CITY OF LOMITA



Cypress Water Production Facility Monthly Status Report

June 2015

CITY COUNCIL

HENRY SANCHEZ JR.

JIM GAZELEY

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MARK WARONEK



ADMINISTRATION

MICHAEL ROCK
CITY MANAGER

July 10, 2015

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, 2015.

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 2015.

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

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.

Well Production and Operations

For the month of June 2015, the CWPF operated for approximately 30 days, providing blended water on a fill and draw cycle with the reservoir level fluctuating with system demand. The total production from Well No. 5 for the month was approximately 55.69 ac-ft (18,145,044 gallons) with a daily production of approximately 1.86 ac-ft. The total combined production from both MWD import water and Well No. 5 was approximately 110.86 ac-ft (36,122,033 gallons) for the month with a combined daily production of approximately 3.70 ac-ft.

The daily average flow from Well No. 5 was 685 gpm. The average flow from the Well was determined by taking an average of the daily reads provided on the Daily Monitoring logs used onsite. The blend ratio for this month was on average 50% Well water and 50% MWD water.

Operational Interruptions

There were no operational interruptions during the month of June 2015. Routine and preventive maintenance was performed on various pieces of equipment as-needed. No major planned operational interruptions are anticipated for the following month.

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.

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.

A. Iron, Manganese, and Color

See Table 1 below for a summary of the results for the compliance monitoring at the three sample locations SP1 through SP3. Color in the raw water (SP1) for the month was below the Maximum Contaminant Level (MCL). Iron concentration in the raw water (SP1) was at the MCL. Manganese concentration in the raw water (SP1) was above the MCL. Iron and Manganese levels entering the reservoir (SP3) were 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.

Table 1. Monitoring Results for SP1, SP2, and SP3 Sample Locations.

		SP1, We	ell Raw	Water	Disch	arge		Pres	Comi sure fflue		SP	•	r chlora er; reser		on stati ntry	С
Date, week of	Iron, ug/L	*MCL = 3 00 ug/L	Manganese, ug/L	*MCL = 50 ug/L	Color	*MCL=15	Total Coliform	Total Coliform	HPC, MPN/100mL	MCL=500	Iron, mg/L	*MCL = 300 ug/L	Manganese, mg/L	*MCL = 50 ug/L	Color	*MCL=15
6/3/2015	230	300	110	50	10	15	Α	Α	Α	500	ND*	300	ND	50	ND**	15
6/10/2015											ND	300	ND	50	ND	15
6/17/2015											ND	300	ND	50	ND	15
6/24/2015											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

*Iron sample taken on 6/3/15 was resampled on 6/25/15, see report 15F2323

**Color sample missed during week of 6/3/15. Additional sample was taken week of 6/10/15 to make up for this, see report 15F1090.

B. Free and Total Chlorine Residuals

Daily free chlorine residuals were monitored at SP2, SP3 and SP4. Daily total chlorine residuals were monitored at SP3 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 2 below for a weekly summary of results.

Date, week of	SP2	SI	P3	SP4		SP5
Date, week of	Free CI	Free CI	Total CI	Free CI	Total CI	MCL= 4 mg/L
6/3/2015	8.21	8.56	9.39	0.57	3.79	4
6/10/2015	9.46	10.02	12.54	0.61	3.33	4
6/17/2015	15.84	13.31	18.53	0.66	2.97	4
6/24/2015	14.88	11.38	13.44	1.18	3.16	4

C. TDS, Odor, Hardness, and Methane

See Table 3 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.

Table 3. Monitoring Requirements and Frequencies for SP1, SP5, and SP6.

		TD	S, mg/L		Т.О	.N.		rdness, ng/L		thane r), mg/L
Date, week of	SP1 - Raw Well Water	SP6 - MWD Water	SP5 - Reservoir Effluent	Goal= 500 - 750 mg/L	SP5 - Reservoir Effluent	MCL=3	SP5 - Reservoir Effluent	Goal= 180 - 250 mg/L	SP1 - Raw Well Water	SP5 - Reservoir Effluent
6/3/2015	700	660	690	500-750	1	3			6.1	0.67
6/10/2015			680	500-750			330	180-250		1.30
6/17/2015			670	500-750						0.81
6/24/2015			700	500-750			·			0.83
Average			685							0.90

Notes: Monthly- <u>Orange</u> Weekly- <u>Yellow</u> ppm – parts per million

mg/L – milligram per liter T.O.N. - Threshold Odor Number TDS - Total Dissolved Solids Hardness - As total CaCO3

Methane (Water) - Methane dissolved in water

D. <u>Total Dissolved Solids (TDS)</u>

The sampling results indicate the TDS levels of the effluent blended water to be on average 685 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 700 mg/L and 660 mg/L, respectively.

E. Hardness

The sampling results for the month of June indicate the hardness levels of the blended water to be 330 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.

F. Dissolved Methane (in Water)

The methane levels in the CWPF effluent after aeration treatment remain negligible averaging 0.90 mg/L.

G. 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 2015 in Appendix B.

Appendix A

Laboratory Results



08 July 2015 Clinical Lab No.: 15F2323

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

Project Name: Standard Analysis

Sub Project: Lomita Sample Non-Compliance

Enclosed are the results of the analyses for samples received at the laboratory on 06/26/15 . 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 ofProjectStandard AnalysisWork Order:15F232324373 Walnut AvenueSub Project:Lomita Sample Non-ComplianceReceived:06/26/15 15:35Lomita CA, 91717Project Manager:Mark AndersenReported:07/08/15

Filter Eff	luent Chloramine Site #3		15F2323-0	01 (Water)		Sample Date	: 06/25/15	8:17	Sampler:	Edward Duvivier
Analyte		Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Metals										
Iron (Fe)		EPA 200.7	ND	100	300	ug/L	07/02/15	07/02/15	152753	2
ND	Analyte NOT DETECTED at or above	the reporting limit								

CECTE) 170/0

Client	IIIIIcai	Laborato	City of Lowita	S	System Number	lumber		Analysi	Analysis Requested		Chain o	cnain or custody	
Address			24373 Walnut Avenue		191	1910073			•				
			Lomita, CA 91717										
Phone #			(310) 325-9830	Q	estination	Destination Laboratory	ory						
Fax#			(310) 325-3627	7	X] Clinical	[X] Clinical Laboratory	ory]					
Project			Standard Analysis		RWQCB C	RWQCB Compliance	بو	 (`C	*				
Sub Project	t	Lomita.	Sample Non-Compliance			oN S		n					
Comments					ם ה	ELAP#					To Mayor b		
Sampled by	,	Edward	R Duvisier	7	2	1088							
Date	Time		Sample Idenitification	Matrix	Preserv	Type	Total Chlorine					Commente	
51/5219	0817	Filter ESG	Filter Edflunt chloramies Site#3	% ○	NA	G H	1	×				1 plushe Rights	1 2 H
													1
	,										_		
													T
Preservatives: (5) H2S	(1) Na ₂ S ₂ O ₃ O4 (6) Na ₂ SC	Preservatives: (1) Na ₅ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI (5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:	3 (4) NH4CI ther:	2	latrix: DW	/-Drinking	Water, WI Type- 1	N-Waste -Routine,	iter, WW-Waste Water, SW-Storm Water, GW- Ground Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special	m Water, GV ∍placement,	V- Ground Wa 4-Special	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, W-Well D-Dist. Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special	
Reling	Relinquished By (Sign)	(Sign)	Print Name / Company			Date / Time	Time		Race	Raceived By (Sign)	(už		
ブル	M		Edward Mylivia		197/9	An]	121	7	125 LL	1890	3 annate	Maparo 100	51213
Ship	Glass	3110	City of Lomita 7. Marsans / ecsts		197/9	18/15	385	1	A A			1100	T
Comments:					> -	Samples	Samples received: (YOn let	<u>:</u>	\Z'	_ { <u>t</u>	l _	Custody seals Temp 12	
Shipped Via			Fed X Golden State UPS	S Client	i	1 Other				F (G C	I of I		
)	1 1, 1		7



07 July 2015 Clinical Lab No.: 15F2203

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

Project Name: Standard Analysis

Sub Project: CWPF Weekly Compliance Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 06/24/15 . Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

Stu Styles

Client Services Manager

tistes



Lomita, City ofProjectStandard AnalysisWork Order:15F220324373 Walnut AvenueSub Project:CWPF Weekly Compliance AnalysisReceived:06/24/15 17:15Lomita CA, 91717Project Manager:Mark AndersenReported:07/07/15

Filter Effluent Site (Chloramine) #3		15F2203-0	1 (Water)		Sample Dat	te: 06/24/15	10:02 Sa	ampler: Edward I	Ouvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch Quali	fier
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	06/24/15	06/24/15	1526412	
<u>Metals</u>									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	07/02/15	07/02/15	1527507	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	07/02/15	07/02/15	1527507	
Reservoir Effluent Site #5		15F2203-0	2 (Water)		Sample Dat	te: 06/24/15	9:57 S a	ampler: Edward I	Ouvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch Quali	fier
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	700	5.0	1000	mg/L	06/26/15	06/29/15	1526473	
ND Analyte NOT DETECTED at or above	e the reporting limi	t							



Analytical Laboratory Service - Since 1964

Certificate of Analysis

Report Date: 07/02/15 16:20 Received Date: 06/26/15 10:37 Turnaround Time: 5 workdays

Phones: (909) 825-7693 **Fax:** (909) 825-7696

P.O. #:

Project: 15F2203

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 6/26/2015 with the Chain of Custody document. The samples were received in good condition, at 4.1 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5F26034-01	Sample I	ID: F	Reservoir E	ffluent Site	#5 / 15	F2203-02			Ma	trix: Water
Sampled by: Client	Sampled	l: 06/24/	15 09:57							
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.83		0.010	ma/l	1	RSK-175	7/1/15	7/1/15 14:21	W5G0051	



Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Blank (W5G0051-BLK1)					Prepared: 07	/01/15 A	nalyzed: 07/0	L/15 13:49	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W5G0051-BS1)					Prepared: 07	/01/15 A	nalyzed: 07/0	l/15 14:11	
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		
Calibration Check (W5G0051-CCV1)					Prepared: 07	/01/15 A	nalyzed: 07/0	L/15 14:00	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00707		mg/l	0.00792	89	50-150		
Calibration Check (W5G0051-CCV2)					Prepared: 07	/01/15 A	nalyzed: 07/0	L/15 13:38	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.184		mg/l	0.198	93	85-115		
Duplicate (W5G0051-DUP1)	s	ource: 5F26034	-01		Prepared: 07	/01/15 A	nalyzed: 07/0	L/15 14:32	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.000	0.782		mg/l				6	20

5F26034 Page 2 of 3



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 Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method

Detection Limit (MDL).

Sub Subcontracted analysis, original report enclosed.

DL Method Detection Limit
RL Method Reporting Limit
MDA Minimum Detectable Activity

NR Not Reportable

5F26034 Page 3 of 3

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15F2203

5F26034

SENDING LABORATORY:	RECEIVING LABORATORY:
Clinical Laboratory of San Bernardino 21881 Barton Road Grand Terrace, CA 92313 Phone: 909.825.7693 Fax: 909.825.7696 Project Manager: Stu Styles	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	odes provided [] Yes [No only [] Yes [] No
Analysis	Comments
Sample ID: Reservoir Effluent Site #5 / 15F2203-02	Sampled: 06/24/15 09:57 PS Code: Water WTX ID: UCMR ID:
Methane RSK175 Containers Supplied: 40mL Amber Vial HCl (B) 40mL Amber Vial HCl (C)	Report in mg/L

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

"Your Water and Wastewater Analysis Solution"



19 June 2015 Clinical Lab No.: 15F1082

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

Project Name: Standard Analysis

Sub Project: CWPF Weekly Compliance Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 06/10/15 . 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 ofProjectStandard AnalysisWork Order:15F108224373 Walnut AvenueSub Project:CWPF Weekly Compliance AnalysisReceived:06/10/15 16:00Lomita CA, 91717Project Manager:Mark AndersenReported:06/19/15

Filter Effluent Site (Chloramine) #3		15F1082-0	01 (Water)		Sample Dat	te: 06/10/15	11:30 S a	ampler: Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch Qualifier
General Physical Analyses								
Apparent Color	SM 2120B	ND	3.0	15	Color Units	06/10/15	06/10/15	1524476
<u>Metals</u>								
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	06/12/15	06/12/15	1524542
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	06/12/15	06/12/15	1524542
Reservoir Effluent Site #5		15F1082-0	02 (Water)		Sample Dat	te: 06/10/15	8:52 S a	ampler: Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch Qualifier
General Chemical Analyses								
Total Filterable Residue/TDS	SM 2540C	680	5.0	1000	mg/L	06/12/15	06/15/15	1524539
ND Analyte NOT DETECTED at or above	the reporting limi	t						

Analytical Laboratory Service - Since 1964

Certificate of Analysis

Report Date: 06/19/15 11:23
Received Date: 06/12/15 11:26
Turnaround Time: 5 workdays

Phones: (909) 825-7693 **Fax:** (909) 825-7696

P.O. #:

Project: 15F1082

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 6/12/2015 with the Chain of Custody document. The samples were received in good condition, at 5.3 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5F12044-01	Sample	ID: F	Reservoir E	ffluent Site	#5 / 15	F1082-02			Ma	atrix: Water
Sampled by: Client	Sampled	I: 06/10/	15 08:52							
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	13		0.010	ma/l	1	RSK-175	6/16/15	6/16/15 15:36	W5F0901	



Analytical Laboratory Service - Since 1964

Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Blank (W5F0901-BLK1)					Prepared: 06	/16/15 Ana	alyzed: 06/16	6/15 15:04	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W5F0901-BS1)					Prepared: 06	/16/15 Ana	alyzed: 06/16	6/15 15:26	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.223		mg/l	0.198	113	85-115		
Calibration Check (W5F0901-CCV1)					Prepared: 06	/16/15 Ana	alyzed: 06/16	6/15 15:15	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00675		mg/l	0.00792	85	0-200		
Calibration Check (W5F0901-CCV2)					Prepared: 06	/16/15 Ana	alyzed: 06/16	6/15 14:53	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.180		mg/l	0.198	91	0-200		
Duplicate (W5F0901-DUP1)	5	Source: 5F12044	-01		Prepared: 06	/16/15 Ana	alyzed: 06/16	6/15 15:47	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	1 27	1.32		mg/l				4	20



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 Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method

Detection Limit (MDL).

Subcontracted analysis, original report enclosed. Sub

DL Method Detection Limit RL Method Reporting Limit MDA Minimum Detectable Activity

NR Not Reportable

5F12044 Page 3 of 3

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15F1082

SENDING LABORATORY:

RECEIVING LABORATORY:

5F12044

Clinical Laboratory of San Bernardino 21881 Barton Road Grand Terrace, CA 92313 Phone: 909.825.7693 Fax: 909.825.7696 Project Manager: Stu Styles	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 [] glenney@clinical-la California EDT transfer those samples with PS co Transfer File requested; log in with Element ID o UCMR 3 CDX Transfer	odes provided [] Yes [v] No
Turn Around Time [] 10 Days [\sqrt{5 Days} [] Subcontract Comments:	Other Days
Analysis	Comments
Sample ID: Reservoir Effluent Site #5 / 15F1082-02	Sampled: 06/10/15 08:52 PS Code: Water WTX ID: UCMR 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 Bate / Time Bate / Time Date / Time

15F1082 \$ 11/23=33

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,	•									Comments / P.S. Codes	W13-005	W13-005	144	1				1 Solt 8 10001) 2 2 2 3 3 3 3 3	- Vi () - 7.5.				Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D. Diet	Print Name / Company		L. Maler Ces	Custody seals	
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1			2							Total Chlorine													Water W	Soutine, 2-F		350	00/	Samples received:	
umber	0100	1910073	Destination Laboratory	[X] Clinical Laboratory	CDWR Compliance	YES	ELAP#	000	200	Preserv	된	N/A		N/A				N/N	HCL		N/A			Type- 1-Routine,	Date / Ti		15/16	Sa	
stem Number	707	191	Destination	[X] Clinica	CDWR C	,	E	7	=	Type	1.W	MI		1W				0	Œ				Matrix:			131/9	7.00-9		-
Sy		_	7						,	Matrix	DW	DW		DW				DW	DW		DW			•	, r	\			
City of Lomita	24373 Walnut Avenue	Lomita, CA 91717	(310) 325-9830	(310) 325-3627	Standard Analysis	CWPF Weekly Compliance Analysis			A During	Sample Idenitification	Raw Water Site #1	Raw Water Site #1		Filter Effluent Site (Chloramine) #3				Reservoir Effluent Site #5	Reservoir Effluent Site #5		Zone #2 Site #6	•	HCI (3) HNO3 (4) NH4CI		Print Name / Company	Eller of Na Vivin	City of Lomita	J.m.evo / cuso	
	24					CWPF II			= church				_	\perp									(1) Na ₃ S ₂ O ₃ (2) HCl (3) HNO ₃	(6) Na2SO3 (7	Relinguished By (Sign)	1	X		
	S		#			piect		ents	d by	Time				130				O 580	5230				ives:	H2S04	uisha	1/V			
Client	Address		Phone #	Fax#	Project	Sub Project		Comments	Sampled by	Date				6-10-15				6-10-15	6-10-15				Preservatives:	(2)	Reging	17		Coorments	

"Your Water and Wastewater Analysis Solution"



26 June 2015 Clinical Lab No.: 15F1630

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

Project Name: Standard Analysis

Sub Project: CWPF Weekly Compliance Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 06/17/15 . 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 ofProjectStandard AnalysisWork Order:15F163024373 Walnut AvenueSub Project:CWPF Weekly Compliance AnalysisReceived:06/17/15 16:15Lomita CA, 91717Project Manager:Mark AndersenReported:06/26/15

Filter Effluent Site (Chloramine) #3		15F1630-0	01 (Water)		Sample Date	te: 06/17/15	10:50 Sa	ampler: Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch Qualifier
General Physical Analyses								
Apparent Color	SM 2120B	ND	3.0	15	Color Units	06/17/15	06/17/15	1525446
<u>Metals</u>								
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	06/22/15	06/22/15	1526031
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	06/22/15	06/22/15	1526031
Reservoir Effluent Site #5		15F1630-0	02 (Water)		Sample Date	te: 06/17/15	10:58 S a	ampler: Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch Qualifier
General Chemical Analyses								
Total Filterable Residue/TDS	SM 2540C	670	5.0	1000	mg/L	06/18/15	06/22/15	1525432
ND Analyte NOT DETECTED at or above	e the reporting limi	t						





Report Date: 06/29/15 09:41 Received Date: 06/19/15 10:10 Turnaround Time: 5 workdays

Phones: (909) 825-7693 **Fax:** (909) 825-7696

P.O. #:

Project: 15F1630

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 6/19/2015 with the Chain of Custody document. The samples were received in good condition, at 4.7 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5F19009-01 Sampled by: Client	Sample I Sampled		Reservoir E /15 10:58	ffluent Site	#5 / 15	F1630-02			Ма	ıtrix: Water
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Ethene	ND		0.010	mg/l	1	RSK-175	6/23/15	6/23/15 22:19	W5F1376	
Methane	0.81		0.010	mg/l	1	RSK-175	6/23/15	6/23/15 22:19	W5F1376	

5F19009 Page 1 of 3



Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Blank (W5F1376-BLK1)					Prepared: 06	/23/15 A	nalyzed: 06/2	3/15 17:42	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
Ethene		ND		mg/l					
Blank (W5F1376-BLK2)					Prepared: 06	/23/15 A	nalyzed: 06/2	5/15 14:51	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPC Limi
Ethane		ND		mg/l					
LCS (W5F1376-BS1)					Prepared: 06	/23/15 A	nalyzed: 06/2	3/15 18:03	
Anglyto	Sample	QC	Qualifier	Units	Spike	%REC	%REC	RPD	RPE
Analyte	Result	Result	Qualifier	Units	Level		Limits	KFD	Limi
Methane		0.197		mg/l	0.198	100	85-115		
Ethene		0.537		mg/l	0.560	96	85-115		
.CS (W5F1376-BS2)					-	/23/15 A	nalyzed: 06/2	5/15 15:12	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPI Lim
Ethane		0.568		mg/l	0.660	86	85-115		
Calibration Check (W5F1376-CCV1)					Prepared: 06	/23/15 A	nalyzed: 06/2	3/15 17:53	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPI Lim
Methane		0.00690		mg/l	0.00792	87	50-150		
Ethene		0.00362		mg/l	0.00560	65	50-150		
Calibration Check (W5F1376-CCV2)					Prepared: 06	/23/15 A	nalyzed: 06/2	3/15 17:31	
Analyta	Sample	QC	Qualifier	Units	Spike	%REC	%REC	RPD	RPI
Analyte	Result	Result	Qualifier	Units	Level	%REC	Limits	RPD	Lim
Methane		0.222		mg/l	0.198	112	85-115		
Ethene		0.595		mg/l	0.560	106	85-115		
Calibration Check (W5F1376-CCV3)					Prepared: 06	/23/15 A	nalyzed: 06/2	5/15 15:02	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPI Lim
Ethane		0.0114	Q-08	mg/l	0.00660	172	50-150		LIIII
Calibration Check (W5F1376-CCV4)		0.0114		g	Prepared: 06		nalyzed: 06/2!	5/15 14:40	
,	Sample	QC			Spike	•	%REC		RPI
Analyte	Result	Result	Qualifier	Units	Level	%REC	Limits	RPD	Lim
Ethane		0.692		mg/l	0.660	105	85-115		
Duplicate (W5F1376-DUP1)	So	ource: 5F22082	-01		Prepared: 06	/23/15 A	nalyzed: 06/2	3/15 22:41	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPI Limi
Methane		0.0261	Q-ME	mg/l				21	20
Ethane	ND	ND		mg/l					
Ethene	ND	ND		mg/l					

5F19009 Page 2 of 3



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:

Q-08 High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit.

Q-ME Acceptable QC with marginal exceedance

ND NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method

Detection Limit (MDL).

Sub Subcontracted analysis, original report enclosed.

DL Method Detection Limit
RL Method Reporting Limit
MDA Minimum Detectable Activity

NR Not Reportable

5F19009 Page 3 of 3

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15F1630

RECEIVING LABORATORY:

SENDING LABORATORY:		RECEIVING LABORA	ATORY:
Clinical Laboratory of San 21881 Barton Road Grand Terrace, CA 92313 Phone: 909.825.7693 Fax: 909.825.7696 Project Manager: Stu Style		Weck Lab, Analytical Analytical & Environm Industry, CA 91745 Phone:(626) 336-2139 Fax: (626) 336-2634	nental Svc 14859 E Clark Ave
Please email results to Proj			
[] glaubig@clinical-lab.co		.com [v styles@clinical-lab.co	om
	sfer those samples with PS cou sted; log in with Element ID on asfer	1	
Turn Around Time [] Subcontract Comments:] 10 Days [v 5 Days []	Other Days	
Analysis			Comments
Sample ID: Reservoir Efflue	ent Site #5 / 15F1630-02	Sampled: 06/17/15 10:58 PS Co Water	ode: WTX ID: UCMR ID:
Methane RSK175			Report in mg/L
Containers Supplied: 40mL Amber Vial HCl (B)	40mL Amber Vial HCL(C)		
TOMEST THE TEXT (D)	TOTAL TRANSPORT		· · · · · · · · · · · · · · · · · · ·
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Be My	06 /18 /15	Jamalimer	celialis 10:10 4.72
Released By	Date / Time	Received By	Date / Time
Released By	Date / Time	Received By	Date / Time

 $\begin{array}{c|c} O & 1 & 3 \\ \hline Chain of Custody \end{array}$

1SF 1630

Clinical Laboratory of San Bernardino, Inc.

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			City of Lomita	Š	System Number	nmper		Anal	Analysis	Rednested	este	اچ			
Address	SS	24.	24373 Walnut Avenue		107	1010072								1	•
		1	Lomita, CA 91717		. 5	200				-			Met	Met	
Phone #	#		(310) 325-9830	Ď	estinatic	Destination Laboratory	,ory						thar	han	
Fax #			(310) 325-3627	1	K] Clinic	[X] Clinical Laboratory	ory						1e ('	e (
Project	it	7	Standard Analysis		CDWR C	CDWR Compliance	0	I					WA	AIR	
Sub Project	roject	CWPFW	CWPF Wookly Compliance Analysis			YES		ron	gan	e- Oi	1s- T	olor	TEI	R) (A	
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Comments	ents				7	000							(RS	ΜI	
Sampled by	ed by	Echoas	a. 1 / 1, 1, 1, 12.		_	1000							K17	D19 4	
Date	Time	San	Sample Idenitification	Matrix	Type	Preserv	Total Chlorine						5)	6)	Comments / P.S. Codes
		. 7	Raw Water Site #1	DW	1.W	HCL				_					W13-005
			Raw Water Site #1	DW	1W	N/A									W13-005
6117	185C	Filter Ef	Filter Effluent Site (Chloramine) #3	DW	1W	N/A		×	X			×			E13-005A 2 Bottle 5
0/17	1057	Res	Reservoir Effluent Site #5	DW	1.W	V/N				×					1 Bothe shared
6/17	1058	Res	Reservoir Effluent Site #5	DW	1W	нсг					-		×		2 vials
,			Zone #2 Site #6	DW	1W	N/A									
			,												
Preserv	atives: (1	1) Na ₂ S ₂ O ₃ (2)	Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI		Matrix:	DW-Drink		WW-W	Vaste	Water,	SW-	Storm	Wate	r, GM	GW- Ground Water, A-Air
<u>c</u>	HZSO4 ((b) Na25O3 (1)	(5) H2504 (6) Na25U3 (7) Cold (8) Other:			lype- I	iype- i-kouille, z	-vept	edt, 3-	repiat	errer	7, 4-3	реста		z-repeat, 3-replacement, 4-Special W-Well D-DISt.
Relin	quished	Relinguished By (Sign)	Print Name / Company	7		Date / Time	Time			Regen	eive B	By (Sign)	(uš		Print Name / Company
J.	V DA	استغد	Edward Auriora		1.9	11/12	1154		X	116	111				J. LUCENO/CISB
7	No.	4	City of Lomita	9	, , ,	7-15/	4.15			7	H	1	N		H HUN Lun
Comments	nents:	<u>.</u>	o (organo) o	20)	<u>\</u>	Samples received:	eceiv	cd: X	W-	5.0% 7.0%	(A)	JInt) F	Intact	() Custody scals
Shipped Via	Via		[] Fed X Golden State	I I UPS	l Sd	Client	[] Other				1			1	Page_1_ of_1_

"Your Water and Wastewater Analysis Solution"



19 June 2015 Clinical Lab No.: 15F1090

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

Project Name: Standard Analysis

Sub Project: CWPF Weekly Non-Comp Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 06/10/15 . Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

Stu Styles

Client Services Manager



Lomita, City ofProject:Standard AnalysisWork Order:15F109024373 Walnut AvenueSub Project:CWPF Weekly Non-Comp AnalysisReceived:06/10/15 16:00Lomita CA, 91717Project Manager:Mark AndersenReported:06/19/15

Filter Effluent Site #3		15F1090-0	01 (Water)		Sample Da	ate: 06/09/15	10:05 S	ampler: Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch Qualifier
General Physical Analyses								
Apparent Color	SM 2120B	ND	3.0	15	Color Units	06/10/15	06/10/15	1524476
Reservoir Effluent Site #5		15F1090-0	02 (Water)		Sample Da	ate: 06/10/15	8:50 S	ampler: Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch Qualifier
General Chemical Analyses								
Hardness, Total (as CaCO3)	Calculated	330	6.6	N/A	mg/L	06/17/15	06/17/15	[CALC]
Ortho-Phosphate (as P)	HACH 8048	0.16	0.0067	N/A	mg/L	06/11/15	06/11/15	1524502
Phosphorus (Total as P)	HACH 8190	0.45	0.0067	N/A	mg/L	06/11/15	06/11/15	1524408
<u>Metals</u>								
Calcium (Ca)	EPA 200.7	88	1.0	N/A	mg/L	06/17/15	06/17/15	1525208
Magnesium (Mg)	EPA 200.7	28	1.0	N/A	mg/L	06/17/15	06/17/15	1525208
ND A I. d. NOT DETECTED -4 -								

							0	A	5	事/见/	N	1	
Clinical 1	Clinical Laboratory of San Bernardino,	o, Inc.			SF. (09c	5						O	Chain of Custody
Client	City of Lomita	Sy	stem N	System Number		Analysis	sis R	Requested	sted				
Address	24373 Walnut Avenue	, i	101	1010072							 	 - 	
	Lomita, CA 91717		0				T					 Met	
Phone #	(310) 325-9830	9	estinatio	Destination Laboratory	, co			Ph	Pho			han	
Fax#	(310) 325-3627	d	X] Clinic	[X] Clinical Laboratory	tory			osp	ospl			e (5.4
Project	Standard Analysis		CDHP C	CDHP Compliance				hate	ıoru			AIR	
Sub Project	CWPF Weekly Non-Comp. Analysis		Ī	No ELAP#		lkalin	olved ess (as	- Orth	s- Tot	4 0 1	ΓER)) (AS]	
Comments			7	000				o as	al as				
Sampled by	Flour A.V.V.			1088				P	P			D194	
Date Time	Sample Idenitification	Matrix	Type	Preserv	Total Chlorine							16)	Comments / P.S. Codes
				•									,
۸	Raw Water Site #1	DW	1W	N/A		1	+			1		\top	
G-9-15 100S	Filter Effluent Site #3	DW	4 W	N/A	١					X			BUSSIUM VIBISSI
	Reservoir Influent Site #4	DW	1W	N/A			\vdash						
C10-15 08:50	Reservoir Effluent Site #5	DW	10	N/A	1		×	×	×		$\dagger \dagger$	$\dagger\dagger$	I Co. Sime Unplassion
	Zone #2 Site #6	DW	1W	N/N			-					\top	
						\prod					ff	$\dagger\dagger$	
							-						
Preservatives: (1) (5) H2SO4 (6)	rvatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI (5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:		Matrix:	DW-Drink Type-	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special	WW-W	WW-Waste Water, SW-Storm Water, 2-Repeat, 3-Replacement, 4-Special	ater, Splace	W-St	4-Spe	ater,	K-W	GW- Ground Water, A-Air W-Well D- Dist.
Relinquished By (Sign)	Print Name	<i>y</i>		6	Time				B	By (Sign)			Print Name & Company
Z Man	MI Edward Dillivio		01:9	101/5/	4,00			3/2	38			1	Sob Glash, / CLFB
Comments 7	7 TAT		3		Samples received:	eceiv	Temp	32	ise S	Z~	Intact F	χ_{z}	Custody sea
Shipped Via	[] Fed X [] Golden State	-	l VPS [] Client	[] Other								Page_1_ of_1_
												,	

"Your Water and Wastewater Analysis Solution"



12 June 2015 Clinical Lab No.: 15F0470

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

Project Name: Standard Analysis

Sub Project: CWPF Weekly Compliance Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 06/03/15 . Samples were received within temperature range, in correct containers and preservation.

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

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

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

Sincerely,

Stu Styles

Client Services Manager



Lomita, City ofProject:Standard AnalysisWork Order:15F047024373 Walnut AvenueSub Project:CWPF Weekly Compliance AnalysisReceived:06/03/15 17:00Lomita CA, 91717Project Manager:Mark AndersenReported:06/12/15

Raw Water Site #1		15F0470-0	01 (Water)		Sample Date	e: 06/03/15	7:58	Sampler:	Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	l Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	0		N/A	mg/L	06/03/15	06/03/15	1523530)
Microbiology Analyses									
Total Coliform (Density)	SM 9223	ND	1.0	N/A	MPN/100 mL	06/03/15	06/04/15	1523495	5
E. Coli (Density)	SM 9223	ND	1.0	N/A	MPN/100 mL	06/03/15	06/04/15	1523495	5
General Physical Analyses									
Apparent Color	SM 2120B	10.0	3.0	15	Color Units	06/04/15	06/04/15	1523576	5
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	700	5.0	1000	mg/L	06/04/15	06/05/15	1523415	5
Metals									
Iron (Fe)	EPA 200.7	230	100	300	ug/L	06/09/15	06/09/15	1524121	İ
Manganese (Mn)	EPA 200.7	110	20	50	ug/L	06/09/15	06/09/15	1524121	I
Filter Effluent Site (Chloramine) #3		15F0470-0	02 (Water)		Sample Date	e: 06/03/15	7:36	Sampler:	Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	l Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	7.84		N/A	mg/L	06/03/15	06/03/15	1523530)
Metals									
Iron (Fe)	EPA 200.7	430	100	300	ug/L	06/09/15	06/09/15	1524121	I
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	06/09/15	06/09/15	1524121	I
Filter Effluent (Free Chlorine) Site #2		15F0470-0	03 (Water)		Sample Date	e: 06/03/15	7:42	Sampler:	Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	l Batch	Qualifier
Field Analyses									
Cl Res Free (Field)	Field	8.56		N/A	mg/L	06/03/15	06/03/15	1523534	1
Microbiology Analyses									
Total Coliform	SM 9223	A		N/A	P/A	06/03/15	06/04/15	1523493	3
E. Coli	SM 9223	A		N/A	P/A	06/03/15	06/04/15	1523493	3
Plate Count	SM9215B	ND	1	500	CFU/ml	06/03/15	06/05/15	1523613	3 HT-08



Lomita, City ofProjectStandard AnalysisWork Order:15F047024373 Walnut AvenueSub Project:CWPF Weekly Compliance AnalysisReceived:06/03/15 17:00Lomita CA, 91717Project Manager:Mark AndersenReported:06/12/15

Reservoir Effluent Site #5		15F0470-0	04 (Water)		Sample Dat	te: 06/03/15	7:50 Sa	mpler: Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch Qualifier
Field Analyses								
Cl Res Total (Field)	Field	3.82		N/A	mg/L	06/03/15	06/03/15	1523530
General Physical Analyses								
Apparent Color	SM 2120B	ND	3.0	15	Color Units	06/03/15	06/03/15	1523502
Odor Threshold	EPA 140.1M	1	1	3	TON	06/03/15	06/03/15	1523502
General Chemical Analyses								
Total Filterable Residue/TDS	SM 2540C	690	5.0	1000	mg/L	06/04/15	06/05/15	1523415
Zone #2 Site #6		15F0470-0	05 (Water)		Sample Date	te: 06/03/15	7:29 Sa	mpler: Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch Qualifier
General Chemical Analyses								
Total Filterable Residue/TDS	SM 2540C	660	5.0	1000	mg/L	06/04/15	06/05/15	1523415

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

EDT Transfer Confirmation 1



Work Order: 15F0470 Report Date: 06/12/2015

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

LOMITA-CITY, WATER DEPT.		User ID: 4TH	Syst	em: 1910	0073
WELL 05	Sta	ation No.: 1910073-	-003	Samp	led: 150603 07:58
COLOR	Result: 10.0	Units: UNITS	Entry No.:	00081	Analyzed: 150604
IRON	Result: 230	Units: UG/L	Entry No.:	01045	Analyzed: 150609
MANGANESE	Result: 110	Units: UG/L	Entry No.:	01055	Analyzed: 150609
TOTAL DISSOLVED SOLIDS	Result: 700	Units: MG/L	Entry No.:	70300	Analyzed: 150605
MWD CONNECTION WB-8A & WB-8B/TREAT	ΓED Sta	ation No.: 1910073-	-005	Samp	led: 150603 07:29
TOTAL DISSOLVED SOLIDS	Result: 660	Units: MG/L	Entry No.:	70300	Analyzed: 150605
WELL 05 TREATMENT PLANT EFFLUENT	Sta	ation No.: 1910073-	-006	Samp	led: 150603 07:36
IRON	Result: 430	Units: UG/L	Entry No.:	01045	Analyzed: 150609
MANGANESE	Result: ND	Units: UG/L	Entry No.:	01055	Analyzed: 150609



Report Date: 06/12/15 15:57 Received Date: 06/05/15 08:50 Turnaround Time: 5 workdays

> Phones: (909) 825-7693 Fax: (909) 825-7696

> > P.O. #:

Project: 15F0470

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 6/5/2015 with the Chain of Custody document. The samples were received in good condition, at 5.5 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5F05005-01 Sampled by: Client	Sample I Sampled		Raw Water /15 07:58	Site #1/ 15I	- 0470-01				Ма	trix: Water
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	6.1		0.20	mg/l	20	RSK-175	6/5/15	6/5/15 14:11	W5F0341	
Lab ID: 5F05005-02	Sample I	D:	Reservoir E	Effluent Site	#5/ 15F	0470-04			Ma	ıtrix: Water
Sampled by: Client	Sampled	: 06/03	/15 07:50							
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier

5F05005 Page 1 of 3





Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Blank (W5F0341-BLK1)					Prepared: 06/	05/15 Ana	alyzed: 06/05	5/15 13:39	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W5F0341-BS1)					Prepared: 06/	05/15 Ana	alyzed: 06/05	5/15 14:00	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.211		mg/l	0.198	106	85-115		
Calibration Check (W5F0341-CCV1)					Prepared: 06/	05/15 Ana	alyzed: 06/05	5/15 13:49	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPC Limi
Methane		0.00745		mg/l	0.00792	94	50-150		
Calibration Check (W5F0341-CCV2)					Prepared: 06/	05/15 Ana	alyzed: 06/05	5/15 13:28	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPC Limi
Methane		0.211		mg/l	0.198	106	85-115		
Duplicate (W5F0341-DUP1)	s	ource: 5F05005	-02		Prepared: 06/	05/15 Ana	alyzed: 06/05	5/15 14:42	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
		•	•		•				

5F05005 Page 2 of 3





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 Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method

Detection Limit (MDL).

Sub Subcontracted analysis, original report enclosed.

DL Method Detection Limit
RL Method Reporting Limit
MDA Minimum Detectable Activity

NR Not Reportable

5F05005

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino 15F0470

SENDING LABORATORY:	<u>RECEIVING LABORATORY:</u>	
Clinical Laboratory of San Bernardino 21881 Barton Road Grand Terrace, CA 92313 Phone: 909.825.7693 Fax: 909.825.7696 Project Manager: Stu Styles	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 [] glenney@clinical-lab.com California EDT transfer those samples with PS cod Transfer File requested; log in with Element ID onl UCMR 3 CDX Transfer	les provided [] Yes [🗸 No	
Turn Around Time [] 10 Days [5 Days [] 6 Subcontract Comments:	Other Days	
Analysis	Comments	
	Comments Sampled: 06/03/15 07:58 PS Code: 1910073-003 Water WTX ID: UCMR ID:	· · · · · ·
Analysis Sample ID: Raw Water Site #1 / 15F0470-01 Methane RSK175	Sampled: 06/03/15 07:58 PS Code: 1910073-003 Water WTX ID:	
Analysis Sample ID: Raw Water Site #1 / 15F0470-01 Methane RSK175 Containers Supplied:	Sampled: 06/03/15 07:58 PS Code: 1910073-003 Water WTX ID: UCMR ID:	
Analysis Sample ID: Raw Water Site #1 / 15F0470-01 Methane RSK175	Sampled: 06/03/15 07:58 PS Code: 1910073-003 Water WTX ID: UCMR ID:	
Analysis Sample ID: Raw Water Site #1 / 15F0470-01 Methane RSK175 Containers Supplied: 40mL Amber Vial w/ Na2!	Sampled: 06/03/15 07:58 PS Code: 1910073-003 Water WTX ID: UCMR ID: Report in mg/L Sampled: 06/03/15 07:50 PS Code: Water WTX ID:	
Analysis Sample ID: Raw Water Site #1 / 15F0470-01 Methane RSK175 Containers Supplied: 40mL Amber Vial w/ Na25 Sample ID: Reservoir Effluent Site #5 / 15F0470-04	Sampled: 06/03/15 07:58 PS Code: 1910073-003 Water WTX ID: UCMR ID: Report in mg/L Sampled: 06/03/15 07:50 PS Code: Water WTX ID: UCMR ID:	

577

06/04/K 13:00 Date/Time

6.5.15 Date / Time

San Bernardino Inc

Clinical Laboratory of San Bernardino, Inc.

2/1/4 1SF0470 Chain of Custody

Client		City of Lomita	System Number				An	alysi	s Re	eque	stec	<u>1</u>			10-1	
Addres	ss	24373 Walnut Avenue		101	10073)										
		Lomita, CA 91717		15	10073	·							Met	1		
Phone	#	(310) 325-9830	E	estinatio)	on Labora	tory			To	177	15.		har	H		
Fax #		(310) 325-3627	ı	X] Clinic	al Labora	tory	,	_	tal 1	-	₹.		Te (7		
Projec	t	Standard Analysis		CDWR Compliance		L.	lan	Diss	61:	8	0	WA.	L.			
Sub Pr	oject	CWPF Weekly ComplianceAnalysis	YES ELAP #		Iron	Manganese	Total Dissolved Solids	=	Char	Color	Methane (WATER) (ode				
Comm	ents		4000				olid		, 3°		RS	6				
Sample	ed by	Edward Duviver]	1088				S				(RSK175)	'			
Date	Time	Sample Idenitification	Matrix	Туре	Preserv	Total Chlorine							5)		Comments / P.S. Codes	
G-3-15	0758	Raw Water Site #1	GW	1W	HCL	Q rg/L							X		W13-005	
6-3-15	0749	Raw Water Site #1	GW	1W	N/A	Orig/L	X	X	X			X			W13-005	
6-3-15	0740	Raw Water Site #1	GW	IW	1,7	Om3/m				X	X					
6-3-15	0736	Filter Effluent Site (Chloramine) #3	DW	1W	N/A	7.84	X	X				X	(1)		E13-005A	
G-3-15	0742	Filter ESfluent Site (Greechbrine) #2	Dw	IW	1,7	8.56					X			_1	Hetrophic Plate Cont CA	PC)
6.3-15	0749	Reservoir Effluent Site #5	DW	iD	N/A	3.82			х							be 6/3/12
6-3-15	0738	Reservoir Effluent Site #5	DW	10	HCL	3.82							X			0
6-3-15	0750	Reservoir Essimant cite It									<u> </u>	X		X	SAIT W	† ·
6-3-15	0729	Zone #2 Site #6	DW	10	N/A				X						0111	
		(1) Color bottle not received; no Color analysis performed														
	tives: (1)) Na ₂ S ₂ O ₃ (2) HCl (3) HNO3 (4) NH4Cl 6) Na ₂ SO3 (7) Cold (8) Other:		Matrix:		•	er, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air e, 2-Repeat, 3-Replacement, 4-Special W-Well D- Dist.						-			
Relina	quished 1	By (Sign) Print Name / Compan	y		Date / [Time			Re	caive	ed By	(Sig	n)		Print Name / Gompany	
ELL	a Dun	Edward DuVNi	() A			11:30		Z	WX.	W	h				J.M(410)(C(1))	
	JAK	La S. Luces of Lomita		6.3		5:00	((_						
Comm	ents	2. hacet almos			/ S	Samples r	ecei			On			Int:) F		() Custody seals	
Shipped	Via	[] Fed X [] Golden State	; [] <i>U</i>	/PS [] Client	[] Other				4 16	ð			d'a	Page _1_ of _1_	

Appendix B

Methane Monitoring Log



CITY OF LOMITA PUBLIC WORKS DEPARTMENT

CYPRESS WATER PRODUCTION FACILITY HANDHELD METHANE LOG READINGS

			JUNE 2015	5
DATE	TIME	METHANE	HANDHELD	COMMENTS
6/1/2015	3:00 PM	CH4- 0%	Oxy- 19.8%	
6/2/2015	3:20 PM	CH4- 2%	Oxy- 19.7%	
6/3/2015	3:00 PM	CH4- 0%	Oxy- 20.0%	
6/4/2015	12:00 PM	CH4- 0%	Oxy- 20.0%	
6/5/2015				
6/6/2015				
6/7/2015				
6/8/2015	2:20 PM	CH4- 1%	Oxy- 19.8%	
6/9/2015	2:15 PM	CH4- 0%	Oxy- 19.7%	
6/10/2015		CH4- 0%	Oxy- 20.0%	
6/11/2015	3:30 PM	CH4- 0%	Oxy- 20.0%	
6/12/2015	11:35 AM	CH4- 0%	Oxy- 19.7%	
6/13/2015				
6/14/2015				
6/15/2015	3:00 PM	CH4- 0%	Oxy- 19.9%	
6/16/2015		CH4- 1%	Oxy- 19.7%	
6/17/2015		CH4- 0%	Oxy- 19.8%	
6/18/2015	3:30 PM	CH4- 0%	Oxy- 19.8%	
6/19/2015				
6/20/2015				
6/21/2015				
6/22/2015			Oxy- 19.7%	
6/23/2015	1:25 PM	CH4- 0%	Oxy- 19.7%	
6/24/2015	3:15 PM	CH4- 0%	Oxy- 19.7%	
6/25/2015		CH4- 0%	Oxy- 19.7%	
6/26/2015	2:30 PM	CH4- 0%	Oxy- 19.7%	
6/27/2015				
6/28/2015				
6/29/2015		CH4- 0%	Oxy- 19.7%	
6/30/2015	7:00 AM	CH4- 0%	Oxy- 19.7%	

ND- Non Detect

CH4- Methane

Oxy- Oxygen

Weekend/Day Off/Holiday- Red