

NELAC Cert. No.: T104704360-16-15

San Antonio Testing Laboratory
1610 S Laredo
San Antonio TX, 78207-7029

Project: Water Quality 2016
Project Number: 11/21/16
Project Manager: Marcela Hawk

Reported:
11/22/16 14:48
Received:
11/21/16 09:11

Report No. 1611325

Sample ID #: Kitchen Sink

Sampling Method: Composite

Lab Sample ID #: 1611325-01

Sample Matrix: Drinking Water

Date/Time Collected: 11/21/16 00:01

Analyte	Result	Units	PQL	MCL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Microbiological Parameters										
Total Coliforms *	Absent	-			Start 11/21/16 09:30/End 11/22/16 09:37			Colilert	PLP	
E. Coli *	Absent	-			Start 11/21/16 09:30/End 11/22/16 09:37			Colilert	PLP	
General Chemistry										
Total Dissolved Solids	271	mg/L	10.0	1000		B648010	11/21/16	EPA 120.1	PLP	
pH *	7.09	pH Units	0.05	6.5-8.5		B648008	11/21/16	SM4500HB	PLP	
Specific Conductance *	549	umhos/cm	1.00	N.S.E.		B648009	11/21/16	SM2510B	PLP	
Total Alkalinity	160	mg/L	20.0	N.S.E.		B648014	11/21/16	SM2320B	PLP	
Anions by Ion Chromatography										
Chloride *	28.3	mg/L	0.500	300	EPA 300.0	B648037	11/21/16	EPA 300.0	JL	
Nitrate as N *	1.48	mg/L	0.50	10	EPA 300.0	B648037	11/21/16	EPA 300.0	JL	
Fluoride *	0.618	mg/L	0.100	4	EPA 300.0	B648037	11/21/16	EPA 300.0	JL	
Sulfate *	32.1	mg/L	0.25	300	EPA 300.0	B648037	11/21/16	EPA 300.0	JL	
Total Metals By ICP-MS										
Aluminum *	<0.010	mg/L	0.010	0.05-0.2	EPA 200.8	B648052	11/22/16	EPA 200.8	XE	
Arsenic *	<0.001	mg/L	0.001	0.01	EPA 200.8	B648052	11/22/16	EPA 200.8	XE	
Calcium	1.31	mg/L	1.00	N.S.E.	EPA 200.8	B648052	11/22/16	EPA 200.8	XE	
Copper *	<0.001	mg/L	0.001	1	EPA 200.8	B648052	11/22/16	EPA 200.8	XE	
Iron *	<0.010	mg/L	0.010	0.3	EPA 200.8	B648052	11/22/16	EPA 200.8	XE	
Lead *	<0.001	mg/L	0.001	0.015	EPA 200.8	B648052	11/22/16	EPA 200.8	XE	
Magnesium	0.294	mg/L	0.010	N.S.E.	EPA 200.8	B648052	11/22/16	EPA 200.8	XE	
Manganese *	<0.001	mg/L	0.001	0.05	EPA 200.8	B648052	11/22/16	EPA 200.8	XE	
Sodium	0.213	mg/L	0.050	N.S.E.	EPA 200.8	B648052	11/22/16	EPA 200.8	XE	
Zinc *	<0.005	mg/L	0.005	5	EPA 200.8	B648052	11/22/16	EPA 200.8	XE	



NELAC Cert. No.: T104704360-16-15

San Antonio Testing Laboratory
1610 S Laredo
San Antonio TX, 78207-7029

Project: Water Quality 2016
Project Number: 11/21/16
Project Manager: Marcela Hawk

Reported:
11/22/16 14:48
Received:
11/21/16 09:11

Report No. 1611325

Sample ID #: Kitchen Sink

Sampling Method: Composite

Lab Sample ID #: 1611325-01

Sample Matrix: Drinking Water

Date/Time Collected: 11/21/16 00:01

Analyte	Result	Units	PQL	MCL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Hardness as CaCO3 (MCL >120 = Hard water)										
Hardness	4.48	mg/L	0.050	N.S.E.	EPA 200.8	B648052	11/22/16	CALC	XE	

NELAC Cert. No.: T104704360-16-15

San Antonio Testing Laboratory
1610 S Laredo
San Antonio TX, 78207-7029

Project: Water Quality 2016
Project Number: 11/21/16
Project Manager: Marcela Hawk

Reported:
11/22/16 14:48
Received:
11/21/16 09:11

Report No. 1611325

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------

Batch B648008 - NO PREP

LCS (B648008-BS1)				Prepared: 11/21/16 10:00 Analyzed: 11/21/16 10:00					
pH	4.00	0.05	pH Units	4.00	100	80-120			
Duplicate (B648008-DUP1)		Source: 1611325-01		Prepared: 11/21/16 10:00 Analyzed: 11/21/16 10:00					
pH	7.08	0.05	pH Units	7.09			0.1	20	

Batch B648009 - NO PREP

LCS (B648009-BS1)				Prepared: 11/21/16 10:00 Analyzed: 11/21/16 10:00					
Specific Conductance	1020	1.00	umhos/cm	1000	102	80-120			
Duplicate (B648009-DUP1)		Source: 1611325-01		Prepared: 11/21/16 10:00 Analyzed: 11/21/16 10:00					
Specific Conductance	549	1.00	umhos/cm	549			0	20	

Batch B648010 - NO PREP

LCS (B648010-BS1)				Prepared: 11/21/16 10:00 Analyzed: 11/21/16 10:00					
Total Dissolved Solids	96.0	10.0	mg/L	100	96	80-120			
Duplicate (B648010-DUP1)		Source: 1611325-01		Prepared: 11/21/16 10:00 Analyzed: 11/21/16 10:00					
Total Dissolved Solids	270	10.0	mg/L	271			0.4	20	

Batch B648014 - NO PREP

Blank (B648014-BLK1)				Prepared: 11/21/16 10:32 Analyzed: 11/21/16 10:32					
Total Alkalinity	<20.0	20.0	mg/L						
LCS (B648014-BS1)				Prepared: 11/21/16 10:32 Analyzed: 11/21/16 10:32					
Total Alkalinity	100	20.0	mg/L	106	94	80-120			
LCS Dup (B648014-BSD1)				Prepared: 11/21/16 10:32 Analyzed: 11/21/16 10:32					
Total Alkalinity	104	20.0	mg/L	106	98	80-120	4	20	
Duplicate (B648014-DUP1)		Source: 1611325-01		Prepared: 11/21/16 10:32 Analyzed: 11/21/16 10:32					
Total Alkalinity	180	20.0	mg/L	160			12	20	

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------

NELAC Cert. No.: T104704360-16-15

San Antonio Testing Laboratory
1610 S Laredo
San Antonio TX, 78207-7029

Project: Water Quality 2016
Project Number: 11/21/16
Project Manager: Marcela Hawk

Reported:
11/22/16 14:48
Received:
11/21/16 09:11

Report No. 1611325

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------

Batch B648037 - EPA 300.0

Blank (B648037-BLK1)

Prepared: 11/21/16 16:00 Analyzed: 11/21/16 16:09

Chloride	<0.500	0.500	mg/L						
Nitrate as N	<0.50	0.50	mg/L						
Fluoride	<0.100	0.100	mg/L						
Sulfate	<0.25	0.25	mg/L						

LCS (B648037-BS1)

Prepared: 11/21/16 16:00 Analyzed: 11/21/16 16:26

Chloride	4.97	0.500	mg/L	5.00		99	90-110		
Nitrate as N	5.07	0.50	mg/L	5.00		101	90-110		
Fluoride	0.932	0.100	mg/L	1.00		93	80-120		
Sulfate	5.09	0.25	mg/L	5.00		102	90-110		

LCS Dup (B648037-BSD1)

Prepared: 11/21/16 16:00 Analyzed: 11/21/16 16:44

Chloride	5.02	0.500	mg/L	5.00		100	90-110	1	20
Nitrate as N	5.07	0.50	mg/L	5.00		101	90-110	0.006	20
Fluoride	0.945	0.100	mg/L	1.00		94	80-120	1	20
Sulfate	5.10	0.25	mg/L	5.00		102	90-110	0.2	20

Duplicate (B648037-DUP1)

Source: 1611325-01

Prepared: 11/21/16 16:00 Analyzed: 11/21/16 17:20

Chloride	28.3	0.500	mg/L	28.3				0.02	20
Nitrate as N	1.48	0.50	mg/L	1.48				0.1	20
Fluoride	0.613	0.100	mg/L	0.618				0.9	20
Sulfate	32.1	0.25	mg/L	32.1				0.03	20

Matrix Spike (B648037-MS1)

Source: 1611325-01

Prepared: 11/21/16 16:00 Analyzed: 11/21/16 17:38

Chloride	32.0	0.500	mg/L	5.00	28.3	74	80-120		
Nitrate as N	6.48	0.50	mg/L	5.00	1.48	100	90-110		
Fluoride	1.49	0.100	mg/L	1.00	0.618	87	90-110		
Sulfate	35.7	0.25	mg/L	5.00	32.1	71	90-110		

Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------

Batch B648052 - EPA 200.8

Blank (B648052-BLK1)

Prepared: 11/22/16 10:16 Analyzed: 11/22/16 11:59

NELAC Cert. No.: T104704360-16-15

San Antonio Testing Laboratory
1610 S Laredo
San Antonio TX, 78207-7029

Project: Water Quality 2016
Project Number: 11/21/16
Project Manager: Marcela Hawk

Reported:
11/22/16 14:48
Received:
11/21/16 09:11

Report No. 1611325

Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------

Batch B648052 - EPA 200.8

Blank (B648052-BLK1)

Prepared: 11/22/16 10:16 Analyzed: 11/22/16 11:59

Aluminum	<0.010	0.010	mg/L						
Arsenic	<0.001	0.001	mg/L						
Calcium	<1.00	1.00	mg/L						
Copper	<0.001	0.001	mg/L						
Iron	<0.010	0.010	mg/L						
Lead	<0.001	0.001	mg/L						
Magnesium	<0.010	0.010	mg/L						
Manganese	<0.001	0.001	mg/L						
Sodium	<0.050	0.050	mg/L						
Zinc	<0.005	0.005	mg/L						

LCS (B648052-BS1)

Prepared: 11/22/16 10:16 Analyzed: 11/22/16 12:01

Aluminum	0.504	0.010	mg/L	0.500		101	85-115		
Arsenic	0.0954	0.001	mg/L	0.100		95	85-115		
Calcium	0.496	1.00	mg/L	0.500		99	85-115		
Copper	0.100	0.001	mg/L	0.100		100	85-115		
Iron	0.506	0.010	mg/L	0.500		101	85-115		
Lead	0.0993	0.001	mg/L	0.100		99	85-115		
Magnesium	0.469	0.010	mg/L	0.500		94	85-115		
Manganese	0.0994	0.001	mg/L	0.100		99	85-115		
Sodium	0.467	0.050	mg/L	0.500		93	85-115		
Zinc	0.0979	0.005	mg/L	0.100		98	85-115		

LCS Dup (B648052-BSD1)

Prepared: 11/22/16 10:16 Analyzed: 11/22/16 12:04

Aluminum	0.538	0.010	mg/L	0.500		108	85-115	7	20
Arsenic	0.105	0.001	mg/L	0.100		105	85-115	9	20
Calcium	0.536	1.00	mg/L	0.500		107	85-115	8	20
Copper	0.108	0.001	mg/L	0.100		108	85-115	7	20
Iron	0.551	0.010	mg/L	0.500		110	85-115	9	20
Lead	0.106	0.001	mg/L	0.100		106	85-115	6	20
Magnesium	0.496	0.010	mg/L	0.500		99	85-115	6	20
Manganese	0.108	0.001	mg/L	0.100		108	85-115	9	20
Sodium	0.494	0.050	mg/L	0.500		99	85-115	5	20
Zinc	0.106	0.005	mg/L	0.100		106	85-115	8	20

Duplicate (B648052-DUP1)

Source: 1611283-01

Prepared: 11/22/16 10:16 Analyzed: 11/22/16 12:09

Aluminum	0.0851	0.010	mg/L	0.0904				6	20
----------	--------	-------	------	--------	--	--	--	---	----

NELAC Cert. No.: T104704360-16-15

San Antonio Testing Laboratory
 1610 S Laredo
 San Antonio TX, 78207-7029

Project: Water Quality 2016
 Project Number: 11/21/16
 Project Manager: Marcela Hawk

Reported:
 11/22/16 14:48
Received:
 11/21/16 09:11

Report No. 1611325

Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------

Batch B648052 - EPA 200.8

Duplicate (B648052-DUP1)	Source: 1611283-01	Prepared: 11/22/16 10:16	Analyzed: 11/22/16 12:09
Arsenic	<0.001	0.001 mg/L	0.000158
Calcium	56.6	1.00 mg/L	58.3
Copper	0.0974	0.001 mg/L	0.102
Iron	0.0611	0.010 mg/L	0.0778
Lead	0.00122	0.001 mg/L	0.00132
Magnesium	8.07	0.010 mg/L	8.35
Manganese	0.0260	0.001 mg/L	0.0273
Sodium	19.4	0.050 mg/L	19.8
Zinc	0.350	0.005 mg/L	0.367

Matrix Spike (B648052-MS1)	Source: 1611283-01	Prepared: 11/22/16 10:16	Analyzed: 11/22/16 12:11
Aluminum	0.617	0.010 mg/L	0.500 0.0904 105 75-125
Arsenic	0.113	0.001 mg/L	0.100 0.000158 113 75-125
Calcium	56.7	1.00 mg/L	0.500 58.3 NR 75-125
Copper	0.193	0.001 mg/L	0.100 0.102 91 75-125
Iron	0.558	0.010 mg/L	0.500 0.0778 96 75-125
Lead	0.0882	0.001 mg/L	0.100 0.00132 87 75-125
Magnesium	8.57	0.010 mg/L	0.500 8.35 45 75-125
Manganese	0.130	0.001 mg/L	0.100 0.0273 103 75-125
Sodium	19.8	0.050 mg/L	0.500 19.8 NR 75-125
Zinc	0.457	0.005 mg/L	0.100 0.367 90 75-125

Definitions and Notes

All quality control samples and checks are within acceptance limits unless otherwise indicated.
 Test results pertain only to those items tested.
 All samples were in good condition when received by the laboratory unless otherwise noted.



NELAC Cert. No.: T104704360-16-15

San Antonio Testing Laboratory
1610 S Laredo
San Antonio TX, 78207-7029

Project: Water Quality 2016
Project Number: 11/21/16
Project Manager: Marcela Hawk

Reported:
11/22/16 14:48
Received:
11/21/16 09:11

Report No. 1611325

S RPD is outside QC limits due to possible matrix interferences.
PQL Practical Quantitation Limit
MCL Maximum Contaminant Level
F/NF Found / Not Found
mg/Kg Milligrams per Kilogram (Parts per Million)
mg/L Milligrams per Liter (Parts per Million)
N.S.E No Standard Established
PPM Parts per Million
RMCCCL Recommended Maximum Concentration of Contaminants Level
* TNI / NELAC accredited analyte

Test Methods Standard Methods for the Examination of Water and Wastewater, 20th Edition 1998
Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, Rev. March 1983
EPA SW Test Methods for the Examination of Solid Waste, SW-846, 1996

Aimee Landon For Marcela Gracia Hawk, President For

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Richard Hawk, General Manager



1610 S. Laredo Street, San Antonio, Texas 78207
 (210) 229-9920 • Fax (210) 229-9921
 www.satestinglab.com

CHAIN-OF-CUSTODY RECORD

REPORT TO: COMPANY SAR ADDRESS _____ CITY _____ STATE _____ ZIP _____
INVOICE TO: COMPANY _____ ADDRESS _____ CITY _____ STATE _____ ZIP _____
 P.O. # _____ REPORT NUMBER 1611325
 FAX # _____ E-MAIL _____
 ATTN: marcela PHONE # _____ CITY _____ STATE _____ ZIP _____
 TRRP 13 YES NO LPST PCLS YES NO
 REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE } 7-10 Days REG 4 Days +50% 3 Days +75% 2 Days +100% Next Day +150% SAME DAY WHEN POSSIBLE +300%
 COMMENTS/SPECIAL REQUESTS:

PROJECT NAME/LOCATION/SITE: water quality 2016
 PROJECT NO.: 11/21/16
 SAMPLED BY: MH MATRIX _____ SAMPLING METHOD _____
 HARD COPY YES NO / FOR STATE COMPLIANCE YES NO
 TEMP. I.R. GUN # 6 SAMPLE TEMPERATURE WITHIN COMPLIANCE (>0°C ≤ 6°C) YES NO INITIAL TO AUTHORIZE BULK ANALYSIS IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS just fabin
 TEMP. ON RECEPT. 19.1°C COND. OF SAMPLE not feed

ANALYSIS REQUESTED

NUMBER SAMPLER	DATE	TIME	DRINKING WATER	PAINTS	SLURRIES	SLUDGES	SOILS	COMPOST	PROHIBITED	OTHER	REMARKS
1	11/21/16	0908	X								X X X X

SAMPLE IDENTIFICATION

PH / MTBE (8280)	TPH (TX1005 / TX1006)	Metals 8 / 11 / 12 / 13 / TCLP / SPLP / Total	VOC / (8260 / 624 / TCLP / SPLP) / Total	Water Quality - Ginkling / Livestock / Irrigation	Coli / TC / FC / HPC / Ecolt / Enterococci
------------------	-----------------------	---	--	---	--

RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME
<u>W. Santos</u>	11/21/16 09:08	<u>Smile Landon</u>	
<u>Ag. Hawk</u>		<u>Had Red</u>	



Sample Receipt Checklist

Client: SATL

Report Number: 1601325

Project Name: _____

Date Received: 11/21/16

Shipped via: FedEx UPS Lonestar Hand Delivered DHL SATL Other

Date Due: 11/23/16

Rush: Specify: 3-5 1

Items to be checked upon Receipt: [Yes, No, N/A]

1. Custody Seals present?	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	NA	If NA--reason:	
2. Custody Seals intact?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	NA	If NA--reason:	
3. Air Bill included in folder, if received?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	NA	If NA--reason:	
4. Is COC included with samples?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	NA	If NA--reason:	
5. Is COC signed and dated by client?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	NA	If NA--reason:	
6. Sample temperature: Thermal preservation between >0°- 6° C? (Samples that are delivered to the laboratory on the same day that they are collected may not meet this criterion, but are acceptable if they arrive on ice.)	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	NA	Temp: <u>19.2 °C</u>	<u>161#6</u>
7. Samples received with ice <input type="checkbox"/> ice packs <input type="checkbox"/> other cooling <input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	NA	If NA--reason:	<u>just OK</u>
8. Is the COC filled out correctly, and completely?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	NA	If NA--reason:	
9. Information on the COC matches the samples?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	NA	If NA--reason:	
10. Samples received within holding time?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	NA	If NA--reason:	
11. Samples properly labeled?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	NA	If NA--reason:	
12. Samples submitted with chemical preservation? (e.g. pH adjusted, or sodium thiosulfate added for microbiological tests)	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	NA	If NA--reason:	
13. Proper sample containers used?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	NA	If NA--reason:	
14. All samples received intact, containers not damaged or leaking?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	NA	If NA--reason:	
15. VOA vials (requesting BTEX/VOC analysis) received with no air bubbles? Bubbles acceptable on VOA vials for TPH.	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	NA	If NA--reason:	<u>now a vials</u>
16. Sample volume sufficient for requested analysis?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	NA	If NA--reason:	
17. Subcontracted Samples: [if Yes, complete the next section]	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	NA	If NA--reason:	

Analyses Subcontracted Out: _____ No. of Samples _____

Samples sent to: _____ Sent By: _____

Date samples sent: _____ Samples shipped via: _____

TAT Requested: _____

Tracking number [if any]: _____

Comments:

Received By: [Signature] Date: 11/21/16
 Labeled By: _____ Date: _____
 Logged into LIMS By: [Signature] Date: _____
 Logged into RF By: _____ Date: _____