

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

Project: Water Quality Test

Project Number: Sample
 Project Manager: Marcela

Reported:
 01/13/12 15:02

Received:
 09/19/11 15:35

Report No. 1109196

Sample ID #: Kitchen Faucet

Sampling Method: Grab

Lab Sample ID #: 1109196-01

Sample Matrix: Drinking Water

Date/Time Collected: 09/19/11 15:30

Analyte	Result	Units	PQL	MCL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Microbiological Parameters										
Total Coliforms *	Not Found	CFU/100 ml			Start 09/19/11 16:47/End 09/20/11 12:24			SM9223	SM	
E. Coli *	Not Found	CFU/100 ml			Start 09/19/11 16:47/End 09/20/11 12:24			SM9223	SM	
General Chemistry										
Total Alkalinity	196	mg/L	20.0	N.S.E.		B139043	09/20/11	SM2320B	AK	
Fluoride *	0.505	mg/L	0.100	4		B139042	09/20/11	300.0	AK	
Chloride *	19.2	mg/L	1.00	300		B139042	09/20/11	300.0	AK	
Nitrate as N *	1.56	mg/L	0.50	10		B139042	09/20/11	300.0	AK	
Sulfate *	19.2	mg/L	0.50	300		B139042	09/20/11	300.0	AK	
Specific conductance *	503	umhos/cm	1.00	N.S.E.		B139022	09/19/11	SM2510B	AK	
Total Dissolved Solids	246	mg/L	10.0	1000		B139023	09/19/11	EPA 120.1	AK	
pH	6.86	pH Units	0.05	6.5-8.5		B139021	09/19/11	SM4500HB	AK	H
Total Metals										
Copper	0.100	mg/L	0.020	1	200.7	B139045	09/22/11	200.7	ID	
Iron	<0.050	mg/L	0.050	0.3	200.7	B139045	09/22/11	200.7	ID	
Manganese	<0.01	mg/L	0.01	0.05	200.7	B139045	09/22/11	200.7	ID	
Sodium	10.5	mg/L	1.00	N.S.E.	200.7	B139045	09/22/11	200.7	ID	
Aluminum	<0.050	mg/L	0.050	0.05-0.2	200.7	B139045	09/22/11	200.7	ID	
Arsenic	<0.010	mg/L	0.010	0.01	200.7	B139045	09/22/11	200.7	ID	
Calcium	75.6	mg/L	1.00	N.S.E.	200.7	B202113	09/22/11	200.7	ID	
Lead	<0.010	mg/L	0.010	0.015	200.7	B139045	09/22/11	200.7	ID	
Magnesium	14.5	mg/L	0.010	N.S.E.	200.7	B202113	09/22/11	200.7	ID	
Zinc	0.079	mg/L	0.010	5	200.7	B139045	09/22/11	200.7	ID	

Sample ID #: Kitchen Faucet

Sampling Method: Grab

Lab Sample ID #: 1109196-01

Sample Matrix: Drinking Water

Date/Time Collected: 09/19/11 15:30

Analyte	Result	Units	PQL	MCL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Hardness as CaCO3 (MCL >120 = Hard water)										
Hardness	248	mg/L	0.050	0	200.7	B139045	09/22/11	CALC	ID	

Microbiological Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit
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Batch B139027 - NO PREP

Blank (B139027-BLK1)

Prepared: 09/19/11 08:36 Analyzed: 09/20/11 12:24

Total Coliforms	Not Found		CFU/100 ml						
E. Coli	Not Found		CFU/100 ml						

Positive Control (B139027-BS1)

Prepared: 09/19/11 08:36 Analyzed: 09/20/11 12:24

Total Coliforms	Found		CFU/100 ml				0-200		
E. Coli	Found		CFU/100 ml				0-200		

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit
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Batch B139021 - NO PREP

LCS (B139021-BS1)

Prepared: 09/19/11 16:00 Analyzed: 09/19/11 16:00

pH	4.13	0.05	pH Units	4.00		103	80-120		
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Duplicate (B139021-DUP1)

Source: 1109196-01

Prepared: 09/19/11 16:00 Analyzed: 09/19/11 16:00

pH	6.96	0.05	pH Units	6.86				1	20
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Batch B139022 - NO PREP

LCS (B139022-BS1)

Prepared: 09/19/11 16:00 Analyzed: 09/19/11 16:00

Specific conductance	1000	1.00	umhos/cm	1000		100	80-120		
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Duplicate (B139022-DUP1)

Source: 1109196-01

Prepared: 09/19/11 16:00 Analyzed: 09/19/11 16:00

Specific conductance	505	1.00	umhos/cm	503				0.4	20
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Batch B139023 - NO PREP

LCS (B139023-BS1)

Prepared: 09/19/11 16:00 Analyzed: 09/19/11 16:00

Total Dissolved Solids	104	10.0	mg/L	100		104	80-120		
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Duplicate (B139023-DUP1)

Source: 1109196-01

Prepared: 09/19/11 16:00 Analyzed: 09/19/11 16:00

Total Dissolved Solids	248	10.0	mg/L	246				0.8	20
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Batch B139042 - NO PREP

Blank (B139042-BLK1)

Prepared: 09/20/11 09:56 Analyzed: 09/20/11 15:27

Fluoride	<0.100	0.100	mg/L						
Chloride	<1.00	1.00	mg/L						
Nitrate as N	<0.50	0.50	mg/L						
Sulfate	<0.50	0.50	mg/L						

LCS (B139042-BS1)

Prepared: 09/20/11 09:56 Analyzed: 09/20/11 15:27

Fluoride	1.03	0.100	mg/L	1.00		103	80-120		
Chloride	4.78	1.00	mg/L	5.00		96	90-110		
Nitrate as N	4.53	0.50	mg/L	5.00		91	90-110		
Sulfate	5.10	0.50	mg/L	5.00		102	90-110		

LCS Dup (B139042-BSD1)

Prepared: 09/20/11 09:56 Analyzed: 09/20/11 15:27

Fluoride	0.957	0.100	mg/L	1.00		96	80-120	7	20
Chloride	5.14	1.00	mg/L	5.00		103	90-110	7	20
Nitrate as N	5.13	0.50	mg/L	5.00		103	90-110	12	20

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B139042 - NO PREP

LCS Dup (B139042-BSD1)

Prepared: 09/20/11 09:56 Analyzed: 09/20/11 15:27

Sulfate	5.12	0.50	mg/L	5.00		102	90-110	0.4	20
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Batch B139043 - NO PREP

Blank (B139043-BLK1)

Prepared: 09/20/11 14:45 Analyzed: 09/20/11 14:45

Total Alkalinity	<20.0	20.0	mg/L						
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LCS (B139043-BS1)

Prepared: 09/20/11 14:45 Analyzed: 09/20/11 14:45

Total Alkalinity	96.0	20.0	mg/L	106		91	80-120		
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Duplicate (B139043-DUP1)

Source: 1109196-01

Prepared: 09/20/11 14:45 Analyzed: 09/20/11 14:45

Total Alkalinity	200	20.0	mg/L	196				2	20
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Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B139045 - 200.7

Blank (B139045-BLK1)

Prepared: 09/22/11 08:15 Analyzed: 09/22/11 12:45

Copper	<0.020	0.020	mg/L						
Iron	<0.050	0.050	mg/L						
Manganese	<0.01	0.01	mg/L						
Sodium	<1.00	1.00	mg/L						
Aluminum	<0.050	0.050	mg/L						
Arsenic	<0.010	0.010	mg/L						
Lead	<0.010	0.010	mg/L						
Zinc	<0.010	0.010	mg/L						

Blank (B139045-BLK2)

Prepared: 09/22/11 08:15 Analyzed: 09/22/11 12:50

Copper	<0.020	0.020	mg/L						
Iron	<0.050	0.050	mg/L						
Manganese	<0.01	0.01	mg/L						
Sodium	<1.00	1.00	mg/L						
Aluminum	<0.050	0.050	mg/L						
Arsenic	<0.010	0.010	mg/L						
Lead	<0.010	0.010	mg/L						
Zinc	<0.010	0.010	mg/L						

LCS (B139045-BS1)

Prepared: 09/22/11 08:15 Analyzed: 09/22/11 12:56

Copper	2.12	0.020	mg/L	2.00		106	80-120		
Iron	2.09	0.050	mg/L	2.00		105	80-120		
Manganese	2.23	0.01	mg/L	2.00		111	80-120		
Sodium	2.22	1.00	mg/L	2.00		111	80-120		
Aluminum	2.15	0.050	mg/L	2.00		107	80-120		
Arsenic	2.23	0.010	mg/L	2.00		112	80-120		
Lead	2.26	0.010	mg/L	2.00		113	80-120		
Zinc	2.29	0.010	mg/L	2.00		115	80-120		

LCS (B139045-BS2)

Prepared: 09/22/11 08:15 Analyzed: 09/22/11 13:01

Copper	2.03	0.020	mg/L	2.00		101	80-120		
Iron	2.18	0.050	mg/L	2.00		109	80-120		

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit
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Batch B139045 - 200.7**LCS (B139045-BS2)**

Prepared: 09/22/11 08:15 Analyzed: 09/22/11 13:01

Manganese	2.13	0.01	mg/L	2.00		106	80-120		
Sodium	2.25	1.00	mg/L	2.00		113	80-120		
Aluminum	2.18	0.050	mg/L	2.00		109	80-120		
Arsenic	2.11	0.010	mg/L	2.00		106	80-120		
Lead	2.14	0.010	mg/L	2.00		107	80-120		
Zinc	2.17	0.010	mg/L	2.00		109	80-120		

LCS Dup (B139045-BSD1)

Prepared: 09/22/11 08:15 Analyzed: 09/22/11 13:06

Copper	2.11	0.020	mg/L	2.00		105	80-120	0.6	20
Iron	2.07	0.050	mg/L	2.00		104	80-120	1	20
Manganese	2.20	0.01	mg/L	2.00		110	80-120	1	20
Sodium	2.22	1.00	mg/L	2.00		111	80-120	0.04	20
Aluminum	2.15	0.050	mg/L	2.00		108	80-120	0.3	20
Arsenic	2.20	0.010	mg/L	2.00		110	80-120	1	20
Lead	2.22	0.010	mg/L	2.00		111	80-120	2	20
Zinc	2.26	0.010	mg/L	2.00		113	80-120	2	20

LCS Dup (B139045-BSD2)

Prepared: 09/22/11 08:15 Analyzed: 09/22/11 13:12

Copper	2.07	0.020	mg/L	2.00		104	80-120	2	20
Iron	2.18	0.050	mg/L	2.00		109	80-120	0.2	20
Manganese	2.20	0.01	mg/L	2.00		110	80-120	3	20
Sodium	2.27	1.00	mg/L	2.00		114	80-120	0.8	20
Aluminum	2.18	0.050	mg/L	2.00		109	80-120	0.2	20
Arsenic	2.19	0.010	mg/L	2.00		110	80-120	4	20
Lead	2.22	0.010	mg/L	2.00		111	80-120	4	20
Zinc	2.26	0.010	mg/L	2.00		113	80-120	4	20

Batch B202113 - 200.7**Blank (B202113-BLK1)**

Prepared: 01/13/12 14:30 Analyzed: 09/22/11 12:45

Calcium	<1.00	1.00	mg/L						
Magnesium	<0.010	0.010	mg/L						

LCS (B202113-BS1)

Prepared: 09/22/11 12:56 Analyzed: 09/22/11 12:56

Calcium	2.18	1.00	mg/L	2.00		109	80-120		
Magnesium	2.26	0.010	mg/L	2.00		113	80-120		

LCS Dup (B202113-BSD1)

Prepared: 09/22/11 13:06 Analyzed: 09/22/11 13:06

Calcium	2.15	1.00	mg/L	2.00		108	80-120	1	20
Magnesium	2.22	0.010	mg/L	2.00		111	80-120	2	20

Hardness as CaCO3 (MCL >120 = Hard water) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit
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Batch B139045 - 200.7**Blank (B139045-BLK2)**

Prepared: 09/22/11 08:15 Analyzed: 09/22/11 16:05

Hardness	<0.050	0.050	mg/L						
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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.

- H pH and temperature are field tests and should be analyzed within 15 minutes. Due to transportation, hold time has been exceeded.
- PQL Practical Quantitation Limit
- mg/Kg Milligrams per Kilogram (Parts per Million)
- mg/L Milligrams per Liter (Parts per Million)
- PPM Parts per Million
- * TNI / NELAC accredited analyte
- RMCCCL Recommended Maximum Concentration of Contaminants Level
- N.S.E No Standard Established
- 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

Sandra Felix 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



Sample Receipt Checklist

Client: SATL Report Number: 1109196
 Project Name: _____ Date Received: 9-19-11
 Shipped via: FedEx UPS Lonestar Hand Delivered DHL SATL Other Date Due: 9-22-11
 Rush: Specify: 3-5 2 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	<input type="checkbox"/>	If NA-reason:	
2. Custody Seals intact?	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	If NA-reason:	
3. Air Bill included in folder, if received?	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	If NA-reason:	
4. Is COC included with samples?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	NA	<input type="checkbox"/>	If NA-reason:	
5. Is COC signed and dated by client?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	NA	<input type="checkbox"/>	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	<input type="checkbox"/>	Temp	<u>21.8 °C</u>
7. Samples received with ice <input checked="" type="checkbox"/> ice packs <input type="checkbox"/> other cooling <input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	NA	<input type="checkbox"/>	If NA-reason:	
8. Is the COC filled out correctly, and completely?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	NA	<input type="checkbox"/>	If NA-reason:	
9. Information on the COC matches the samples?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	NA	<input type="checkbox"/>	If NA-reason:	
10. Samples received within holding time?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	NA	<input type="checkbox"/>	If NA-reason:	
11. Samples properly labeled?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	NA	<input type="checkbox"/>	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	<input type="checkbox"/>	If NA-reason:	
13. Proper sample containers used?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	NA	<input type="checkbox"/>	If NA-reason:	
14. All samples received intact, containers not damaged or leaking?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	NA	<input type="checkbox"/>	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 checked="" type="checkbox"/>	NA	<input type="checkbox"/>	If NA-reason:	
16. Sample volume sufficient for requested analysis?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	NA	<input type="checkbox"/>	If NA-reason:	
17. Subcontracted Samples: [if Yes, complete the next section]	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>	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: ST Date: 9-19-11
 Labeled By: _____ Date: _____
 Logged into LIMS By: ↓ Date: ↓
 Logged into RF By: _____ Date: _____