



August 20, 2014

Oil Conservation Division
District 2 – Artesia
811 S. First St.
Artesia, NM 88210

Re: SRO State Com #5
30-015-37425
Sec. 8, T26S-R28E
Eddy County, NM

Mr. Mike Bratcher,

COG Operating LLC would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is in response to the C-141 Initial report dated July 10, 2014.

Background

The release was due to a well control issue that occurred during a routine pump change. Fluid released was a light spray and was mitigated through the construction of berms to control any standing fluid. All Standing fluid was picked up and disposed of at an NMOCD approved facility. An area approximately 5200 square feet was impacted off location to the north. The rest of the impact was confined to the pad area. This area was addressed with an initial scrape and all impacted material hauled to an NMOCD approved facility.

Groundwater

This area has limited ground water data (per NMOSE), therefore geotechnical data from a nearby construction project and information ascertained from Chevron Trend Maps, was used to determine a site ranking of Zero (0). Depth to groundwater is approximately 100'.

Soil Assessment and Analytical Results

Initial soil samples were taken on 7-14-2014. Samples indicated TPH and BTEX were within RRALs for a site ranking zero. Chloride concentrations in sampling areas S1, S2, S3, S4, S6, and S7 were elevated at 1' depth for surface reclamation, therefore further delineation was conducted for off pad sampling points S7, S9, and S10 (see attached site diagram labeled *Initial Sampling and Delineation*).

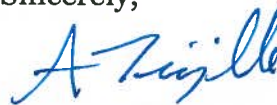
Work Plan

COG proposes the following work:

- Excavation by scraping of 6" – 12' of material from the pad in the heavy and light impact areas. Followed by resurfacing of the pad. (See areas on diagram labeled *Overview Maps*).
- Excavation by scraping of 6" – 12' of material from the offsite area (S6) labeled in blue on the site diagram labeled *Delineation*. Impact in this area was suitable for surface reclamation after 1'.
- Excavation by scraping of 3' of material from the offsite area (S7, S9, S10) labeled in red on the site diagram labeled *Delineation*. Removal of 3' will accomplish vegetation of native plant communities.

If there are no objections or further stipulations, COG Operating LLC would like to begin the remediation process based on approval of this work plan. Please feel free to contact me with any questions or concerns at (505) 350-1336

Sincerely,



Amanda Trujillo

Senior Environmental Scientist

Enclosed

- (1) C-141 Initial
- (2) Site Diagram – Overview Maps
- (3) Site Diagram – Initial Sampling
- (4) Site Diagram - Delineation
- (5) Laboratory Analysis

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

JUL 14 2014

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	COG OPERATING LLC	Contact	Robert McNeill
Address	600 West Illinois Avenue, Midland, TX 79701	Telephone No.	432-230-0077
Facility Name	SRO State Com #5H	Facility Type	Well
Surface Owner State	Mineral Owner	Lease No. (API#) 30-015-37425	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	8	26S	28E	660	South	330	West	Eddy

Latitude Longitude

NATURE OF RELEASE

Type of Release Produced water and Condensate	Volume of Release Unknown (bbls)	Volume Recovered Unknown (bbls)
Source of Release Well Control Issue	Date and Hour of Occurrence 07-01-2014 2:30 pm	Date and Hour of Discovery 07-01-2014 2:30 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Randy Dade - NMOCD	
By Whom? Amanda Trujillo	Date and Hour 07-02-2014 09:30am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

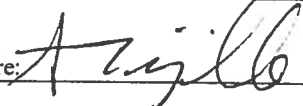
Describe Cause of Problem and Remedial Action Taken.*

During a routine pump change, while pulling tubing, the well kicked, and the BOP rams were unable to close around the tubing. A third party well service company addressed the issue. During the event fluid being releases was a light mist. All free standing fluids picked up and disposed of at an NMOCD approved facility.

Describe Area Affected and Cleanup Action Taken.*

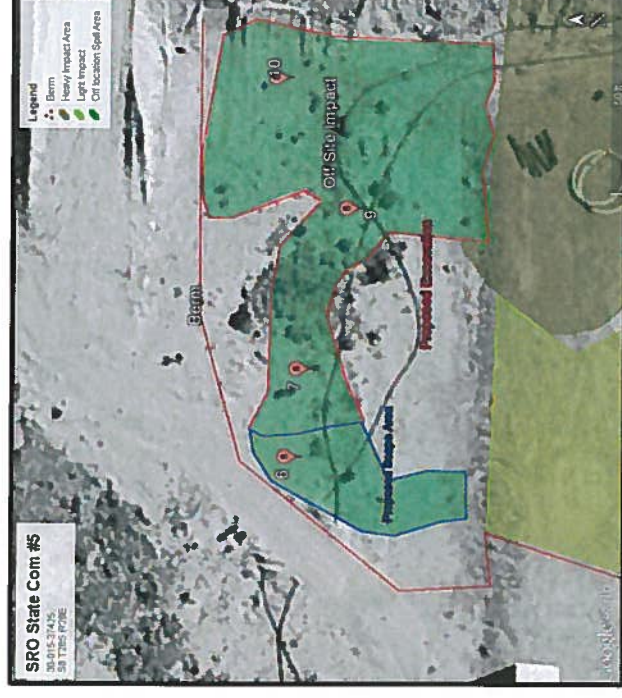
Main impact area was contained to the pad. Berms were constructed to control any runoff. All free fluids have been recovered. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION		
Printed Name: Amanda Trujillo	Approved by District Supervisor:		
Title: Senior Environmental Coordinator	Approval Date:	Expiration Date:	
E-mail Address: atrujillo@concho.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 07-10-2014	Phone: 575-748-6940		

* Attach Additional Sheets If Necessary

SRO State Com #5 – Overview Maps



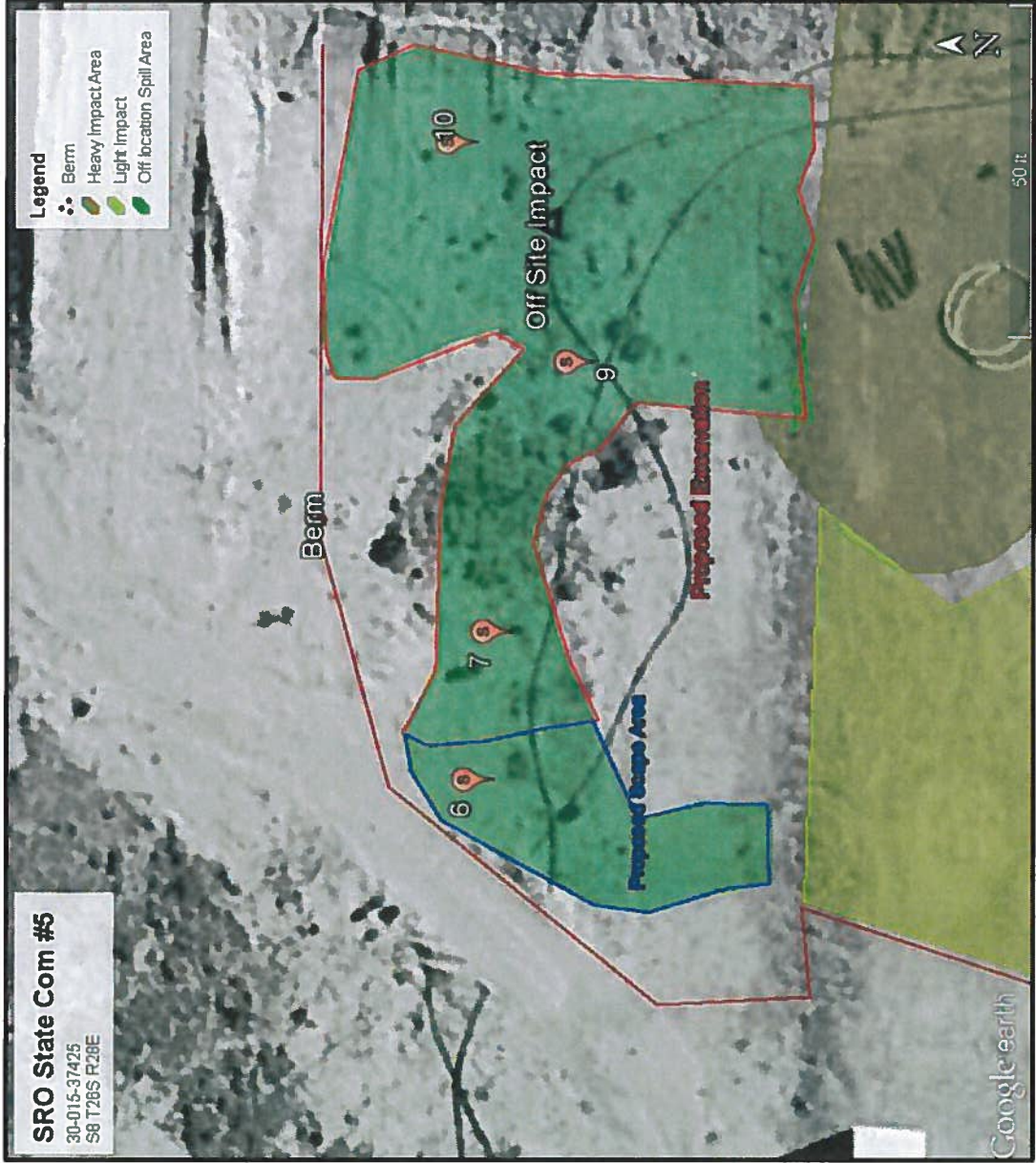
SRO State Com #5 – Initial Sampling



Site Ranking: 0
Depth to GW per SEO: 100'

Heavy Impact Area						
S1	DRO	GRO	TPH	BTEX	CI-	
1'	<10.0	<10.0	<10.0	<0.300		4880
2'	<50.0	<50.0	<50.0	<0.300		160
3'	<10.0	<10.0	<10.0	<0.300		80
S2	DRO	GRO	TPH	BTEX	CI-	
1'	<10.0	141	141	<0.300		5760
2'	<10.0	<10.0	<10.0	<0.300		272
3'	<10.0	<10.0	<10.0	<0.300		128
S3	DRO	GRO	TPH	BTEX	CI-	
1'	<10.0	<10.0	<10.0	<0.300		3760
2'	<10.0	<10.0	<10.0	<0.300		1060
3'	<10.0	<10.0	<10.0	<0.300		192
Light Impact Area						
S4	DRO	GRO	TPH	BTEX	CI-	
1'	<10.0	115	115	<0.300		2920
2'	<50.0	<50.0	<50.0	<0.300		784
3'	<10.0	<10.0	<10.0	<0.300		176
S5	DRO	GRO	TPH	BTEX	CI-	
1'	<10.0	<10.0	<10.0	<0.300		256
2'	<10.0	<10.0	<10.0	<0.300		64
3'	<10.0	<10.0	<10.0	<0.300		80
Off Site Impact Area						
S6	DRO	GRO	TPH	BTEX	CI-	
1'	<10.0	45	45	<0.300		1680
2'	<50.0	<50.0	<50.0	<0.300		352
3'	<10.0	<10.0	<10.0	<0.300		400
S7	DRO	GRO	TPH	BTEX	CI-	
1'	<10.0	141	141	<0.300		12300
2'	<10.0	<10.0	<10.0	<0.300		6320
3'	<10.0	<10.0	<10.0	<0.300		11200
Bold values exceed RRALs per NMOCD Guidelines (1993)						

SRO State Com #5 – Delineation



Site Ranking: Zero

Depth to GW per SEO: 100'

Off Site Impact Area

S6	DRO	GRO	TPH	BTEX	CI-
1'	< 10.0	45	45	<0.300	1680
2'	< 50.0	< 50.0	< 50.0	<0.300	352
3'	< 10.0	< 10.0	< 10.0	<0.300	400
S7	DRO	GRO	TPH	BTEX	CI-
1'	< 10.0	141	141	<0.300	12300
2'	< 10.0	< 10.0	< 10.0	<0.300	6320
3'	< 10.0	< 10.0	< 10.0	<0.300	11200
S9	DRO	GRO	TPH	BTEX	CI-
4'					576
6'					176
8'					80
10'					272
S10	DRO	GRO	TPH	BTEX	CI-



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

July 15, 2014

AMANDA TRUJILLO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: SRO #5

Enclosed are the results of analyses for samples received by the laboratory on 07/14/14 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 AMANDA TRUJILLO
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 07/14/2014
 Reported: 07/15/2014
 Project Name: SRO #5
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/14/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1-1' (H402134-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2014	ND	1.72	86.2	2.00	5.35	
Toluene*	<0.050	0.050	07/15/2014	ND	1.66	82.8	2.00	5.96	
Ethylbenzene*	<0.050	0.050	07/15/2014	ND	1.56	78.0	2.00	7.61	
Total Xylenes*	<0.150	0.150	07/15/2014	ND	4.79	79.9	6.00	6.70	
Total BTEX	<0.300	0.300	07/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	07/15/2014	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	194	96.8	200	1.03	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	202	101	200	0.615	

Surrogate: 1-Chlorooctane 129 % 65.2-140

Surrogate: 1-Chlorooctadecane 136 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 AMANDA TRUJILLO
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 07/14/2014
 Reported: 07/15/2014
 Project Name: SRO #5
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/14/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1-2' (H402134-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2014	ND	1.72	86.2	2.00	5.35	
Toluene*	<0.050	0.050	07/15/2014	ND	1.66	82.8	2.00	5.96	
Ethylbenzene*	<0.050	0.050	07/15/2014	ND	1.56	78.0	2.00	7.61	
Total Xylenes*	<0.150	0.150	07/15/2014	ND	4.79	79.9	6.00	6.70	
Total BTEX	<0.300	0.300	07/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/15/2014	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	194	96.8	200	1.03	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	202	101	200	0.615	

Surrogate: 1-Chlorooctane 121 % 65.2-140

Surrogate: 1-Chlorooctadecane 127 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 AMANDA TRUJILLO
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 07/14/2014
 Reported: 07/15/2014
 Project Name: SRO #5
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/14/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1-3' (H402134-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2014	ND	1.72	86.2	2.00	5.35	
Toluene*	<0.050	0.050	07/15/2014	ND	1.66	82.8	2.00	5.96	
Ethylbenzene*	<0.050	0.050	07/15/2014	ND	1.56	78.0	2.00	7.61	
Total Xylenes*	<0.150	0.150	07/15/2014	ND	4.79	79.9	6.00	6.70	
Total BTEX	<0.300	0.300	07/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/15/2014	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	194	96.8	200	1.03	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	202	101	200	0.615	

Surrogate: 1-Chlorooctane 120 % 65.2-140

Surrogate: 1-Chlorooctadecane 130 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
AMANDA TRUJILLO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 07/14/2014
Reported: 07/15/2014
Project Name: SRO #5
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-1' (H402134-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2014	ND	1.72	86.2	2.00	5.35	
Toluene*	<0.050	0.050	07/15/2014	ND	1.66	82.8	2.00	5.96	
Ethylbenzene*	<0.050	0.050	07/15/2014	ND	1.56	78.0	2.00	7.61	
Total Xylenes*	<0.150	0.150	07/15/2014	ND	4.79	79.9	6.00	6.70	
Total BTEX	<0.300	0.300	07/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	07/15/2014	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	194	96.8	200	1.03	
DRO >C10-C28	141	10.0	07/15/2014	ND	202	101	200	0.615	

Surrogate: 1-Chlorooctane 120 % 65.2-140

Surrogate: 1-Chlorooctadecane 130 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
AMANDA TRUJILLO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 07/14/2014
Reported: 07/15/2014
Project Name: SRO #5
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-2' (H402134-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2014	ND	1.72	86.2	2.00	5.35	
Toluene*	<0.050	0.050	07/15/2014	ND	1.66	82.8	2.00	5.96	
Ethylbenzene*	<0.050	0.050	07/15/2014	ND	1.56	78.0	2.00	7.61	
Total Xylenes*	<0.150	0.150	07/15/2014	ND	4.79	79.9	6.00	6.70	
Total BTEX	<0.300	0.300	07/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/15/2014	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	194	96.8	200	1.03	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	202	101	200	0.615	

Surrogate: 1-Chlorooctane 120 % 65.2-140

Surrogate: 1-Chlorooctadecane 128 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
AMANDA TRUJILLO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 07/14/2014
Reported: 07/15/2014
Project Name: SRO #5
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-3' (H402134-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2014	ND	1.72	86.2	2.00	5.35	
Toluene*	<0.050	0.050	07/15/2014	ND	1.66	82.8	2.00	5.96	
Ethylbenzene*	<0.050	0.050	07/15/2014	ND	1.56	78.0	2.00	7.61	
Total Xylenes*	<0.150	0.150	07/15/2014	ND	4.79	79.9	6.00	6.70	
Total BTEX	<0.300	0.300	07/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/15/2014	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	194	96.8	200	1.03	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	202	101	200	0.615	

Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 123 % 63.6-154

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Analytical Results For:

COG OPERATING
AMANDA TRUJILLO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 07/14/2014
Reported: 07/15/2014
Project Name: SRO #5
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3-1' (H402134-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2014	ND	1.72	86.2	2.00	5.35	
Toluene*	<0.050	0.050	07/15/2014	ND	1.66	82.8	2.00	5.96	
Ethylbenzene*	<0.050	0.050	07/15/2014	ND	1.56	78.0	2.00	7.61	
Total Xylenes*	<0.150	0.150	07/15/2014	ND	4.79	79.9	6.00	6.70	
Total BTEX	<0.300	0.300	07/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	07/15/2014	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	194	96.8	200	1.03	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	202	101	200	0.615	

Surrogate: 1-Chlorooctane 118 % 65.2-140

Surrogate: 1-Chlorooctadecane 122 % 63.6-154

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COG OPERATING
AMANDA TRUJILLO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 07/14/2014
Reported: 07/15/2014
Project Name: SRO #5
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3-2' (H402134-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2014	ND	1.72	86.2	2.00	5.35	
Toluene*	<0.050	0.050	07/15/2014	ND	1.66	82.8	2.00	5.96	
Ethylbenzene*	<0.050	0.050	07/15/2014	ND	1.56	78.0	2.00	7.61	
Total Xylenes*	<0.150	0.150	07/15/2014	ND	4.79	79.9	6.00	6.70	
Total BTEX	<0.300	0.300	07/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	07/15/2014	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	194	96.8	200	1.03	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	202	101	200	0.615	

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 122 % 63.6-154

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AMANDA TRUJILLO
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ARTESIA NM, 88210
Fax To: NONE

Received: 07/14/2014
Reported: 07/15/2014
Project Name: SRO #5
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3-3' (H402134-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2014	ND	1.72	86.2	2.00	5.35	
Toluene*	<0.050	0.050	07/15/2014	ND	1.66	82.8	2.00	5.96	
Ethylbenzene*	<0.050	0.050	07/15/2014	ND	1.56	78.0	2.00	7.61	
Total Xylenes*	<0.150	0.150	07/15/2014	ND	4.79	79.9	6.00	6.70	
Total BTEX	<0.300	0.300	07/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/15/2014	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	194	96.8	200	1.03	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	202	101	200	0.615	

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 123 % 63.6-154

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P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 07/14/2014
Reported: 07/15/2014
Project Name: SRO #5
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S4-1' (H402134-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2014	ND	1.72	86.2	2.00	5.35	
Toluene*	<0.050	0.050	07/15/2014	ND	1.66	82.8	2.00	5.96	
Ethylbenzene*	<0.050	0.050	07/15/2014	ND	1.56	78.0	2.00	7.61	
Total Xylenes*	<0.150	0.150	07/15/2014	ND	4.79	79.9	6.00	6.70	
Total BTEX	<0.300	0.300	07/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	07/15/2014	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	194	96.8	200	1.03	
DRO >C10-C28	115	10.0	07/15/2014	ND	202	101	200	0.615	

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 127 % 63.6-154

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 ARTESIA NM, 88210
 Fax To: NONE

 Received: 07/14/2014
 Reported: 07/15/2014
 Project Name: SRO #5
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/14/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S4-2' (H402134-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2014	ND	1.72	86.2	2.00	5.35	
Toluene*	<0.050	0.050	07/15/2014	ND	1.66	82.8	2.00	5.96	
Ethylbenzene*	<0.050	0.050	07/15/2014	ND	1.56	78.0	2.00	7.61	
Total Xylenes*	<0.150	0.150	07/15/2014	ND	4.79	79.9	6.00	6.70	
Total BTEX	<0.300	0.300	07/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	07/15/2014	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	194	96.8	200	1.03	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	202	101	200	0.615	

Surrogate: 1-Chlorooctane 118 % 65.2-140

Surrogate: 1-Chlorooctadecane 127 % 63.6-154

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AMANDA TRUJILLO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 07/14/2014
Reported: 07/15/2014
Project Name: SRO #5
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S4-3' (H402134-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2014	ND	1.72	86.2	2.00	5.35	
Toluene*	<0.050	0.050	07/15/2014	ND	1.66	82.8	2.00	5.96	
Ethylbenzene*	<0.050	0.050	07/15/2014	ND	1.56	78.0	2.00	7.61	
Total Xylenes*	<0.150	0.150	07/15/2014	ND	4.79	79.9	6.00	6.70	
Total BTEX	<0.300	0.300	07/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/15/2014	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	194	96.8	200	1.03	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	202	101	200	0.615	

Surrogate: 1-Chlorooctane 120 % 65.2-140

Surrogate: 1-Chlorooctadecane 127 % 63.6-154

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Analytical Results For:

COG OPERATING
AMANDA TRUJILLO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 07/14/2014
Reported: 07/15/2014
Project Name: SRO #5
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S5-1' (H402134-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2014	ND	1.72	86.2	2.00	5.35	
Toluene*	<0.050	0.050	07/15/2014	ND	1.66	82.8	2.00	5.96	
Ethylbenzene*	<0.050	0.050	07/15/2014	ND	1.56	78.0	2.00	7.61	
Total Xylenes*	<0.150	0.150	07/15/2014	ND	4.79	79.9	6.00	6.70	
Total BTEX	<0.300	0.300	07/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	07/15/2014	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	194	96.8	200	1.03	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	202	101	200	0.615	

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 63.6-154

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Analytical Results For:

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AMANDA TRUJILLO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 07/14/2014
Reported: 07/15/2014
Project Name: SRO #5
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S5-2' (H402134-14)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2014	ND	1.72	86.2	2.00	5.35	
Toluene*	<0.050	0.050	07/15/2014	ND	1.66	82.8	2.00	5.96	
Ethylbenzene*	<0.050	0.050	07/15/2014	ND	1.56	78.0	2.00	7.61	
Total Xylenes*	<0.150	0.150	07/15/2014	ND	4.79	79.9	6.00	6.70	
Total BTEX	<0.300	0.300	07/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/15/2014	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	194	96.8	200	1.03	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	202	101	200	0.615	

Surrogate: 1-Chlorooctane 107 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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AMANDA TRUJILLO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 07/14/2014
Reported: 07/15/2014
Project Name: SRO #5
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S5-3' (H402134-15)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2014	ND	1.72	86.2	2.00	5.35	
Toluene*	<0.050	0.050	07/15/2014	ND	1.66	82.8	2.00	5.96	
Ethylbenzene*	<0.050	0.050	07/15/2014	ND	1.56	78.0	2.00	7.61	
Total Xylenes*	<0.150	0.150	07/15/2014	ND	4.79	79.9	6.00	6.70	
Total BTEX	<0.300	0.300	07/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/15/2014	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	194	96.8	200	1.03	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	202	101	200	0.615	

Surrogate: 1-Chlorooctane 118 % 65.2-140

Surrogate: 1-Chlorooctadecane 127 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
AMANDA TRUJILLO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 07/14/2014
Reported: 07/15/2014
Project Name: SRO #5
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S6-1' (H402134-16)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2014	ND	1.72	86.2	2.00	5.35	
Toluene*	<0.050	0.050	07/15/2014	ND	1.66	82.8	2.00	5.96	
Ethylbenzene*	<0.050	0.050	07/15/2014	ND	1.56	78.0	2.00	7.61	
Total Xylenes*	<0.150	0.150	07/15/2014	ND	4.79	79.9	6.00	6.70	
Total BTEX	<0.300	0.300	07/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	07/15/2014	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	194	96.8	200	1.03	
DRO >C10-C28	45.3	10.0	07/15/2014	ND	202	101	200	0.615	

Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
AMANDA TRUJILLO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 07/14/2014
Reported: 07/15/2014
Project Name: SRO #5
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S6-2' (H402134-17)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2014	ND	1.72	86.2	2.00	5.35	
Toluene*	<0.050	0.050	07/15/2014	ND	1.66	82.8	2.00	5.96	
Ethylbenzene*	<0.050	0.050	07/15/2014	ND	1.56	78.0	2.00	7.61	
Total Xylenes*	<0.150	0.150	07/15/2014	ND	4.79	79.9	6.00	6.70	
Total BTEX	<0.300	0.300	07/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/15/2014	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	194	96.8	200	1.03	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	202	101	200	0.615	

Surrogate: 1-Chlorooctane 121 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
AMANDA TRUJILLO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 07/14/2014
Reported: 07/15/2014
Project Name: SRO #5
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S6-3' (H402134-18)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2014	ND	1.72	86.2	2.00	5.35	
Toluene*	<0.050	0.050	07/15/2014	ND	1.66	82.8	2.00	5.96	
Ethylbenzene*	<0.050	0.050	07/15/2014	ND	1.56	78.0	2.00	7.61	
Total Xylenes*	<0.150	0.150	07/15/2014	ND	4.79	79.9	6.00	6.70	
Total BTEX	<0.300	0.300	07/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	07/15/2014	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	194	96.8	200	1.03	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	202	101	200	0.615	

Surrogate: 1-Chlorooctane 123 % 65.2-140

Surrogate: 1-Chlorooctadecane 133 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
AMANDA TRUJILLO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 07/14/2014
Reported: 07/15/2014
Project Name: SRO #5
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S7-1' (H402134-19)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2014	ND	1.72	86.2	2.00	5.35	
Toluene*	<0.050	0.050	07/15/2014	ND	1.66	82.8	2.00	5.96	
Ethylbenzene*	<0.050	0.050	07/15/2014	ND	1.56	78.0	2.00	7.61	
Total Xylenes*	<0.150	0.150	07/15/2014	ND	4.79	79.9	6.00	6.70	
Total BTEX	<0.300	0.300	07/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12300	16.0	07/15/2014	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	194	96.8	200	1.03	
DRO >C10-C28	141	10.0	07/15/2014	ND	202	101	200	0.615	

Surrogate: 1-Chlorooctane 117 % 65.2-140

Surrogate: 1-Chlorooctadecane 123 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
AMANDA TRUJILLO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 07/14/2014
Reported: 07/15/2014
Project Name: SRO #5
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S7-2' (H402134-20)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2014	ND	1.72	86.2	2.00	5.35	
Toluene*	<0.050	0.050	07/15/2014	ND	1.66	82.8	2.00	5.96	
Ethylbenzene*	<0.050	0.050	07/15/2014	ND	1.56	78.0	2.00	7.61	
Total Xylenes*	<0.150	0.150	07/15/2014	ND	4.79	79.9	6.00	6.70	
Total BTEX	<0.300	0.300	07/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	07/15/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	194	96.8	200	1.03	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	202	101	200	0.615	

Surrogate: 1-Chlorooctane 120 % 65.2-140

Surrogate: 1-Chlorooctadecane 129 % 63.6-154

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
AMANDA TRUJILLO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 07/14/2014
Reported: 07/15/2014
Project Name: SRO #5
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S7-3' (H402134-21)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2014	ND	1.95	97.5	2.00	6.70	
Toluene*	<0.050	0.050	07/15/2014	ND	1.96	98.0	2.00	4.51	
Ethylbenzene*	<0.050	0.050	07/15/2014	ND	1.98	99.0	2.00	4.74	
Total Xylenes*	<0.150	0.150	07/15/2014	ND	6.10	102	6.00	4.88	
Total BTEX	<0.300	0.300	07/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	07/15/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2014	ND	182	90.8	200	1.69	
DRO >C10-C28	<10.0	10.0	07/15/2014	ND	190	94.8	200	6.55	

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 122 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

5) 393-2326
#54



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Cardinal Laboratories		BILL TO		ANALYSIS REQUEST																							
Project Manager: Howard Trujillo		P.O. #:																									
Address:		Company:		C06																							
City:		Attn:																									
Phone #:		Address:																									
Fax #:		City:																									
Project #:		State:		Zip:																							
Project Name: SKO #5		Phone #:																									
Project Location:		Fax #:																									
Sampler Name:		FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING															
				GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :													
				ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME															
H402134		54 -1'								7/4/14				TPH													
11		54 -2'												BTEX													
12		54 -3'												Chloride													
13		55 -1'																									
14		55 -2'																									
15		55 -3'																									
16		56 -1'																									
17		56 -2'																									
18		56 -3'																									
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid for the service for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, as subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																											
Relinquished By: Howard Trujillo		Date: 7/4/14		Received By: Howard Trujillo		Date: 7/4/14		Time: 3:45pm		Time: 1:42		Sample Condition: 1.42		CHECKED BY: HSU													
Delivered By: (Circle One)		Cool		Intact		Yes		No		Yes		No		Add'l Phone #:													
Sampler - UPS - Bus - Other:		Cool		Intact		Yes		No		Yes		No		Add'l Fax #:													
REMARKS: Email: atrujillo@cardinal.com																											

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: COG

Project Manager: Amanda Tryile

Address:

City:

State:

Zip:

Phone #:

Fax #:

Project #:

Project Owner:

Project Name: SRD #5

Project Location:

Sampler Name:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

14402134

1

57-1'

20 57-2'

21 57-3'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

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TIME

BTX

TPH

Chloride

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Relinquished By:

Amanda Tryile

Date:

7/1/14

Received By:

Amanda Tryile

Relinquished By:

Amanda Tryile

Date:

7/1/14

Received By:

Amanda Tryile

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

1.42

Sample Condition
Cool ☒ Intact ☒
Yes ☒ No ☒

CHECKED BY:
(Initials)

AT

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:

Email: atryile@concho.com

lush!

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

54

July 31, 2014

AMANDA TRUJILLO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: SRO STATE COM #5

Enclosed are the results of analyses for samples received by the laboratory on 07/25/14 15:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Hope S. Moreno For Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 AMANDA TRUJILLO
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 07/25/2014
 Reported: 07/31/2014
 Project Name: SRO STATE COM #5
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/24/2014
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: S9 4' (H402290-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	07/28/2014	ND	400	100	400	0.00	

Sample ID: S9 6' (H402290-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/28/2014	ND	400	100	400	0.00	

Sample ID: S9 8' (H402290-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/28/2014	ND	400	100	400	0.00	

Sample ID: S9 10' (H402290-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/28/2014	ND	400	100	400	0.00	

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Analytical Results For:

 COG OPERATING
 AMANDA TRUJILLO
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 07/25/2014
 Reported: 07/31/2014
 Project Name: SRO STATE COM #5
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/24/2014
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: S10 4' (H402290-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/28/2014	ND	400	100	400	0.00	

Sample ID: S10 6' (H402290-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/28/2014	ND	400	100	400	0.00	

Sample ID: S10 8' (H402290-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/28/2014	ND	400	100	400	0.00	

Sample ID: S10 10' (H402290-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/28/2014	ND	400	100	400	0.00	

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
*	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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