City of Abilene
Environmental Laboratory Report

T104704320-21-24

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Report To

Pam Cantwell

Pam Cantwell
[redacted]

Sample Information

Project: Well
Project Number: [none]
Collector:
Collector Phone: [redacted]
Date Received: 07/09/21 16:11
Received By:
Report Date: 07/21/2021

Well **C1G0911-01** **Date Sample: 09-Jul-2021 15:00**

Sample Type:

Analyte	Result	Units	Minimum Reporting Limit	Method	Batch	Analyst	Analysis Date	Notes
Chloride	ND	mg/L	1.0	EPA 300.0	CG11705	TJH	7/13/21 10:58	QM-11
Fluoride	ND	mg/L	0.10	EPA 300.0	CG11705	TJH	7/20/21 14:04	QM-09
Nitrate as N	**0.31**	**mg/L**	0.20	EPA 300.0	CG11705	TJH	7/20/21 14:58	O-04, QM-09
Sulfate	ND	mg/L	1.00	EPA 300.0	CG11705	TJH	7/20/21 14:13	QM-11
Alkalinity (P)	ND	mg/L	20.0	SM 2320 B	CG11314	WB	7/13/21 11:50	AP-01
Alkalinity (T)	**411**	**mg/L**	20.0	SM 2320 B	CG11314	WB	7/13/21 11:50	AT-01
Hardness(EDTA)	**1200**	**mg/L**	5.00	SM 2340 C	CG11502	WB	7/15/21 9:19	
pH @ 25C	**6.8**	**pH Units**		SM 4500 H+B	CG10915	WB	7/9/21 16:35	O-04
E. coli	ND	CFU/100 ml		SM 9223	CG11301	LS	7/10/21 9:00	
Total Coliforms	ND	CFU/100 ml		SM 9223	CG11301	LS	7/10/21 9:00	
Conductivity @ 25C	**281**	**umhos/cm**	2.00	SM 2510 B	CG11404	WB	7/14/21 11:37	

ND=not detected; <= less than; ug/L = ppb; mg/L = ppm; mg/kg = ppm

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch CG10915 - Gen Prep - ISE									
Duplicate (CG10915-DUP1)		**Source: C1G0911-01**		Prepared & Analyzed: 07/09/21					
pH @ 25C	6.8		pH Units		6.8			0.00	15
Batch CG11314 - Gen Prep - Wet Chem									
Blank (CG11314-BLK1)				Prepared & Analyzed: 07/13/21					
Alkalinity (P)	ND	20.0	mg/L						
Alkalinity (T)	ND	20.0	"						
LCS (CG11314-BS1)				Prepared & Analyzed: 07/13/21					
Alkalinity (T)	116	20.0	mg/L	118		98.0	90-110		
Duplicate (CG11314-DUP1)		**Source: C1F3006-01**		Prepared & Analyzed: 07/13/21					
Alkalinity (P)	ND	20.0	mg/L		ND				15
Alkalinity (T)	184	20.0	"		185			0.509	15
Matrix Spike (CG11314-MS1)		**Source: C1F3006-01**		Prepared & Analyzed: 07/13/21					
Alkalinity (T)	251	20.0	mg/L	70.8	185	92.9	90-110		
Batch CG11502 - Gen Prep - Wet Chem									
Blank (CG11502-BLK1)				Prepared & Analyzed: 07/15/21					
Hardness(EDTA)	ND	5.00	mg/L						
LCS (CG11502-BS1)				Prepared & Analyzed: 07/15/21					
Hardness(EDTA)	100	5.00	mg/L	100		100	90-110		

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Convential Chemistry Parameters by Standard Methods - Quality Control

City of Abilene

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch CG11502 - Gen Prep - Wet Chem									
Duplicate (CG11502-DUP1)		**Source: C1G0611-01**		Prepared & Analyzed: 07/15/21					
Hardness(EDTA)	840	5.00	mg/L		860			2.35	15
Matrix Spike (CG11502-MS1)		**Source: C1G0611-01**		Prepared & Analyzed: 07/15/21					
Hardness(EDTA)	1260	5.00	mg/L	400	860	100	90-110		

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch CG11404 - Gen Prep - Wet Chem									
Blank (CG11404-BLK1)				Prepared & Analyzed: 07/14/21					
Conductivity @ 25C	2.00	2.00	umhos/cm						
LCS (CG11404-BS1)				Prepared & Analyzed: 07/14/21					
Conductivity @ 25C	1380	2.00	umhos/cm	1410		98.2	90-110		
Duplicate (CG11404-DUP1)		**Source: C1G0904-01**		Prepared & Analyzed: 07/14/21					
Conductivity @ 25C	329	2.00	umhos/cm		331			0.606	15

ND=not detected; <= less than; ug/L = ppb; mg/L = ppm; mg/kg = ppm

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Anions by EPA Method 300.0 - Quality Control

City of Abilene

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch CG11705 - Gen Prep - IC									
Blank (CG11705-BLK1)				Prepared & Analyzed: 07/13/21					
Chloride	ND	1.0	mg/L						
Sulfate	ND	1.00	"						
Fluoride	ND	0.10	"						
Nitrate as N	ND	0.20	"						
LCS (CG11705-BS1)				Prepared: 07/13/21 Analyzed: 07/20/21					
Sulfate	9.35	1.00	mg/L				90-110		
Nitrate as N	0.43	0.20	"				90-110		
Fluoride	0.37	0.10	"				90-110		
Chloride	9.4	1.0	"				90-110		
Duplicate (CG11705-DUP1)		**Source: C1G1210-01**		Prepared & Analyzed: 07/13/21					
Chloride	295	1.0	mg/L		294			0.588	15
Fluoride	0.20	0.10	"		0.20			1.62	15
Nitrate as N	0.22	0.20	"		0.22			0.323	15
Sulfate	267	1.00	"		266			0.115	15
Matrix Spike (CG11705-MS1)		**Source: C1G1210-01**		Prepared: 07/13/21 Analyzed: 07/20/21					
Fluoride	0.43	0.10	mg/L	3.00	0.20	7.52	80-120		
Nitrate as N	0.36	0.20	"	3.00	0.22	4.78	80-120		
Sulfate	91.0	1.00	"	30.0	266	NR	80-120		
Chloride	222	1.0	"	30.0	294	NR	80-120		

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Microbiological Parameters by Standard Methods - Quality Control

City of Abilene

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch CG11301 - Gen Prep-Bacteria									
Blank (CG11301-BLK1)			Prepared & Analyzed: 07/10/21						
Total Coliforms	ND		CFU/100 ml						
E. coli	ND		"						

Notes and Definitions

QM-11	Matrix spike recovery should not be calculated (EPA 300.0 9.4.1.1)
QM-09	The MS was outside of accepted Quality Control range. This batch was accepted because the LCS and the RPD show that the analysis is in control.
O-04	This sample was analyzed outside the EPA recommended holding time.
AT-01	Alkalinity to pH 4.4 (inflection point)
AP-01	Alkalinity to pH 8.3
ND	Analyte NOT DETECTED at or below the reporting limit
NR	Not Reported
RPD	Relative Percent Difference

Michael Michaud
Laboratory Manager

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