyses | | | | | | | | | |
| Total Filterable Residue/TDS | SM 2540C | 690 | 5.0 | 1000 | mg/L | 02/26/19 | 02/28/19 | 1909040 | |
| ND Analyte NOT DETECTED at o | r above the reporting limit | | | | | | | | |

1 of 4 K022202



March 1, 2019



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

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:19B1604Lab Number:K022202-01

Enclosed are results for sample(s) received 2/22/19 by Air Technology Laboratories. Samples were received intact and chilled to 4° C. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

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

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

Sincerely,

Nbl. 1

Mark Johnson Operations Manager MJohnson@AirTechLabs.com

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

SUBCONTRACT ORDER

1 1 4 7 "

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| | 2 | of 4 | |
| Κ | 022 | 2202 | |

| | Clinical Laboratory of San Bernardino 19B1604 | 14022202-01 |
|--|---|---|
| SENDING LABORATORY: | RECEIVING LABORATORY: | |
| Clinical Laboratory of San Bernardino 21881 Barton Road Grand Terrace, CA 92313 Phone: 909.825.7693 Fax: 909.825.7696 Project Manager: Stu Styles | Air Technology Labs 18501 East Gale Avenue Suite 13 City of Industry, CA 91748 Phone :(626) 964-4032 Fax: | 0 |
| Please email results to Project Manager: Stu S [] glaubig@clinical-lab.com [V] styles@cl | Styles linical-lab.com [] bernstein@clinical-lab.com | |
| California EDT transfer those samples Water Trax Upload Client: | s with PS codes provided [] Yes [V] No [] Yes [V] No | |
| Turn Around Time [] 10 Days [√] 5 Subcontract Comments: | Days [] Other Days | |
| Analysis | | Comments |
| Sample ID: Reservoir Effluent Site #5 / 19B160 | 04-02 Sampled: 02/20/19 09:10 PS Code: Water WTX I | D: |
| Methane RSK175 | and the second secon | Report in mg/L |
| Containers Supplied: 10ml Amber Vial (B) 40 | 0ml Amber Vial (C) | |
| | | n a an |
| | | |
| | | 4.0 |
| BJ Dy 02/21 Réleased By Date | 119 15:15 Time Received By 19 1056 Time Received By | 2/22/19 857 Date/Time 2/22/19 1056 Date/Time |

| Client: | Clinical Laboratory |
|----------------------|----------------------------|
| Attn: | Stu Styles |
| Project Name: | NA |
| Project No.: | 19B1604 |
| Date Received: | 02/22/19 |
| Matrix: | Water |
| Reporting Units. | mg/I |

Reporting Units: mg/L

| | | RS | K175 | | | |
|---------------------|-------------|---------|------|-------|---|--|
| T I NY | TZOAAA | 0.0.0.1 | 1 | 1 | 1 | |
| Lab No.: | K0222 | | | | | |
| | Reservoir | | | | | |
| Client Sample I.D.: | Site #5 / 1 | 9B1604- | | | | |
| | 02 | 02 | | | | |
| Date/Time Sampled: | 2/20/19 | 9:10 | | | | |
| Date/Time Analyzed: | 2/27/29 | 11:54 | | | | |
| QC Batch No.: | 1902270 | GC8A1 | | | | |
| Analyst Initials: | CM/ | CM/AS | | | | |
| Dilution Factor: | 1.0 | | | | | |
| | Result | RL | | | | |
| ANALYTE | mg/L | mg/L | | | | |
| Methane | 0.18 | 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 - 28 (19

AirTECHNOLOGY Laboratories, Inc. -

QC Batch #: 190227GC8A1

Matrix: Air

Reporting Units: mg/L

| | | LAB | ORATOR | | K175 ROL SAMP | LE SUMN | MARY | | | | |
|---------------------------------|------------------|------------|-----------------------|----------------|------------------|----------------|----------------|-----|-------------|--------------|-------------|
| Lab No.: Date/Time Analyzed: | METHOD 2/27/19 1 | | | | CS 9 10:42 | | CSD 9 10:56 | | | | |
| Analyst Initials: | | | | | I/AS | | 1/AS | | 1 | | |
| Dilution Factor: | 1.0 | | | 1.0 | | 1.0 | | | | | - |
| ANALYTE | Result mg/L | RL mg/L | SPIKE AMT. mg/L | Result mg/L | % Rec. | Result mg/L | % Rec. | RPD | Low %Rec | High %Rec | Max. RPD |
| Methane | ND | 0.0010 | 0.654 | 0.654 | 100.0 | 0.667 | 102 | 2.0 | 70 | 130 | 30 |

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

Reviewed/Approved By: _

MM- K

Date 2/28/19

Mark Johnson Operations Manager

The cover letter is an integral part of this analytical report

Air TECHNOLOGY Laboratories, Inc. -

m p

Chain of Custody

| | | | - | | | | | | | | | | | 192 | 19 BIDUM | |
|--------------------------|---|--------------------------------------|-----------|-----------|-------------|-------------------------|--|-------------------|-------------------------|--------------|--------|-----------------|----------------------|--|-------------------------------|-------|
| Client | | City of Lomita | Sy | System Nu | umber | | | Aná | Analysis Requested | Reque | sted | | | and a state of the | | 2 - S |
| Address | 243 | 24373 Walnut Avenue | | | 1011 | 1010072 | | | | | | | | | | |
| | Γ | Lomita, CA 91717 | | | 101 | 0.00 | | | | | | | | | | |
| Phone # | - 14 | (310)903-2243 | P. | ٩ | estination | Destination Laboratory | | | | leth | | | | | | |
| Fax# | | | | 1 | X] Clinical | [X] Clinical Laboratory | | Ire | Tota | ane | | | | | | |
| Project | S | Standard Analysis | | | RWQCB C | RWQCB Compliance | | on / N | l Diss | (Wa | | | | | | · |
| 1.1.0 | CWPF 31 | CWPF 3rd week of February, 2019 | | | | yes | | 1ang | · · · · · | ater olor | dor | | | | | |
| ouv rioject | Co. | Compliance Sampling | | | EL | ELAP# | | anes | | | | | | | | |
| Comments | For TC/EC/BA(| For TC/EC/BACT see weekly Distro CoC | | | 4 | 00 | | e | lids | SK | | | | | | |
| Sampled by | | P.M. | | | 2 | 0001 | | | | 175) | | | | | | |
| Date | Time San | Sample Idenitification | Matrix | Type | Preserv | Hđ | Temp. To Chic | Total Chlorine | | | | | | Comments | Comments / P.S. Codes | |
| 2/20/2019 CV | C CC Reservoir Influent Site #3 | ent Site #3 | MO | 1W | N/A | 1152 | 18.6 11. | x Z | | x | | | | | | Γ |
| | | | | | | | | | | | | | | | | Γ |
| 5/20/2019 09 | O9 I O Reservoir Effluent Site #5 | ent Site #5 | Ma | <u>N</u> | N/A | 2000 | ы С С | 15 | × | X | × | | | | | |
| 2/20/2019 O ^c | U ^Q / C Reservoir Effluent Site #5 | ent Site #5 | MQ | N. | 2 | 8.06 | 1 1 2 9 | 1. | | × | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | Γ |
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| | | | | | | | | | | + | | | | | | |
| | | | | | | | | | | | | | | | | |
| Preservatives: (1 | Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI | 4) NH4CI | Matrix: D | W-Drinkin | g Water, I | WW-Waste M | Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air | orm Water | GW-O | Sround | Water, | A-Air | | Type | Type- 1-Routine, 2-Repeat, 3- | 4 |
| (5) H2SO4 (| (5) H2SO4 (6) Na2SO3 (7) Cold (8) Other: | Other: | | | | | | Replacement, | | 4-Special | W-We | W-Well D- Dist. | | | | |
| Relinquist | Relinquished By (Sign) | Print Name / Company | | | | Date / Time | e |) | $\langle \cdot \rangle$ | 10 | | | 1 | / Print Nam | (npamo) | |
| Tatriner | meen | Patrick McCue / City of Lomita | | 2/20/201 | 0 | 1:20 | | -(| \mathbf{A} | A | Y | 7 | | ncella | ary L | |
| | | Thraeld CIJA | | 2-20 | 19 11 | 1650 | | | | NO N | K T | 1 all | PANAN | white / | M CUSIR | |
| Comments: | } | | | | ŝ. | Samples received | \mathcal{V} | on ice | てこ | | \sim | Custody |) Custody seals Temp | S.C. | ()F | |
| Shipped Via | | [] Fed X [] Golden State | SAU [] | C'llent | | Other | | | | | _age_ | Page_1_ of_1_ | | | | Π |

"Your Water and Wustewater Analysis Solution"



05 March 2019

Clinical Lab No.: 19B1924

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

Project Name:Standard AnalysisSub Project:CWPF 4th Week of Feb, 2019 Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 02/26/19 . Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

tister

Stu Styles Client Services Manager



| Lomita, City of | | | Project: Star | | 2 | | | Vork Order: | 19B1924 |
|------------------------------|-------------|----------|----------------|----------|----------------|---------------------|-----------------|-------------|----------------|
| 24373 Walnut Avenue | | Su | ib Project: CW | PF 4th W | eek of Feb, 20 | 19 Compliance | | | 02/26/19 16:40 |
| Lomita CA, 91717 | | Project | Manager: Mar | k Anders | en | | R | eported: 0 | 03/05/19 |
| Reservoir Influent Site #3 | | 19B1924- | 01 (Water) | | Sample Da | te: 02/26/19 | 6:05 S a | mpler: P. | M. |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 11.2 | | N/A | mg/L | 02/26/19 | 02/26/19 | 1909058 | |
| pH (Field) | Field | 7.74 | | N/A | pH Units | 02/26/19 | 02/26/19 | 1909058 | |
| Temperature (Field) | Field | 19.7 | | N/A | °C | 02/26/19 | 02/26/19 | 1909058 | |
| General Physical Analyses | | | | | | | | | |
| Apparent Color | SM 2120BM | ND | 3.0 | 15 | Color Units | 02/26/19 | 02/26/19 | 1909077 | |
| Metals | | | | | | | | | |
| Iron (Fe) | EPA 200.7 | ND | 100 | 300 | ug/L | 02/28/19 | 02/28/19 | 1909104 | |
| Manganese (Mn) | EPA 200.7 | ND | 20 | 50 | ug/L | 02/28/19 | 02/28/19 | 1909104 | |
| Reservoir Effluent Site #5 | | 19B1924- | 02 (Water) | | Sample Da | te: 02/26/19 | 10:00 Sa | mpler: P. | M. |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 3.8 | | N/A | mg/L | 02/26/19 | 02/26/19 | 1909058 | |
| pH (Field) | Field | 8.16 | | N/A | pH Units | 02/26/19 | 02/26/19 | 1909058 | |
| Temperature (Field) | Field | 16.8 | | N/A | °C | 02/26/19 | 02/26/19 | 1909058 | |
| General Physical Analyses | | | | | | | | | |
| Apparent Color | SM 2120BM | ND | 3.0 | 15 | Color Units | 02/26/19 | 02/26/19 | 1909077 | |
| Odor Threshold | EPA 140.1-M | 1 | 1 | 3 | TON | 02/26/19 | 02/26/19 | 1909077 | |
| General Chemical Analyses | | | | | | | | | |
| Total Filterable Residue/TDS | SM 2540C | 610 | 5.0 | 1000 | mg/L | 02/27/19 | 03/01/19 | 1909087 | |

ND Analyte NOT DETECTED at or above the reporting limit

1 of 4 K022701



March 6, 2019



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

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:19B1924Lab Number:K022701-01

Enclosed are results for sample(s) received 2/27/19 by Air Technology Laboratories. Samples were received intact and chilled to 6° C. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

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

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

Sincerely,

Mark Johnson Operations Manager MJohnson@AirTechLabs.com

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

SUBCONTRACT ORDER

2 of 4 K022701

| | SUBCONTRACTORDER | |
|---|--|--|
| | Clinical Laboratory of San Bernardino 19B1924 | 4022701-81 |
| 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 City of Industry, CA 91748 Phone :(626) 964-4032 Fax: | e 130 |
| Please email results to Project Manager: S []]glaubig@clinical-lab.com [\/ styles(| tu Styles @clinical-lab.com [] bernstein@clinical-lab.com | |
| California EDT transfer those samp Water Trax Upload Client: | ples with PS codes provided [] Yes [] No [] Yes [] No | х я |
| Turn Around Time [] 10 Days [\] Subcontract Comments: | 5 Days [] Other Days | |
| Analysis | n na standing and an | Community |
| Analysis | | Comments |
| Sample ID: Reservoir Effluent Site #5 / 19B | | TX ID: |
| Methane RSK175 | | Report in mg/L |
| ontainers Supplied: | | F F F F F F F F F F |
| 0ml Amber Vial (B) | 40ml Amber Vial (C) | |
| | | |
| | | τ · · · · · · · · · · · · · · · · · · · |
| | 17 | ŕ |
| (1) All and the second seco | | 6°C |
| ht 2/27 | 1/19 07:40 te / Time Received By AMA te / Time Received By AMA te / Time Received By | Date / Time 217/19 8:30 Date / Time Date / Time |

3 of 4 K022701

| Client: | Clinical Laboratory |
|----------------------|----------------------------|
| Attn: | Stu Styles |
| Project Name: | NA |
| Project No.: | 19B1924 |
| Date Received: | 02/27/19 |
| Matrix: | Water |
| Reporting Units: | mg/L |

Reporting Units: mg/L

| | | RS | K175 | | | |
|---------------------|-------------|----------|------|--|----------|---|
| | | | | | 1 | |
| Lab No.: | K0227 | 01-01 | | | | |
| | Reservoir | Effluent | | | | 2 |
| Client Sample I.D.: | Site #5 / 1 | 9B1924- | | | | |
| | 02 | | | | 585 G | |
| Date/Time Sampled: | 2/26/19 | 10:00 | | | | |
| Date/Time Analyzed: | 2/27/19 | 12:25 | | | | |
| QC Batch No.: | 1902270 | GC8A1 | | | | |
| Analyst Initials: | CM/ | AS | | | | |
| Dilution Factor: | 1.(|) | | | | |
| | Result | RL | | | | |
| ANALYTE | mg/L | mg/L | | | | |
| Methane | 0.27 | 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 3/6/19

▲irTECHNOLOGY Laboratories, Inc. 18501 E. Gale Avenue, Suite 130 ◆ City of Industry, CA 91748 ◆ Ph: (626) 964-4032 ◆ Fx: (626) 964-5832

4 of 4 K022701

QC Batch #: 190227GC8A1

Matrix: Air Reporting Units: mg/L

| | | | | RS | K175 | | | | | | |
|---------------------|----------------|------------|-----------------------|----------------|----------|----------------|---------|-----|-------------|--------------|-------------|
| | | LAB | ORATOR | RY CONTR | ROL SAMP | LE SUMN | /IARY | | | | |
| Lab No.: | METHOD | BLANK | | L | CS | LO | CSD | | | v | |
| Date/Time Analyzed: | 2/27/19 1 | 1:10 | | 2/27/1 | 9 10:42 | 2/27/1 | 9 10:56 | | | | |
| Analyst Initials: | CM/A | S | | CN | I/AS | CN | 1/AS | | | | |
| Dilution Factor: | 1.0 | | | - 1 | .0 | 1 | .0 | | | | к. |
| ANALYTE | Result mg/L | RL mg/L | SPIKE AMT. mg/L | Result mg/L | % Rec. | Result mg/L | % Rec. | RPD | Low %Rec | High %Rec | Max. RPD |
| Methane | ND | 0.0010 | 0.654 | 0.654 | 100.0 | 0.667 | 102 | 2.0 | 70 | 130 | 30 |

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

Reviewed/Approved By: _

Mark Johnson Operations Manager

The cover letter is an integral part of this analytical report

Mall. 1

Date 3/2/19

18501 E. Gale Avenue, Suite 130 City of Industry, CA 91748 Ph: (626) 964-4032 Fx: (626) 964-5832

•

Chain of Custody

| Client | City of Lomita | System | Number | | | Analy | Analysis Requested | gues | ted | | | | |
|------------------------|--|-------------------------|-------------------|--|---------------|--------------|--------------------|---------|------------|---------------------------|-------------------------------|----------------------|-------------------------------|
| Address | 24373 Walnut Avenue | | 10, | 1010073 | | | | | | | | | |
| | Lomita, CA 91717 | | - | 0,001 | | | | M | | | | | |
| Phone # | (310)903-2243 | | Destinet | Destination Laboratory | | | | leth | | | | | |
| Fax# | | | [X] Clinic | [X] Clinical Laboratory | | | Tote | ane | | | | | |
| Project | Standard Analysis | | RWQCB | RWQCB Compliance | | on / M | Co Diss | (Wa | 0 | | | | |
| Sub Declear | CWPF 4th week of February, 2019 | | | yes | | | olor | iter | dor | | | | |
| ann riolect | Compliance Sampling | | Ш | ELAP# 👔 | | | |) (R | | | | | |
| Comments | For TC/EC/BACT see weekly Distro CoC | | * | 1000 | | | lid• | SK | | | | | |
| Sampled by | P.M. | | - | 000 | | | | 175) | | | | | |
| Date Time | sample Idenitification | Matris Type | e Preserv | pH Temp. | . Total | | | | | • | | Comments | Comments / P.S. Codes |
| 2/26/2019 060t | ၀(၀၀၆) Reservoir Influent Site #3 | MI MO | NIA | 7. PH 19.7 | 2.11 2 | | × | | | - | | | |
| | | | | | | <u>↓</u> | | | | | | | |
| 2/26/2019 1 0 00 | Reservoir Effluent Site #5 | WI WO | NIA | 3 16 16. | 6 3.8 | | X X | | × | | | | |
| 2/26/2019 000 | し の〇 Reservoir Effluent Site #5 | WI WO | | | - | | | × | | | | | |
| | | | • | | | | | | | | | | |
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| | | | | | | | | | | † | | | |
| | | | | | | | • | 1 | | | | | |
| | | | | | | | | | | | | | |
| Preservatives: (1) Na | I) NH4CI | Watrix: DW-Dr | inking Water | Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air | r, SW-Storm V | Vater, G | W. Oro. | N pun | ater, A | -Air 2 - 2 : - | | Type | Type- 1-Routine, 2-Repeat, 3- |
| (5) H2SO4 (6) N | (5) H2SO4 (6) Na2SO3 (7) Cold (8) Other: | | | | Idex | Kepiacement, | (4-5pa | Clar V. | -Mell | 4-Spocial W-Well D- Dist. | | | |
| Relinquished By (Sign) | l By (Sign) Print Name / Company | | | Date / Time | | | D | | 8 | - | - 1 - 2 | Print Name / Company | / Company |
| Pedruck 9 | ADICE Batrick McCue/City of Lomita | nita 2/26/20 5.8 2/2 | 2019 2 < / 1 7 | 04.40 | | - | | K.F. | | | | Olchar R | ALLIS.S |
| Commonte: | | | | Samples received: (A) On the | st: (A) On | | | | | | T alaca | | 1 |
| comments. | | | | | | | | | ן ג און | Gooren | mater (X) custody scars 1 cmp | cmp d | TH AC |
| Shipped Via |] Fed X] Golden State | 511 Sd/11 | llent | Other | | | - - | Pay | Page_1_ of | <u>1_1</u> | | | |
| | | | | | | | | | | | | | |

"Your Water and Wastewater Analysis Solution"



04 March 2019

Clinical Lab No.: 19B1536

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

Project Name:Standard AnalysisSub Project:Lomita Distribution Ortho, 3rd Week February 2019

Enclosed are the results of the analyses for samples received at the laboratory on 02/20/19 . Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

tister

Stu Styles Client Services Manager



| Lomita, City of | | | Project: Star | | - | | | Work Order: | 19B1536 |
|---|-----------|-----------|----------------|-------------|---------------|---------------------|---------------|-------------|---------------|
| 24373 Walnut Avenue | | Su | b Project: Lon | nita Distri | bution Ortho, | 3rd Week Febru | ary 2019 | Received: 0 | 2/20/19 16:50 |
| Lomita CA, 91717 | | Project | Manager: Mar | k Anderse | en | |] | Reported: 0 | 3/04/19 |
| 1948 252nd St. | | 19B1536-0 |)1 (Water) | | Sample Da | te: 02/20/19 | 7:50 S | ampler: P.1 | M. |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 3.6 | | N/A | mg/L | 02/20/19 | 02/20/19 | 1908117 | |
| pH (Field) | Field | 8.08 | | N/A | pH Units | 02/20/19 | 02/20/19 | 1908117 | |
| Temperature (Field) | Field | 15.4 | | N/A | °C | 02/20/19 | 02/20/19 | 1908117 | |
| <u>General Chemical Analyses</u> | | | | | | | | | |
| Ortho-Phosphate (PO4) | HACH 8048 | 0.38 | 0.020 | N/A | mg/L | 02/21/19 | 02/21/19 | 1908091 | |
| Phosphorus (Total as P) | HACH 8190 | 0.41 | 0.0067 | N/A | mg/L | 03/01/19 | 03/01/19 | 1910006 | |
| 24632 S. Moon | | 19B1536-(| 02 (Water) | | Sample Da | te: 02/20/19 | 8:25 S | ampler: P.1 | M. |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 3 | | N/A | mg/L | 02/20/19 | 02/20/19 | 1908117 | |
| pH (Field) | Field | 7.98 | | N/A | pH Units | 02/20/19 | 02/20/19 | 1908117 | |
| Temperature (Field) | Field | 16 | | N/A | °C | 02/20/19 | 02/20/19 | 1908117 | |
| General Chemical Analyses | | | | | | | | | |
| Ortho-Phosphate (PO4) | HACH 8048 | 0.44 | 0.020 | N/A | mg/L | 02/21/19 | 02/21/19 | 1908091 | |
| Phosphorus (Total as P) | HACH 8190 | 0.43 | 0.0067 | N/A | mg/L | 03/01/19 | 03/01/19 | 1910006 | |
| 2450 W. 247th St. | | 19B1536-0 | 03 (Water) | | Sample Da | te: 02/20/19 | 8:35 S | ampler: P.1 | M. |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 0.42 | | N/A | mg/L | 02/20/19 | 02/20/19 | 1908117 | |
| pH (Field) | Field | 7.84 | | N/A | pH Units | 02/20/19 | 02/20/19 | 1908117 | |
| Temperature (Field) | Field | 15.7 | | N/A | °C | 02/20/19 | 02/20/19 | 1908117 | |
| General Chemical Analyses | | | | | | | | | |
| Ortho-Phosphate (PO4) | HACH 8048 | 0.47 | 0.020 | N/A | mg/L | 02/21/19 | 02/21/19 | 1908091 | |
| 010001000000000000000000000000000000000 | | | 0.020 | 14/14 | 1116/12 | | | | |



| Lomita, City of 24373 Walnut Avenue Lomita CA, 91717 | | | Project: Star b Project: Lon Manager: Mar | nita Distri | bution Ortho, | 3rd Week Febru | ary 2019 | Work Order Received: Reported: | 19B1536 02/20/19 16:50 03/04/19 |
|--|-----------|-----------|---|-------------|---------------|----------------|----------|--------------------------------------|---------------------------------------|
| 2052 Dawn St. | | 19B1536-(| 04 (Water) | | Sample Da | te: 02/20/19 | 8:10 | Sampler: | P.M. |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 1.9 | | N/A | mg/L | 02/20/19 | 02/20/19 | 1908117 | |
| pH (Field) | Field | 7.97 | | N/A | pH Units | 02/20/19 | 02/20/19 | 1908117 | |
| Temperature (Field) | Field | 15.5 | | N/A | °C | 02/20/19 | 02/20/19 | 1908117 | |
| General Chemical Analyses | | | | | | | | | |
| Ortho-Phosphate (PO4) | HACH 8048 | 0.49 | 0.020 | N/A | mg/L | 02/21/19 | 02/21/19 | 1908091 | |
| Phosphorus (Total as P) | HACH 8190 | 0.48 | 0.0067 | N/A | mg/L | 03/01/19 | 03/01/19 | 1910006 | |
| CWPF SP5 | | 19B1536-0 | 05 (Water) | | Sample Da | te: 02/20/19 | 9:10 | Sampler: | P.M. |
| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
| Field Analyses | | | | | | | | | |
| Cl Res Total (Field) | Field | 3.75 | | N/A | mg/L | 02/20/19 | 02/20/19 | 1908117 | |
| pH (Field) | Field | 8.06 | | N/A | pH Units | 02/20/19 | 02/20/19 | 1908117 | |
| Temperature (Field) | Field | 16.8 | | N/A | °C | 02/20/19 | 02/20/19 | 1908117 | |
| General Chemical Analyses | | | | | | | | | |
| Ortho-Phosphate (PO4) | HACH 8048 | 0.48 | 0.020 | N/A | mg/L | 02/21/19 | 02/21/19 | 1908091 | |
| Phosphorus (Total as P) | HACH 8190 | 0.40 | 0.0067 | N/A | mg/L | 03/01/19 | 03/01/19 | 1910006 | |

ND Analyte NOT DETECTED at or above the reporting limit

1913153C Chain of Custody

| Client | City of Lomita | System | System Number | | | | | ulys | Analysis Requested | ted | |
|------------------------|---|-------------|---------------|-------------------------------|--------------|-------------------|------------------|----------|--|----------|--------------------------|
| Address | 24373 Walnut Avenue | | | 10400 | 7.0 | | | <u> </u> | | | |
| | Lomita, CA 91717 | | | 1310010 | 2 | | | | | | |
| Phone # | (310) 903-2243 | | Desi | Destination Laboratory | oratory | | | | | | |
| Fax # | (310) 325-3627 | | X | [X] Clinical Laboratory | oratory | | | | | | |
| Project | Standard Analysis | | RW | RWQCB Compliance | oliance | | | | | | |
| 0.150 | Lomita Distribution Ortho, 3rd Week | | | No | | | | | | | |
| oud right | February, 2019 | | inini | ELAP # | 34 | | | | | | |
| Comments | | | | 1000 | | | | E (PC | | | |
| Sampled by | P.M. | | | 0001 | _ | | | | | | |
| Date | Sample Idenitification | Matrix Type | Preserv | Bottle Number | Temp. | Total Chlorine | Hq | | | | Comments / P.S. Codes |
| | | | | | | | | | | | |
| 2/20/2019 6750 | 6 <i>7<i>S</i>じ 1948 252ND ST. D</i> | DW DI | N/A | s | اح کړ | 3,6 | 8,05 | XX | | | |
| 2/20/2019 68 20 | 68 C 24632 S. MOON | DW DI | N/A | 4 | 16.0 | 0.5 | 7.98 | X X | | | |
| 2/20/2019 0835 | 2450 W. 247th ST. | DW D1 | N/A | 9 | 15.7 (| 24.0 | 1.81 | XX | | | |
| 2/20/2019 C8/C | C8(C 2052 DAWN ST. | IQ MO | N/A | 7 | 1.1.2 | ١ و | 7.9.7 | XX | | | |
| 2/20/2019 0910 | | DW DI | N/A | 8 | 16.85 | 3.75 | 8,06 | ×× | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | _ | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Preservatives: (1) Na | Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI | - | Matrix: DW | /-Drinking V | Vater, WW- | Waste Wa | ter, SW-Sto | rm Wat | Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air | und Wat | er, A-Air |
| (5) H2SO4 (6) N | | | 1 | Type-1-Rou | itine, 2-Rep | oeat, 3-Re | placement, | 4-Speci | Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D- Dist. | D- Dist. | |
| Relinquished By (Sign) | By (Sign) Print Name / Company | | | Da | Date / Time | | $\left(\right)$ | C Re | ceived By (Sign) | | Print Name / Company |
| Patrick Mu | Patrick McCue / City of Lomita | 14 | /20/2019 | 11:20 | | | | A V | 11 | Þ | LULGNICIAS |
| OV Mr | - Jucon/2150 | | Z-20191 | 1650 | | | | X | Mand | وكالكري | MANANA AT CA |
| | | | Sandple | Sandples received: 7 | d: 💦 On ice | n ice (| Intact | 5 | Custody seals | | remp J. 9 () |
| | | | | | | | <u>-</u> | S X | 0 | | • |
| Shipped Via | [] Fed X [] Golden State | | Client | Other | | | | | Page_1_ of_ | -1- | |
| | | | | | | | | | | | |

"Your Water and Wastewater Analysis Solution"

APPENDIX B

METHANE MONITORING LOG



CITY OF LOMITA PUBLIC WORKS DEPARTMENT

CYPRESS WATER PRODUCTION FACILITY HANDHELD METHANE LOG READINGS

| | | FEBR | UARY 2019 | |
|---|-----|---------|------------|-------------------------|
| DATE | DAY | METHAN | E HANDHELD | COMMENTS |
| 2/1/2019 | Fri | CH4- 0% | Oxy- 20.9% | |
| 2/2/2019 | Sat | CH4- | Oxy- | |
| 2/3/2019 | Sun | CH4- | Oxy- | |
| 2/4/2019 | Mon | CH4- 0% | Oxy- 20.7% | |
| 2/5/2019 | Tue | CH4- 0% | Oxy- 20.9% | |
| 2/6/2019 | Wed | CH4- 0% | Oxy- 20.6% | |
| 2/7/2019 | Thu | CH4- 0% | Oxy- 20.9% | |
| 2/8/2019 | Fri | CH4- | Oxy- | |
| 2/9/2019 | Sat | CH4- | Oxy- | |
| 2/10/2019 | Sun | CH4- | Оху- | |
| 2/11/2019 | Mon | CH4- 0% | Oxy- 20.9% | |
| 2/12/2019 | Tue | CH4- 0% | Oxy- 20.9% | |
| 2/13/2019 | Wed | CH4- 0% | Oxy- 20.9% | |
| 2/14/2019 | Thu | CH4- 0% | Oxy- 20.9% | |
| 2/15/2019 | Fri | CH4- 0% | Oxy- 20.9% | |
| 2/16/2019 | Sat | CH4- | Oxy- | |
| 2/17/2019 | Sun | CH4- | Oxy- | |
| 2/18/2019 | Mon | | | President's Day Holiday |
| 2/19/2019 | Tue | CH4- | Oxy- | |
| 2/20/2019 | Wed | CH4- | Oxy- | |
| 2/21/2019 | Thu | CH4- 0% | Oxy- 19.9% | |
| 2/22/2019 | Fri | CH4- | Oxy- | |
| 2/23/2019 | Sat | CH4- | Oxy- | |
| 2/24/2019 | Sun | CH4- | Oxy- | |
| 2/25/2019 | Mon | CH4- | Oxy- | |
| 2/26/2019 | Tue | CH4- 0% | Oxy- 20.9% | |
| 2/27/2019 | Wed | CH4- 0% | Oxy- 20.9% | |
| 2/28/2019 | Thu | CH4- 0% | Oxy- 20.9% | |
| | | | | |
| ND- Non Detect CH4- Methane Oxy- Oxygen | 1 | 1 | | |
| Day Off/Holiday- R | ed | | | |

APPENDIX C

NITRIFICATION MONITORING DATA SUMMARY

¹ MONTHLY NITRIFICATION MONITORING SUMMARY REPORT CITY OF LOMITA, System No. 1910073 --- Month, Year: FEBRUARY 2019

| # Code | Sample ID | Location | Sample Date | Temp | рН | Total Chlorine | Free Chlorine | Total Ammonia; | Free Ammonia | Nitrite | Nitrate | Coliform ² | HPC | Zone | Comments |
|---------|---------------|-------------------------|-------------|------|--------------|-------------------|---------------------------------------|--|--|---|---------|-----------------------|--------|------|----------------|
| Units/O | \rightarrow | | MM/DD/YYYY | °C | | mg/L | mg/L | mg/L | ∭gmg/L | mg/L | mg/L | P/A | CFU/ml | | |
| 1 D | S13-003 | 1948 W 252nd St | 2/5/2019 | 16.5 | 8.02 | 2.50 | 0.10 | 2.0.47 | 0.04 | -32.003 | ND | A | ND | 1 | Well/MWD Blend |
| 2 D | S13-004 | 24632 S Moon Ave | 2/5/2019 | 16.5 | 7.96 | 2.60 | 0.05 | 0.39 | 0.07 | 0.015 | ND | А | 5 | 1 | Well/MWD Blend |
| 3 D | S13-008 | 25417 Pennsylvania Ave | 2/5/2019 | 16.9 | 7.99 | 2.90 | 0.06 | 0.44 | 0.00 | 0.009 | ND | А | 6 | 1 | Well/MWD Blend |
| 4 D | A | 2052 Dawn St | 2/5/2019 | 16.4 | 7.94 | 1.11 | 0.02 | 0:26 | 0.14 | 0.020 | ND | A | 8 | 1 | Well/MWD Blend |
| 5 D | | Reservoir SP5 | 2/5/2019 | 16.7 | 8.04 | 2.98 | 0.05 | 0.53 | 0.00 | | ND | А | NĎ | 1 | Well/MWD Blend |
| 6 D | \$13-001 | 1912 W 259th St | 2/5/2019 | 14.8 | 8.28 | 2.19 | 0.04 | 0.52 | 0.09 | 0.005 | ND | A | ND | 2 | MWD Only |
| 7 D | \$13-002 | 26314 S Monte Vista Ave | 2/5/2019 | 14.9 | 8.26 | 2.05 | 0.09 | 0.45. | 0.04 | 0.005 | ND | A | ND | 3 | MWD Only |
| 8 D | \$13-005 | 2500 PCH | 2/5/2019 | 15.8 | 8.27 | 1.84 | 0.05 | 0.44 | 0.01 | 0.004 | ND | A | 1 | 2 | MWD Only |
| | | | | | | | | | | | | | | | |
| 1 D | S13-003 | 1948 W 252nd St | 2/12/2019 | 15.6 | 7.99 | 2.60 | 0.07 | 0:46 | 0,03 | 0.007 | ND | A | ND | 1 | Well/MWD Blend |
| 2 D | \$13-004 | 24632 S Moon Ave | 2/12/2019 | 16.7 | 7.91 | 2.40 | 0.10 | 0:34 | a | 0.015 | ND | Α | 3 | 1 | Well/MWD Blend |
| 3 D | S13-008 | 25417 Pennsylvania Ave | 2/12/2019 | 16.8 | 7.95 | 2.80 | 0.09 | 0.42 | 0.00 | 0.011 | ND | А | 4 | 1 | Well/MWD Blend |
| 4 D | А | 2052 Dawn St | 2/12/2019 | 16.4 | 7.89 | 1.02 | 0.02 | 0.24 | 0.15 | 0.016 | 0.51 | A | 14 | 1 | Well/MWD Blend |
| 5 D | | Reservoir SP5 | 2/12/2019 | 16.7 | 8.05 | 3.01 | 0.06 | 0:50 | 0.00 | 0.006 | 0.50 | A | ND | 1 | Well/MWD Blend |
| 6 D | S13-001 | 1912 W 259th St | 2/12/2019 | 14.2 | 8.24 | 2.12 | 0.05 | 0.51 | . 0.10 | 0.005 | ND | A | ND | 2 | MWD Only |
| 7 D | \$13-002 | 26314 S Monte Vista Ave | 2/12/2019 | 14.2 | 8.23 | 1.90 | 0.06 | 0.40 | - 0.04 | 0.005 | ND | A | ND | 3 | MWD Only |
| 8 D | S13-005 | 2500 PCH | 2/12/2019 | 15.7 | 8.22 | 2.04 | 0.06 | 0.42 | 0.02 | 0.004 | ND | A | 1 | 2 | MWD Only |
| | | | | | | | | | | | | | | | |
| 1 D | S13-003 | 1948 W 252nd St | 2/20/2019 | 15.4 | 8.08 | 3,60 | 0.06 | 0.10 | 0.00 | 0.009 | ND | А | ND | 1 | Well/MWD Blend |
| 2 D | S13-004 | 24632 S Moon Ave | 2/20/2019 | 16.0 | 7.98 | 3.00 | 0.10 | 0.29 | 0.01 | 0.021 | ND | A | ND | 1 | Well/MWD Blend |
| 3 D | S13-008 | 25417 Pennsylvania Ave | 2/20/2019 | 16.1 | 7.99 | 3.40 | 0.07 | 0.38 | 0.00 | 0.009 | ND | А | ND | 1 | Well/MWD Blend |
| 4 D | A | 2052 Dawn St | 2/20/2019 | 15.5 | 7.97 | 1.90 | 0.02 | 0.07 | A. 0.15 | c c0.015 😒 | ND | А | 2 | 1 | Well/MWD Blend |
| 5 D | | Reservoir SP5 | 2/20/2019 | 16.8 | 8.06 | 3.75 | 0.06 | 0.50 | 0.00 | 0.003 | ND | A | ND | 1 | Well/MWD Blend |
| 6 D | \$13-001 | 1912 W 259th St | 2/20/2019 | 14.2 | 8.30 | 1.91 | 0.05 | \\;;::0.36 ₹`* | 0.07 | 0.005 | ND | A | ND | 2 | MWD Only |
| 7 D | S13-002 | 26314 S Monte Vista Ave | 2/20/2019 | 13.8 | 8.32 | 1.89 | 0.04 | 0:34 | 0.06 | 0.010 | ND | A | ND | 3 | MWD Only |
| 8 D. | S13-005 | 2500 PCH | 2/20/2019 | 15.1 | 8.29 | 1.99 | 0.07 | 0.35 | 0.08 | 0.007 | ND | A | ND | 2 | MWD Only |
| | | | | | | | | | | | | | | | |
| 1 D | S13-003 | 1948 W 252nd St | 2/26/2019 | 15.2 | 8.21 | 2.80 | 0.07 | | 0.02 | ÷ 0.008 | ND | A | 7 | 1 | Well/MWD Blend |
| 2 D | S13-004 | 24632 5 Moon Ave | 2/26/2019 | 15.8 | 8.10 | 3.20 | 0.06 | 0.46 | 0.02 | S 0:019 | ND | A | 4 | 1 | Well/MWD Blend |
| 3 D | S13-008 | 25417 Pennsylvania Ave | 2/26/2019 | 15.9 | 8.13 | 4.00 | 0.06 | 0.64 | 3**0:00 ×* | 0.011 | ND | A | | 1 | Well/MWD Blend |
| 4 D | A | 2052 Dawn St | 2/26/2019 | 15.9 | 8.14 | 1.21 | 0.04 | 0:25 | 0.14 | 0.007 | ND | A | 81 | 1 | Well/MWD Blend |
| 5 D | | Reservoir SP5 | 2/26/2019 | 16.8 | 8. <u>16</u> | 3.80 | 0.06 | | 0.00 | 0.006 | ND | A | 380 | 1 | Well/MWD Blend |
| 6 D | \$13-001 | 1912 W 259th St | 2/26/2019 | 14.4 | 8.34 | 2.16 | 0.06 | 0.57 | 0:03 | 0.006 | ND | Α | ND | 2 | MWD Only |
| 7 D | S13-002 | 26314 S Monte Vista Ave | 2/26/2019 | 14.4 | 8.35 | 2.05 | 0.07 | 0.48 | ÷ 0.08 ÷ , | ×== 0.006 | ND | А | ND | 3 | MWD Only |
| 8 D | S13-005 | 2500 PCH | 2/26/2019 | 14.8 | 8.33 | 2.11 | 0.05 | 0.48 | ie ≪0.07 ° | 0.006 | ND | A | 3 | 2 | MWD Only |
| | | | | _ | | | | for the second | the second second second | March 200 March 200 Distances | | | | | |
| 1 D | \$13-003 | 1948 W 252nd St | | | | | | | | | | | | 1 | Well/MWD Blend |
| 2 D | S13-004 | 24632 S Moon Ave | | | | | | | | | | | | 1 | Well/MWD Blend |
| 3 D | S13-008 | 25417 Pennsylvania Ave | | | | | · · · · · · · · · · · · · · · · · · · | Second Alt | 8 - 18 A - 18 - 18 - 18 - 18 - 18 - 18 - | 1988 (FE 194 | | | | 1 | Well/MWD Blend |
| 4 D | A | 2052 Dawn St | | | | | | | a a ghair a she | g States to | | | | 1 | Well/MWD Blend |
| 5 D | | Reservoir | | | | | <u> </u> | S. S. Messel | 医肠管菌素 | Real Andrews | | | | 1 | Well/MWD Blend |
| 6 D | \$13-001 | 1912 W 259th St | | | | | | 通常的影響 | | A DE LA CENCE | . — | | | 2 | MWD Only |
| 7 D | \$13-002 | 26314 S Monte Vista Ave | | | | L | <u> </u> | | | | | | | 3 | MWD Only |
| 8 D | \$13-005 | 2500 PCH | | | | | | 國國國新教師 | | 法理查查加的 | | | | 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.

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

APPENDIX D

HACH CHEMICAL ANALYZER CERTIFICATION



Certificate of Instrument Performance

 ∞

Company Name: CITY OF LOMITA Account Number: 40157716 Contract Number: HACH584486-03-DEC-2017 07:31:59 Certification Number: WO-00222156

| Part Numb | er: 5500.AN | мС.AC.1.US, 5500s | C AMMONIA MONOCHLORAMINE ANALYZER, AC, |
|--|--|--|---|
| | Serial N | Number: 15328030 | |
| | | Asset Tag | י כי |
| RECEIVED CONDITION: (One must be Checked) | | Within Tolerance | heck Out Tests, NOT performed ce ce but Limited (*see servicing notes) e (*see servicing notes) |
| RETURNED CONDITION: (One must be Checked) | | | ee but Limited (*see servicing notes) e (*see servicing notes) |
| Chemical Standards Used, (Hach, Reg 1, cat# 25234000) (Hach, Reg 2, cat# 2523500 10-2020)(Hach, Reg 3, Cat# 04-2019)(Hach, Std1, Cat# 2 10-2023)(Hach, Std2, Cat# 25 (Hach, Chemkey Free and T 112018255, exp. 3-14-2019) cat#9429400, lot# 11201829 | 0, lot# A8281, 00, lot# A8290 25236000, lot 25237000, lot# 2523800, lot# 5239000, lot# otal Ammonia 0(Hach, Chemi |), exp. t# A8284, exp. # A8276, exp. A8177, exp. A8065, exp.03-2021) a, cat# 8791500, lot# kev Monochlorimine, | Test Equipment Used, (ID#): (Hach SL1000, I.D.# 181380103771, exp. 5-18-2019)(Extech Humidity/Temperature Pen, I.D# 1100422, exp. 5-2-2019) |
| | | Environmental | |
| Te | mperature: | 18.2°C | Humidity: 58.9% |

Hach Company does hereby certify that the above listed equipment meets or exceeds all Manufacturer's Service Specifications (unless limited conditions apply). Test equipment and chemicals used for performance verification are calibrated using standards traceable to the National Institute of Standards and Technology (NIST). Where such standards do not exist, the basis for calibration is documented. The proper operation of the above instrument was established at the time of certificate issuance. To insure continued performance, user must adhere to all requirements listed in the instrument manual.

| Certified by: Se | ergioDebia | Certification Date: 2/26/2019 |
|------------------|----------------|--|
| Signature: | In super Datas | Title: Authorized Service Representative |



Certificate of Instrument Performance

0000

Company Name: CITY OF LOMITA Account Number: 40157716 Contract Number: HACH584486-03-DEC-2017 07:31:59 Certification Number: WO-00222156

| Part Number: 9180600, PANEL ASSY, AMPEROMETRIC CHLORINE, ENGLISH | | | | | | |
|--|---|--|--|--|--|--|
| Serial Number: 151145003599 | | | | | | |
| Asset Tag : | | | | | | |
| RECEIVED CONDITION: (One must be Checked) | | heck Out Tests, NOT performed ce ce but Limited (*see servicing notes) e (*see servicing notes) | | | | |
| RETURNED CONDITION: (One must be Checked) | | Within Tolerance Within Tolerance but Limited (*see servicing notes) Out of Tolerance (*see servicing notes) | | | | |
| Chemical Standards Used, (Hach, Free Chlorine Electrol exp.05-2021)(Hach, DPD Por Reagent, cat#1407099, lot#A | Test Equipment Used, (ID#): (Hach DR900, REF348, exp. 4-2-2019), (Extech Humidity/Temperature Pen, I.D# 1100422, exp. 5-2-2019) | | | | | |
| | Environmental Conditions | | | | | |
| Temperature: 18.2°C Humidity: 58.9% | | | | | | |

Hach Company does hereby certify that the above listed equipment meets or exceeds all Manufacturer's Service Specifications (unless limited conditions apply). Test equipment and chemicals used for performance verification are calibrated using standards traceable to the National Institute of Standards and Technology (NIST). Where such standards do not exist, the basis for calibration is documented. The proper operation of the above instrument was established at the time of certificate issuance. To insure continued performance, user must adhere to all requirements listed in the instrument manual.

| Certified by: Ser | rgioDebia | Certification Date: 2/26/2019 |
|-------------------|------------------|--|
| Signature: | - info Bringen & | Title: Authorized Service Representative |



| Account Number: | 40157716 | Contact Name: PATRICK MCCUE | | | | |
|--|---|--|---|--|--|--|
| Phone: Location: | : CITY OF LOMITA : 310 9032243 :CITY OF LOMITA, 26112 CYPRESS STREET CYPRESS \$ RESERVOIR, LOMITA, California, 90717, US | Fax: Email: p.mccue@lomitacity.com PRESS STREET Technician: SergioDebia | | | | |
| | HACH584486-03-DEC-2017 07:31:59 | Purchase Order: PO 18-52 Date of Service: 2/26/2019 | | | | |
| Product | Product Description | Serial Number | Asset Tag | | | |
| 5500.AMC.AC.1.US | NIA MONOCHLORAMINE ANALYZER, AC, 1 CH, US (9560 | 0 153280300001 | | | | |
| readings. I replaced the 6-month faulty sample pump was the cau was 0.99 on Cell 1 and 0.97 on 0 acceptable tolerance when the s within 5%. After PM service was | Notes alyzer was Fair, the software version is 1.13 and reading wer maintenance kit which includes the capillary modules, all tub se of the alarm). I cleaned both colorimeter cells. Cleaned an Cell 2. Slope correction after service was 1.00 on Cell 1 and 1 ystem was pressurized and that all solenoids were working p completed the as left reading of the analyzer was 3.033 ppm condition has been verified within customers' expectations. | ing, compressor check valve, fan filte d calibrated the unit using internal sta .00 on Cell 2. I verified that the reag roperly. I verified the results with a ce | er, stir magnets and sample pump (a andards, slope correction before service lent and sample pressures were within the rifified Hach SL1000 the results were | | | |
| | | | | | | |
| 9180600 | Product Description PANEL ASSY, AMPEROMETRIC CHLORINE, ENGLISH | Serial Number 151145003599 | Asset Tag | | | |
| | een verified within customers' expectations. | | | | | |
| Product | Product Description | Serial Number | Asset Tag | | | |
| | Notes | | | | | |
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| Product | Product Description | Serial Number | Asset Tag | | | |
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| Product | Product Description | Serial Number | Asset Tag | | | |
| | Notes | | | | | |
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| Product | Product Description | Serial Number | Asset Tag | | | |
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| | Notes | | | | | |

Service Price Detail for Work Listed Above

| Item Number | Item Description | Qty | Unit Price | Disc. % | Ext Price | Net Price |
|-------------|--|-----|------------|---------|-----------|-----------|
| ZONE-1 | * HACH SVC TRAVEL CHARGE 0-100M (P) | 1.0 | 492.00 | 0 | 492.00 | 0.00 |
| MC_M82 | ** Certificate of Instrument Perf (P) (FRRF) | 2.0 | 94.49 | 0 | 188.98 | 0.00 |
| 9160200 | KIT, MEMBRANE REPLACEMENT, CLF10sc PLASTIC TIP | 1.0 | 77.75 | 0 | 77.75 | 0.00 |
| 9713300 | ASSY, PKG OF SAMPLE PUMP REPLACEMENT, 5500sc AMC | 1.0 | 202.00 | 0 | 202.00 | 0.00 |
| FIELD_LABOR | * FIELD SERVICE LABOR HACH | 6.1 | 260.00 | 0 | 1573.00 | 0.00 |
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Subtotal: 0.00

All purchases of Hach Company products and/or services are expressly and without limitation subject to Hach Company's Terms & Conditions of Sale ("Hach TCS"), incorporated herein by reference and published on Hach Company's website at www.hach.com/terms. Hach TCS are incorporated by reference into each of Hach's offers or quotations, order acknowledgments, and invoice and shipping documents. The first of the following acts shall constitute an acceptance of Hach's offer and not a counteroffer and shall create a contract of sale ("Contract") in accordance with the Hach TCS, subject to Hach's final credit approval: (i) Buyer's issuance of a purchase order document against Hach's offer or quotation; (ii) Hach's acknowledgement of Buyer's order; or (iii) commencement of any performance by Hach in response to Buyer's order. Provisions contained in Buyer's purchase documents that materially alter, add to or subtract from the provisions of these Terms and Conditions of Sale shall be null and void and not considered part of the Contract.

THIS IS NOT AN INVOICE

ANY DOLLAR AMOUNTS PRESENTED IN THIS REPORT IS AN ESTIMATION AND DOES NOT INCLUDE ANY APPLICABLE TAXES. IF CHARGES ARE OVER \$500.00, A HARD COPY OF A PURCHASE ORDER MAY BE REQUIRED.

Customer Name: CITY OF LOMITA

Signature:

Date:

Hach Tech Name: SergioDebia

Signature:



Date: 2/27/2019