

CITY OF LOMITA



Cypress Water Production Facility Monthly Status Report

January 2015

CITY COUNCIL

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CITY OF LOMITA

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MICHAEL ROCK
CITY MANAGER

February 18, 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 January 1 through January 31, 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 January 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 January 2015, the CWPF operated for approximately 31 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 61.11 ac-ft (19,912,493 gallons) with a daily production of approximately 1.97 ac-ft. The total combined production from both MWD import water and Well No. 5 was approximately 109.90 ac-ft (35,809,680 gallons) for the month with a combined daily production of approximately 3.55 ac-ft. The daily average flow from Well No. 5 was 533 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 56% Well water and 44% MWD water.

Operational Interruptions

There were no major operational interruptions during the month of January 2015. Routine and preventive maintenance was performed on various pieces of equipment as-needed. No major planned operational interruption is 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 and Manganese concentrations in the raw water (SP1) were below and above the MCL, respectively. 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.

Date, week of	SP 1, Well Raw Water Discharge							SP 2, Combined Pressure Filter Effluent			SP 3, 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
1/8/2015	165	300	95.1	50	10	15	A	A	A	500	ND	300	ND	50	10	15
1/14/2015											ND	300	ND	50	5	15
1/22/2015											ND	300	ND	50	5	15
1/28/2015											ND	300	ND	50	5	15

Notes: Monthly- Orange Weekly- Yellow
 (4/5/13) - CWPF open to distribution system
 A – Absent
 ND – Non Detect
 *Per the SWRCB Drinking Water "Chemicals and Contaminants in Drinking Water" Regulations

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 the results.

Table 2. 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	Free Cl	Total Cl	MCL = 4 mg/L
1/7/2015	10.24	10.34	10.55	0.59	3.19	4
1/14/2015	6.61	5.93	5.84	1.36	2.88	4
1/22/2015	8.72	6.14	5.96	0.74	3.13	4
1/28/2015	7.90	6.91	6.81	0.94	2.88	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.

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	SP5 - Reservoir Effluent	Goal= 180 - 250 mg/L	SP1 - Raw Well Water	SP5 - Reservoir Effluent
1/7/2015	680	640	670	500-750	1	3	310	180-250	5.2	0.86
1/14/2015			700	500-750						1.1
1/21/2015			670	500-750						1.2
1/28/2015			720	500-750						0.81
Average			690							0.99

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

D. Total Dissolved Solids (TDS)

The sampling results indicate the TDS levels of the effluent blended water to be on average 690 mg/L. These levels have decreased significantly compared to historical levels ranging between 850 to 900 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 680 mg/L and 640 mg/L, respectively.

E. Hardness

The sampling results for the month of January indicate the hardness levels of the blended water to be 310 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 0.99 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 January 2015 in Appendix B.

Appendix A

Laboratory Results



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

CA State DPH Certificate #1430
County Sanitation ID #10240

January 21, 2015

Ulises Escalona
City of Lomita
24300 Narbonne Ave.
Lomita, CA 90717

RE: Workorder: E1500054 Well Monitoring / SP1 W13

Dear Ulises Escalona:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, January 08, 2015. Results reported herein conform to the most current ELAP standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me at (562)622-0437.

Sincerely,

Thant Zin Win

Chief

Enclosures

Note: All results have no blank correction unless otherwise specified

Report ID: 22588 - 705965

Page 1 of 4

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Agricultural Commissioner
Director of Weights and Measures

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11012 S. Garfield Ave.
South Gate, California 90280
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Richard K. Iizuka
Chief Deputy

SAMPLE SUMMARY

Workorder: E1500054 Well Monitoring / SP1 W13

Lab ID	Sample ID	Location	Matrix	Date Collected	Date Received
E1500054001	W13-005	W13-005 - 26112 Cypress St., (SP1)	Drinking Water	1/8/2015 12:15	1/8/2015 13:05

Collector: Edward DuVivier



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

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Richard K. Iizuka
Chief Deputy

ANALYTICAL RESULTS

Workorder: E1500054 Well Monitoring / SP1 W13

Lab ID:	E1500054001	Date Received:	1/8/2015 13:05	Matrix:	Drinking Water
Sample ID:	W13-005	Date Collected:	1/8/2015 12:15		
System Number:	1910073-003	Purpose:	Routine		
System Name:		Sample Type:	Source		
Parameters	Results Units	Report Limit	MDL	DF	Analyzed By Qual MCL
METALS, DISSOLVED					
Analysis Desc: EPA 200.8, Dissolved		Analytical Method: EPA 200.8, Dissolved			
Iron	165 ug/L	100		1	1/13/2015 12:42 GS 240
Manganese	95.1 ug/L	20.0		1	1/13/2015 12:42 GS 40
WETCHEMISTRY					
Analysis Desc: SM 2120B		Analytical Method: SM 2120B			
Color	10 Unit	5.00		1	1/8/2015 16:10 LS



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ENVIRONMENTAL TOXICOLOGY BUREAU
111012 Garfield Avenue, Bldg B, South Gate, CA 90280
Phone# (562)622-0437 Fax# (562)622-0440

PROFILE# 2201

CHAIN-OF-CUSTODY RECORD

[illegible]

021611



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
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Richard K. Iizuka
Chief Deputy

CA State DPH Certificate #1430
County Sanitation ID #10240

January 12, 2015

Ulises Escalona
City of Lomita
24300 Narbonne Ave.
Lomita, CA 90717

RE: Workorder: E1500057 Dist S13-Lomita Bacti

Dear Ulises Escalona:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, January 08, 2015. Results reported herein conform to the most current ELAP standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me at (562)622-0437.

Sincerely,

Thant Zin Win

Chief

Enclosures

Note: All results have no blank correction unless otherwise specified

Report ID: 22591 - 702348

Page 1 of 5

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11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

SAMPLE SUMMARY

Workorder: E1500057 Dist S13-Lomita Bacti

Lab ID	Sample ID	Location	Matrix	Date Collected	Date Received
E1500057001	W13-005	W13-005 - 26112 Cypress St., (SP1)	Drinking Water	1/8/2015 12:15	1/8/2015 13:05

Collector: Edward Duvivier



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

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Richard K. Iizuka
Chief Deputy

ANALYTICAL RESULTS

Workorder: E1500057 Dist S13-Lomita Bacti

Lab ID:	E1500057001	Date Received:	1/8/2015 13:05	Matrix:	Drinking Water
Sample ID:	W13-005	Date Collected:	1/8/2015 12:15		
System Number:	19-073	Purpose:	Special		
System Name:	Lomita	Sample Type:	Source		

Parameters	Results	Units	Report Limit	MDL	DF	Analyzed	By	Qual	MCL
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MICROBIOLOGY

Analysis Desc: SM 9223 COLILERT 18	Analytical Method: SM 9223 COLILERT 18
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Fecal Coliform	ABSENT		1	1/8/2015 15:30	CG
Total Coliform	ABSENT		1	1/8/2015 15:30	CG

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11012 GARFIELD AVE., BLDG. B, SOUTH GATE, CA. 90280
TEL# (562)622-0437 FAX# (562)622-0440

BACTERIOLOGICAL TEST FOR DRINKING WATER

Purveyor: Public Work/Waterworks

Address: 900 S. Fremont Ave., Alhambra

System Name: Lomita Well Bacti / SP1

Contact Person / Phone#: (626)300-3306

System Number: 1910073-003

Collector: Kerning Profile# **2039**

(T) Sample Type	(P) Purpose
1-Source 2-Distribution System	A-Routine B-Recheck C-Special D-Replacement E-Others

E1500057

Lab ID#	Smp ID#	Time Collection	Sampling Point	Cl ppm	T	P	Temp °C	Total Coliform/Colilert	Fecal Coliform Colilert	HPC cfu/mL
-001	W13-005	12:15	26112 Cypress St. (Well Head) (SP1)	X	1	C	66	ABSENT	ABSENT	X

Set-Up Time: <u>15:30</u>	Meets Holding Time (24 hrs.): <u>yes</u> <input checked="" type="checkbox"/> <u>no</u> <input type="checkbox"/>	Set-Up By: <u>cg</u>	Read Time: <u>9:30</u>	Read By: <u>cg</u>
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Reference: "Standard Methods" 20th ed., APHA, AWWA, AND WEF. Method 9223.

Date Collected: 01-08-15 Date/Time Received: 1/8/15 13:07 By: NS
Date Started: 1-8-15 Date Completed: 1-9-15

Notification Req.: Yes ☐ No ☒ Name of person Notified: _____ Date: _____ /Time: _____

Analyst: Cynthia G. 1-9-15 Date: _____ Supervisor: SX 01/09/2015 Date: _____



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

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Richard K. Iizuka
Chief Deputy

CA State DPH Certificate #1430
County Sanitation ID #10240

January 12, 2015

Ulises Escalona
City of Lomita
24300 Narbonne Ave.
Lomita, CA 90717

RE: Workorder: E1500056 Lomita Monthly Special SP2

Dear Ulises Escalona:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, January 08, 2015. Results reported herein conform to the most current ELAP standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me at (562)622-0437.

Sincerely,

Maggie Xuan

Supervising Toxicologist

Enclosures

Note: All results have no blank correction unless otherwise specified

Report ID: 22590 - 703030

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Richard K. Iizuka
Chief Deputy

SAMPLE SUMMARY

Workorder: E1500056 Lomita Monthly Special SP2

Lab ID	Sample ID	Location	Matrix	Date Collected	Date Received
E1500056001	E13-005C	E13-005C - 26122 Cypress St., (SP2-Combined Pressure Eff.)	Drinking Water	1/8/2015 12:15	1/8/2015 13:05

Collector: Edward DuVivier



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

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Richard K. Iizuka
Chief Deputy

ANALYTICAL RESULTS

Workorder: E1500056 Lomita Monthly Special SP2

Lab ID: E1500056001	Date Received: 1/8/2015 13:05	Matrix: Drinking Water
Sample ID: E13-005C	Date Collected: 1/8/2015 12:15	
System Number: 19-073	Purpose: Special	
System Name: Lomita-Combined Effluent (SP2)	Sample Type: Source	

Parameters	Results	Units	Report Limit	MDL	DF	Analyzed	By	Qual	MCL
MICROBIOLOGY									
Analysis Desc: Idexx Simplate	Analytical Method: Idexx Simplate								
Heterotrophic Plate Count	ND	MPN/100mL	2.00		1	1/8/2015 13:15	CG		500
Analysis Desc: SM 9223 COLILERT 18	Analytical Method: SM 9223 COLILERT 18								
Total Coliform	ABSENT				1	1/8/2015 15:30	CG		

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11012 GARFIELD AVE., BLDG. B, SOUTH GATE, CA. 90280
TEL# (562)622-0437 FAX# (562)622-0440

BACTERIOLOGICAL TEST FOR DRINKING WATER

Purveyor: Public Work/Waterworks

Address: 900 S. Fremont Ave., Alhambra

System Name: Lomita-Combined Effluent (SP2)

Contact Person / Phone#: (626)300-3306

System Number: _____

Collector: Kamruz Profile# **2170**

(T) Sample Type	(P) Purpose
1-Source 2-Distribution System	A-Routine B-Recheck C-Special D-Replacement E-Others

E1500056

Simplate

Lab ID#	Smp ID#	Time Collection	Sampling Point	Cl ppm	T	P	Temp °C	Total Coliform/Colilert ¹⁸	Fecal Coliform Colilert	HPC cfu/mL
-001	E13-005C	12:15	Combined Pressure Effluent (SP2)		1	C	6.0	ABSENT		<2

Set-Up Time: <u>15:30</u>	Meets Holding Time (24 hrs.): <u>yes</u> <input checked="" type="checkbox"/> <u>no</u> <input type="checkbox"/>	Set-Up By: <u>cg</u>	Read Time: <u>9:30</u>	Read By: <u>cg</u>
---------------------------	---	----------------------	------------------------	--------------------

Reference: "Standard Methods" 20th ed., APHA, AWWA, AND WEF. Method 9223

Date Collected: 01-08-15 Date/Time Received: 1/8/15 11305 By: NP
Date Started: 1-8-15 Date Completed: 1-9-15
1-10-15 Simplate ok

Notification Req.: Yes ☐ No ☒ Name of person Notified: _____ Date: _____ /Time: _____

Analyst: Cynthia 9-1-9-15 Date: _____ Supervisor: gx 01/09/2015 Date: _____



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11012 Garfield Avenue, Bldg B, South Gate, CA 90280
Phone# (562)622-0437 Fax# (562)622-0440

PROFILE# 2170

CHAIN-OF-CUSTODY RECORD

[illegible]



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

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Richard K. Iizuka
Chief Deputy

CA State DPH Certificate #1430
County Sanitation ID #10240

January 21, 2015

Ulises Escalona
City of Lomita
24300 Narbonne Ave.
Lomita, CA 90717

RE: Workorder: E1500053 SP3 Monitoring Weekly Lomita

Dear Ulises Escalona:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, January 08, 2015. Results reported herein conform to the most current ELAP standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me at (562)622-0437.

Sincerely,

Thant Zin Win

Chief

Enclosures

Note: All results have no blank correction unless otherwise specified

Report ID: 22587 - 705957

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Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

SAMPLE SUMMARY

Workorder: E1500053 SP3 Monitoring Weekly Lomita

Lab ID	Sample ID	Location	Matrix	Date Collected	Date Received
E1500053001	E13-005A	E13-005A - 26122 Cypress St., (SP3)	Drinking Water	1/8/2015 12:15	1/8/2015 13:05

Collector: Edward DuVivier



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
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Richard K. Iizuka
Chief Deputy

ANALYTICAL RESULTS

Workorder: E1500053 SP3 Monitoring Weekly Lomita

Lab ID:	E1500053001	Date Received:	1/8/2015 13:05	Matrix:	Drinking Water
Sample ID:	E13-005A	Date Collected:	1/8/2015 12:15		
System Number:	1910073-006	Purpose:	Routine		
System Name:		Sample Type:	Source		

Parameters	Results	Units	Report Limit	MDL	DF	Analyzed	By	Qual	MCL
METALS, DISSOLVED									
Analysis Desc: EPA 200.8, Dissolved		Analytical Method: EPA 200.8, Dissolved							
Iron	ND	ug/L	100		1	1/13/2015 12:38	GS		240
Manganese	ND	ug/L	20.0		1	1/13/2015 12:38	GS		40
WETCHEMISTRY									
Analysis Desc: SM 2120B		Analytical Method: SM 2120B							
Color		10 Unit	5.00		1	1/8/2015 16:10	LS		



County of Los Angeles
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11012 Garfield Avenue, Bldg B, South Gate, CA 90280
Phone# (562)622-0437 Fax# (562)622-0440

Profile# 2201 – 1st & 2nd Week

CHAIN-OF-CUSTODY RECORD

[illegible]

512780



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
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Richard K. Iizuka
Chief Deputy

CA State DPH Certificate #1430
County Sanitation ID #10240

February 2, 2015

Ulises Escalona
City of Lomita
24300 Narbonne Ave.
Lomita, CA 90717

RE: Workorder: E1500107 SP3 Lomita Weekly

Dear Ulises Escalona:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, January 14, 2015. Results reported herein conform to the most current ELAP standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me at (562)622-0437.

Sincerely,

Thant Zin Win

Chief

Enclosures

Note: All results have no blank correction unless otherwise specified

Report ID: 22641 - 710143

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Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

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Richard K. Iizuka
Chief Deputy

SAMPLE SUMMARY

Workorder: E1500107 SP3 Lomita Weekly

Lab ID	Sample ID	Location	Matrix	Date Collected	Date Received
E1500107001	E13-005A	E13-005A - 26122 Cypress St., (SP3)	Drinking Water	1/14/2015 11:01	1/14/2015 12:35

Collector: Brian Aguayo



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

ANALYTICAL RESULTS

Workorder: E1500107 SP3 Lomita Weekly

Lab ID: E1500107001	Date Received: 1/14/2015 12:35	Matrix: Drinking Water
Sample ID: E13-005A	Date Collected: 1/14/2015 11:01	
System Number: 1910073-006	Purpose: Routine	
System Name:	Sample Type: Source	

Parameters	Results Units	Report Limit	MDL	DF	Analyzed	By	Qual	MCL
METALS, DISSOLVED								
Analysis Desc: EPA 200.8, Dissolved			Analytical Method: EPA 200.8, Dissolved					
Iron	ND ug/L	100		1	1/28/2015 12:17	RZ		240
Manganese	ND ug/L	20.0		1	1/28/2015 12:17	RZ		40
WETCHEMISTRY								
Analysis Desc: SM 2120B			Analytical Method: SM 2120B					
Color	5 Unit	5.00		1	1/14/2015 12:50	LS		



Phone# (562)622-0437 Fax# (562)622-0440

Page: of

Profile# 2201 – 1st & 2nd Week

11012 Garfield Avenue, Bldg B, South Gate, CA 90280

CHAIN-OF-CUSTODY RECORD

[illegible]

082213



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

CA State DPH Certificate #1430
County Sanitation ID #10240

February 2, 2015

Ulises Escalona
City of Lomita
24300 Narbonne Ave.
Lomita, CA 90717

RE: Workorder: E1500187 Lomita Weekly SP3 RUSH

Dear Ulises Escalona:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, January 22, 2015. Results reported herein conform to the most current ELAP standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me at (562)622-0437.

Sincerely,

Thant Zin Win

Chief

Enclosures

Note: All results have no blank correction unless otherwise specified

Report ID: 22721 - 710147

Page 1 of 4

**Protecting Consumers and the Environment Since 1881
To Enrich Lives Through Effective and Caring Service**

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Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of **Agricultural Commissioner/ Weights and Measures**

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

SAMPLE SUMMARY

Workorder: E1500187 Lomita Weekly SP3 RUSH

Lab ID	Sample ID	Location	Matrix	Date Collected	Date Received
E1500187001	E13-005A	E13-005A - 26122 Cypress St., (SP3)	Drinking Water	1/22/2015 10:45	1/22/2015 12:05

Collector: Edward Duvivier



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

ANALYTICAL RESULTS

Workorder: E1500187 Lomita Weekly SP3 RUSH

Lab ID: E1500187001	Date Received: 1/22/2015 12:05	Matrix: Drinking Water
Sample ID: E13-005A	Date Collected: 1/22/2015 10:45	
System Number: 1910073-006	Purpose: Routine	
System Name:	Sample Type: Source	

Parameters	Results	Units	Report Limit	MDL	DF	Analyzed	By	Qual	MCL
METALS, DISSOLVED									
Analysis Desc: EPA 200.8, Dissolved		Analytical Method: EPA 200.8, Dissolved							
Iron	ND	ug/L	100		1	1/28/2015 12:21	RZ		240
Manganese	ND	ug/L	20.0		1	1/28/2015 12:21	RZ		40
WETCHEMISTRY									
Analysis Desc: SM 2120B		Analytical Method: SM 2120B							
Color		5 Unit	5.00		1	1/22/2015 13:40	LS		

Page: 1 of 1

County of Los Angeles
Agricultural Commissioner/Weights & Measures
ENVIRONMENTAL TOXICOLOGY BUREAU
111012 Garfield Avenue, Bldg B, South Gate, CA 90280
Phone# (562)622-0437 Fax# (562)622-0440

Profile# 2201 - 3rd, 4th & 5th Week - RUSH

CHAIN-OF-CUSTODY RECORD

[illegible]

082213



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

CA State DPH Certificate #1430
County Sanitation ID #10240

February 2, 2015

Ulises Escalona
City of Lomita
24300 Narbonne Ave.
Lomita, CA 90717

RE: Workorder: E1500228 Lomita Weekly RUSH

Dear Ulises Escalona:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, January 28, 2015. Results reported herein conform to the most current ELAP standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me at (562)622-0437.

Sincerely,

Thant Zin Win

Chief

Enclosures

Note: All results have no blank correction unless otherwise specified

Report ID: 22762 - 710210

Page 1 of 4

**Protecting Consumers and the Environment Since 1881
To Enrich Lives Through Effective and Caring Service**

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Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of **Agricultural Commissioner/ Weights and Measures**

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

SAMPLE SUMMARY

Workorder: E1500228 Lomita Weekly RUSH

Lab ID	Sample ID	Location	Matrix	Date Collected	Date Received
E1500228001	E13-005A	E13-005A - 26122 Cypress St., (SP3)	Drinking Water	1/28/2015 11:00	1/28/2015 12:25

Collector: Duvivier Edward



Kurt E. Floren
Agricultural Commissioner
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Laboratory
11012 S. Garfield Ave.
South Gate, California 90280
<http://acwm.lacounty.gov>



Richard K. Iizuka
Chief Deputy

ANALYTICAL RESULTS

Workorder: E1500228 Lomita Weekly RUSH

Lab ID: E1500228001	Date Received: 1/28/2015 12:25	Matrix: Drinking Water
Sample ID: E13-005A	Date Collected: 1/28/2015 11:00	
System Number: 1910073-006	Purpose: Routine	
System Name:	Sample Type: Source	

Parameters	Results Units	Report Limit	MDL	DF	Analyzed	By	Qual	MCL
METALS, DISSOLVED								
Analysis Desc: EPA 200.8, Dissolved			Analytical Method: EPA 200.8, Dissolved					
Iron	ND ug/L	100		1	1/28/2015 13:38	RZ		240
Manganese	ND ug/L	20.0		1	1/28/2015 13:38	RZ		40
WETCHEMISTRY								
Analysis Desc: SM 2120B			Analytical Method: SM 2120B					
Color	5 Unit	5.00		1	1/29/2015 11:00	LS		



County of Los Angeles
Agricultural Commissioner/Weights & Measures
ENVIRONMENTAL TOXICOLOGY BUREAU
11012 Garfield Avenue, Bldg B, South Gate, CA
Phone# (562)622-0437 Fax# (562)622-0440

Page: 1 of 1**Profile# 2201 - 3rd, 4th & 5th Week - RUSH**

CHAIN-OF-CUSTODY RECORD

[illegible]

517280

Clinical Laboratory of San Bernardino, Inc.



16 January 2015

Clinical Lab No.: 15A0407

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

Project Name: Standard Analysis
Sub Project: CWPF Monthly Compliance Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 01/07/15 . 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,

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

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: CWPf Monthly Compliance Analysis
Project Manager: Mark Andersen

Work Order: 15A0407
Received: 01/07/15 16:30
Reported: 01/16/15

Raw Water Site #1 **15A0407-01 (Water)** **Sample Date:** 01/07/15 11:36 **Sampler:** Edward Duvivier

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

General Chemical Analyses

Total Filterable Residue/TDS SM 2540C **680** mg/L 5.0 1000 01/09/15 01/12/15 1502552

Reservoir Effluent Site #5 **15A0407-02 (Water)** **Sample Date:** 01/07/15 11:37 **Sampler:** Edward Duvivier

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

General Physical Analyses

Apparent Color SM 2120B ND Color Units 3.0 15 01/07/15 01/07/15 1502434

Odor Threshold EPA 140.1M **1** TON 1 3 01/07/15 01/07/15 1502434

General Chemical Analyses

Total Filterable Residue/TDS SM 2540C **670** mg/L 5.0 1000 01/09/15 01/12/15 1502552

Zone #2 Site #6 **15A0407-03 (Water)** **Sample Date:** 01/07/15 11:31 **Sampler:** Edward DuVivier

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

General Chemical Analyses

Total Filterable Residue/TDS SM 2540C **640** mg/L 5.0 1000 01/09/15 01/12/15 1502552

ND Analyte NOT DETECTED at or above the reporting limit

January 15, 2015

Clinical Laboratory of San Bernardino
ATTN: Stu Styles
21881 Barton Rd.
Grand Terrace, CA 92313



ADE-1461
EPA Methods TO-3,
TO14A, TO15 SIM & Scan,
ASTM D1946



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

TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

UT Cert CA0133332014-1
EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: 15A0407
Lab Number: G010809-01/02

Enclosed are results for sample(s) received 1/08/15 by Air Technology Laboratories. Samples were received intact and properly chilled. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

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

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

Sincerely,



Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

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

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15A0407

GO10809-04/02

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:

Air Technology Labs
18501 East Gale Avenue Suite 130
City of Industry, CA 91748
Phone : (626) 964-4032
Fax:

Please email results to Project Manager: Stu Styles

[] glaubig@clinical-lab.com [] glenney@clinical-lab.com [X] styles@clinical-lab.com

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

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

UCMR 3 CDX Transfer [] Yes [X] No

Turn Around Time [X] 10 Days [X] 5 Days [] Other ___ Days

Subcontract Comments:

PD
SS
1/8/15

Analysis

Comments

01 Sample ID: Raw Water Site #1 / 15A0407-01

Sampled: 01/07/15 11:35 PS Code: 1910073-003
Water

WTX ID:
UCMR ID:

Methane RSK175

Containers Supplied:

40ml Amber Vial (A) 40ml Amber Vial (B)

02 Sample ID: Reservoir Effluent Site #5 / 15A0407-02

Sampled: 01/07/15 11:33 PS Code:
Water

WTX ID:
UCMR ID:

Methane RSK175

Containers Supplied:

40ml Amber Vial (A) 40ml Amber Vial (B)

6°C

Released By

010815
Date / Time

Received By

1-8-15

10:00

Date / Time

Released By

11:50 1-8-15
Date / Time

Received By

1/8/15

1150

Date / Time

Client: Clinical Laboratory of San Bernardino
Attn: Stu Styles
Project Name: NA
Project No.: 15A0407
Date Received: 01/08/15
Matrix: Water
Reporting Units: ug/L

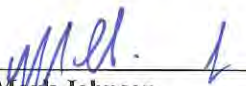
Page 2 of 3
 G010809

RSK175							
Lab No.:	G010809-01		G010809-02				
Client Sample I.D.:	Raw Water Site #1 / 15A0407-01		Reservoir Effluent Site #5 / 15A0407-02				
Date/Time Sampled:	1/7/15 11:35		1/7/15 11:33				
Date/Time Analyzed:	1/12/15 14:14		1/12/15 14:01				
QC Batch No.:	150112GC8A1		150112GC8A1				
Analyst Initials:	AS		AS				
Dilution Factor:	1.0		1.0				
ANALYTE	Result ug/L	RL ug/L	Result ug/L	RL ug/L			
Methane	5,200	1.0	860	1.0			

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: _____


 Mark Johnson
 Operations Manager

Date _____

1/15/15

The cover letter is an integral part of this analytical report



QC Batch No.: 150112GC8A1
Matrix: Water
Units: ug/L

Page 3 of 3
G010809

QC for Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:		Method Blank		LCS		LCSD				
Date/Time Analyzed:		1/12/15 13:47		1/12/15 12:52		1/12/15 13:34				
Analyst Initials:		AS		AS		AS				
Datafile:		12jan009		12jan007		12jan008				
Dilution Factor:		1.0		1.0		1.0				
ANALYTE		PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane		1.0	1.0	ND	86	70-130%	92	70-130%	7.3	<30

PQL = Practical Quantitation Limit


ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By: _____


Mark J. Johnson
Operations Manager

Date: _____


1/15/15

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



AirTECHNOLOGY Laboratories, Inc.

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

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			CDHP Compliance													
Sub Project	CWPF Monthly Compliance Analysis			YES													
Comments	Monthly Samples			ELAP #													
Sampled by	F. J. J. J.			1088													
Date	Time	Sample Identification		Matrix	Type	Preserv	Total Chlorine										
1-7-15	11:34	Raw Water Site #1		DW	1W	HCL											
1-7-15	11:35	Raw Water Site #1		DW	1W	N/A											
1-7-15	11:39	Reservoir Effluent Site #5		DW	1W	HCL											
1-7-15	11:33	Reservoir Effluent Site #5		DW	1W	N/A											
1-7-15	11:32	Reservoir Effluent Site #5		DW	1W	N/A											
1-7-15	11:31	Zone #2 Site #6		DW	1W	N/A											
Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCl (3) HNO ₃ (4) NH ₄ Cl (5) H ₂ SO ₄ (6) Na ₂ SO ₃ (7) Cold (8) Other:														Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW-Ground Water, A-Air			
Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company									
[Signature]		Edward J. J. J.		1-7-15 / 11:38		[Signature]		J. J. J. J.									
[Signature]		City of Lomita		1-7-15 / 4:30		[Signature]		J. J. J. J.									
Comments: [Signature]										Samples received () On ice () Intact () Custody seals Temp 16.4 () F () 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.



15 January 2015

Clinical Lab No.: 15A0421

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 01/07/15 . 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,

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

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: CWP Weekly Non-Comp Analysis
Project Manager: Mark Andersen

Work Order: 15A0421
Received: 01/07/15 16:30
Reported: 01/15/15

Reservoir Effluent Site #5

15A0421-01 (Water)

Sample Date: 01/07/15 11:33

Sampler: Edward D

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

General Chemical Analyses

Hardness, Total (as CaCO ₃)	Calculated	310	mg/L	6.6		01/12/15	01/12/15	[CALC]	
Ortho-Phosphate (as P)	HACH 8048	0.17	mg/L	0.0067		01/08/15	01/08/15	1502483	
Phosphorus (Total as P)	HACH 8190	0.50	mg/L	0.0067		01/08/15	01/08/15	1502405	

Metals

Calcium (Ca)	EPA 200.7	79	mg/L	1.0		01/12/15	01/12/15	1503024	
Magnesium (Mg)	EPA 200.7	26	mg/L	1.0		01/12/15	01/12/15	1503024	

ND Analyte NOT DETECTED at or above the reporting limit

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		CDHP Compliance												
Sub Project		CWPF Weekly Non-Comp. Analysis		No												
Comments				ELAP #												
Sampled by		Edward P.		1088												
Date	Time	Sample Identification	Matrix	Type	Preserv	Total Chlorine	Total Alkalinity	Total Hardness (as CaCo3)	Total Dissolved Solids	Phosphate- Ortho as P	Phosphorus- Total as P	Color & Odor	Methane (WATER) (RSK175)	Methane (AIR) (ASTM D1946)	Comments / P.S. Codes	
		Raw Water Site #1	DW	1W	N/A											
		Filter Effluent Site #3	DW	1W	N/A											
		Reservoir Influent Site #4	DW	1W	N/A											
1-7-15	4:33	Reservoir Effluent Site #5	DW	1W	N/A			X		X	X					
		Zone #2 Site #6	DW	1W	N/A											
Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCl (3) HNO ₃ (4) NH ₄ Cl (5) H ₂ SO ₄ (6) Na ₂ SO 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											
<i>[Signature]</i>	Edward P.	1-7-15 11:59	<i>[Signature]</i>		J. W. W. / CLS											
<i>[Signature]</i>	City of Lomita	1-7-15 4:30	<i>[Signature]</i>		J. W. W. / CLS											
Comments: <i>[Signature]</i>		Samples received: () On ice () Intact () Custody seals		Temp 16.6 () F (X) C												
Shipped Via		Fed X Golden State UPS Other		Client		Page 1 of 1										

Clinical Laboratory of San Bernardino, Inc.



22 January 2015

Clinical Lab No.: 15A1026

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

Project Name: Standard Analysis
Sub Project: CWPF Weekly Comp. Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 01/14/15 . 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,

A handwritten signature in black ink, appearing to read 'Stu Styles', is written over a light blue rectangular background.

Stu Styles

Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: CWPF Weekly Comp. Analysis
Project Manager: Mark Andersen

Work Order: 15A1026
Received: 01/14/15 16:30
Reported: 01/22/15

Reservoir Effluent Site #5 **15A1026-01 (Water)** **Sample Date:** 01/14/15 11:45 **Sampler:** Edward Duvivier

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

General Chemical Analyses

Total Filterable Residue/TDS	SM 2540C	700	mg/L	5.0	1000	01/15/15	01/16/15	1503348	
-------------------------------------	----------	------------	------	-----	------	----------	----------	---------	--

ND Analyte NOT DETECTED at or above the reporting limit

January 21, 2015

Clinical Laboratory of San Bernardino
ATTN: Stu Styles
21881 Barton Rd.
Grand Terrace, CA 92313



ADE-1461
EPA Methods TO-3,
TO14A, TO15 SIM & Scan,
ASTM D1946



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

TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

UT Cert CA013332014-1
EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: 15A1026
Lab Number: G011504-01

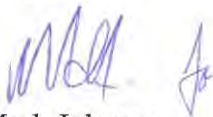
Enclosed are results for sample(s) received 1/15/15 by Air Technology Laboratories. Samples were received intact and properly chilled. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

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

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

Sincerely,



Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

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

SUBCONTRACT ORDER

**Clinical Laboratory of San Bernardino
15A1026**

GO11504-01

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:

Air Technology Labs
18501 East Gale Avenue Suite 130
City of Industry, CA 91748
Phone : (626) 964-4032
Fax:

Please email results to Project Manager: Stu Styles

[] glaubig@clinical-lab.com [] glenney@clinical-lab.com [x] styles@clinical-lab.com

California EDT transfer those samples with PS codes provided [] Yes [x] No
Transfer File requested; log in with Element ID only [] Yes [] No
UCMR 3 CDX Transfer [] Yes [x] No

Turn Around Time [] 10 Days [x] 5 Days [] Other ___ Days
Subcontract Comments:

Analysis

Comments

Sample ID: Reservoir Effluent Site #5 / 15A1026-01

Sampled: 01/14/15 11:45 PS Code:
Water

WTX ID:
UCMR ID:

Methane RSK175

Containers Supplied:

40ml Amber Vial (A) 40ml Amber Vial (B)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

01/15/15 08:15

1-15-15 1:10

1-15-15 11:50

1-15-15 13:10

506
1-15-15

Client: Clinical Laboratory of San Bernardino
Attn: Stu Styles
Project Name: NA
Project No.: 15A1026
Date Received: 01/15/15
Matrix: Water
Reporting Units: ug/L

Page 2 of 3
 G011504

RSK175							
Lab No.:	G011504-01						
Client Sample I.D.:	Reservoir Effluent Site #5 / 15A1026-01						
Date/Time Sampled:	1/14/15 11:45						
Date/Time Analyzed:	1/20/15 10:42						
QC Batch No.:	150120GC8A1						
Analyst Initials:	AS						
Dilution Factor:	1.0						
ANALYTE	Result ug/L	RL ug/L					
Methane	1,100	1.0					

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

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 1/21/15

The cover letter is an integral part of this analytical report



QC Batch No.: 150120GC8A1
Matrix: Water
Units: ug/L

Page 3 of 3
G011504

QC for Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:		Method Blank		LCS		LCSD			
Date/Time Analyzed:		1/20/15 10:28		1/20/15 10:02		1/20/15 10:15			
Analyst Initials:		AS		AS		AS			
Datafile:		20jan005		20jan003		20jan004			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	1.0	1.0	ND	73	70-130%	72	70-130%	1.7	<30

PQL = Practical Quantitation Limit

ND = Not Detected (Below RL).

RL = PQL X Dilution Factor

Reviewed/Approved By: _____

Mark J. Johnson
Operations Manager

Date: _____

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



AirTECHNOLOGY Laboratories, Inc.

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

2

Chain of Custody

[illegible]

Clinical Laboratory of San Bernardino, Inc.



28 January 2015

Clinical Lab No.: 15A1494

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

Project Name: Standard Analysis
Sub Project: CWPF Weekly Comp. Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 01/21/15 . 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,

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

Stu Styles

Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: CWPF Weekly Comp. Analysis
Project Manager: Mark Andersen

Work Order: 15A1494
Received: 01/21/15 16:10
Reported: 01/28/15

Reservoir Effluent Site #5 **15A1494-01 (Water)** **Sample Date:** 01/21/15 12:53 **Sampler:** Edward Duvivier

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

General Chemical Analyses

Total Filterable Residue/TDS SM 2540C **670** mg/L 5.0 1000 01/23/15 01/26/15 1504409

ND Analyte NOT DETECTED at or above the reporting limit



Certificate of Analysis

Report Date: 01/28/15 11:35

Received Date: 01/22/15 12:23

Turnaround Time: 5 workdays

Project: 15A1494

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 1/22/2015 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 Sample ID: 5A22030-01		Sample ID: Reservoir Effluent Site #5 / 15A1494-01							Matrix: Water	
Sampled by: Client		Sampled: 01/21/15 12:53								
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	1200		10	ug/l	1	RSK-175	1/22/15	1/22/15 9:50	W5A1114	



Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W5A1114 - RSK-175

Blank (W5A1114-BLK1)

Prepared: 01/22/15 Analyzed: 01/22/15 09:50

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

LCS (W5A1114-BS1)

Prepared: 01/22/15 Analyzed: 01/22/15 09:50

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		8.59		ug/l	7.92	109	50-150		

LCS (W5A1114-BS2)

Prepared: 01/22/15 Analyzed: 01/22/15 09:50

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Ethane		4.02		ug/l	6.60	61	50-150		

LCS (W5A1114-BS3)

Prepared: 01/22/15 Analyzed: 01/22/15 09:50

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Ethene		2.91		ug/l	5.60	52	50-150		

LCS (W5A1114-BS4)

Prepared: 01/22/15 Analyzed: 01/22/15 09:50

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		185		ug/l	198	93	85-115		

LCS (W5A1114-BS5)

Prepared: 01/22/15 Analyzed: 01/22/15 09:50

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Ethane		629		ug/l	660	95	85-115		

LCS (W5A1114-BS6)

Prepared: 01/22/15 Analyzed: 01/22/15 09:50

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Ethene		532		ug/l	560	95	85-115		

Calibration Check (W5A1114-CCV1)

Prepared: 01/22/15 Analyzed: 01/22/15 09:50

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		211		ug/l	198	107	85-115		

Calibration Check (W5A1114-CCV2)

Prepared: 01/22/15 Analyzed: 01/22/15 09:50

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Ethane		686		ug/l	660	104	85-115		

Calibration Check (W5A1114-CCV3)

Prepared: 01/22/15 Analyzed: 01/22/15 09:50

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Ethene		563		ug/l	560	101	85-115		



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 # 04229CA



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

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15A1494

5A22030

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:

Week 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 [x] styles@clinical-lab.com

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

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

UCMR 3 CDX Transfer [] Yes [x] No

Turn Around Time [] 10 Days [x] 5 Days [] Other __ Days

Subcontract Comments:

Analysis

Comments

Sample ID: Reservoir Effluent Site #5 / 15A1494-01

Sampled: 01/21/15 12:53 PS Code:
Water

WTX ID:

UCMR ID:

Methane RSK175

Containers Supplied:

40ml Amber Vial (A) 40ml Amber Vial (B)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

Chain of Custody

[illegible]

"Your Water and Wastewater Analysis Solution"

Clinical Laboratory of San Bernardino, Inc.



06 February 2015

Clinical Lab No.: 15A2060

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

Project Name: Standard Analysis
Sub Project: CWPF Weekly Comp. Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 01/28/15 . 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,

A handwritten signature in black ink, appearing to read 'Stu Styles', is written over a light blue rectangular background.

Stu Styles

Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: CWPF Weekly Comp. Analysis
Project Manager: Mark Andersen

Work Order: 15A2060
Received: 01/28/15 16:00
Reported: 02/06/15

Reservoir Effluent Site #5 **15A2060-01 (Water)** **Sample Date:** 01/28/15 11:46 **Sampler:** Edward D

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

General Chemical Analyses

Total Filterable Residue/TDS SM 2540C **720** mg/L 5.0 1000 02/02/15 02/03/15 1506030

ND Analyte NOT DETECTED at or above the reporting limit



Certificate of Analysis

Report Date: 02/05/15 13:54

Received Date: 01/30/15 11:30

Turnaround Time: 5 workdays

Project: 15A2060

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 1/30/2015 with the Chain of Custody document. The samples were received in good condition, at 3.0 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab Sample ID: 5A30021-01		Sample ID: Reservoir Effluent Site #5 / 15A2060-01							Matrix: Water	
Sampled by: Client		Sampled: 01/28/15 11:46								
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	810		10	ug/l	1	RSK-175	2/5/15	2/5/15 10:20	W5B0277	



Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W5B0277 - RSK-175

Blank (W5B0277-BLK1)

Prepared: 02/05/15 Analyzed: 02/05/15 10:20

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

LCS (W5B0277-BS1)

Prepared: 02/05/15 Analyzed: 02/05/15 10:20

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		5.42		ug/l	7.92	68	50-150		

LCS (W5B0277-BS2)

Prepared: 02/05/15 Analyzed: 02/05/15 10:20

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		196		ug/l	198	99	85-115		

Calibration Check (W5B0277-CCV1)

Prepared: 02/05/15 Analyzed: 02/05/15 10:20

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		195		ug/l	198	98	85-115		



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 # 04229CA



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

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15A2060

5A30021

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 ☐ glenney@clinical-lab.com ☒ styles@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

UCMR 3 CDX Transfer ☐ Yes ☒ No

Turn Around Time ☐ 10 Days ☒ 5 Days ☐ Other ___ Days

Subcontract Comments:

Analysis

Comments

Sample ID: Reservoir Effluent Site #5 / 15A2060-01

Sampled: 01/28/15 11:46 PS Code:
Water

WTX ID:
UCMR ID:

Methane RSK175

Containers Supplied:

40ml Amber Vial (A) 40ml Amber Vial (B)

Released By	<i>Bl Shy</i>	Date / Time	<i>01/29/15 12:15</i>	Received By	<i>Michael Q. L</i>	Date / Time	<i>1-30-15 9:25</i>
	<i>Michael Q. L</i>	<i>1-30-15 11:30</i>		<i>Samuel</i>	<i>1-30-15 11:30</i>	<i>11:30</i>	<i>3:00</i>
Released By		Date / Time		Received By		Date / Time	

Appendix B

Methane Monitoring Log



**CITY OF LOMITA
CPWF HANDHELD METHANE LOG READINGS**

January 2015			
Date	Time	Methane Handheld	Comments
1/1/2015			Holiday
1/2/2015			Friday - City Hall Closed
1/3/2015			Saturday
1/4/2015			Sunday
1/5/2015	3:30 PM	CH4-0%	
		Oxy-20.7%	
1/6/2015	08:45am	CH4-0%	
		Oxy-20.5%	
1/7/2015	07:55am	CH4-0%	
		Oxy-20.5%	
1/8/2015	01:55pm	CH4-1%	
		Oxy-20.1%	
1/9/2015	03:25pm	CH4-1%	
		Oxy-20.1%	
1/10/2015			Saturday
1/11/2015			Sunday
1/12/2015			
1/13/2015	03:15pm	CH4-0%	
		Oxy-20.1%	
1/14/2015	03:00pm	CH4-0%	
		Oxy-20.3%	
1/15/2015	08:00am	CH4-0%	
		Oxy-20.5%	
1/16/2015			Friday - City Hall Closed
1/17/2015			Saturday
1/18/2015			Sunday
1/19/2015			Holiday
1/20/2015	10:30 AM	CH4-4%	
		Oxy-20.9%	
1/21/2015	02:45pm	CH4-0%	
		Oxy-20.3%	
1/22/2015	03:55pm	CH4-0%	
		Oxy-20.9%	
1/23/2015	03:20pm	CH4-0%	
		Oxy-20.0%	
1/24/2015			Saturday
1/25/2015			Sunday
1/26/2015	10:45 AM	CH4-0%	
		Oxy-20.8%	
1/27/2015	03:10pm	CH4-0%	
		Oxy-20.0%	
1/28/2015	03:00pm	CH4-0%	
		Oxy-20.0%	
1/29/2015	02:30pm	CH4-2%	
		Oxy-20.5%	
1/30/2015			Friday - City Hall Closed
1/31/2015			Saturday

ND- Non Detect
CH4- Methane
Oxy-Oxygen
Weekend/Day OFF/Holiday- Red