

CITY OF LOMITA



# Cypress Water Production Facility Monthly Status Report

---

JUNE 2016

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**CITY OF LOMITA**

**ADMINISTRATION**

RYAN SMOOT  
CITY MANAGER

July 11, 2016

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

Subject: System No. 1910073 - Monthly Report for the Cypress Water Production Facility (CWPF) for the period of June 1 through June 30, 2016.

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 June 2016.

If you should have any questions or concerns, please contact me at 310-325-7110 x124.

Sincerely,

Mark A. McAvoy, P.E.  
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 AND OPERATIONS

The CWPF operated continuously for 21 days during the month of June 2016 maintaining water levels ranging from 7' to 10'. The average flow from Well No. 5 was 445 gpm and 550 gpm from MWD. The blend ratio for the month was on average 42% Well water and 58% MWD water. See Table 1 below for production totals for the month of June 2016.

Table 1. Monthly Production Totals.

| Production for June 2016 |       |           |                         |
|--------------------------|-------|-----------|-------------------------|
| Well No. 5               | 36.14 | ac-ft     | (11,774,006 gallons)    |
| MWD                      | 48.93 | ac-ft     | (15,941,990 gallons)    |
| Combined Total           | 85.07 | ac-ft     | (27,715,996 gallons)    |
| Daily                    | 4.05  | ac-ft/day | (1,319,809 gallons/day) |

## C. OPERATIONAL INTERRUPTIONS

The CWPF remained isolated until June 10, 2016. During the isolation period disinfection of the reservoir, SCADA maintenance and electrical upgrades were performed. MWD supplied Zone I up until June 10, 2016. 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. Iron in the raw water (SP1) for the month was below the MCL. Manganese concentration in the raw water (SP1) was above the MCL. Iron and Manganese levels entering the reservoir (SP3) show non-detect, indicating the greensand filtration system remains highly effective. Other additional bacteriological laboratory samples collected included Total Coliform and Heterotrophic Plate Count (HPC) levels on the effluent side of the greensand filter (SP2) showing absent for both.

### **E2. FREE AND TOTAL CHLORINE RESIDUALS**

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

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

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

#### **E3-1 TOTAL DISSOLVED SOLIDS (TDS)**

The sampling results indicate the TDS levels of the effluent blended water to be on average 682 mg/L. The TDS level of the effluent water meets the City's Water Quality Objective/Goal of 500 to 750 mg/L. The sampling results indicate the TDS levels in the raw water and MWD water source to be 690 mg/L and 700 mg/L, respectively.

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

The sampling results for the month indicate the hardness levels of the blended water to be on average 295 mg/L. Although, this hardness level is in the upper range of 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 0.34 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 June 2016 in Appendix B.

## **E4. NITRIFICATION MONITORING**

Weekly Nitrification sampling was performed during the month of June 2016, see Appendix C.



## F. TABLES

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

| Date, week of | SP1, Well Raw Water Discharge |                  |                 |                |       |         |                | SP2, Combined Pressure Filter Effluent |                |         | SP3, After chloramination static mixer; reservoir entry |                 |                 |                |       |         |
|---------------|-------------------------------|------------------|-----------------|----------------|-------|---------|----------------|--|----------------|---------|---|-----------------|-----------------|----------------|-------|---------|
|               | Iron, ug/L                    | *MCL = 3 00 ug/L | Manganese, ug/L | *MCL = 50 ug/L | Color | *MCL=15 | Total Coliform | Total Coliform                         | HPC, MPN/100mL | MCL=500 | Iron, mg/L  | *MCL = 300 ug/L | Manganese, mg/L | *MCL = 50 ug/L | Color | *MCL=15 |
| 6/1/2016      | 270                           | 300              | 93              | 50             | 15    | 15      | A              | A                                      | A              | 500     | ND  | 300             | ND              | 50             | ND    | 15      |
| 6/8/2016      |                               |                  |                 |                |       |         |                |  |                |         | ND  | 300             | ND              | 50             | ND    | 15      |
| 6/15/2016     |                               |                  |                 |                |       |         |                |  |                |         | ND  | 300             | ND              | 50             | ND    | 15      |
| 6/22/2016     |                               |                  |                 |                |       |         |                |  |                |         | ND  | 300             | ND              | 50             | ND    | 15      |
| 6/29/2016     |                               |                  |                 |                |       |         |                |  |                |         | ND  | 300             | ND              | 50             | ND    | 15      |

**Notes:**

Monthly- Orange; Weekly- Yellow

A – Absent

ND – Non Detect

\*Per the SWRCB Drinking Water “Chemicals and Contaminants in Drinking Water” Regulations

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

| Date, week of | SP2     | SP3     |          |                       | SP4     |          |                       | SP5     |          |                       |
|---------------|---------|---------|----------|-----------------------|---------|----------|-----------------------|---------|----------|-----------------------|
|               | Free Cl | Free Cl | Total Cl | Total NH <sub>3</sub> | Free Cl | Total Cl | Total NH <sub>3</sub> | Free Cl | Total Cl | Total NH <sub>3</sub> |
| 6/1/2016      | -       | -       | -        | -                     | -       | -        | -                     | -       | -        | -                     |
| 6/8/2016      | 4.83    | 0.49    | -        | -                     | 0.21    | 3.20     | 0.62                  | 0.06    | 2.29     | 0.58                  |
| 6/15/2016     | 5.54    | 0.46    | 4.08     | 0.58                  | 0.29    | 3.41     | 0.62                  | 0.06    | 2.69     | 0.62                  |
| 6/22/2016     | 6.67    | 0.42    | 4.51     | 0.60                  | 0.33    | 3.09     | 0.56                  | 0.08    | 2.66     | 0.54                  |
| 6/29/2016     | 6.21    | 1.10    | 4.06     | 0.65                  | 0.40    | 3.33     | 0.57                  | 0.06    | 2.55     | 0.54                  |

**Note:**

The CWPf was offline during the first week of June 2016 and put back online on June 10, 2016.

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

| Date, week of  | TDS, mg/L            |                 |                          |                      | T.O.N.                   |          | Hardness, mg/L       |                 |                          |                      | Methane (Water), mg/L |                          |
|----------------|----------------------|-----------------|--------------------------|----------------------|--------------------------|----------|----------------------|-----------------|--------------------------|----------------------|-----------------------|--------------------------|
|                | SP1 - Raw Well Water | SP6 - MWD Water | SP5 - Reservoir Effluent | Goal= 500 - 750 mg/L | SP5 - Reservoir Effluent | MCL= 3   | SP1 - Raw Well Water | SP6 - MWD Water | SP5 - Reservoir Effluent | Goal= 180 - 250 mg/L | SP1 - Raw Well Water  | SP5 - Reservoir Effluent |
| 6/1/2016       | 690                  | 700             | 690                      | 500-750              | 1                        | 3        | 310                  | 310             | 310                      | 180-250              | 4.5                   | 0.25                     |
| 6/8/2016       |                      |                 | 700                      | 500-750              | 1                        | 3        |                      |                 |                          |                      |                       | 0.18                     |
| 6/15/2016      |                      |                 | 690                      | 500-750              | 1                        | 3        |                      |                 | 300                      | 180-250              |                       | 0.37                     |
| 6/22/2016      |                      |                 | 690                      | 500-750              | 1                        | 3        |                      |                 | 280                      | 180-250              |                       | 0.54                     |
| 6/29/2016      |                      |                 | 640                      | 500-750              | 1                        | 3        |                      |                 | 290                      | 180-250              |                       | 0.37                     |
| <b>Average</b> |                      |                 | <b>682</b>               | 500-750              | <b>1</b>                 | <b>3</b> |                      |                 | <b>295</b>               | 180-250              |                       | <b>0.34</b>              |

**Notes:**

Monthly- Orange; Weekly- Yellow

ppm – parts per million

mg/L – milligram per liter

T.O.N. - Threshold Odor Number

TDS - Total Dissolved Solids

Hardness - As total CaCO<sub>3</sub>

Methane (Water) - Methane dissolved in water



# Monthly CWPF Monitoring Report – JUNE 2016

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

| Sample Locations and Parameters  | Frequency        | MCL/ Goal  | 6/1<br>1stWk<br>or <b>Mo.<br/>Result<br/>(date)</b>    | 6/8<br>2 <sup>nd</sup> Wk   | 6/15<br>3rdWk | 6/22<br>4 <sup>th</sup> Wk | 6/29<br>5 <sup>th</sup> Wk | Comments and/or<br>Other Info.   |
|--|------------------|--|--|---|---------------|----------------------------|----------------------------|--|
| <b>SP1 --- Also called Well 5 Raw Water or Site#1.</b>   |                  |  |  |   |               |                            |                            |  |
| TDS, ppm   | Monthly          | See SP5  | 690  | <b>Operations Data/Information:</b><br><br><b>CWPF operation days</b> – 30 days (21 fill days; 0 draw days; 9 isolation days)<br><b>On Well 5:</b> Daily average flow - 445 gpm; <b>JUNE 2016</b> total prod. – 36.14 AF<br><b>Combined Well 5/MWD data:</b> Average Well 5: MWD blend Ratio – 42%:58%; <b>JUNE 2016</b> total prod.- 85.07 AF; Combined Daily prod.– 4.05 AF<br><br>Chlorine Dosage: <b>N/A*</b> |               |                            |                            | *Chlorine injected after SP1, before entering the greensand filter.        |
| Hardness   | Monthly          | See SP5  | 310  |   |               |                            |                            |  |
| CH4, ppm   | Monthly          | See SP5  | 4.5  |   |               |                            |                            |  |
| Iron, ppb  | Monthly          | See SP3  | 270  |   |               |                            |                            |  |
| Manganese, ppb   | Monthly          | See SP3  | 93   |   |               |                            |                            |  |
| Color, units   | Monthly          | See SP3  | 15   |   |               |                            |                            |  |
| Total Coliform, P or A   | Monthly          | A  | A  |   |               |                            |                            |  |
| <b>SP2 --- Also called Filter Effluent or Site#3.</b>  |                  |  |  |   |               |                            |                            |  |
| Total Coliform, P or A   | Monthly          | A  | A  | Ammonia Dosage: <b>N/A*</b>   |               |                            |                            | *Ammonia added after filter effluent                                       |
| HPC,MPN/100 ml   | Monthly          | 500  | A  |   |               |                            |                            |  |
| Free Cl Res, ppm   | Continuous       | Average: <b>5.81</b> ; Range: <b>4.83 – 6.67</b>   |  |   |               |                            |                            |  |
| <b>SP3 --- Also called the Site After Chloramination &amp; Before MWD Blending or Site#4.</b>  |                  |  |  |   |               |                            |                            |  |
| Iron, ppb  | Weekly           | 300  | ND   | ND  | ND            | ND                         | ND                         |  |
| Manganese, ppb   | Weekly           | 50   | ND   | ND  | ND            | ND                         | ND                         |  |
| Color  | Weekly           | 15   | ND   | ND  | ND            | ND                         | ND                         |  |
| Free and Total Cl Res, ppm   | Continuous       | Free Cl: Average: <b>0.62</b> ; Range: <b>0.42 – 1.10</b><br>Total Cl: Average: <b>4.21</b> ; Range: <b>4.06 – 4.51</b><br>Ammonia: Average: <b>0.61</b> ; Range: <b>0.58 – 0.65</b> |  |   |               |                            |                            |  |
| <b>SP4 --- Also called Reservoir Influent or the Site Well 5/MWD Water Blend Point/Phosphate Injection.</b>  |                  |  |  |   |               |                            |                            |  |
| Phosphate Injection  |                  | Phosphate Dosage: <b>0.95 mg/L</b>   |  |   |               |                            |                            |  |
| Free and Total Cl Res, ppm   | Continuous       | Free Cl: Average: <b>0.31</b> ; Range: <b>0.21 – 0.40</b><br>Total Cl: Average: <b>3.26</b> ; Range: <b>3.09 – 3.41</b><br>Ammonia: Average: <b>0.59</b> ; Range: <b>0.56 – 0.62</b> |  |   |               |                            |                            | Cl/NH3 Ratio:<br><b>5.49,</b><br>chloramintaed water<br>into the Reservoir |
| <b>SP5 --- Also called Reservoir Effluent or Site#5. SP5 discharges into Zone 1 of the distribution system.</b>  |                  |  |  |   |               |                            |                            |  |
| TDS, ppm   | Weekly           | SI Goal:<br>500-750ppm   | 690  | 700   | 690           | 690                        | 640                        | % CH4 Removal:<br><b>92%</b>   |
| Hardness   | Monthly          | SI Goal:<br>180-250ppm   | 310  |   | 300           | 280                        | 290                        |  |
| CH4, ppm   | Weekly           | Goal: from<br>PA   | 0.25   | 0.18  | 0.37          | 0.54                       | 0.37                       |  |
| Odor, units  | Monthly          |  | 1  | 1   | 1             | 1                          | 1                          |  |
| Free and Total Cl Res, ppm   | Continuous       | Free Cl: Average: <b>0.06</b> ; Range: <b>0.06 – 0.08</b><br>Total Cl: Average: <b>2.55</b> ; Range: <b>2.29 – 2.69</b><br>Ammonia: Average: <b>0.57</b> ; Range: <b>0.54 – 0.62</b> |  |   |               |                            |                            | Cl/NH3 Ratio:<br><b>4.46,</b><br>chloraminated water<br>supplied Zone I    |
| <b>Headspace of the Cypress Reservoir.</b>   |                  |  |  |   |               |                            |                            |  |
| <sup>1</sup> CH4 ppmv; using Portable Device   | Daily (from log) | Goal - LEL   | CH4 Average: <b>0.29%</b><br>CH4 Range: <b>0% - 1%</b> |   |               |                            |                            |  |
| <b>SP 6 --- MWD Source Feeding CWPF. Also called Zone 2 of the distribution system or Site #6.</b>   |                  |  |  |   |               |                            |                            |  |
| TDS, ppm   | Monthly          | -----  | 700  |   |               |                            |                            |  |
| Hardness   | Monthly          | -----  | 310  |   |               |                            |                            |  |
| Notes: <sup>1</sup> Self-Imposed (SI) Goals: TDS Goal-500-750 ppm; Hardness as CaCO3 Goal-180-250 ppm.<br><b>***This Report is due to DDW by the 10<sup>th</sup> of the following month.</b> |                  |  |  |   |               |                            |                            |  |

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

## **APPENDIX A**

### LABORATORY RESULTS

# *Clinical Laboratory of San Bernardino, Inc.*



16 June 2016

Clinical Lab No.: 16F0348

Client User  
Lomita, City of  
24373 Walnut Avenue  
Lomita, CA 91717

Project Name: Standard Analysis  
Sub Project: Monthly Compliance/Weekly 1st week of June

Enclosed are the results of the analyses for samples received at the laboratory on 06/01/16 . Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

A handwritten signature in cursive script that reads 'Pamela Ybarra'.

Pamela Ybarra For Stu Styles  
Client Services Manager

# Clinical Laboratory of San Bernardino, Inc.



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

Project: Standard Analysis  
Sub Project: Monthly Compliance/Weekly 1st week of June  
Project Manager: Client User

Work Order: 16F0348  
Received: 06/01/16 16:30  
Reported: 06/16/16

## Raw Water Site #1

**16F0348-01 (Water)**

**Sample Date:** 06/01/16 7:20

**Sampler:** D G M

| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|

### Field Analyses

|                            |       |             |  |     |          |          |          |         |  |
|----------------------------|-------|-------------|--|-----|----------|----------|----------|---------|--|
| <b>pH (Field)</b>          | Field | <b>7.66</b> |  | N/A | pH Units | 06/01/16 | 06/01/16 | 1623363 |  |
| <b>Temperature (Field)</b> | Field | <b>18.8</b> |  | N/A | °C       | 06/01/16 | 06/01/16 | 1623363 |  |

### Microbiology Analyses

|                |         |    |   |     |        |          |          |         |       |
|----------------|---------|----|---|-----|--------|----------|----------|---------|-------|
| Total Coliform | SM 9223 | A  |   | N/A | P/A    | 06/01/16 | 06/02/16 | 1623391 |       |
| E. Coli        | SM 9223 | A  |   | N/A | P/A    | 06/01/16 | 06/02/16 | 1623391 |       |
| Plate Count    | SM9215B | ND | 1 | 500 | CFU/ml | 06/01/16 | 06/03/16 | 1624005 | HT-08 |

### General Physical Analyses

|                       |          |             |     |    |             |          |          |         |  |
|-----------------------|----------|-------------|-----|----|-------------|----------|----------|---------|--|
| <b>Apparent Color</b> | SM 2120B | <b>15.0</b> | 3.0 | 15 | Color Units | 06/01/16 | 06/01/16 | 1623266 |  |
|-----------------------|----------|-------------|-----|----|-------------|----------|----------|---------|--|

### General Chemical Analyses

|  |            |            |     |      |      |          |          |         |  |
|--|------------|------------|-----|------|------|----------|----------|---------|--|
| <b>Hardness, Total (as CaCO<sub>3</sub>)</b> | Calculated | <b>310</b> | 6.6 | N/A  | mg/L | 06/08/16 | 06/08/16 | [CALC]  |  |
| <b>Total Filterable Residue/TDS</b>          | SM 2540C   | <b>690</b> | 5.0 | 1000 | mg/L | 06/07/16 | 06/08/16 | 1623309 |  |

### Metals

|                       |           |            |     |     |      |          |          |         |  |
|-----------------------|-----------|------------|-----|-----|------|----------|----------|---------|--|
| <b>Calcium (Ca)</b>   | EPA 200.7 | <b>81</b>  | 1.0 | N/A | mg/L | 06/08/16 | 06/08/16 | 1624220 |  |
| <b>Iron (Fe)</b>      | EPA 200.7 | <b>270</b> | 100 | 300 | ug/L | 06/08/16 | 06/09/16 | 1624252 |  |
| <b>Magnesium (Mg)</b> | EPA 200.7 | <b>26</b>  | 1.0 | N/A | mg/L | 06/08/16 | 06/08/16 | 1624220 |  |
| <b>Manganese (Mn)</b> | EPA 200.7 | <b>93</b>  | 20  | 50  | ug/L | 06/08/16 | 06/09/16 | 1624252 |  |

## Filter Effluent (Free Chlorine) Site #2

**16F0348-02 (Water)**

**Sample Date:** 06/01/16 0:00

**Sampler:** D G M

| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|

### Field Analyses

|                             |       |             |  |     |          |          |          |         |  |
|-----------------------------|-------|-------------|--|-----|----------|----------|----------|---------|--|
| <b>Cl Res Total (Field)</b> | Field | <b>5.45</b> |  | N/A | mg/L     | 06/01/16 | 06/01/16 | 1623376 |  |
| <b>pH (Field)</b>           | Field | <b>7.78</b> |  | N/A | pH Units | 06/01/16 | 06/01/16 | 1623363 |  |
| <b>Temperature (Field)</b>  | Field | <b>19.6</b> |  | N/A | °C       | 06/01/16 | 06/01/16 | 1623363 |  |

### Microbiology Analyses

|                |         |    |   |     |        |          |          |         |       |
|----------------|---------|----|---|-----|--------|----------|----------|---------|-------|
| Total Coliform | SM 9223 | A  |   | N/A | P/A    | 06/01/16 | 06/02/16 | 1623391 |       |
| E. Coli        | SM 9223 | A  |   | N/A | P/A    | 06/01/16 | 06/02/16 | 1623391 |       |
| Plate Count    | SM9215B | ND | 1 | 500 | CFU/ml | 06/01/16 | 06/03/16 | 1624005 | HT-08 |

# Clinical Laboratory of San Bernardino, Inc.



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

Project: Standard Analysis  
Sub Project: Monthly Compliance/Weekly 1st week of June  
Project Manager: Client User

Work Order: 16F0348  
Received: 06/01/16 16:30  
Reported: 06/16/16

## Filter Effluent (Total Chlorine) Site #3

**16F0348-03 (Water)**

**Sample Date:** 06/01/16 7:30

**Sampler:** D G M

| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|

### Field Analyses

|                             |       |             |  |     |          |          |          |         |  |
|-----------------------------|-------|-------------|--|-----|----------|----------|----------|---------|--|
| <b>Cl Res Total (Field)</b> | Field | <b>4</b>    |  | N/A | mg/L     | 06/01/16 | 06/01/16 | 1623376 |  |
| <b>pH (Field)</b>           | Field | <b>7.74</b> |  | N/A | pH Units | 06/01/16 | 06/01/16 | 1623363 |  |
| <b>Temperature (Field)</b>  | Field | <b>20.9</b> |  | N/A | °C       | 06/01/16 | 06/01/16 | 1623363 |  |

### General Physical Analyses

|                |          |    |     |    |             |          |          |         |  |
|----------------|----------|----|-----|----|-------------|----------|----------|---------|--|
| Apparent Color | SM 2120B | ND | 3.0 | 15 | Color Units | 06/01/16 | 06/01/16 | 1623266 |  |
|----------------|----------|----|-----|----|-------------|----------|----------|---------|--|

### Metals

|                |           |    |     |     |      |          |          |         |  |
|----------------|-----------|----|-----|-----|------|----------|----------|---------|--|
| Iron (Fe)      | EPA 200.7 | ND | 100 | 300 | ug/L | 06/03/16 | 06/07/16 | 1623383 |  |
| Manganese (Mn) | EPA 200.7 | ND | 20  | 50  | ug/L | 06/03/16 | 06/07/16 | 1623383 |  |

## Zone #2 Site #6

**16F0348-04 (Water)**

**Sample Date:** 06/01/16 7:10

**Sampler:** D G M

| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|

### Field Analyses

|                             |       |             |  |     |          |          |          |         |  |
|-----------------------------|-------|-------------|--|-----|----------|----------|----------|---------|--|
| <b>Cl Res Total (Field)</b> | Field | <b>2.21</b> |  | N/A | mg/L     | 06/01/16 | 06/01/16 | 1623376 |  |
| <b>pH (Field)</b>           | Field | <b>7.86</b> |  | N/A | pH Units | 06/01/16 | 06/01/16 | 1623363 |  |
| <b>Temperature (Field)</b>  | Field | <b>19.8</b> |  | N/A | °C       | 06/01/16 | 06/01/16 | 1623363 |  |

### General Chemical Analyses

|                                     |            |            |     |      |      |          |          |         |  |
|-------------------------------------|------------|------------|-----|------|------|----------|----------|---------|--|
| <b>Hardness, Total (as CaCO3)</b>   | Calculated | <b>310</b> | 6.6 | N/A  | mg/L | 06/08/16 | 06/08/16 | [CALC]  |  |
| <b>Total Filterable Residue/TDS</b> | SM 2540C   | <b>700</b> | 5.0 | 1000 | mg/L | 06/07/16 | 06/08/16 | 1623309 |  |

### Metals

|                       |           |           |     |     |      |          |          |         |  |
|-----------------------|-----------|-----------|-----|-----|------|----------|----------|---------|--|
| <b>Calcium (Ca)</b>   | EPA 200.7 | <b>82</b> | 1.0 | N/A | mg/L | 06/08/16 | 06/08/16 | 1624220 |  |
| <b>Magnesium (Mg)</b> | EPA 200.7 | <b>27</b> | 1.0 | N/A | mg/L | 06/08/16 | 06/08/16 | 1624220 |  |

# Clinical Laboratory of San Bernardino, Inc.



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

Project: Standard Analysis  
Sub Project: Monthly Compliance/Weekly 1st week of June  
Project Manager: Client User

Work Order: 16F0348  
Received: 06/01/16 16:30  
Reported: 06/16/16

**Reservoir Effluent Site #5**      **16F0348-05 (Water)**      **Sample Date:** 06/01/16 7:00      **Sampler:** DGM

| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|

## Field Analyses

|                             |       |             |  |     |          |          |          |         |  |
|-----------------------------|-------|-------------|--|-----|----------|----------|----------|---------|--|
| <b>Cl Res Total (Field)</b> | Field | <b>0.2</b>  |  | N/A | mg/L     | 06/01/16 | 06/01/16 | 1623376 |  |
| <b>pH (Field)</b>           | Field | <b>7.26</b> |  | N/A | pH Units | 06/01/16 | 06/01/16 | 1623363 |  |
| <b>Temperature (Field)</b>  | Field | <b>19.6</b> |  | N/A | °C       | 06/01/16 | 06/01/16 | 1623363 |  |

## General Physical Analyses

|                       |            |          |   |   |     |          |          |         |  |
|-----------------------|------------|----------|---|---|-----|----------|----------|---------|--|
| <b>Odor Threshold</b> | EPA 140.1M | <b>1</b> | 1 | 3 | TON | 06/01/16 | 06/01/16 | 1623266 |  |
|-----------------------|------------|----------|---|---|-----|----------|----------|---------|--|

## General Chemical Analyses

|                                     |            |            |     |      |      |          |          |         |  |
|-------------------------------------|------------|------------|-----|------|------|----------|----------|---------|--|
| <b>Hardness, Total (as CaCO3)</b>   | Calculated | <b>310</b> | 6.6 | N/A  | mg/L | 06/08/16 | 06/08/16 | [CALC]  |  |
| <b>Total Filterable Residue/TDS</b> | SM 2540C   | <b>690</b> | 5.0 | 1000 | mg/L | 06/07/16 | 06/08/16 | 1623309 |  |

## Metals

|                       |           |           |     |     |      |          |          |         |  |
|-----------------------|-----------|-----------|-----|-----|------|----------|----------|---------|--|
| <b>Calcium (Ca)</b>   | EPA 200.7 | <b>78</b> | 1.0 | N/A | mg/L | 06/08/16 | 06/08/16 | 1624220 |  |
| <b>Magnesium (Mg)</b> | EPA 200.7 | <b>28</b> | 1.0 | N/A | mg/L | 06/08/16 | 06/08/16 | 1624220 |  |

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





## Certificate of Analysis

Project: 16F0348

Report Date: 06/13/16 09:44

Received Date: 06/06/16 10:11

Turnaround Time: 5 workdays

Phones: (909) 825-7693

Fax: (909) 825-7696

P.O. #:

Attn: John Styles

Client: Clinical Laboratory of San Bernardino, Inc.  
21881 Barton Road  
Grand Terrace, CA 92313

Dear John Styles :

Enclosed are the results of analyses for samples received 6/6/2016 with the Chain of Custody document. The samples were received in good condition, at 2.8 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 6F06020-01      Sample ID: Raw Water Site #1/ 16F0348-01      Matrix: Water  
Sampled by: Client      Sampled: 06/01/16 07:20

| Analyte       | Result | MDL   | MRL  | Units | Dil | Method  | Prepared | Analyzed     | Batch   | Qualifier |
|---------------|--------|-------|------|-------|-----|---------|----------|--------------|---------|-----------|
| Methane ..... | 4.5    | 0.024 | 0.20 | mg/l  | 20  | RSK-175 | 6/9/16   | 6/9/16 19:28 | W6F0562 |           |

Lab ID: 6F06020-02      Sample ID: Effluent Site #5/ 16F0348-05      Matrix: Water  
Sampled by: Client      Sampled: 06/01/16 07:00

| Analyte       | Result | MDL    | MRL   | Units | Dil | Method  | Prepared | Analyzed     | Batch   | Qualifier |
|---------------|--------|--------|-------|-------|-----|---------|----------|--------------|---------|-----------|
| Methane ..... | 0.25   | 0.0012 | 0.010 | mg/l  | 1   | RSK-175 | 6/9/16   | 6/9/16 19:48 | W6F0562 |           |



## Certificate of Analysis

## Quality Control Section

## Dissolved Gases in Water by RSK-175 - Quality Control

## Batch W6F0562 - RSK-175

## Blank (W6F0562-BLK1)

Prepared: 06/09/16 Analyzed: 06/09/16 18:28

| Analyte       | Sample Result | QC Result | Qualifier | Units | Spike Level | %REC | %REC Limits | RPD | RPD Limit |
|---------------|---------------|-----------|-----------|-------|-------------|------|-------------|-----|-----------|
| Methane ..... |               | ND        |           | mg/l  |             |      |             |     |           |

## LCS (W6F0562-BS1)

Prepared: 06/09/16 Analyzed: 06/09/16 17:29

| Analyte       | Sample Result | QC Result | Qualifier | Units | Spike Level | %REC | %REC Limits | RPD | RPD Limit |
|---------------|---------------|-----------|-----------|-------|-------------|------|-------------|-----|-----------|
| Methane ..... |               | 0.185     |           | mg/l  | 0.198       | 93   | 85-115      |     |           |

## Duplicate (W6F0562-DUP1)

Source: 6F06020-02

Prepared: 06/09/16 Analyzed: 06/10/16 10:37

| Analyte       | Sample Result | QC Result | Qualifier | Units | Spike Level | %REC | %REC Limits | RPD | RPD Limit |
|---------------|---------------|-----------|-----------|-------|-------------|------|-------------|-----|-----------|
| Methane ..... | 0.253 .....   | 0.266     |           | mg/l  |             |      |             | 5   | 20        |



## Certificate of Analysis

**Notes:**

The Chain of Custody document is part of the analytical report.

Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.

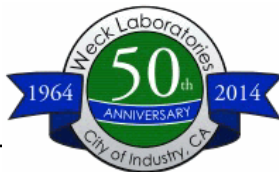
The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).

For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

**Authorized Signature**

Contact: Brandon Gee  
(Project Manager)



ELAP # 1132  
LACSD # 10143  
NELAC #4047-002 ORELAP

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.*

**Flags for Data Qualifiers:**

|     |  |
|-----|--|
| ND  | NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then not detected at or above the MDL. |
| Sub | Subcontracted analysis, original report enclosed.  |
| DL  | Method Detection Limit   |
| RL  | Method Reporting Limit   |
| MDA | Minimum Detectable Activity  |
| NR  | Not Reportable   |

**SUBCONTRACT ORDER**  
**Clinical Laboratory of San Bernardino**  
**16F0348**

6F06020

**SENDING LABORATORY:**

Clinical Laboratory of San Bernardino  
21881 Barton Road  
Grand Terrace, CA 92313  
Phone: 909.825.7693  
Fax: 909.825.7696  
Project Manager: Stu Styles

**RECEIVING LABORATORY:**

Weck Lab, Analytical & Environmental  
Analytical & Environmental Svc 14859 E Clark Ave  
Industry, CA 91745  
Phone : (626) 336-2139  
Fax: (626) 336-2634

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 [ ☒ ] No

Transfer File requested; log in with Element ID only [ ] Yes [ ☒ ] No

Turn Around Time [ ] 10 Days [ ☒ ] 5 Days [ ] Other \_\_\_ Days

Subcontract Comments:

**Analysis**

**Comments**

**Sample ID: Raw Water Site #1 / 16F0348-01**

**Sampled: 06/01/16 07:20 PS Code:**  
**Water**

**WTX ID:**

Methane RSK175

Report in mg/L

Containers Supplied:

40mL Amber Vial w/ Na2S2O3 (B)

40mL Amber Vial w/ Na2S2O3 (C)

**Sample ID: Reservoir Effluent Site #5 / 16F0348-05**

**Sampled: 06/01/16 07:00 PS Code:**  
**Water**

**WTX ID:**

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (B)

40ml Amber Vial (C)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

06/06/16 08:00

6/6/16 10:11

*[Signature]*

6/6/16 905

6/6/16 10:11

2.80

|   |      |   |  |                         |      |                    |                |                        |                  |   |                |                           |       |      |                          |          |                       |       |  |
|---|------|---|--|-------------------------|------|--------------------|----------------|------------------------|------------------|---|----------------|---------------------------|-------|------|--------------------------|----------|-----------------------|-------|--|
| Client  |      | City of Lomita                              |  | System Number           |      | Analysis Requested |                |                        |                  |   |                |                           |       |      |                          |          |                       |       |  |
| Address   |      | 24373 Walnut Avenue<br>Lomita, CA 91717     |  | 1910073                 |      |                    |                |                        |                  |   |                |                           |       |      |                          |          |                       |       |  |
| Phone #   |      | (310) 325-9830                              |  | Destination Laboratory  |      |                    |                |                        |                  |   |                |                           |       |      |                          |          |                       |       |  |
| Fax #   |      | (310) 325-3627                              |  | [X] Clinical Laboratory |      |                    |                |                        |                  |   |                |                           |       |      |                          |          |                       |       |  |
| Project   |      | Standard Analysis                           |  | RWQCB Compliance        |      |                    |                |                        |                  |   |                |                           |       |      |                          |          |                       |       |  |
| Sub Project   |      | Monthly Compliance/ Weekly 1st week<br>June |  | YES<br>ELAP #           |      |                    |                |                        |                  |   |                |                           |       |      |                          |          |                       |       |  |
| Comments  |      | RES. OFF LINE/LOW MUD                       |  | 1088                    |      |                    |                |                        |                  |   |                |                           |       |      |                          |          |                       |       |  |
| Sampled by  |      | DGM   |  |                         |      |                    |                |                        |                  |   |                |                           |       |      |                          |          |                       |       |  |
| Date  | Time | Sample Identification                       |  | Matrix                  | Type | Preserv            | Total Chlorine | Total Dissolved Solids | Iron & Manganese | E. Coli   | Total Coliform | Heterotrophic Plate Count | Color | Odor | Methane (WATER) (RSK175) | Hardness | Comments / P.S. Codes |       |  |
| 6/1/2016  | 0720 | Raw Water Site #1                           |  | GW                      | IW   | N/A                | N/A            | X                      | X                | X   | X              | X                         | X     |      |                          |          | PH 7.66 TEMP 18.8     |       |  |
| 6/1/2016  | 0720 | Raw Water Site #1                           |  | GW                      | IW   | 2.7                |                |                        |                  |   |                |                           |       |      |                          | X        |                       |       |  |
| 6/1/2016  | 0720 | Raw Water Site #1                           |  | GW                      | IW   | 1.7                |                |                        |                  |   |                |                           |       |      |                          |          |                       |       |  |
| 6/1/2016  | 0730 | Filter Effluent (Free Chlorine) Site #2     |  | DW                      | IW   | 1.7                | 5.45           | X                      | X                | X   | X              | X                         |       |      |                          |          | PH 7.78 TEMP 19.6     |       |  |
| 6/1/2016  | 0730 | Filter Effluent (Total Chlorine) Site #3    |  | DW                      | IW   | N/A                | 4.00           | X                      |                  |   |                |                           | X     |      |                          |          | PH 7.74 TEMP 20.9     |       |  |
| 6/1/2016  | 0710 | Zone #2 Site #6                             |  | DW                      | ID   | N/A                | 2.21           | X                      |                  |   |                |                           |       |      |                          | X        | PH 7.86 TEMP 19.8     |       |  |
| 6/1/2016  | 0700 | Reservoir Effluent Site #5                  |  | DW                      | ID   | N/A                | 2.0            | X                      |                  |   |                |                           | X     |      |                          | X        | PH 7.26 TEMP 19.6     |       |  |
| 6/1/2016  | 0700 | Reservoir Effluent Site #5                  |  | DW                      | ID   | 2.7                |                |                        |                  |   |                |                           |       |      |                          |          |                       |       |  |
| Preservatives: (1) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (2) HCl (3) HNO <sub>3</sub> (4) NH <sub>4</sub> Cl (5) H <sub>2</sub> SO <sub>4</sub> (6) Na <sub>2</sub> SO <sub>3</sub> (7) Cold (8) Other: |      |   |  |                         |      |                    |                |                        |                  |   |                |                           |       |      |                          |          |                       |       |  |
| Relinquished By (Sign)  |      | Print Name / Company                        |  | Date / Time             |      | Received By (Sign) |                | Print Name / Company   |                  |   |                |                           |       |      |                          |          |                       |       |  |
| Daniel Mateik   |      | City of Lomita, CA                          |  | 6/1/2016 12:30          |      | [Signature]        |                | JLUCON/USB             |                  |   |                |                           |       |      |                          |          |                       |       |  |
|   |      |   |  | 6-1-16 1630             |      | [Signature]        |                | mm                     |                  |   |                |                           |       |      |                          |          |                       |       |  |
| Comments: TURNED WELL ON FOR SP1, SP2 & SP3<br>SAMPLES PUMP TO WASTE.   |      |   |  |                         |      |                    |                |                        |                  | Samples received: ( ) On ice (X) Intake ( ) Custody seals Temp 10 |                |                           |       |      |                          |          |                       |       |  |
| Shipped Via   |      |   |  |                         |      |                    |                |                        |                  | Fed X   |                | Golden State              |       | UPS  |                          | Client   |                       | Other |  |
| Page 1 of 1   |      |   |  |                         |      |                    |                |                        |                  |   |                |                           |       |      |                          |          |                       |       |  |

\* PER CONTAINERS

"Your Water and Wastewater Analysis Solution"

# *Clinical Laboratory of San Bernardino, Inc.*



28 June 2016

Clinical Lab No.: 16F1077

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

Project Name: Standard Analysis  
Sub Project: CWPF Weekly Compliance Analysis 2nd week June

Enclosed are the results of the analyses for samples received at the laboratory on 06/10/16 . Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

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

Stu Styles  
Client Services Manager



# Clinical Laboratory of San Bernardino, Inc.



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

Project: Standard Analysis  
Sub Project: CWP Weekly Compliance Analysis 2nd week June  
Project Manager: Mark Andersen

Work Order: 16F1077  
Received: 06/10/16 15:15  
Reported: 06/28/16

## Filter Effluent (Total Chlorine) Site#3

**16F1077-01 (Water)**

**Sample Date:** 06/10/16 10:55 **Sampler:** D G M

| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|

### Field Analyses

|                             |       |             |  |     |          |          |          |         |  |
|-----------------------------|-------|-------------|--|-----|----------|----------|----------|---------|--|
| <b>Cl Res Total (Field)</b> | Field | <b>0.66</b> |  | N/A | mg/L     | 06/10/16 | 06/10/16 | 1625047 |  |
| <b>pH (Field)</b>           | Field | <b>7.69</b> |  | N/A | pH Units | 06/10/16 | 06/10/16 | 1625047 |  |
| <b>Temperature (Field)</b>  | Field | <b>22.1</b> |  | N/A | °C       | 06/10/16 | 06/10/16 | 1625047 |  |

### General Physical Analyses

|                |          |    |     |    |             |          |          |         |  |
|----------------|----------|----|-----|----|-------------|----------|----------|---------|--|
| Apparent Color | SM 2120B | ND | 3.0 | 15 | Color Units | 06/10/16 | 06/10/16 | 1625058 |  |
|----------------|----------|----|-----|----|-------------|----------|----------|---------|--|

### Metals

|                |           |    |     |     |      |          |          |         |  |
|----------------|-----------|----|-----|-----|------|----------|----------|---------|--|
| Iron (Fe)      | EPA 200.7 | ND | 100 | 300 | ug/L | 06/23/16 | 06/24/16 | 1626343 |  |
| Manganese (Mn) | EPA 200.7 | ND | 20  | 50  | ug/L | 06/23/16 | 06/24/16 | 1626343 |  |

## Reservoir Effluent Site #5

**16F1077-02 (Water)**

**Sample Date:** 06/10/16 10:45 **Sampler:** D G M

| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|

### Field Analyses

|                             |       |             |  |     |          |          |          |         |  |
|-----------------------------|-------|-------------|--|-----|----------|----------|----------|---------|--|
| <b>Cl Res Total (Field)</b> | Field | <b>2.21</b> |  | N/A | mg/L     | 06/10/16 | 06/10/16 | 1625047 |  |
| <b>pH (Field)</b>           | Field | <b>8.16</b> |  | N/A | pH Units | 06/10/16 | 06/10/16 | 1625047 |  |
| <b>Temperature (Field)</b>  | Field | <b>21.3</b> |  | N/A | °C       | 06/10/16 | 06/10/16 | 1625047 |  |

### General Physical Analyses

|                |            |          |   |   |     |          |          |         |  |
|----------------|------------|----------|---|---|-----|----------|----------|---------|--|
| Odor Threshold | EPA 140.1M | <b>1</b> | 1 | 3 | TON | 06/10/16 | 06/10/16 | 1625058 |  |
|----------------|------------|----------|---|---|-----|----------|----------|---------|--|

### General Chemical Analyses

|                                     |          |            |     |      |      |          |          |         |  |
|-------------------------------------|----------|------------|-----|------|------|----------|----------|---------|--|
| <b>Total Filterable Residue/TDS</b> | SM 2540C | <b>700</b> | 5.0 | 1000 | mg/L | 06/16/16 | 06/17/16 | 1625357 |  |
|-------------------------------------|----------|------------|-----|------|------|----------|----------|---------|--|

ND Analyte NOT DETECTED at or above the reporting limit

# Clinical Laboratory of San Bernardino, Inc.

## EDT Transfer Confirmation 1



Work Order: 16F1077

Report Date: 06/28/2016

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

Page 1 of 1

LOMITA-CITY, WATER DEPT.

User ID: 4TH

System: 1910073

WELL 05 TREATMENT PLANT EFFLUENT

Station No.: 1910073-006

Sampled: 160610 10:55

COLOR

Result: ND

Units: UNITS

Entry No.: 00081

Analyzed: 160610

IRON

Result: ND

Units: UG/L

Entry No.: 01045

Analyzed: 160624

MANGANESE

Result: ND

Units: UG/L

Entry No.: 01055

Analyzed: 160624



## Certificate of Analysis

Project: 16F1077

Report Date: 06/17/16 17:36

Received Date: 06/13/16 10:38

Turnaround Time: 5 workdays

Phones: (909) 825-7693

Fax: (909) 825-7696

P.O. #:

Attn: John Styles

Client: Clinical Laboratory of San Bernardino, Inc.  
21881 Barton Road  
Grand Terrace, CA 92313

Dear John Styles :

Enclosed are the results of analyses for samples received 6/13/2016 with the Chain of Custody document. The samples were received in good condition, at 2.4 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 6F13013-01

Sample ID: Reservoir Effluent Site #5/ 16F1077-02

Matrix: Water

Sampled by: Client

Sampled: 06/10/16 10:45

| Analyte       | Result | MDL    | MRL   | Units | Dil | Method  | Prepared | Analyzed      | Batch   | Qualifier |
|---------------|--------|--------|-------|-------|-----|---------|----------|---------------|---------|-----------|
| Methane ..... | 0.18   | 0.0012 | 0.010 | mg/l  | 1   | RSK-175 | 6/16/16  | 6/16/16 13:36 | W6F0920 |           |



## Certificate of Analysis

## Quality Control Section

## Dissolved Gases in Water by RSK-175 - Quality Control

## Batch W6F0920 - RSK-175

## Blank (W6F0920-BLK1)

Prepared: 06/16/16 Analyzed: 06/16/16 13:16

| Analyte       | Sample Result | QC Result | Qualifier | Units | Spike Level | %REC | %REC Limits | RPD | RPD Limit |
|---------------|---------------|-----------|-----------|-------|-------------|------|-------------|-----|-----------|
| Methane ..... |               | ND        |           | mg/l  |             |      |             |     |           |

## LCS (W6F0920-BS1)

Prepared: 06/16/16 Analyzed: 06/16/16 12:56

| Analyte       | Sample Result | QC Result | Qualifier | Units | Spike Level | %REC | %REC Limits | RPD | RPD Limit |
|---------------|---------------|-----------|-----------|-------|-------------|------|-------------|-----|-----------|
| Methane ..... |               | 0.196     |           | mg/l  | 0.198       | 99   | 85-115      |     |           |

## Duplicate (W6F0920-DUP1)

Source: 6F13013-01

Prepared: 06/16/16 Analyzed: 06/16/16 13:55

| Analyte       | Sample Result | QC Result | Qualifier | Units | Spike Level | %REC | %REC Limits | RPD | RPD Limit |
|---------------|---------------|-----------|-----------|-------|-------------|------|-------------|-----|-----------|
| Methane ..... | 0.184 .....   | 0.167     |           | mg/l  |             |      |             | 10  | 20        |



## Certificate of Analysis

**Notes:**

The Chain of Custody document is part of the analytical report.

Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.

The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).

For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

**Authorized Signature**

Contact: Brandon Gee  
(Project Manager)



ELAP # 1132  
LACSD # 10143  
NELAC #4047-002 ORELAP

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.*

**Flags for Data Qualifiers:**

|     |  |
|-----|--|
| ND  | NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then not detected at or above the MDL. |
| Sub | Subcontracted analysis, original report enclosed.  |
| DL  | Method Detection Limit   |
| RL  | Method Reporting Limit   |
| MDA | Minimum Detectable Activity  |
| NR  | Not Reportable   |

## SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

16F1077

6F13013

SENDING LABORATORY:

Clinical Laboratory of San Bernardino  
21881 Barton Road  
Grand Terrace, CA 92313  
Phone: 909.825.7693  
Fax: 909.825.7696  
Project Manager: Stu Styles

RECEIVING LABORATORY:

Weck Lab, Analytical & Environmental  
Analytical & Environmental Svc 14859 E Clark Ave  
Industry, CA 91745  
Phone : (626) 336-2139  
Fax: (626) 336-2634

Please email results to Project Manager: Stu Styles

[ ] glaubig@clinical-lab.com [ ] ybarra@clinical-lab.com [x] styles@clinical-lab.com [ ] nelson@clinical-lab.com

California EDT transfer those samples with PS codes provided [ ] Yes [x] No

Transfer File requested; log in with Element ID only [ ] Yes [x] No

Turn Around Time [ ] 10 Days [x] 5 Days [ ] Other \_\_\_ Days

Subcontract Comments:

AnalysisComments

Sample ID: Reservoir Effluent Site #5 / 16F1077-02

Sampled: 06/10/16 10:45 PS Code:  
Water

WTX ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40mL Amber Vial HCl (B)

40mL Amber Vial HCl (C)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time



| Client   |   | City of Lomita                          |  | System Number           |      | Analysis Requested |                |              |   |                       |  |                      |  |             |  |
|--|---|---|--|-------------------------|------|--------------------|----------------|--------------|---|-----------------------|--|----------------------|--|-------------|--|
| Address  |   | 24373 Walnut Avenue                     |  | Lomita, CA 91717        |      | 1910073            |                |              |   |                       |  |                      |  |             |  |
| Phone #  | (310) 325-9830                                |   |  | Destination Laboratory  |      |                    |                |              |   |                       |  |                      |  |             |  |
| Fax #  | (310) 325-3627                                |   |  | [X] Clinical Laboratory |      |                    |                |              |   |                       |  |                      |  |             |  |
| Project  | Standard Analysis                             |   |  | RWQCB Compliance        |      |                    |                |              |   |                       |  |                      |  |             |  |
| Sub Project  | CWPP Weekly Compliance Analysis 2nd week June |   |  | YES                     |      |                    |                |              |   |                       |  |                      |  |             |  |
| Comments   |   |   |  | ELAP #                  |      |                    |                |              |   |                       |  |                      |  |             |  |
| Sampled by   | DGM   |   |  | 1088                    |      |                    |                |              |   |                       |  |                      |  |             |  |
| Date   | Time  | Sample Identification                   |  | Matrix                  | Type | Preserv            | Total Chlorine |              |   |                       |  |                      |  |             |  |
|  |   | Raw Water Site #1                       |  | GW                      | 1W   | N/A                |                |              |   |                       |  |                      |  |             |  |
|  |   | Raw Water Site #1                       |  | GW                      | 1W   | 2,7                |                |              |   |                       |  |                      |  |             |  |
|  |   | Filter Effluent (Free Chlorine) Site#2  |  | DW                      | 1W   | 1,7                |                |              |   |                       |  |                      |  |             |  |
| 6-10-16  | 1055  | Filter Effluent (Total Chlorine) Site#3 |  | DW                      | 1W   | N/A                | 66             | X            | X |                       |  |                      |  |             |  |
| 6-10-16  | 1045  | Reservoir Effluent Site #5              |  | DW                      | 1D   | N/A                | 2.21           |              | X |                       |  |                      |  |             |  |
| "  | 11  | Reservoir Effluent Site #5              |  | DW                      | 1D   | 2,7                | 1              |              |   |                       |  |                      |  |             |  |
|  |   | Zone #2 Site #6                         |  | DW                      | 1D   | N/A                |                |              |   |                       |  |                      |  |             |  |
| Preservatives: (1) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (2) HCl (3) HNO <sub>3</sub> (4) NH <sub>4</sub> Cl<br>(5) H <sub>2</sub> SO <sub>4</sub> (6) Na <sub>2</sub> SO <sub>3</sub> (7) Cold (8) Other: |   |   |  |                         |      |                    |                |              |   |                       |  |                      |  |             |  |
| Relinquished By (Sign)   |   |   |  | Print Name / Company    |      |                    |                | Date / Time  |   | Received By (Sign)    |  | Print Name / Company |  |             |  |
| DGM <i>Dee Matich</i>  |   |   |  | City of Lomita          |      |                    |                | 6/10/2016    |   | <i>m. [Signature]</i> |  | CLSB                 |  |             |  |
| <i>m. [Signature]</i>  |   |   |  | CLSB                    |      |                    |                | 6/10/16 3:15 |   | <i>[Signature]</i>    |  | ANWINADO CLSB        |  |             |  |
| Comments: Samples received: (X) On ice (X) Intact ( ) Custody seals<br>Temp 14 ( ) F ( ) C   |   |   |  |                         |      |                    |                |              |   |                       |  |                      |  |             |  |
| Shipped Via  |   |   |  | Fed X                   |      | Golden State       |                | UPS          |   | Client                |  | Other                |  | Page 1 of 1 |  |

# *Clinical Laboratory of San Bernardino, Inc.*



30 June 2016

Clinical Lab No.: 16F1481

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

Project Name: Standard Analysis  
Sub Project: CWPF 3rd Week June Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 06/15/16 . Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

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

Stu Styles  
Client Services Manager

# Clinical Laboratory of San Bernardino, Inc.



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

Project: Standard Analysis  
Sub Project: CWPf 3rd Week June Compliance Sampling  
Project Manager: Mark Andersen

Work Order: 16F1481  
Received: 06/15/16 16:45  
Reported: 06/30/16

**Reservoir Influent Site #3** **16F1481-01 (Water)** **Sample Date:** 06/15/16 8:45 **Sampler:** DGM

| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|

## Field Analyses

|                             |       |             |  |     |          |          |          |         |  |
|-----------------------------|-------|-------------|--|-----|----------|----------|----------|---------|--|
| <b>Cl Res Total (Field)</b> | Field | <b>4</b>    |  | N/A | mg/L     | 06/15/16 | 06/15/16 | 1625393 |  |
| <b>pH (Field)</b>           | Field | <b>7.71</b> |  | N/A | pH Units | 06/15/16 | 06/15/16 | 1625393 |  |
| <b>Temperature (Field)</b>  | Field | <b>21.6</b> |  | N/A | °C       | 06/15/16 | 06/15/16 | 1625393 |  |

## General Physical Analyses

|                |          |    |     |    |             |          |          |         |  |
|----------------|----------|----|-----|----|-------------|----------|----------|---------|--|
| Apparent Color | SM 2120B | ND | 3.0 | 15 | Color Units | 06/15/16 | 06/15/16 | 1625431 |  |
|----------------|----------|----|-----|----|-------------|----------|----------|---------|--|

## Metals

|                |           |    |     |     |      |          |          |         |  |
|----------------|-----------|----|-----|-----|------|----------|----------|---------|--|
| Iron (Fe)      | EPA 200.7 | ND | 100 | 300 | ug/L | 06/29/16 | 06/29/16 | 1627154 |  |
| Manganese (Mn) | EPA 200.7 | ND | 20  | 50  | ug/L | 06/29/16 | 06/29/16 | 1627154 |  |

**Reservoir Effluent Site #5** **16F1481-02 (Water)** **Sample Date:** 06/15/16 8:30 **Sampler:** DGM

| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|

## Field Analyses

|                             |       |             |  |     |          |          |          |         |  |
|-----------------------------|-------|-------------|--|-----|----------|----------|----------|---------|--|
| <b>Cl Res Total (Field)</b> | Field | <b>2.42</b> |  | N/A | mg/L     | 06/15/16 | 06/15/16 | 1625393 |  |
| <b>pH (Field)</b>           | Field | <b>8.04</b> |  | N/A | pH Units | 06/15/16 | 06/15/16 | 1625393 |  |
| <b>Temperature (Field)</b>  | Field | <b>21.3</b> |  | N/A | °C       | 06/15/16 | 06/15/16 | 1625393 |  |

## General Physical Analyses

|                       |            |          |   |   |     |          |          |         |  |
|-----------------------|------------|----------|---|---|-----|----------|----------|---------|--|
| <b>Odor Threshold</b> | EPA 140.1M | <b>1</b> | 1 | 3 | TON | 06/15/16 | 06/15/16 | 1625431 |  |
|-----------------------|------------|----------|---|---|-----|----------|----------|---------|--|

## General Chemical Analyses

|                                     |            |            |     |      |      |          |          |         |  |
|-------------------------------------|------------|------------|-----|------|------|----------|----------|---------|--|
| <b>Hardness, Total (as CaCO3)</b>   | Calculated | <b>300</b> | 6.6 | N/A  | mg/L | 06/24/16 | 06/27/16 | [CALC]  |  |
| <b>Total Filterable Residue/TDS</b> | SM 2540C   | <b>690</b> | 5.0 | 1000 | mg/L | 06/20/16 | 06/21/16 | 1626009 |  |

## Metals

|                       |           |           |     |     |      |          |          |         |  |
|-----------------------|-----------|-----------|-----|-----|------|----------|----------|---------|--|
| <b>Calcium (Ca)</b>   | EPA 200.7 | <b>76</b> | 1.0 | N/A | mg/L | 06/24/16 | 06/27/16 | 1626409 |  |
| <b>Magnesium (Mg)</b> | EPA 200.7 | <b>27</b> | 1.0 | N/A | mg/L | 06/24/16 | 06/27/16 | 1626409 |  |

ND Analyte NOT DETECTED at or above the reporting limit

# Clinical Laboratory of San Bernardino, Inc.

## EDT Transfer Confirmation 1



Work Order: 16F1481

Report Date: 06/30/2016

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

Page 1 of 1

LOMITA-CITY, WATER DEPT.

User ID: 4TH

System: 1910073

WELL 05 TREATMENT PLANT EFFLUENT

Station No.: 1910073-006

Sampled: 160615 08:45

COLOR

Result: ND

Units: UNITS

Entry No.: 00081

Analyzed: 160615

IRON

Result: ND

Units: UG/L

Entry No.: 01045

Analyzed: 160629

MANGANESE

Result: ND

Units: UG/L

Entry No.: 01055

Analyzed: 160629



## Certificate of Analysis

Project: 16F1481

Report Date: 06/27/16 12:29

Received Date: 06/17/16 10:05

Turnaround Time: 5 workdays

Phones: (909) 825-7693

Fax: (909) 825-7696

P.O. #:

Attn: John Styles

Client: Clinical Laboratory of San Bernardino, Inc.  
21881 Barton Road  
Grand Terrace, CA 92313

Dear John Styles :

Enclosed are the results of analyses for samples received 6/17/2016 with the Chain of Custody document. The samples were received in good condition, at 2.4 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 6F17007-01

Sample ID: Reservoir Effluent Site #5/ 16F1481-02

Matrix: Water

Sampled by: Client

Sampled: 06/15/16 08:30

| Analyte       | Result | MDL    | MRL   | Units | Dil | Method  | Prepared | Analyzed      | Batch   | Qualifier |
|---------------|--------|--------|-------|-------|-----|---------|----------|---------------|---------|-----------|
| Methane ..... | 0.37   | 0.0012 | 0.010 | mg/l  | 1   | RSK-175 | 6/21/16  | 6/21/16 21:07 | W6F1173 |           |



## Certificate of Analysis

## Quality Control Section

## Dissolved Gases in Water by RSK-175 - Quality Control

## Batch W6F1173 - RSK-175

## Blank (W6F1173-BLK1)

Prepared: 06/21/16 Analyzed: 06/21/16 20:08

| Analyte       | Sample Result | QC Result | Qualifier | Units | Spike Level | %REC | %REC Limits | RPD | RPD Limit |
|---------------|---------------|-----------|-----------|-------|-------------|------|-------------|-----|-----------|
| Methane ..... |               | ND        |           | mg/l  |             |      |             |     |           |

## LCS (W6F1173-BS1)

Prepared: 06/21/16 Analyzed: 06/21/16 20:48

| Analyte       | Sample Result | QC Result | Qualifier | Units | Spike Level | %REC | %REC Limits | RPD | RPD Limit |
|---------------|---------------|-----------|-----------|-------|-------------|------|-------------|-----|-----------|
| Methane ..... |               | 0.183     |           | mg/l  | 0.198       | 92   | 85-115      |     |           |

## Duplicate (W6F1173-DUP1)

Source: 6F17007-01

Prepared: 06/21/16 Analyzed: 06/21/16 21:27

| Analyte       | Sample Result | QC Result | Qualifier | Units | Spike Level | %REC | %REC Limits | RPD | RPD Limit |
|---------------|---------------|-----------|-----------|-------|-------------|------|-------------|-----|-----------|
| Methane ..... | 0.366 .....   | 0.408     |           | mg/l  |             |      |             | 11  | 20        |





## Certificate of Analysis

**Notes:**

The Chain of Custody document is part of the analytical report.

Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.

The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).

For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

**Authorized Signature**

Contact: Brandon Gee  
(Project Manager)



ELAP # 1132  
LACSD # 10143  
NELAC #4047-002 ORELAP

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.*

**Flags for Data Qualifiers:**

|     |  |
|-----|--|
| ND  | NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then not detected at or above the MDL. |
| Sub | Subcontracted analysis, original report enclosed.  |
| DL  | Method Detection Limit   |
| RL  | Method Reporting Limit   |
| MDA | Minimum Detectable Activity  |
| NR  | Not Reportable   |

**SUBCONTRACT ORDER**  
**Clinical Laboratory of San Bernardino**  
**16F1481**

6F17007

**SENDING LABORATORY:**

Clinical Laboratory of San Bernardino  
21881 Barton Road  
Grand Terrace, CA 92313  
Phone: 909.825.7693  
Fax: 909.825.7696  
Project Manager: Stu Styles

**RECEIVING LABORATORY:**

Weck Lab, Analytical & Environmental  
Analytical & Environmental Svc 14859 E Clark Ave  
Industry, CA 91745  
Phone: (626) 336-2139  
Fax: (626) 336-2634

Please email results to Project Manager: Stu Styles

[ ] glaubig@clinical-lab.com [ ] ybarra@clinical-lab.com [x] styles@clinical-lab.com [ ] nelson@clinical-lab.com

California EDT transfer those samples with PS codes provided [ ] Yes [x] No  
Transfer File requested; log in with Element ID only [ ] Yes [x] No

Turn Around Time [ ] 10 Days [x] 5 Days [ ] Other \_\_\_ Days

Subcontract Comments:

**Analysis**

**Comments**

**Sample ID: Reservoir Effluent Site #5 / 16F1481-02**

**Sampled: 06/15/16 08:30 PS Code:**  
**Water**

**WTX ID:**

Methane-RSK175

Report in mg/L

Containers Supplied:

40mL Amber Vial HCl (B)

40mL Amber Vial HCl (C)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

2.40

1005

16F1481 Q/Z 1 (5) 4

## "Your Water and Wastewater Analysis Solution"

# *Clinical Laboratory of San Bernardino, Inc.*



08 July 2016

Clinical Lab No.: 16F2064

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

Project Name: Standard Analysis  
Sub Project: CWPF 4th Week June Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 06/22/16 . Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

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

Stu Styles  
Client Services Manager

# Clinical Laboratory of San Bernardino, Inc.



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

Project: Standard Analysis  
Sub Project: CWPf 4th Week June Compliance Sampling  
Project Manager: Mark Andersen

Work Order: 16F2064  
Received: 06/22/16 16:30  
Reported: 07/08/16

**Reservoir Influent Site #3** **16F2064-01 (Water)** **Sample Date:** 06/22/16 7:45 **Sampler:** DGM

| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|

## Field Analyses

|                      |       |      |  |     |          |          |          |         |  |
|----------------------|-------|------|--|-----|----------|----------|----------|---------|--|
| Cl Res Total (Field) | Field | 4.7  |  | N/A | mg/L     | 06/22/16 | 06/22/16 | 1626366 |  |
| pH (Field)           | Field | 7.64 |  | N/A | pH Units | 06/22/16 | 06/22/16 | 1626366 |  |
| Temperature (Field)  | Field | 22.7 |  | N/A | °C       | 06/22/16 | 06/22/16 | 1626366 |  |

## General Physical Analyses

|                |          |    |     |    |             |          |          |         |  |
|----------------|----------|----|-----|----|-------------|----------|----------|---------|--|
| Apparent Color | SM 2120B | ND | 3.0 | 15 | Color Units | 06/22/16 | 06/22/16 | 1626319 |  |
|----------------|----------|----|-----|----|-------------|----------|----------|---------|--|

## Metals

|                |           |    |     |     |      |          |          |         |  |
|----------------|-----------|----|-----|-----|------|----------|----------|---------|--|
| Iron (Fe)      | EPA 200.7 | ND | 100 | 300 | ug/L | 07/05/16 | 07/06/16 | 1628038 |  |
| Manganese (Mn) | EPA 200.7 | ND | 20  | 50  | ug/L | 07/05/16 | 07/06/16 | 1628038 |  |

**Reservoir Effluent Site #5** **16F2064-02 (Water)** **Sample Date:** 06/22/16 7:30 **Sampler:** DGM

| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|

## Field Analyses

|                      |       |      |  |     |          |          |          |         |  |
|----------------------|-------|------|--|-----|----------|----------|----------|---------|--|
| Cl Res Total (Field) | Field | 2.54 |  | N/A | mg/L     | 06/22/16 | 06/22/16 | 1626366 |  |
| pH (Field)           | Field | 7.89 |  | N/A | pH Units | 06/22/16 | 06/22/16 | 1626366 |  |
| Temperature (Field)  | Field | 22   |  | N/A | °C       | 06/22/16 | 06/22/16 | 1626366 |  |

## General Physical Analyses

|                |            |   |   |   |     |          |          |         |  |
|----------------|------------|---|---|---|-----|----------|----------|---------|--|
| Odor Threshold | EPA 140.1M | 1 | 1 | 3 | TON | 06/22/16 | 06/22/16 | 1626319 |  |
|----------------|------------|---|---|---|-----|----------|----------|---------|--|

## General Chemical Analyses

|   |            |     |     |      |      |          |          |         |  |
|---|------------|-----|-----|------|------|----------|----------|---------|--|
| Hardness, Total (as CaCO <sub>3</sub> ) | Calculated | 280 | 6.6 | N/A  | mg/L | 06/29/16 | 06/30/16 | [CALC]  |  |
| Total Filterable Residue/TDS            | SM 2540C   | 690 | 5.0 | 1000 | mg/L | 06/24/16 | 06/28/16 | 1626405 |  |

## Metals

|                |           |    |     |     |      |          |          |         |  |
|----------------|-----------|----|-----|-----|------|----------|----------|---------|--|
| Calcium (Ca)   | EPA 200.7 | 71 | 1.0 | N/A | mg/L | 06/29/16 | 06/30/16 | 1627227 |  |
| Magnesium (Mg) | EPA 200.7 | 25 | 1.0 | N/A | mg/L | 06/29/16 | 06/30/16 | 1627227 |  |

ND Analyte NOT DETECTED at or above the reporting limit

# Clinical Laboratory of San Bernardino, Inc.

## EDT Transfer Confirmation 1



Work Order: 16F2064

Report Date: 07/08/2016

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

Page 1 of 1

LOMITA-CITY, WATER DEPT.

User ID: 4TH

System: 1910073

WELL 05 TREATMENT PLANT EFFLUENT

Station No.: 1910073-006

Sampled: 160622 07:45

COLOR

Result: ND

Units: UNITS

Entry No.: 00081

Analyzed: 160622

IRON

Result: ND

Units: UG/L

Entry No.: 01045

Analyzed: 160706

MANGANESE

Result: ND

Units: UG/L

Entry No.: 01055

Analyzed: 160706



## Certificate of Analysis

Project: 16F2064

Report Date: 06/30/16 15:38

Received Date: 06/24/16 11:10

Turnaround Time: 5 workdays

Phones: (909) 825-7693

Fax: (909) 825-7696

P.O. #:

Attn: John Styles

Client: Clinical Laboratory of San Bernardino, Inc.  
21881 Barton Road  
Grand Terrace, CA 92313

Dear John Styles :

Enclosed are the results of analyses for samples received 6/24/2016 with the Chain of Custody document. The samples were received in good condition, at 2.3 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 6F24034-01

Sample ID: Reservoir Effluent Site #5 / 16F2064-02

Matrix: Water

Sampled by: Client

Sampled: 06/22/16 07:30

| Analyte       | Result | MDL    | MRL   | Units | Dil | Method  | Prepared | Analyzed      | Batch   | Qualifier |
|---------------|--------|--------|-------|-------|-----|---------|----------|---------------|---------|-----------|
| Methane ..... | 0.54   | 0.0012 | 0.010 | mg/l  | 1   | RSK-175 | 6/28/16  | 6/28/16 19:36 | W6F1596 |           |





## Certificate of Analysis

## Quality Control Section

## Dissolved Gases in Water by RSK-175 - Quality Control

## Batch W6F1596 - RSK-175

## Blank (W6F1596-BLK1)

Prepared: 06/28/16 Analyzed: 06/28/16 19:16

| Analyte       | Sample Result | QC Result | Qualifier | Units | Spike Level | %REC | %REC Limits | RPD | RPD Limit |
|---------------|---------------|-----------|-----------|-------|-------------|------|-------------|-----|-----------|
| Methane ..... |               | ND        |           | mg/l  |             |      |             |     |           |

## LCS (W6F1596-BS1)

Prepared: 06/28/16 Analyzed: 06/29/16 12:09

| Analyte       | Sample Result | QC Result | Qualifier | Units | Spike Level | %REC | %REC Limits | RPD | RPD Limit |
|---------------|---------------|-----------|-----------|-------|-------------|------|-------------|-----|-----------|
| Methane ..... |               | 0.230     | A-01      | mg/l  | 0.198       | 116  | 85-115      |     |           |

## Duplicate (W6F1596-DUP1)

Source: 6F24034-01

Prepared: 06/28/16 Analyzed: 06/28/16 19:56

| Analyte       | Sample Result | QC Result | Qualifier | Units | Spike Level | %REC | %REC Limits | RPD | RPD Limit |
|---------------|---------------|-----------|-----------|-------|-------------|------|-------------|-----|-----------|
| Methane ..... | 0.539 .....   | 0.519     |           | mg/l  |             |      |             | 4   | 20        |



## Certificate of Analysis

**Notes:**

The Chain of Custody document is part of the analytical report.

Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.

The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).

For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

**Authorized Signature**

Contact: Brandon Gee  
(Project Manager)



ELAP # 1132  
LACSD # 10143  
NELAC #4047-002 ORELAP

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.*

**Flags for Data Qualifiers:**

|             |  |
|-------------|--|
| <b>A-01</b> | Sample may have been contaminated during sample preparation. Batch was validated based on the sample duplicate recovery and RPD                |
| ND          | NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then not detected at or above the MDL. |
| Sub         | Subcontracted analysis, original report enclosed.  |
| DL          | Method Detection Limit   |
| RL          | Method Reporting Limit   |
| MDA         | Minimum Detectable Activity  |
| NR          | Not Reportable   |

**SUBCONTRACT ORDER**  
**Clinical Laboratory of San Bernardino**  
**16F2064**

6F24034

**SENDING LABORATORY:**

Clinical Laboratory of San Bernardino  
21881 Barton Road  
Grand Terrace, CA 92313  
Phone: 909.825.7693  
Fax: 909.825.7696  
Project Manager: Stu Styles

**RECEIVING LABORATORY:**

Weck Lab, Analytical & Environmental  
Analytical & Environmental Svc 14859 E Clark Ave  
Industry, CA 91745  
Phone: (626) 336-2139  
Fax: (626) 336-2634

Please email results to Project Manager: Stu Styles

[ ] glaubig@clinical-lab.com [ ] ybarra@clinical-lab.com [x] styles@clinical-lab.com [ ] nelson@clinical-lab.com

California EDT transfer those samples with PS codes provided [ ] Yes [x] No

Transfer File requested; log in with Element ID only [ ] Yes [x] No

Turn Around Time [ ] 10 Days [x] 5 Days [ ] Other \_\_\_ Days

Subcontract Comments:

**Analysis**

**Comments**

Sample ID: Reservoir Effluent Site #5 / 16F2064-02

Sampled: 06/22/16 07:30 PS Code:  
Water

WTX ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40mL Amber Vial HCl (B)

40mL Amber Vial HCl (C)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

B. Styles

06/23/16 12:40

M. Clough

6-24-16 9:10

M. Clough

6/23/16 11:10

Samuelmen

6/24/16 11:10 23°C

*"Your Water and Wastewater Analysis Solution"*

# *Clinical Laboratory of San Bernardino, Inc.*



08 July 2016

Clinical Lab No.: 16F2504

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

Project Name: Standard Analysis  
Sub Project: CWPF 5th Week June Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 06/29/16 . Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

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

Stu Styles  
Client Services Manager

# Clinical Laboratory of San Bernardino, Inc.



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

Project: Standard Analysis  
Sub Project: CWPf 5th Week June Compliance Sampling  
Project Manager: Mark Andersen

Work Order: 16F2504  
Received: 06/29/16 15:00  
Reported: 07/08/16

**Reservoir Influent Site #3** **16F2504-01 (Water)** **Sample Date:** 06/29/16 7:00 **Sampler:** DGM

| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|

## Field Analyses

|                             |       |             |  |     |          |          |          |         |  |
|-----------------------------|-------|-------------|--|-----|----------|----------|----------|---------|--|
| <b>Cl Res Total (Field)</b> | Field | <b>4</b>    |  | N/A | mg/L     | 06/29/16 | 06/29/16 | 1627285 |  |
| <b>pH (Field)</b>           | Field | <b>7.76</b> |  | N/A | pH Units | 06/29/16 | 06/29/16 | 1627285 |  |
| <b>Temperature (Field)</b>  | Field | <b>22.9</b> |  | N/A | °C       | 06/29/16 | 06/29/16 | 1627285 |  |

## General Physical Analyses

|                |          |    |     |    |             |          |          |         |  |
|----------------|----------|----|-----|----|-------------|----------|----------|---------|--|
| Apparent Color | SM 2120B | ND | 3.0 | 15 | Color Units | 06/29/16 | 06/29/16 | 1627362 |  |
|----------------|----------|----|-----|----|-------------|----------|----------|---------|--|

## Metals

|                |           |    |     |     |      |          |          |         |  |
|----------------|-----------|----|-----|-----|------|----------|----------|---------|--|
| Iron (Fe)      | EPA 200.7 | ND | 100 | 300 | ug/L | 06/30/16 | 07/01/16 | 1627336 |  |
| Manganese (Mn) | EPA 200.7 | ND | 20  | 50  | ug/L | 06/30/16 | 07/01/16 | 1627336 |  |

**Reservoir Effluent Site #5** **16F2504-02 (Water)** **Sample Date:** 06/29/16 7:30 **Sampler:** DGM

| Analyte | Method | Result | Rep. Limit | MCL | Units | Prepared | Analyzed | Batch | Qualifier |
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|
|---------|--------|--------|------------|-----|-------|----------|----------|-------|-----------|

## Field Analyses

|                             |       |             |  |     |          |          |          |         |  |
|-----------------------------|-------|-------------|--|-----|----------|----------|----------|---------|--|
| <b>Cl Res Total (Field)</b> | Field | <b>2.56</b> |  | N/A | mg/L     | 06/29/16 | 06/29/16 | 1627285 |  |
| <b>pH (Field)</b>           | Field | <b>7.9</b>  |  | N/A | pH Units | 06/29/16 | 06/29/16 | 1627285 |  |
| <b>Temperature (Field)</b>  | Field | <b>23</b>   |  | N/A | °C       | 06/29/16 | 06/29/16 | 1627285 |  |

## General Physical Analyses

|                       |            |          |   |   |     |          |          |         |  |
|-----------------------|------------|----------|---|---|-----|----------|----------|---------|--|
| <b>Odor Threshold</b> | EPA 140.1M | <b>1</b> | 1 | 3 | TON | 06/29/16 | 06/29/16 | 1627362 |  |
|-----------------------|------------|----------|---|---|-----|----------|----------|---------|--|

## General Chemical Analyses

|                                     |            |            |     |      |      |          |          |         |  |
|-------------------------------------|------------|------------|-----|------|------|----------|----------|---------|--|
| <b>Hardness, Total (as CaCO3)</b>   | Calculated | <b>290</b> | 6.6 | N/A  | mg/L | 07/06/16 | 07/07/16 | [CALC]  |  |
| <b>Total Filterable Residue/TDS</b> | SM 2540C   | <b>640</b> | 5.0 | 1000 | mg/L | 07/05/16 | 07/07/16 | 1628104 |  |

## Metals

|                       |           |           |     |     |      |          |          |         |  |
|-----------------------|-----------|-----------|-----|-----|------|----------|----------|---------|--|
| <b>Calcium (Ca)</b>   | EPA 200.7 | <b>73</b> | 1.0 | N/A | mg/L | 07/06/16 | 07/07/16 | 1628115 |  |
| <b>Magnesium (Mg)</b> | EPA 200.7 | <b>26</b> | 1.0 | N/A | mg/L | 07/06/16 | 07/07/16 | 1628115 |  |

ND Analyte NOT DETECTED at or above the reporting limit

# Clinical Laboratory of San Bernardino, Inc.

## EDT Transfer Confirmation 1



Work Order: 16F2504

Report Date: 07/08/2016

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

Page 1 of 1

LOMITA-CITY, WATER DEPT.

User ID: 4TH

System: 1910073

WELL 05 TREATMENT PLANT EFFLUENT

Station No.: 1910073-006

Sampled: 160629 07:00

COLOR

Result: ND

Units: UNITS

Entry No.: 00081

Analyzed: 160629

IRON

Result: ND

Units: UG/L

Entry No.: 01045

Analyzed: 160701

MANGANESE

Result: ND

Units: UG/L

Entry No.: 01055

Analyzed: 160701





## Certificate of Analysis

Project: 16F2504

Report Date: 07/06/16 09:22

Received Date: 06/30/16 13:06

Turnaround Time: 5 workdays

Phones: (909) 825-7693

Fax: (909) 825-7696

P.O. #:

Attn: John Styles

Client: Clinical Laboratory of San Bernardino, Inc.  
21881 Barton Road  
Grand Terrace, CA 92313

Dear John Styles :

Enclosed are the results of analyses for samples received 6/30/2016 with the Chain of Custody document. The samples were received in good condition, at 6.9 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 6F30044-01

Sample ID: Reservoir Effluent Site #5 / 16F2504-02

Matrix: Water

Sampled by: Client

Sampled: 06/29/16 07:30

| Analyte       | Result | MDL    | MRL   | Units | Dil | Method  | Prepared | Analyzed     | Batch   | Qualifier |
|---------------|--------|--------|-------|-------|-----|---------|----------|--------------|---------|-----------|
| Methane ..... | 0.37   | 0.0012 | 0.010 | mg/l  | 1   | RSK-175 | 7/1/16   | 7/1/16 15:38 | W6G0110 |           |





## Certificate of Analysis

## Quality Control Section

## Dissolved Gases in Water by RSK-175 - Quality Control

## Batch W6G0110 - RSK-175

## Blank (W6G0110-BLK1)

Prepared: 07/01/16 Analyzed: 07/01/16 15:18

| Analyte       | Sample Result | QC Result | Qualifier | Units | Spike Level | %REC | %REC Limits | RPD | RPD Limit |
|---------------|---------------|-----------|-----------|-------|-------------|------|-------------|-----|-----------|
| Methane ..... |               | ND        |           | mg/l  |             |      |             |     |           |

## LCS (W6G0110-BS1)

Prepared: 07/01/16 Analyzed: 07/01/16 14:59

| Analyte       | Sample Result | QC Result | Qualifier | Units | Spike Level | %REC | %REC Limits | RPD | RPD Limit |
|---------------|---------------|-----------|-----------|-------|-------------|------|-------------|-----|-----------|
| Methane ..... |               | 0.188     |           | mg/l  | 0.198       | 95   | 85-115      |     |           |

## Duplicate (W6G0110-DUP1)

Source: 6F30044-01

Prepared: 07/01/16 Analyzed: 07/01/16 15:58

| Analyte       | Sample Result | QC Result | Qualifier | Units | Spike Level | %REC | %REC Limits | RPD | RPD Limit |
|---------------|---------------|-----------|-----------|-------|-------------|------|-------------|-----|-----------|
| Methane ..... | 0.370 .....   | 0.377     |           | mg/l  |             |      |             | 2   | 20        |



## Certificate of Analysis

**Notes:**

The Chain of Custody document is part of the analytical report.

Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.

The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).

For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

**Authorized Signature**

Contact: Brandon Gee  
(Project Manager)



ELAP # 1132  
LACSD # 10143  
NELAC #4047-002 ORELAP

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.*

**Flags for Data Qualifiers:**

|     |  |
|-----|--|
| ND  | NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then not detected at or above the MDL. |
| Sub | Subcontracted analysis, original report enclosed.  |
| DL  | Method Detection Limit   |
| RL  | Method Reporting Limit   |
| MDA | Minimum Detectable Activity  |
| NR  | Not Reportable   |

**SUBCONTRACT ORDER**  
**Clinical Laboratory of San Bernardino**  
**16F2504**

6F30044

**SENDING LABORATORY:**

Clinical Laboratory of San Bernardino  
21881 Barton Road  
Grand Terrace, CA 92313  
Phone: 909.825.7693  
Fax: 909.825.7696  
Project Manager: Stu Styles

**RECEIVING LABORATORY:**

Weck Lab, Analytical & Environmental  
Analytical & Environmental Svc 14859 E Clark Ave  
Industry, CA 91745  
Phone: (626) 336-2139  
Fax: (626) 336-2634

Please email results to Project Manager: Stu Styles

[ ] glaubig@clinical-lab.com [ ] ybarra@clinical-lab.com [x] styles@clinical-lab.com [ ] nelson@clinical-lab.com

California EDT transfer those samples with PS codes provided [ ] Yes [x] No

Transfer File requested; log in with Element ID only [ ] Yes [x] No

Turn Around Time [ ] 10 Days [x] 5 Days [ ] Other \_\_\_ Days

Subcontract Comments:

**Analysis**

**Comments**

**Sample ID: Reservoir Effluent Site #5 / 16F2504-02**

**Sampled: 06/29/16 07:30 PS Code:**  
**Water**

**WTX ID:**

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (B)

40ml Amber Vial (C)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

06/30/16 07:45

6/30/16 107

6/30/16 915

6/30/16 1306

6.96

0/21

| Client      |  | City of Lomita                          |  | System Number              |  | Analysis Requested |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|-------------|--|---|--|----------------------------|--|--------------------|--|------|--|---------|--|----------------|--|--|--|--|--|--|--|-------------------|--|
| Address     |  | 24373 Walnut Avenue<br>Lomita, CA 91717 |  | 1910073                    |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
| Phone #     |  | (310) 325-9830                          |  | Destination Laboratory     |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
| Fax #       |  | (310) 325-3627                          |  | [X] Clinical Laboratory    |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
| Project     |  | Standard Analysis                       |  | RWQCB Compliance           |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
| Sub Project |  | CWPF 5th Week June Compliance Sampling  |  | No<br>ELAP #               |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
| Comments    |  | For TC/EC/BACT see weekly Distro CoC    |  | 1088                       |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
| Sampled by  |  | DGM                                     |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
| Date        |  | Time                                    |  | Sample Identification      |  | Matrix             |  | Type |  | Preserv |  | Total Chlorine |  |  |  |  |  |  |  |                   |  |
| 6/29/2016   |  | 0700                                    |  | Reservoir Influent Site #3 |  | DW                 |  | 1W   |  | N/A     |  | 4.00           |  |  |  |  |  |  |  | PH 7.76 Temp 22.9 |  |
| 6/29/2016   |  | 0730                                    |  | Reservoir Effluent Site #5 |  | DW                 |  | 1W   |  | N/A     |  | 2.56           |  |  |  |  |  |  |  | PH 7.90 Temp 23.0 |  |
| 6/29/2016   |  |   |  | Reservoir Effluent Site #5 |  | DW                 |  | 1W   |  | HCL     |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |
|             |  |   |  |                            |  |                    |  |      |  |         |  |                |  |  |  |  |  |  |  |                   |  |

APPENDIX B  
METHANE MONITORING LOG





CITY OF LOMITA  
PUBLIC WORKS DEPARTMENT

**CYPRESS WATER PRODUCTION FACILITY  
HANDHELD METHANE LOG READINGS**

| JUNE 2016                 |     |                      |            |              |
|---------------------------|-----|----------------------|------------|--------------|
| DATE                      | DAY | METHANE HANDHELD     |            | COMMENTS     |
| 6/1/2016                  | W   |                      |            | CWPF OFFLINE |
| 6/2/2016                  | TH  |                      |            | CWPF OFFLINE |
| 6/3/2016                  | F   |                      |            | CWPF OFFLINE |
| 6/4/2016                  | SA  |                      |            | CWPF OFFLINE |
| 6/5/2016                  | SU  |                      |            | CWPF OFFLINE |
| 6/6/2016                  | M   |                      |            | CWPF OFFLINE |
| 6/7/2016                  | T   |                      |            | CWPF OFFLINE |
| 6/8/2016                  | W   |                      |            | CWPF OFFLINE |
| 6/9/2016                  | TH  |                      |            | CWPF OFFLINE |
| 6/10/2016                 | F   | CH <sub>4</sub> - 0% | Oxy- 20.8% |              |
| 6/11/2016                 | SA  | CH <sub>4</sub> - 0% | Oxy- 20.1% |              |
| 6/12/2016                 | SU  | CH <sub>4</sub> - 0% | Oxy- 20.4% |              |
| 6/13/2016                 | M   | CH <sub>4</sub> - 0% | Oxy- 20.4% |              |
| 6/14/2016                 | T   | CH <sub>4</sub> - 1% | Oxy- 20.1% |              |
| 6/15/2016                 | W   | CH <sub>4</sub> - 1% | Oxy- 19.9% |              |
| 6/16/2016                 | TH  | CH <sub>4</sub> - 0% | Oxy- 20.1% |              |
| 6/17/2016                 | F   | CH <sub>4</sub> - 1% | Oxy- 19.9% |              |
| 6/18/2016                 | SA  | CH <sub>4</sub> - 0% | Oxy- 20.1% |              |
| 6/19/2016                 | SU  | CH <sub>4</sub> - 0% | Oxy- 20.3% |              |
| 6/20/2016                 | M   | CH <sub>4</sub> - 0% | Oxy- 20.2% |              |
| 6/21/2016                 | T   | CH <sub>4</sub> - 1% | Oxy- 20.2% |              |
| 6/22/2016                 | W   | CH <sub>4</sub> - 0% | Oxy- 20.4% |              |
| 6/23/2016                 | TH  | CH <sub>4</sub> - 0% | Oxy- 20.2% |              |
| 6/24/2016                 | F   | CH <sub>4</sub> - 1% | Oxy- 20.2% |              |
| 6/25/2016                 | SA  | CH <sub>4</sub> - 0% | Oxy- 20.1% |              |
| 6/26/2016                 | SU  | CH <sub>4</sub> - 0% | Oxy- 20.4% |              |
| 6/27/2016                 | M   | CH <sub>4</sub> - 0% | Oxy- 20.3% |              |
| 6/28/2016                 | T   | CH <sub>4</sub> - 1% | Oxy- 20.3% |              |
| 6/29/2016                 | W   | CH <sub>4</sub> - 0% | Oxy- 20.4% |              |
| 6/30/2016                 | TH  | CH <sub>4</sub> - 0% | Oxy- 20.4% |              |
| ND- Non Detect            |     |                      |            |              |
| CH <sub>4</sub> - Methane |     |                      |            |              |
| Oxy- Oxygen               |     |                      |            |              |
| Day Off/Holiday- Red      |     |                      |            |              |

## APPENDIX C

### NITRIFICATION MONITORING DATA SUMMARY

1MONTHLY NITRIFICATION MONITORING SUMMARY REPORT

CITY OF LOMITA, System No. 1910073 --- Month, Year: JUNE 2016

| #              | C<br>o<br>d<br>e | Sample<br>I.D | Location                     | Sample Date<br>(and Time) | Temp  | pH   | Total<br>Chlorine | Free<br>Chlorine | Total<br>Ammonia | Free<br>Ammonia | Nitrite | Nitrate | Coliform <sup>2</sup> | HPC    | Z<br>o<br>n<br>e | Comments      |
|----------------|------------------|---------------|------------------------------|---------------------------|---|------|-------------------|------------------|------------------|-----------------|---------|---------|-----------------------|--------|------------------|---------------|
| Units/Others → |                  |               |                              |                           |   |      |                   |                  |                  |                 |         |         |                       |        |                  |               |
| 1              | D                | S13-003       | 1948 W. 252 <sup>nd</sup> St | MM/DD/YYYY<br>X:xx am/pm  | °C  |      | mg/L              | mg/L             | mg/L             | mg/L            | mg/L    | mg/L    | P/A                   | CFU/ml |                  |               |
| 2              | D                | S13-004       | 24632 S Moon Av              | 6/1/2016                  | 20.9  | 8.15 | 2.07              | 0.10             | ND               | ND              | ND      | ND      | A                     | ND     | 1                | We//MWD Blend |
| 3              | D                | S13-008       | 25417 Pennsylvania Av        | 6/1/2016                  | 20.2  | 8.11 | 1.20              | 0.18             | ND               | ND              | ND      | ND      | A                     | 6      | 1                | We//MWD Blend |
| 4              | D                | A             | 2052 Dawn St                 | 6/1/2016                  | 20.8  | 8.05 | 0.67              | 0.06             | ND               | ND              | 0.079   | 0.40    | A                     | 130    | 1                | We//MWD Blend |
| 5              | D                |               | Reservoir                    | 6/1/2016                  | 20.6  | 8.05 | 1.07              | 0.04             | ND               | ND              | ND      | 0.40    | A                     | 13     | 1                | We//MWD Blend |
| 6              | D                | 13-1          | 1912 W. 259 <sup>th</sup> Pl | 6/1/2016                  | 21.5  | 8.25 | 2.10              | 0.07             | ND               | ND              | ND      | ND      | A                     | ND     | 1                | We//MWD Blend |
| 7              | D                | 13-2          | 26314 S Monte Vta.           | 6/1/2016                  | 20.5  | 8.24 | 2.30              | 0.07             | ND               | ND              | ND      | ND      | A                     | ND     | 2                | MWD Only      |
| 8              | D                | 13-5          | 2500 PCH                     | 6/1/2016                  | 20.4  | 8.21 | 1.95              | 0.17             | ND               | ND              | ND      | ND      | A                     | ND     | 3                | MWD Only      |
|                |                  |               |                              |                           |   |      |                   |                  |                  |                 |         |         |                       |        |                  |               |
| 1              | D                | S13-003       | 1948 W. 252 <sup>nd</sup> St | 6/8/2016                  | 22.1  | 7.55 | 2.02              | 0.01             | ND               | ND              | ND      | ND      | A                     | ND     | 1                | We//MWD Blend |
| 2              | D                | S13-004       | 24632 S Moon Av              | 6/8/2016                  | 21.7  | 8.02 | 1.75              | 0.04             | ND               | ND              | ND      | ND      | A                     | 2      | 1                | We//MWD Blend |
| 3              | D                | S13-008       | 25417 Pennsylvania Av        | 6/8/2016                  | 21.2  | 7.97 | 0.65              | 0.03             | ND               | ND              | 0.094   | 0.46    | A                     | 13     | 1                | We//MWD Blend |
| 4              | D                | A             | 2052 Dawn St                 | 6/8/2016                  | 21.9  | 8.00 | 0.75              | 0.03             | ND               | ND              | ND      | ND      | A                     | 15     | 1                | We//MWD Blend |
| 5              | D                |               | Reservoir                    | 6/8/2016                  | **CWPF remained offline and being disinfected during routine sample collection day of 6/9/16. CWPF placed back online on 6/10/16. |      |                   |                  |                  |                 |         |         |                       |        |                  | We//MWD Blend |
| 6              | D                | 13-1          | 1912 W. 259 <sup>th</sup> Pl | 6/8/2016                  | 22.1  | 8.07 | 2.13              | 0.18             | ND               | ND              | ND      | ND      | A                     | ND     | 2                | MWD Only      |
| 7              | D                | 13-2          | 26314 S Monte Vta.           | 6/8/2016                  | 21.4  | 7.88 | 2.00              | 0.09             | ND               | ND              | ND      | ND      | A                     | ND     | 3                | MWD Only      |
| 8              | D                | 13-5          | 2500 PCH                     | 6/8/2016                  | 21.5  | 8.14 | 2.09              | 0.08             | ND               | ND              | ND      | ND      | A                     | ND     | 2                | MWD Only      |
|                |                  |               |                              |                           |   |      |                   |                  |                  |                 |         |         |                       |        |                  |               |
| 1              | D                | S13-003       | 1948 W. 252 <sup>nd</sup> St | 6/15/2016                 | 22.8  | 8.03 | 1.95              | 0.11             | ND               | ND              | ND      | ND      | A                     | ND     | 1                | We//MWD Blend |
| 2              | D                | S13-004       | 24632 S Moon Av              | 6/15/2016                 | 22.2  | 8.02 | 1.82              | 0.22             | ND               | ND              | ND      | ND      | A                     | ND     | 1                | We//MWD Blend |
| 3              | D                | S13-008       | 25417 Pennsylvania Av        | 6/15/2016                 | 23.2  | 8.01 | 2.03              | 0.09             | ND               | ND              | ND      | ND      | A                     | ND     | 1                | We//MWD Blend |
| 4              | D                | A             | 2052 Dawn St                 | 6/15/2016                 | 22.4  | 8.02 | 1.08              | 0.61             | ND               | ND              | ND      | ND      | A                     | ND     | 1                | We//MWD Blend |
| 5              | D                |               | Reservoir                    | 6/15/2016                 | 21.3  | 8.04 | 2.42              | 0.05             | ND               | ND              | ND      | ND      | A                     | ND     | 1                | We//MWD Blend |
| 6              | D                | 13-1          | 1912 W. 259 <sup>th</sup> Pl | 6/15/2016                 | 22.0  | 8.38 | 2.20              | 0.94             | ND               | ND              | ND      | ND      | A                     | ND     | 2                | MWD Only      |
| 7              | D                | 13-2          | 26314 S Monte Vta.           | 6/15/2016                 | 20.8  | 8.22 | 0.90              | 0.12             | ND               | ND              | ND      | ND      | A                     | ND     | 3                | MWD Only      |
| 8              | D                | 13-5          | 2500 PCH                     | 6/15/2016                 | 22.4  | 8.04 | 2.07              | 0.34             | ND               | ND              | ND      | ND      | A                     | ND     | 2                | MWD Only      |
|                |                  |               |                              |                           |   |      |                   |                  |                  |                 |         |         |                       |        |                  |               |
| 1              | D                | S13-003       | 1948 W. 252 <sup>nd</sup> St | 6/22/2016                 | 23.3  | 7.96 | 2.01              | 0.13             | ND               | ND              | ND      | ND      | A                     | ND     | 1                | We//MWD Blend |
| 2              | D                | S13-004       | 24632 S Moon Av              | 6/22/2016                 | 22.6  | 7.92 | 1.99              | 0.07             | ND               | ND              | ND      | ND      | A                     | 2      | 1                | We//MWD Blend |
| 3              | D                | S13-008       | 25417 Pennsylvania Av        | 6/22/2016                 | 22.7  | 7.96 | 2.40              | 0.10             | ND               | ND              | ND      | ND      | A                     | ND     | 1                | We//MWD Blend |
| 4              | D                | A             | 2052 Dawn St                 | 6/22/2016                 | 24.3  | 7.92 | 1.21              | 0.04             | ND               | ND              | ND      | ND      | A                     | 8      | 1                | We//MWD Blend |
| 5              | D                |               | Reservoir                    | 6/22/2016                 | 22.0  | 7.89 | 2.54              | 0.07             | ND               | ND              | ND      | ND      | A                     | ND     | 1                | We//MWD Blend |
| 6              | D                | 13-1          | 1912 W. 259 <sup>th</sup> Pl | 6/22/2016                 | 24.1  | 8.18 | 2.40              | 0.08             | ND               | ND              | ND      | ND      | A                     | ND     | 2                | MWD Only      |
| 7              | D                | 13-2          | 26314 S Monte Vta.           | 6/22/2016                 | 22.9  | 8.17 | 2.40              | 0.06             | ND               | ND              | ND      | ND      | A                     | ND     | 3                | MWD Only      |
| 8              | D                | 13-5          | 2500 PCH                     | 6/22/2016                 | 22.6  | 8.20 | 2.40              | 0.02             | ND               | ND              | ND      | ND      | A                     | ND     | 2                | MWD Only      |
|                |                  |               |                              |                           |   |      |                   |                  |                  |                 |         |         |                       |        |                  |               |
| 1              | D                | S13-003       | 1948 W. 252 <sup>nd</sup> St | 6/29/2016                 | 25.8  | 8.03 | 2.04              | 0.16             | ND               | ND              | ND      | ND      | A                     | ND     | 1                | We//MWD Blend |
| 2              | D                | S13-004       | 24632 S Moon Av              | 6/29/2016                 | 23.7  | 8.01 | 2.17              | 0.07             | ND               | ND              | ND      | ND      | A                     | ND     | 1                | We//MWD Blend |
| 3              | D                | S13-008       | 25417 Pennsylvania Av        | 6/29/2016                 | 24.9  | 7.88 | 2.40              | 0.14             | ND               | ND              | ND      | ND      | A                     | ND     | 1                | We//MWD Blend |
| 4              | D                | A             | 2052 Dawn St                 | 6/29/2016                 | 24.7  | 8.04 | 1.08              | 0.13             | ND               | ND              | ND      | ND      | A                     | 38     | 1                | We//MWD Blend |
| 5              | D                |               | Reservoir                    | 6/29/2016                 | 25.7  | 7.87 | 2.56              | 1.12             | ND               | ND              | ND      | ND      | A                     | ND     | 1                | We//MWD Blend |
| 6              | D                | 13-1          | 1912 W. 259 <sup>th</sup> Pl | 6/29/2016                 | 24.1  | 7.78 | 2.30              | 0.26             | ND               | ND              | ND      | ND      | A                     | ND     | 2                | MWD Only      |
| 7              | D                | 13-2          | 26314 S Monte Vta.           | 6/29/2016                 | 23.4  | 8.20 | 2.20              | 0.12             | ND               | ND              | ND      | ND      | A                     | ND     | 3                | MWD Only      |
| 8              | D                | 13-5          | 2500 PCH                     | 6/29/2016                 | 26.7  | 8.11 | 2.40              | 1.77             | ND               | ND              | ND      | ND      | A                     | ND     | 2                | MWD Only      |

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

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