CITY OF LOMITA

Cypress Water Production Facility Monthly Status Report

JULY 2016

TABLE OF CONTENTS

CITY OF LOMITA

August 10, 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 July 1 through July 31, 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 July 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 during the month of July 2016 maintaining water levels within the reservoir ranging from 7' to 10'. The average flow from Well No. 5 was 451 gpm and 551 gpm from MWD. The blend ratio for the month was on average 43% Well water and 57% MWD water. See Table 1 below for production totals for the month of July 2016.

Table 1. Monthly Production Totals.

	Production for July 2016		
Well No. 5	54.57	ac-ft	(17,779,938 gallons)
MWD	73.31	ac-ft	(23,884,985 gallons)
Combined Total	127.87	ac-ft	(41,664,923 gallons)

C. OPERATIONAL INTERRUPTIONS

There were no major operational interruptions during the month of July 2016. Routine and preventive maintenance was performed on various pieces of equipment as-needed. At the end of the month, CWPF was taken offline for SCADA maintenance for August 2016.

D. SAMPLE LOCATIONS

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

E. WATER QUALITY MONITORING

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

E1. IRON, MANGANESE AND COLOR

See Table 2 below for a summary of the results for the compliance monitoring at the three sample locations SP1 through SP3. Color for raw water (SP1) was below the MCL. Iron 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 655 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 710 mg/L and 600 mg/L, respectively.

E3-2 HARDNESS

The sampling results for the month indicate the hardness levels of the blended water to be on average 285 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 at the CWPF effluent after aeration treatment remain negligible averaging 0.41 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 July 2016 in Appendix B.

E3-5 ODOR

The odor levels at the CWPF effluent averaged 2.5 units for the month.

E4. NITRIFICATION MONITORING

Weekly Nitrification sampling was performed during the month of July 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
7/6/2016	210	300	100	50	0	15	A	A	A	500	ND	300	ND	50	ND	15
7/13/2016											ND	300	ND	50	ND	15
7/20/2016											ND	300	ND	50	ND	15
7/27/2016											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_3	Free Cl	Total Cl	Total NH_3	Free Cl	Total Cl	Total NH_3
7/6/2016	5.54	0.40	4.08	0.64	0.37	3.38	0.61	0.06	2.47	0.57
7/13/2016	5.72	0.54	4.14	0.67	0.37	3.46	0.60	0.09	2.47	0.56
7/20/2016	6.26	0.45	4.32	0.77	0.35	3.61	0.68	0.06	2.74	0.59
7/27/2016	5.90	0.60	4.61	0.71	0.35	3.45	0.62	0.06	2.63	0.46

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
7/6/2016	710	600	670	500-750	4	3	330	270	300	180-250	9.6	0.34
7/13/2016			650	500-750	1	3						0.45
7/20/2016			650	500-750	4	3			270	180-250		0.48
7/27/2016			650	500-750	1	3						0.38
Average			**655**	500-750	**2.5**	3			**285**	180-250		**0.41**

Notes:
Monthly- Orange; Weekly- Yellow
ppm – parts per million
mg/L – milligram per liter
T.O.N. - Threshold Odor Number
TDS - Total Dissolved Solids
Hardness - As total CaCO3
Methane (Water) - Methane dissolved in water

Monthly CWPF Monitoring Report – JULY 2016
Cypress Water Production Facility
City of Lomita; System No. 1910073

Sample Locations and Parameters	Frequency	MCL/ Goal	7/6 1stWk or Mo. Result (date)	7/13 2ndWk	7/20 3rdWk	7/27 4thWk	N/A 5thWk	Comments and/or Other Info.
SP1 --- Also called Well 5 Raw Water or Site#1.								
TDS, ppm	Monthly	See SP5	710	**Operations Data/Information:**				*Chlorine injected after SP1, before entering the greensand filter.
Hardness	Monthly	See SP5	330	**CWPF operation days**				
CH4, ppm	Monthly	See SP5	9.6	**On Well 5:** Daily average flow - 451 gpm; JULY 2016 total prod. – 54.57 AF				
Iron, ppb	Monthly	See SP3	210	**Combined Well 5/MWD data:** Average Well 5: MWD blend Ratio – 43%:57%; JULY 2016 total prod.- 127.87 AF				
Manganese, ppb	Monthly	See SP3	100					
Color, units	Monthly	See SP3	0					
Total Coliform, P or A	Monthly	A	A	Chlorine Dosage: N/A*				
SP2 --- Also called Filter Effluent or Site#3.								
Total Coliform, P or A	Monthly	A	A					*Ammonia added after filter effluent
HPC,MPN/100 ml	Monthly	500	A	Ammonia Dosage: N/A*				
Free Cl Res, ppm	Continuous	Average: 5.86; Range: 5.54 – 6.26						
SP3 --- Also called the Site After Chloramination & Before MWD Blending or Site#4.								
Iron, ppb	Weekly	300	ND	ND	ND	ND		
Manganese, ppb	Weekly	50	ND	ND	ND	ND		
Color	Weekly	15	ND	ND	ND	ND		
Free and Total Cl Res, ppm	Continuous	Free Cl: Average: 0.50; Range: 0.40 – 0.60 Total Cl: Average: 4.29; Range: 4.08 – 4.61 Ammonia: Average: 0.70; Range: 0.64 – 0.77						
SP4 --- Also called Reservoir Influent or the Site Well 5/MWD Water Blend Point/Phosphate Injection.								
Phosphate Injection		Phosphate Dosage: 1.09 mg/L						
Free and Total Cl Res, ppm	Continuous	Free Cl: Average: 0.36; Range: 0.35 – 0.37 Total Cl: Average: 3.47; Range: 3.38 – 3.61 Ammonia: Average: 0.63; Range: 0.60 – 0.68						Cl/NH3 Ratio: 5.54, chloramintaed water into the Reservoir
SP5 --- Also called Reservoir Effluent or Site#5. SP5 discharges into Zone 1 of the distribution system.								
TDS, ppm	Weekly	SI Goal: 500-750ppm	690	700	690	690		
Hardness	Monthly	SI Goal: 180-250ppm	310		300	280		
CH4, ppm	Weekly	Goal: from PA	0.25	0.18	0.37	0.54		% CH4 Removal: 96%
Odor, units	Monthly	1	1	1	1	1		
Free and Total Cl Res, ppm	Continuous	Free Cl: Average: 0.07; Range: 0.06 – 0.09 Total Cl: Average: 2.58; Range: 2.47 – 2.74 Ammonia: Average: 0.54; Range: 0.46 – 0.59						Cl/NH3 Ratio: 4.75, chloraminated water supplied Zone I
Headspace of the Cypress Reservoir.								
[1]CH4 ppmv; using Portable Device	Daily (from log)	Goal - LEL	CH4 Average: 0.48% CH4 Range: 0% - 2%					
SP 6 --- MWD Source Feeding CWPF. Also called Zone 2 of the distribution system or Site #6.								
TDS, ppm	Monthly	-----	600					
Hardness	Monthly	------	270					

Notes: [1]Self-Imposed (SI) Goals: TDS Goal-500-750 ppm; Hardness as CaCO3 Goal-180-250 ppm.

***This Report is due to DDW by the 10th of the following month.

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

APPENDIX A

LABORATORY RESULTS

Clinical Laboratory of San Bernardino, Inc.

21 July 2016

Clinical Lab No.: 16G0446

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

Project Name: Standard Analysis
Sub Project: CWPF Monthly Standard 1st Week July

Enclosed are the results of the analyses for samples received at the laboratory on 07/06/16 . 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,

Stu Styles
Client Services Manager

Lomita, City of	Project: Standard Analysis	Work Order: 16G0446
24373 Walnut Avenue	Sub Project: CWPF Monthly Standard 1st Week July	Received: 07/06/16 15:30
Lomita CA, 91717	Project Manager: Mark Andersen	Reported: 07/21/16

Well SP#1 **16G0446-01 (Water)** **Sample Date:** 07/06/16 8:00 **Sampler:** DGM

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
pH (Field)	Field	**7.59**		N/A	pH Units	07/06/16	07/06/16	1628357	
Temperature (Field)	Field	**23.1**		N/A	°C	07/06/16	07/06/16	1628357	
Microbiology Analyses									
Total Coliform	SM 9223	A		N/A	P/A	07/06/16	07/07/16	1628261	
E. Coli	SM 9223	A		N/A	P/A	07/06/16	07/07/16	1628261	
Plate Count	SM9215B	ND	1	500	CFU/ml	07/06/16	07/08/16	1628413	HT-08
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	07/06/16	07/06/16	1628308	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	**330**	6.6	N/A	mg/L	07/15/16	07/15/16	[CALC]	
Total Filterable Residue/TDS	SM 2540C	**710**	5.0	1000	mg/L	07/12/16	07/13/16	1629113	
Metals									
Calcium (Ca)	EPA 200.7	**85**	1.0	N/A	mg/L	07/15/16	07/15/16	1629398	
Iron (Fe)	EPA 200.7	**210**	100	300	ug/L	07/14/16	07/14/16	1629301	
Magnesium (Mg)	EPA 200.7	**28**	1.0	N/A	mg/L	07/15/16	07/15/16	1629398	
Manganese (Mn)	EPA 200.7	**100**	20	50	ug/L	07/14/16	07/14/16	1629301	

Filter SP#2 **16G0446-02 (Water)** **Sample Date:** 07/06/16 8:10 **Sampler:** DGM

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**4.72**		N/A	mg/L	07/06/16	07/06/16	1628357	
pH (Field)	Field	**7.64**		N/A	pH Units	07/06/16	07/06/16	1628357	
Temperature (Field)	Field	**22.8**		N/A	°C	07/06/16	07/06/16	1628357	
Microbiology Analyses									
Total Coliform	SM 9223	A		N/A	P/A	07/06/16	07/07/16	1628261	
E. Coli	SM 9223	A		N/A	P/A	07/06/16	07/07/16	1628261	
Plate Count	SM9215B	ND	1	500	CFU/ml	07/06/16	07/08/16	1628413	HT-08

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: CWPF Monthly Standard 1st Week July
Project Manager: Mark Andersen

Work Order: 16G0446
Received: 07/06/16 15:30
Reported: 07/21/16

MWD SP #6 **16G0446-03 (Water)** **Sample Date:** 07/06/16 8:20 **Sampler:** DGM

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**2.18**		N/A	mg/L	07/06/16	07/06/16	1628357	
pH (Field)	Field	**8.25**		N/A	pH Units	07/06/16	07/06/16	1628357	
Temperature (Field)	Field	**22.8**		N/A	°C	07/06/16	07/06/16	1628357	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	**270**	6.6	N/A	mg/L	07/15/16	07/15/16	[CALC]	
Total Filterable Residue/TDS	SM 2540C	**600**	5.0	1000	mg/L	07/12/16	07/13/16	1629113	
Metals									
Calcium (Ca)	EPA 200.7	**66**	1.0	N/A	mg/L	07/15/16	07/15/16	1629398	
Magnesium (Mg)	EPA 200.7	**26**	1.0	N/A	mg/L	07/15/16	07/15/16	1629398	

Reservoir Effluent Site SP #3 **16G0446-04 (Water)** **Sample Date:** 07/06/16 8:40 **Sampler:** DGM

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**4.15**		N/A	mg/L	07/06/16	07/06/16	1628357	
pH (Field)	Field	**7.66**		N/A	pH Units	07/06/16	07/06/16	1628357	
Temperature (Field)	Field	**22.9**		N/A	°C	07/06/16	07/06/16	1628357	
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	07/06/16	07/06/16	1628308	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	07/14/16	07/14/16	1629301	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	07/14/16	07/14/16	1629301	

Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: CWPF Monthly Standard 1st Week July
Project Manager: Mark Andersen

Work Order: 16G0446
Received: 07/06/16 15:30
Reported: 07/21/16

Reservoir Effluent Site SP #5 **16G0446-05 (Water)** **Sample Date:** 07/06/16 8:50 **Sampler:** DGM

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**2.42**		N/A	mg/L	07/06/16	07/06/16	1628357	
pH (Field)	Field	**7.93**		N/A	pH Units	07/06/16	07/06/16	1628357	
Temperature (Field)	Field	**22.9**		N/A	°C	07/06/16	07/06/16	1628357	
General Physical Analyses									
Odor Threshold	EPA 140.1M	**4**	1	3	TON	07/06/16	07/06/16	1628308	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	**300**	6.6	N/A	mg/L	07/15/16	07/15/16	[CALC]	
Total Filterable Residue/TDS	SM 2540C	**670**	5.0	1000	mg/L	07/12/16	07/13/16	1629113	
Metals									
Calcium (Ca)	EPA 200.7	**76**	1.0	N/A	mg/L	07/15/16	07/15/16	1629398	
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	07/14/16	07/14/16	1629301	
Magnesium (Mg)	EPA 200.7	**27**	1.0	N/A	mg/L	07/15/16	07/15/16	1629398	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	07/14/16	07/14/16	1629301	

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

Clinical Laboratory of San Bernardino, Inc.

EDT Transfer Confirmation 1

Work Order: 16G0446
Report Date: 07/21/2016
Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

LOMITA-CITY, WATER DEPT. User ID: 4TH System: 1910073

WELL 05	Station No.: 1910073-003			Sampled: 160706 08:00	
COLOR	Result: ND	Units: UNITS	Entry No.: 00081	Analyzed: 160706	
TOTAL HARDNESS (AS CACO3)	Result: 330	Units: MG/L	Entry No.: 00900	Analyzed: 160715	
CALCIUM	Result: 85	Units: MG/L	Entry No.: 00916	Analyzed: 160715	
MAGNESIUM	Result: 28	Units: MG/L	Entry No.: 00927	Analyzed: 160715	
IRON	Result: 210	Units: UG/L	Entry No.: 01045	Analyzed: 160714	
MANGANESE	Result: 100	Units: UG/L	Entry No.: 01055	Analyzed: 160714	
TOTAL DISSOLVED SOLIDS	Result: 710	Units: MG/L	Entry No.: 70300	Analyzed: 160713	
WELL 05 TREATMENT PLANT EFFLUENT	Station No.: 1910073-006			Sampled: 160706 08:40	
COLOR	Result: ND	Units: UNITS	Entry No.: 00081	Analyzed: 160706	
IRON	Result: ND	Units: UG/L	Entry No.: 01045	Analyzed: 160714	
MANGANESE	Result: ND	Units: UG/L	Entry No.: 01055	Analyzed: 160714	

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Certificate of Analysis

Report Date: 07/14/16 13:19
Received Date: 07/08/16 12:55
Turnaround Time: 5 workdays

Project: 16G0446

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 7/8/2016 with the Chain of Custody document. The samples were received in good condition, at 0.8 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 6G08043-01 **Sample ID: Well SP#1/ 16G0446-01** **Matrix:** Water
Sampled by: Client **Sampled: 07/06/16 08:00**

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	**9.6**	0.024	0.20	mg/l	20	RSK-175	7/12/16	7/12/16 19:56	W6G0546	

Lab ID: 6G08043-02 **Sample ID: Reservoir Effluent Site #5 / 16G0446-05** **Matrix:** Water
Sampled by: Client **Sampled: 07/06/16 08:50**

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	**0.34**	0.0012	0.010	mg/l	1	RSK-175	7/12/16	7/12/16 20:16	W6G0546	

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W6G0546 - RSK-175

Blank (W6G0546-BLK1) **Prepared: 07/12/16 Analyzed: 07/12/16 19:36**

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

LCS (W6G0546-BS1) **Prepared: 07/12/16 Analyzed: 07/12/16 19:17**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.209		mg/l	0.198	106	85-115		

Duplicate (W6G0546-DUP1) **Source: 6G08043-02** **Prepared: 07/12/16 Analyzed: 07/12/16 20:36**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.341	0.377		mg/l				10	20

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

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

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino 6L08043

16G0446

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: Well SP#1 / 16G0446-01	**Sampled: 07/06/16 08:00 PS Code:** **Water** **WTX ID:**
Methane RSK175	Report in mg/L
Containers Supplied:	
40ml Amber Vial (C)	40ml Amber Vial (D)
Sample ID: Reservoir Effluent Site SP #5 / 16G0446-05	**Sampled: 07/06/16 08:50 PS Code:** **Water** **WTX ID:**
Methane RSK175	Report in mg/L
Containers Supplied:	
40mL Amber Vial HCl (B)	40mL Amber Vial HCl (C)

BJ Sy	07/08/16 07:50	M Clark	7/8/16 9:30
Released By	Date / Time	Received By	Date / Time
M Clark	7/8/16 12:55	[signature]	7/8/16 1755
Released By	Date / Time	Received By	Date / Time

05c

Clinical Laboratory of San Bernardino, Inc. 16G0446 1 of 3 *Chain of Custody*

Client	*City of Lomita*	System Number	Analysis Requested
Address	24373 Walnut Avenue	**1910073**	
	Lomita, CA 91717		
Phone #	(310) 325-9830	*Destination Laboratory*	
Fax #	(310) 325-3627	[X] Clinical Laboratory	
Project	*Standard Analysis*	*RWQCB Compliance*	
Sub Project	*CWPF Monthly Standard 1st week July*	*yes*	
		ELAP #	
Comments		**1088**	
Sampled by	*DGM*		

Date	Time	Sample Idenitification	Matrix	Type	Preserv	TOTAL Chlorine	Iron	Manganese	Total Dissolved Solids	Color	Methane (Water) (RSK175)	Total Hardness (as CaCO3)	TC/HPC/E COLI	ODOR	Comments / P.S. Codes
7/6/2016	0800	Well SP#1	DW	1W	1,7	N/A	X	X	X	X	X	X	X		PH 7.59 TEMP 23.1
7/6/2016	0810	Filter SP#2	DW	1W	1,7	4.72							X		PH 7.64 TEMP 22.8
7/6/2016	0820	MWD SP#6	DW	1W	N/A	2.18			X			X			PH 8.25 TEMP 22.8
7/6/2016	0840	Reservoir Effluent Site SP #3	DW	1W	N/A	4.15	X	X		X					PH 7.66 TEMP 22.9
7/6/2016	0850	Reservoir Effluent Site SP #5	DW	1W	N/A	2.42	X	X	X		X	X		X	PH 7.93 TEMP 22.9

Preservatives: (1) $Na_2S_2O_3$ (2) HCl (3) HNO3 (4) NH4Cl (5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:_____

Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air
Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D- Dist.

Relinquished By (Sign)	*Print Name / Company*	*Date / Time*	*Received By (Sign)*	*Print Name / Company*
Daniel Mateik	City of Lomita	7/6/2016 1:30		J.LUCERO/LJSB
	J.LUCERO/LJSB	7.6.16 / 3:30		Amount 0.46

Comments:

Samples received: ( ) On ice ( ) Intact ( ) Custody seals
Temp 11-7 ( ) F (X) C

Shipped Via [ ] *Fed X* [ ] *Golden State* [ ] *UPS* [ ] *Client* [ ] *Other* _____ *Page _1_ of _1_*

"Your Water and Wastewater Analysis Solution"

Clinical Laboratory of San Bernardino, Inc.

27 July 2016 Clinical Lab No.: 16G1046

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

Project Name: Standard Analysis
Sub Project: CWPF 2nd Week July Compliance Sampling

Enclosed are the results of the analyses for samples received at the laboratory on 07/13/16 . 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,

Stu Styles
Client Services Manager

Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: CWPF 2nd Week July Compliance Sampling
Project Manager: Mark Andersen

Work Order: 16G1046
Received: 07/13/16 15:45
Reported: 07/27/16

Reservoir Influent Site #3 **16G1046-01 (Water)** **Sample Date:** 07/13/16 8:45 **Sampler:** DGM

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**4.25**		N/A	mg/L	07/13/16	07/13/16	1629389	
pH (Field)	Field	**7.66**		N/A	pH Units	07/13/16	07/13/16	1629389	
Temperature (Field)	Field	**23**		N/A	°C	07/13/16	07/13/16	1629389	
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	07/13/16	07/13/16	1629403	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	07/25/16	07/26/16	1631030	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	07/25/16	07/26/16	1631030	

Reservoir Effluent Site #5 **16G1046-02 (Water)** **Sample Date:** 07/13/16 9:00 **Sampler:** DGM

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**2.42**		N/A	mg/L	07/13/16	07/13/16	1629389	
pH (Field)	Field	**7.89**		N/A	pH Units	07/13/16	07/13/16	1629389	
Temperature (Field)	Field	**23**		N/A	°C	07/13/16	07/13/16	1629389	
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	07/13/16	07/13/16	1629403	
Odor Threshold	EPA 140.1M	**1**	1	3	TON	07/13/16	07/13/16	1629403	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	**650**	5.0	1000	mg/L	07/18/16	07/19/16	1630027	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	07/25/16	07/26/16	1631030	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	07/25/16	07/26/16	1631030	

ND Analyte NOT DETECTED at or above the reporting limit

Clinical Laboratory of San Bernardino, Inc.

EDT Transfer Confirmation 1

Work Order: 16G1046
Report Date: 07/27/2016
Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

LOMITA-CITY, WATER DEPT. User ID: 4TH System: 1910073

WELL 05 TREATMENT PLANT EFFLUENT Station No.: 1910073-006 Sampled: 160713 08:45

COLOR	Result: ND	Units: UNITS	Entry No.: 00081	Analyzed: 160713
IRON	Result: ND	Units: UG/L	Entry No.: 01045	Analyzed: 160726
MANGANESE	Result: ND	Units: UG/L	Entry No.: 01055	Analyzed: 160726

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Certificate of Analysis

Report Date: 07/21/16 14:59
Received Date: 07/15/16 12:08
Turnaround Time: 5 workdays

Project: 16G1046

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 7/15/2016 with the Chain of Custody document. The samples were received in good condition, at 3.8 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 6G15043-01 **Sample ID: Redervoir Effluent Site #5/ 16G1046-02** **Matrix:** Water
Sampled by: Client **Sampled: 07/13/16 09:00**

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	**0.45**	0.0012	0.010	mg/l	1	RSK-175	7/15/16	7/15/16 17:07	W6G0779	

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Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W6G0779 - RSK-175

Blank (W6G0779-BLK1) **Prepared: 07/15/16 Analyzed: 07/15/16 16:47**

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

LCS (W6G0779-BS1) **Prepared: 07/15/16 Analyzed: 07/15/16 16:28**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.173		mg/l	0.198	87	85-115		

Duplicate (W6G0779-DUP1) **Source: 6G15043-01** **Prepared: 07/15/16 Analyzed: 07/15/16 17:27**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.451	0.450		mg/l				0.1	20

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www.wecklabs.com

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

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

16G1046

6G15043

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
Water Trax Upload Client: _____ [ ] Yes [✓] No

Turn Around Time [ ] 10 Days [✓] 5 Days [ ] Other __ Days
Subcontract Comments:

Analysis	Comments
Sample ID: Reservoir Effluent Site #5 / 16G1046-02	**Sampled: 07/13/16 09:00 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
07/15/16	07:45		7/15/16 945
Released By	Date / Time	Received By	Date / Time
7/15/16	1208		7/15/16 1708

3.8c

Clinical Laboratory of San Bernardino, Inc.

1641046

Chain of Custody

Ø13/5

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	*CWPF 5th Week June Compliance Sampling*	*No*	
		ELAP #	
Comments	*For TC/EC/BACT see weekly Distro CoC*	**1088**	
Sampled by	*DGM*		

Date	Time	Sample Idenitification	Matrix	Type	Preserv	Total Chlorine	Iron	Manganese	Total Dissolved Solids	Color	Methane (Water) (RSK175)	Total Hardness (as CaCO3)	BACT/TC/HPC	Odor	Comments / P.S. Codes
7/13/2016	Ø845	Reservoir Influent Site #3	DW	1W	N/A	4,25	X	X		X					PH 7.66 Temp 23.Ø
7/13/2016	Ø900	Reservoir Effluent Site #5	DW	1W	N/A	2,42	X	X	X	X				X	
7/13/2016	Ø900	Reservoir Effluent Site #5	DW	1W	HCL	2,42					X				PH 7.89 Temp 23.Ø

Preservatives: (1) $Na_2S_2O_3$ (2) HCl (3) HNO_3 (4) NH_4Cl
(5) H_2SO_4 (6) Na_2SO_3 (7) Cold (8) Other:_____

Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air
Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D- Dist.

Relinquished By (Sign)	*Print Name / Company*	*Date / Time*	*Received By (Sign)*	*Print Name / Company*
Daniel Mateik	City of Lomita	7/13/2016 / 12:30		JMUCEDO/CLSB
	JMUCEDO/CLSB	7-13-16 / 3:45		AM CLSB

Comments:

Samples received: (✓) On ice (✓) Intact ( ) Custody seals
Temp 9.7 ( ) F (✓) C

Shipped Via			[ ] *Fed X* [ ] *Golden State* [ ] *UPS* [ ] *Client* [ ] *Other* _____	*Page 1 of 1*		

Clinical Laboratory of San Bernardino, Inc.

05 August 2016 Clinical Lab No.: 16G1638

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

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

Enclosed are the results of the analyses for samples received at the laboratory on 07/20/16 . 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,

Stu Styles
Client Services Manager

Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: CWPF 3rd Week July Compliance Sampling
Project Manager: Mark Andersen

Work Order: 16G1638
Received: 07/20/16 16:15
Reported: 08/05/16

Reservoir Influent Site #3 **16G1638-01 (Water)** **Sample Date:** 07/20/16 0:00 **Sampler:** DGM

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**4.55**		N/A	mg/L	07/20/16	07/20/16	1630326	
pH (Field)	Field	**7.7**		N/A	pH Units	07/20/16	07/20/16	1630326	
Temperature (Field)	Field	**23**		N/A	°C	07/20/16	07/20/16	1630326	
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	07/20/16	07/20/16	1630389	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	**310**	6.6	N/A	mg/L	07/28/16	07/28/16	[CALC]	
Metals									
Calcium (Ca)	EPA 200.7	**80**	1.0	N/A	mg/L	07/28/16	07/28/16	1631293	
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	08/03/16	08/03/16	1632232	
Magnesium (Mg)	EPA 200.7	**26**	1.0	N/A	mg/L	07/28/16	07/28/16	1631293	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	08/03/16	08/03/16	1632232	

Reservoir Effluent Site #5 **16G1638-02 (Water)** **Sample Date:** 07/20/16 0:00 **Sampler:** DGM

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**2.73**		N/A	mg/L	07/20/16	07/20/16	1630326	
pH (Field)	Field	**7.95**		N/A	pH Units	07/20/16	07/20/16	1630326	
Temperature (Field)	Field	**22.9**		N/A	°C	07/20/16	07/20/16	1630326	
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	07/20/16	07/20/16	1630389	
Odor Threshold	EPA 140.1M	**4**	1	3	TON	07/20/16	07/20/16	1630389	
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	**270**	6.6	N/A	mg/L	07/28/16	07/28/16	[CALC]	
Total Filterable Residue/TDS	SM 2540C	**650**	5.0	1000	mg/L	07/25/16	07/28/16	1631024	
Metals									
Calcium (Ca)	EPA 200.7	**69**	1.0	N/A	mg/L	07/28/16	07/28/16	1631293	
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	08/03/16	08/03/16	1632232	
Magnesium (Mg)	EPA 200.7	**23**	1.0	N/A	mg/L	07/28/16	07/28/16	1631293	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	08/03/16	08/03/16	1632232	

ND Analyte NOT DETECTED at or above the reporting limit

Clinical Laboratory of San Bernardino, Inc.

EDT Transfer Confirmation 1

Work Order: 16G1638
Report Date: 08/05/2016
Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

LOMITA-CITY, WATER DEPT. User ID: 4TH System: 1910073

WELL 05 TREATMENT PLANT EFFLUENT Station No.: 1910073-006 Sampled: 160720 00:00

COLOR	Result: ND	Units: UNITS	Entry No.: 00081	Analyzed: 160720
TOTAL HARDNESS (AS CACO3)	Result: 310	Units: MG/L	Entry No.: 00900	Analyzed: 160728
CALCIUM	Result: 80	Units: MG/L	Entry No.: 00916	Analyzed: 160728
MAGNESIUM	Result: 26	Units: MG/L	Entry No.: 00927	Analyzed: 160728
IRON	Result: ND	Units: UG/L	Entry No.: 01045	Analyzed: 160803
MANGANESE	Result: ND	Units: UG/L	Entry No.: 01055	Analyzed: 160803

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Certificate of Analysis

Report Date: 07/27/16 12:49
Received Date: 07/21/16 11:45
Turnaround Time: 5 workdays

Project: 16G1638

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 7/21/2016 with the Chain of Custody document. The samples were received in good condition, at 2.6 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 6G21063-01 **Sample ID: Redervoir Effluent Site #5/ 16G1638-02** **Matrix:** Water
Sampled by: Client **Sampled: 07/20/16 00:00**

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	**0.48**	0.0012	0.010	mg/l	1	RSK-175	7/25/16	7/25/16 17:37	W6G1229	

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www.wecklabs.com

Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W6G1229 - RSK-175

Blank (W6G1229-BLK1) — **Prepared: 07/25/16 Analyzed: 07/25/16 16:34**

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

LCS (W6G1229-BS1) — **Prepared: 07/25/16 Analyzed: 07/25/16 16:57**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.217		mg/l	0.198	110	85-115		

Duplicate (W6G1229-DUP1) — **Source: 6G21063-01** — **Prepared: 07/25/16 Analyzed: 07/25/16 17:57**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.478	0.467		mg/l				2	20

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

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

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

6G21063

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

16G1638

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
Water Trax Upload Client: _____ [ ] Yes [✓] No

Turn Around Time [ ] 10 Days [✓] 5 Days [ ] Other __ Days
Subcontract Comments:

Analysis	Comments
Sample ID: Reservoir Effluent Site #5 / 16G1638-02	**Sampled: 07/20/16 00:00 PS Code: Water** **WTX ID:**
	Report in mg/L
Methane RSK175	

Containers Supplied:
40mL Amber Vial HCl (B) 40mL Amber Vial HCl (C)

Released By	Date / Time	Received By	Date / Time	
	07/21/16 11:40		7-21-16	11:40
Released By	Date / Time	Received By	Date / Time	
	7-21-16 11:45	TOMASZ GLOBISZ	07/21/16	11:45

Temp. 2.6°C

Clinical Laboratory of San Bernardino, Inc.

1661638 9/31

Chain of Custody

Client		*City of Lomita*	**System Number**				**Analysis Requested**												
Address		24373 Walnut Avenue	**1910073**																
		Lomita, CA 91717																	
Phone #		(310) 325-9830	*Destination Laboratory*																
Fax #		(310) 325-3627	[X] Clinical Laboratory																
Project		*Standard Analysis*	*RWQCB Compliance*																
Sub Project		*CWPF 3rd Week July Compliance Sampling*	*No*																
			ELAP #																
Comments		*For TC/EC/BACT see weekly Distro CoC*	**1088**																
Sampled by		*DGM*																	
Date	**Time**	**Sample Idenitification**	**Matrix**	**Type**	**Preserv**	**Total Chlorine**	Iron	Manganese	Total Dissolved Solids	Color	Methane (Water) (RSK175)	Total Hardness (as CaCO3)	BACT/TC/HPC	Odor	**Comments / P.S. Codes**				
7/20/2016		Reservoir Influent Site #3	DW	1W	N/A	4.55	X	X		X		X			PH 7.70 Temp 23.0				
7/20/2016		Reservoir Effluent Site #5	DW	1W	N/A	2.73	X	X	X	X				X					
7/20/2016		Reservoir Effluent Site #5	DW	1W	HCL	2.73					X	X			PH 7.95 Temp 22.9				

Preservatives: (1) $Na_2S_2O_3$ (2) HCl (3) HNO_3 (4) NH_4Cl
(5) H_2SO_4 (6) Na_2SO_3 (7) Cold (8) Other:_____

Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air
Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D- Dist.

Relinquished By (Sign)	*Print Name / Company*	*Date / Time*	*Received By (Sign)*	*Print Name / Company*
Daniel Mateik	City of Lomita	7/20/2016 12:30		J. Lucero/CLSB
	J. Lucero/CLSB	7.20.16 4:15		

Comments:

Samples received: ( ) On ice ( ) Intact ( ) Custody seals
Temp_____ ( ) F (X) C 8.9C

Shipped Via [ ] *Fed X* [ ] *Golden State* [ ] *UPS* [ ] *Client* [ ] *Other* _____ *Page _1_ of _1_*

"Your Water and Wastewater Analysis Solution"

Clinical Laboratory of San Bernardino, Inc.

04 August 2016 Clinical Lab No.: 16G2179

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

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

Enclosed are the results of the analyses for samples received at the laboratory on 07/27/16 . 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,

Stu Styles
Client Services Manager

Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: CWPF 4th Week July Compliance Sampling
Project Manager: Mark Andersen

Work Order: 16G2179
Received: 07/27/16 16:00
Reported: 08/04/16

Reservoir Influent Site #3 **16G2179-01 (Water)** **Sample Date:** 07/27/16 10:20 **Sampler:** DGM

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**4.4**		N/A	mg/L	07/27/16	07/27/16	1631290	
pH (Field)	Field	**7.67**		N/A	pH Units	07/27/16	07/27/16	1631290	
Temperature (Field)	Field	**23.3**		N/A	°C	07/27/16	07/27/16	1631290	
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	07/27/16	07/27/16	1631363	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	08/02/16	08/02/16	1632074	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	08/02/16	08/02/16	1632074	

Reservoir Effluent Site #5 **16G2179-02 (Water)** **Sample Date:** 07/27/16 10:10 **Sampler:** DGM

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	**2.55**		N/A	mg/L	07/27/16	07/27/16	1631290	
pH (Field)	Field	**7.95**		N/A	pH Units	07/27/16	07/27/16	1631290	
Temperature (Field)	Field	**23.3**		N/A	°C	07/27/16	07/27/16	1631290	
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	07/27/16	07/27/16	1631363	
Odor Threshold	EPA 140.1M	**1**	1	3	TON	07/27/16	07/27/16	1631363	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	**650**	5.0	1000	mg/L	07/29/16	08/02/16	1631373	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	08/02/16	08/02/16	1632074	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	08/02/16	08/02/16	1632074	

ND Analyte NOT DETECTED at or above the reporting limit

Clinical Laboratory of San Bernardino, Inc.

EDT Transfer Confirmation 1

Work Order: 16G2179
Report Date: 08/04/2016
Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

LOMITA-CITY, WATER DEPT. User ID: 4TH System: 1910073

WELL 05 TREATMENT PLANT EFFLUENT Station No.: 1910073-006 Sampled: 160727 10:20

COLOR	Result: ND	Units: UNITS	Entry No.: 00081	Analyzed: 160727
IRON	Result: ND	Units: UG/L	Entry No.: 01045	Analyzed: 160802
MANGANESE	Result: ND	Units: UG/L	Entry No.: 01055	Analyzed: 160802

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders: 6G28021

Project: 16G2179

Attn: John Styles

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

Report Date: 8/03/2016

Received Date: 7/28/2016

Turnaround Time: 5 workdays

Phones: (909) 825-7693

Fax: (909) 825-7696

P.O. #:

Dear John Styles,

Enclosed are the results of analyses for samples received 7/28/16 with the Chain-of-Custody document. The samples were received in good condition, at 2.4 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Sample Results

Sample: Reservoir Effluent Site #5/ 16G2179-02
6G28021-01 (Water)

Sampled: 07/27/16 10:10 by Client

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Method: RSK-175 **Batch ID:** W6H0123 **Instr:** GC09 **Prepared:** 08/02/16 10:53 **Analyst:** rhr							
Methane	**0.38**	0.0012	0.010	mg/l	1	08/02/16 15:10	

14859 East Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Quality Control Results

Dissolved Gases in Water by RSK-175

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W6H0123 - Headspace										
Blank (W6H0123-BLK1)				**Prepared & Analyzed: 08/02/16**						
Methane	ND	0.0012	mg/l							
LCS (W6H0123-BS1)				**Prepared & Analyzed: 08/02/16**						
Methane	0.185	0.0012	mg/l	0.198		93	85-115			
Duplicate (W6H0123-DUP1)		**Source: 6G28021-01**		**Prepared & Analyzed: 08/02/16**						
Methane	0.422	0.0012	mg/l		0.376			11	20	

14859 East Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Notes and Definitions

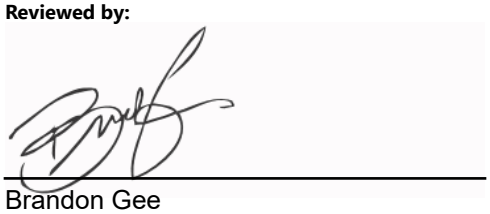
Item	Definition
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
NR	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.
An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)
All results are expressed on wet weight basis unless otherwise specified.
All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.

Not Certified Analyses Summary

Analyte	CAS #	Not Accredited By
RSK-175 in Water		
Methane	74-82-8	NELAP

Reviewed by:



Brandon Gee
Senior Project Manager

DoD-ELAP #L15-366 ● ELAP-CA #1132 ● EPA-UCMR #CA00211 ● HW-DOH # ● ISO 17025 #L15-365 ● NELAP-OR #4047 ● NJ-DEP #CA015 ● NV-DEP #NAC 445A ● SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

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www.wecklabs.com

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

16G2179

6G28021

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
Water Trax Upload Client: _____ [ ] Yes [✓] No

Turn Around Time [ ] 10 Days [✓] 5 Days [ ] Other __ Days
Subcontract Comments:

Analysis	Comments
Sample ID: Reservoir Effluent Site #5 / 16G2179-02	**Sampled: 07/27/16 10:10 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
BJ Sly	07/28/16 07:45	M Clark	7/28/16 9:00
M Clark	7/28/16 11:45	TOMASZ GLEBISZ	07/28/16 11:45

2.4°C

Clinical Laboratory of San Bernardino, Inc.

166479 0/3 (B) (S) KH *Chain of Custody*

Client	*City of Lomita*	System Number	Analysis Requested
Address	24373 Walnut Avenue	**1910073**	
	Lomita, CA 91717		
Phone #	(310) 325-9830	*Destination Laboratory*	
Fax #	(310) 325-3627	[X] Clinical Laboratory	
Project	*Standard Analysis*	*RWQCB Compliance*	
Sub Project	*CWPF 4th Week July Compliance Sampling*	*No*	
		ELAP #	
Comments	*For TC/EC/BACT see weekly Distro CoC*	**1088**	
Sampled by	*DGM*		

Date	Time	Sample Idenitification	Matrix	Type	Preserv	Total Chlorine	Iron	Manganese	Total Dissolved Solids	Color	Methane (Water) (RSK175)	Total Hardness (as CaCO3)	BACT/TC/HPC	Odor	Comments / P.S. Codes
7/27/2016	1020	Reservoir Influent Site #3	DW	1W	N/A	4.4	X	X		X					PH 7.67 Temp 23.3
7/27/2016	1010	Reservoir Effluent Site #5	DW	1W	N/A	2.55	X	X	X	X				X	
7/27/2016	"	Reservoir Effluent Site #5	DW	1W	HCL						X				PH 7.95 Temp 23.3

Preservatives: (1) $Na_2S_2O_3$ (2) HCl (3) HNO_3 (4) NH_4Cl
(5) H_2SO_4 (6) Na_2SO_3 (7) Cold (8) Other:_____

Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air
Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D- Dist.

Relinquished By (Sign)	*Print Name / Company*	*Date / Time*	*Received By (Sign)*	*Print Name / Company*
Daniel Mateik	City of Lomita	7/27/2016 1,12:30		J. Mcgao/CWB
	J. Mcgao/CWB	7-27-16/4:00		

Comments:

Samples received: (✓) On Ice (✓) Intact ( ) Custody seals
Temp 12.7 ( ) F (✓) C

Shipped Via [ ] *Fed X* [ ] *Golden State* [ ] *UPS* [ ] *Client* [ ] *Other* _____ *Page _1_ of _1_*

"Your Water and Wastewater Analysis Solution"

APPENDIX B

METHANE MONITORING LOG

CITY OF LOMITA
PUBLIC WORKS DEPARTMENT

CYPRESS WATER PRODUCTION FACILITY
HANDHELD METHANE LOG READINGS

JULY 2016				
DATE	**DAY**	**METHANE HANDHELD**		**COMMENTS**
7/1/2016	F	CH_4- 0%	Oxy- 20.2%	
7/2/2016	SA	CH_4- 0%	Oxy- 20.3%	
7/3/2016	SU	CH_4- 0%	Oxy- 20.3%	
7/4/2016	M	CH_4- 0%	Oxy- 20.2%	
7/5/2016	TU	CH_4- 1%	Oxy- 20.2%	
7/6/2016	W	CH_4- 2%	Oxy- 19.9%	
7/7/2016	TH	CH_4- 0%	Oxy- 20.3%	
7/8/2016	F	CH_4- 0%	Oxy- 20.4%	
7/9/2016	SA	CH_4- 2%	Oxy- 19.9%	
7/10/2016	SU	CH_4- 0%	Oxy- 20.5%	
7/11/2016	M	CH_4- 1%	Oxy- 20.1%	
7/12/2016	TU	CH_4- 0%	Oxy- 20.4%	
7/13/2016	W	CH_4- 0%	Oxy- 20.3%	
7/14/2016	TH	CH_4- 0%	Oxy- 20.1%	
7/15/2016	F	CH_4- 2%	Oxy- 19.9%	
7/16/2016	SA	CH_4- 0%	Oxy- 20.1%	
7/17/2016	SU	CH_4- 0%	Oxy- 20.2%	
7/18/2016	M	CH_4- 0%	Oxy- 20.1%	
7/19/2016	TU	CH_4- 1%	Oxy- 20.2%	
7/20/2016	W	CH_4- 0%	Oxy- 20.2%	
7/21/2016	TH	CH_4- 0%	Oxy- 20.2%	
7/22/2016	F	CH_4- 2%	Oxy- 19.9%	
7/23/2016	SA	CH_4- 2%	Oxy- 19.9%	
7/24/2016	SU	CH_4- 0%	Oxy- 20.2%	
7/25/2016	M	CH_4- 0%	Oxy- 20.1%	
7/26/2016	TU	CH_4- 0%	Oxy- 20.4%	
7/27/2016	W	CH_4- 0%	Oxy- 20.2%	
7/28/2016	TH	CH_4- 0%	Oxy- 20.3%	
7/29/2016	F	CH_4- 0%	Oxy- 20.4%	
7/30/2016	SA	CH_4- 2%	Oxy- 19.9%	
7/31/2016	SU	CH_4- 0%	Oxy- 20.2%	

ND- Non Detect
CH_4- Methane
Oxy- Oxygen
Day Off/Holiday- Red

APPENDIX C

NITRIFICATION MONIROTING DATA SUMMARY

[1]MONTHLY NITRIFICATION MONITORING SUMMARY REPORT
CITY OF LOMITA, System No. 1910073 --- Month, Year: JULY 2016

Code	Sample I.D	Location	Sample Date (and Time)	Temp	pH	Total Chlorine	Free Chlorine	Total Ammonia	Free Ammonia	Nitrite	Nitrate	Coliform[2]	HPC	Zone	Comments
Units/Others →			MM/DD/YYYY Xx:xx am/pm	°C		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	P/A	CFU/ml		
D	S13-003	1948 W. 252nd St	7/6/2016	23.6	8.08	2.02	0.17	ND	ND	ND	ND	A	ND	1	We///MWD Blend
D	S13-004	24632 S Moon Av	7/6/2016	22.6	8.01	1.86	0.09	ND	ND	ND	ND	A	ND	1	We///MWD Blend
D	S13-008	25417 Pennsylvania Av	7/6/2016	22.9	7.96	2.06	0.13	ND	ND	ND	ND	A	9	1	We///MWD Blend
D	A	2052 Dawn St	7/6/2016	23.4	8.03	0.82	0.08	ND	ND	0.067	ND	A	10	1	We///MWD Blend
D		Reservoir	7/6/2016	22.9	7.93	2.42	0.16	ND	ND	0.005	ND	A	ND	1	We///MWD Blend
D	13-1	1912 W. 259th Pl	7/6/2016	24.7	8.18	2.20	0.15	ND	ND	ND	ND	A	ND	2	MWD Only
D	13-2	26314 S Monte Vta.	7/6/2016	23.2	8.24	2.20	0.23	ND	ND	ND	ND	A	ND	3	MWD Only
D	13-5	2500 PCH	7/6/2016	23.2	8.14	2.07	0.20	ND	ND	ND	ND	A	ND	2	MWD Only
D	S13-003	1948 W. 252nd St	7/13/2016	25.0	7.98	1.67	0.28	ND	ND	0.016	ND	A	ND	1	We///MWD Blend
D	S13-004	24632 S Moon Av	7/13/2016	24.1	7.90	1.27	0.32	ND	ND	0.019	ND	A	8	1	We///MWD Blend
D	S13-008	25417 Pennsylvania Av	7/13/2016	24.8	7.97	1.55	0.17	ND	ND	0.011	ND	A	53	1	We///MWD Blend
D	A	2052 Dawn St	7/13/2016	25.1	7.80	0.43	0.06	ND	ND	0.065	ND	A	33	1	We///MWD Blend
D		Reservoir	7/13/2016	23.0	7.89	2.42	0.12	ND	ND	0.035	ND	A	ND	1	We///MWD Blend
D	13-1	1912 W. 259th Pl	7/13/2016	24.9	8.24	2.20	0.23	ND	ND	0.044	ND	A	ND	2	MWD Only
D	13-2	26314 S Monte Vta.	7/13/2016	22.3	8.05	2.20	0.29	0.63	ND	0.034	ND	A	ND	3	MWD Only
D	13-5	2500 PCH	7/13/2016	22.6	7.33	2.20	0.00	ND	ND	0.058	ND	A	ND	2	MWD Only
D	S13-003	1948 W. 252nd St	7/20/2016	26.0	7.96	1.40	0.08	ND	ND	0.019	ND	A	1	1	We///MWD Blend
D	S13-004	24632 S Moon Av	7/20/2016	25.0	7.17	0.95	0.06	ND	ND	0.023	ND	A	12	1	We///MWD Blend
D	S13-008	25417 Pennsylvania Av	7/20/2016	29.2	8.03	1.79	0.24	ND	ND	0.012	ND	A	64	1	We///MWD Blend
D	A	2052 Dawn St	7/20/2016	26.1	7.87	0.24	0.05	ND	ND	0.046	ND	A	75	1	We///MWD Blend
D		Reservoir	7/20/2016	22.9	7.95	2.73	-	ND	ND	0.005	ND	A	ND	1	We///MWD Blend
D	13-1	1912 W. 259th Pl	7/20/2016	22.9	8.44	2.30	0.12	ND	ND	0.007	ND	A	ND	2	MWD Only
D	13-2	26314 S Monte Vta.	7/20/2016	22.7	8.40	2.30	0.15	ND	ND	0.008	ND	A	ND	3	MWD Only
D	13-5	2500 PCH	7/20/2016	29.3	7.80	2.17	0.11	ND	ND	0.008	ND	A	ND	2	MWD Only
D	S13-003	1948 W. 252nd St	7/27/2016	26.5	8.00	1.40	0.08	ND	ND	0.013	ND	A	ND	1	We///MWD Blend
D	S13-004	24632 S Moon Av	7/27/2016	26.5	7.93	0.64	0.07	ND	ND	0.019	ND	A	72	1	We///MWD Blend
D	S13-008	25417 Pennsylvania Av	7/27/2016	27.9	7.91	1.42	0.21	ND	ND	0.018	ND	A	130	1	We///MWD Blend
D	A	2052 Dawn St	7/27/2016	30.8	7.75	0.20	0.08	ND	ND	0.020	ND	A	83	1	We///MWD Blend
D		Reservoir	7/27/2016	23.3	7.95	2.55	0.11	ND	ND	0.008	ND	A	ND	1	We///MWD Blend
D	13-1	1912 W. 259th Pl	7/27/2016	25.5	8.54	2.30	0.11	ND	ND	0.006	ND	A	ND	2	MWD Only
D	13-2	26314 S Monte Vta.	7/27/2016	24.1	8.37	2.40	0.00	ND	ND	0.009	ND	A	ND	3	MWD Only
D	13-5	2500 PCH	7/27/2016	29.6	8.14	2.10	0.39	ND	ND	0.010	ND	A	ND	2	MWD Only
D	S13-003	1948 W. 252nd St												1	We///MWD Blend
D	S13-004	24632 S Moon Av												1	We///MWD Blend
D	S13-008	25417 Pennsylvania Av												1	We///MWD Blend
D	A	2052 Dawn St												1	We///MWD Blend
D		Reservoir												1	We///MWD Blend
D	13-1	1912 W. 259th Pl												2	MWD Only
D	13-2	26314 S Monte Vta.												3	MWD Only
D	13-5	2500 PCH												2	MWD Only

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

[2]Coliform results are part of weekly Bacti sampling results.