

**REVIEWED** By Kellie Jones at 1:42 pm, Jan 19, 2016

Dakota Neel Environmental Coordinator

Oil Conservation Division District 1 – Hobbs 1625 N. French Drive Hobbs, New Mexico 88240 January 18, 2016 APPROVED Conditional By Kellie Jones at 1:42 pm, Jan 19, 2016

> The plan is approved with the condition that Concho waits thirty days after the last application of Microblaze to obtain sample.
>  Ensure that the State Land Office approves/concurs.

Re: Stratojet 31 State Com #6H 30-025-42452 Sec. 31, T20S-R35E Lea County, NM

Ms. Kellie Jones,

COG Operating LLC would like to submit for your consideration the enclosed work plan for the above captioned well. The request is in response to the C-141 Initial report dated August 8, 2015.

# Background

This release was caused when a dump valve failed and oil was sent to the flare resulting in the release of 20 bbls of oil where 1 bbls was recovered. This release caused a spray that impacted approximately 1.12 acres of pasture on the northwest side of the location. Vacuum trucks were dispatched immediately to recover all standing fluid and soapy water and Microblaze were applied to the impacted soil and vegetation. The attached site diagram depicts the approximate area impacted by the release along with the approximate sampling points.

# Groundwater

Based on the Chevron-Texaco Trend Maps, the release area would be classified at a site ranking of **10** with an average depth to groundwater of 87 feet.

# Soil Assessment and Analytical Results

Initial soil samples were taken on 11-02-2015 with approximate sample locations depicted on the attached Site Diagram. Sample points were chosen based on safe proximity to existing gas lines. Samples indicated TPH and BTEX were within RRALs in all samples except for the surface samples taken at S1 and S2. Below is a summary of the attached analytical results:

LOCAL ADDRESS Concho West | 2208 Main Street | Artesia, New Mexico 88210 PHONE 575.748.6940 | FAX 575.746.2096 NMOCD January 18, 2016 Page 2

6			and the second second second		C
S1	BTEX	GRO	DRO	TPH	Cl-
Surface	< 0.300	< 50.0	12500	12500	128
1'	< 0.300	< 10.0	13.1	13.1	< 16.0
2'	< 0.300	< 10.0	12.4	12.4	< 16.0
3'	< 0.300	< 10.0	10	10	< 16.0
52	BTEX	GRO	DRO	TPH	CI
Surface	< 0.300	< 50.0	2510	2510	< 16.0
1'	< 0.300	< 10.0	38.9	38.9	< 16.0
2'	< 0.300	< 10.0	159	159	< 16.0
53	BTIEX	GRO	DRO	TIPH	Cl+
Surface	< 0.300	< 10.0	341	341	< 16.0
1'	< 0.300	< 10.0	10.1	10.1	< 16.0
2'	< 0.300	< 10.0	< 10.0	< 10.0	< 16.0
<u>\$4</u>	BTEX	GRO	DRO	TIPH	CI-
Surface	< 0.300	< 10.0	145	145	< 16.0
1'	< 0.300	< 10.0	< 10.0	< 10.0	< 16.0
<b>S</b> 5	BTEX	GRO	DRO	трн	CI-
Surface	< 0.300	< 10.0	95.3	95.3	< 16.0
1'	< 0.300	< 10.0	< 10.0	< 10.0	< 16.0
S6	BTEX	GRO	DRO	TPH	CI-
Surface	< 0.300	< 10.0	35.5	35.5	< 16.0
1'	< 0.300	< 10.0	< 10.0	< 10.0	< 16.0

## Work Plan

COG Operating LLC proposes the following work plan based on delineation samples:

- S1 & S2: Surface tillage with no excavation followed by an application of Microblaze. Area is ~10,000 sq ft, and is depicted by the red shaded area in the site diagram.
- **S3 S6**: No excavation or further work required based on the attached analytical data. Area depicted by the blue shaded area in the site diagram.

NMOCD January 18, 2016 Page 3

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 (575) 689-3100.

Sincerely,

Dakota Neel Environmental Coordinator

Enclosure(s): (1) Site Diagram (2) C-141 Initial (Copy) (3) Analytical Results

Legend Microblaze Tillage + Microblaze	Site Ranking: 10 Depth to GW per SEO: 87ft S1 BTEX GRO DRO TPH CI-	) <50.0 12500 1	1' < 0.300 < 10.0 13.1 13.1 < 16.0	2' < 0.300 < 10.0 12.4 12.4 < 16.0	3'         < 0.300	S2 BTEX GRO DRQ TPH CI-	Surface < 0.300 < 50.0 2510 2510 < 16.0	1' < 0.300 < 10.0 38.9 38.9 < 16.0	2' < 0.300 < 10.0 159 159 < 16.0	S3 BTEX GRO DRO TPH CI-	Surface < 0.300 < 10.0 341 341 < 16.0	1' < 0.300 < 10.0 10.1 10.1 < 16.0	2' < 0.300 < 10.0 < 10.0 < 16.0	S4 BTEX GRO DRO TPH CI-	Surface < 0.300 < 10.0 145 145 < 16.0	1' <0.300 <10.0 <10.0 <10.0 <16.0	S5 BTEX GRO DRO TPH CI-	Surface < 0.300 < 10.0 95.3 95.3 < 16.0	1' <0.300 <10.0 <10.0 <10.0 <16.0	S6 BTEX GRO DRO TPH CI-	Surface < 0.300 < 10.0 35.5 35.5 < 16.0	< 0.300 < 10.0 < 10.0 < 10.0		
Argust 8, 2015 Stratojet 31 State Com #6H API #30-025-42452 32.52328687, -103.49428778 Released: 20 bbls oil Recovered: 1 bbls oil		「「二」を読いていたかい、「「「「「」」」				S5	S4 0	5. 66		S2 051					P AND A AND								< 7	Google earth 1 south

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

## State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

**Oil Conservation Division** 1220 South St. Francis Dr. Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Santa Fe, NM 87505

# **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: Stratojet 31 State Com #6H	Facility Type: Battery		
			2452

Surface	Owner:	State
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Mineral Owner:

## API No. 30-025-42452

## LOCATION OF RELEASE

Our Better Deetter Township Township	Г	Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
			31	205	35E	390'	South	2080'	East	Lea

Latitude 32.52328667 Longitude -103.49428778

NATURE	OF RELEASE	
Type of Release:	Volume of Release:	Volume Recovered:
Oil	20 bbls Oil	1 bbl Oil
Source of Release:	Date and Hour of Occurrence:	Date and Hour of Discovery:
Dump valve	8/8/2015 8:00 am	8/8/2015 8:00 am
Was Immediate Notice Given?	If YES, To Whom?	
Yes No X Not Required		
By Whom?	Date and Hour:	
Was a Watercourse Reached?	If YES, Volume Impacting the W	atercourse.
☐ Yes ⊠ No		
If a Watercourse was Impacted, Describe Fully.*	, <b>I</b>	
Describe Cause of Problem and Remedial Action Taken.* This release was caused when a dump valve failed and oil was sent to the	e flare. Crews were dispatched imme	diately to apply soapy water and Microblaze.
Describe Area Affected and Cleanup Action Taken.* This release impacted the nearby pasture with a mist in an area approxin contamination from the release and we will present a remediation work	nently 300 x 900'. Concho will have t plan to the NMOCD for approval prio	the spill site sampled to delineate any possible or to any significant remediation work.
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediation the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	notifications and perform corrective a the NMOCD marked as "Final Report ate contamination that pose a threat to	actions for releases which may endanger "does not relieve the operator of liability ground water, surface water, human health
	OIL CONSER	RVATION DIVISION
Signature:		
Printed Name: Amanda Trujillo	Approved by Environmental Specia	list:
	Approval Date:	Expiration Date:
Title: Senior Environmental Coordinator	Approval Date.	
E-mail Address: atrujillo@concho.com	Conditions of Approval:	Attached

Phone: 575-748-6940 Date: August 22, 2015 \* Attach Additional Sheets If Necessary



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

November 09, 2015

DAKOTA NEEL COG OPERATING P. O. BOX 1630 ARTESIA, NM 88210

RE: STRATOJET 31 ST COM 6H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/04/15 12:40.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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,

Celeg D. Kune

Celey D. Keene Lab Director/Quality Manager

Page 1 of 20



COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	11/04/2015	Sampling Date:	11/02/2015
Reported:	11/09/2015	Sampling Type:	Soil
Project Name:	STRATOJET 31 ST COM 6H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

## Sample ID: S1- SURFACE (H502920-01)

True Value QC RPD	Qualifier
2.00 1.02	
2.00 1.50	
2.00 1.93	
6.00 1.81	
T	2.00     1.02       2.00     1.50       2.00     1.93

Surrogate 4-Bromofluorobenzene (PIE 98.1% 73.6-140

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/05/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	11/05/2015	ND	207	103	200	0.927	
DRO >C10-C28	12500	50.0	11/05/2015	ND	211	105	200	0.0565	
Surrogate 1-Chlorooctane	90.8	% 35-147						anna a	
Surrogate I-Chlorooctadecane	439 9	28-171							

#### **Cardinal Laboratories**

\*=Accredited Analyte

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COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	11/04/2015	Sampling Date:	11/02/2015
Reported:	11/09/2015	Sampling Type:	Soil
Project Name:	STRATOJET 31 ST COM 6H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

#### Sample ID: S1- 1' (H502920-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2015	ND	2.01	101	2.00	1.02	
Toluene*	<0.050	0.050	11/07/2015	ND	2.24	112	2.00	1.50	
Ethylbenzene*	<0.050	0.050	11/07/2015	ND	2.05	103	2.00	1.93	
Total Xylenes*	<0.150	0.150	11/07/2015	ND	6.52	109	6.00	1.81	
Total BTEX	<0.300	0.300	11/07/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.2	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/05/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/05/2015	ND	207	103	200	0.927	
DRO >C10-C28	13.1	10.0	11/05/2015	ND	211	105	200	0.0565	

Surrogate 1-Chlorooctane	92.7%	35-147
Surrogate: I-Chlorooctadecane	103 %	28-171

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Celeg & Kenne-



COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	11/04/2015	Sampling Date:	11/02/2015
Reported:	11/09/2015	Sampling Type:	Soil
Project Name:	STRATOJET 31 ST COM 6H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

#### Sample ID: S1- 2' (H502920-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2015	ND	2.01	100	2.00	0.639	
Toluene*	<0.050	0.050	11/07/2015	ND	2.24	112	2.00	0.639	
Ethylbenzene*	<0.050	0.050	11/07/2015	ND	2.05	102	2.00	0.423	
Total Xylenes*	<0.150	0.150	11/07/2015	ND	6.52	109	6.00	0.558	
Total BTEX	<0.300	0.300	11/07/2015	ND					
Surrogate 4-Bromofluorobenzene (PIE	102 9	% 73.6-14	0						
Chloride, SM4500Ci-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/05/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS			_		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/05/2015	NÐ	207	103	200	0.927	

ND

211

105

200

0.0565

11/05/2015

Surrogate 1-Chlorooctane	89 5 %	35-147
Surrogate: 1-Chlorooctadecane	100 %	28-171

12.4

10.0

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DRO >C10-C28

#### \*=Accredited Analyte

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Celler D. Kanne -



COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	11/04/2015	Sampling Date:	11/02/2015
Reported:	11/09/2015	Sampling Type:	Soil
Project Name:	STRATOJET 31 ST COM 6H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NÔNE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

#### Sample ID: S1- 3' (H502920-04)

.....

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	11/07/2015	ND	2.01	100	2.00	0.639	
Toluene*	<0.050	0.050	11/07/2015	ND	2.24	112	2.00	0.639	
Ethylbenzene*	<0.050	0.050	11/07/2015	ND	2.05	102	2.00	0.423	
Total Xylenes*	<0.150	0.150	11/07/2015	ND	6.52	109	6.00	0.558	
Total BTEX	<0.300	0.300	11/07/2015	ND					
Description of the second s									

Surrogate 4-Bromofluorobenzene (PIE 99.9 % 73 6-140

Chloride, SM4500CI-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	11/05/2015	NÐ	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS		i By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/05/2015	ND	207	103	200	0.927	
DRO >C10-C28	10.0	10.0	11/05/2015	ND	211	105	200	0.0565	
Surrogate: 1-Chlarooctane	87.4	% 35-147							
Surrogate: 1-Chlorooctadecane	97.1	% 28-171							

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Celey Di Kenne -



COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	11/04/2015	Sampling Date:	11/02/2015
Reported:	11/09/2015	Sampling Type:	Soil
Project Name:	STRATOJET 31 ST COM 6H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

## Sample ID: S2- SURFACE (H502920-05)

BTEX 8021B	mg/	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2015	ND	2.04	102	2.00	0.445	
Toluene*	<0.050	0.050	11/06/2015	ND	2.28	114	2.00	0.920	
Ethylbenzene*	<0.050	0.050	11/06/2015	ND	2.10	105	2.00	1.13	
Total Xylenes*	<0.150	0.150	11/06/2015	ND	6.68	111	6.00	1.03	
Total BTEX	<0.300	0.300	11/06/2015	ND					

Surrogate 4-Bromofluorobenzene (PIE 100 % 73.6-140

Chloride, SM4500CI-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	11/06/2015	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	11/06/2015	ND	207	103	200	0.927	
DR0 >C10-C28	2510	50.0	11/06/2015	ND	211	105	200	0.0565	
Surrogate: 1-Chlorooctane	96.2	% 35-147							
Surrogate: 1-Chlorooctadecane	175	% 28-171							

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#### \*=Accredited Analyte

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Celong D. Kenne



COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	11/04/2015	Sampling Date:	11/02/2015
Reported:	11/09/2015	Sampling Type:	Soil
Project Name:	STRATOJET 31 ST COM 6H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

## Sample ID: S2- 1' (H502920-06)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2015	ND	2.01	100	2.00	0.639	
Toluene*	<0.050	0.050	11/07/2015	ND	2.24	112	2.00	0.639	
Ethylbenzene*	<0.050	0.050	11/07/2015	ND	2.05	102	2.00	0.423	
Total Xylenes*	<0.150	0.150	11/07/2015	ND	6.52	109	6.00	0.558	
Total BTEX	<0.300	0.300	11/07/2015	ND					
Surrogate 4-Bromofluorobenzene (PIE	102 9	% 73.6-140	0						
Chloride, SM4500CI-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	11/06/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2015	ND	207	103	200	0.927	
DRO >C10-C28	38.9	10.0	11/06/2015	ND	211	105	200	0.0565	
Surrogate: 1-Chlorooctane	95.1	% 35-147							
Surrogate 1-Chlorooctadecane	105 9	28-171							

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Celling & Kenne

Celey D. Keene, Lab Director/Quality Manager

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COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	11/04/2015	Sampling Date:	11/02/2015
Reported:	11/09/2015	Sampling Type:	Soil
Project Name:	STRATOJET 31 ST COM 6H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

## Sample ID: S2- 2' (H502920-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2015	ND	2.01	100	2.00	0.639	
Toluene*	<0.050	0.050	11/07/2015	ND	2.24	112	2.00	0.639	
Ethylbenzene*	<0.050	0.050	11/07/2015	ND	2.05	102	2.00	0.423	
Total Xylenes*	<0.150	0.150	11/07/2015	ND	6.52	109	6.00	0.558	
Total BTEX	<0.300	0.300	11/07/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIE	98 6 9	% 73 6-140	)						
Chloride, SM4500CI-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	11/06/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2015	ND	207	103	200	0.927	
DRO >C10-C28	159	10.0	11/06/2015	ND	211	105	200	0.0565	
Surrogate 1-Chlorooctane	94.65	% 35-147							
Surrogate 1-Chlorooctadecane	106 %	6 28-171							

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Clay Di Kune



COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	11/04/2015	Sampling Date:	11/02/2015
Reported:	11/09/2015	Sampling Type:	Soil
Project Name:	STRATOJET 31 ST COM 6H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

#### Sample ID: S3- SURFACE (H502920-08)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2015	ND	2.01	100	2.00	0.639	
Toluene*	<0.050	0.050	11/07/2015	ND	2.24	112	2.00	0.639	
Ethylbenzene*	<0.050	0.050	11/07/2015	ND	2.05	102	2.00	0.423	
Total Xylenes*	<0.150	0.150	11/07/2015	ND	6.52	109	6.00	0.558	
Total BTEX	<0.300	0.300	11/07/2015	ND					
Surrogate 4-Bromofluorobenzene (PIE	101 9	73 6-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/06/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2015	ND	207	103	200	2.82	
DR0 >C10-C28	341	10.0	11/06/2015	ND	212	106	200	3.38	
Surrogate: 1-Chlorooctane	94.1	% 35-147							
Surrogate 1-Chlorooctadecane	109 9	28-171							

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Celling Di Keine



COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	11/04/2015	Sampling Date:	11/02/2015
Reported:	11/09/2015	Sampling Type:	Soil
Project Name:	STRATOJET 31 ST COM 6H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

## Sample ID: S3- 1' (H502920-09)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2015	ND	2.01	100	2.00	0.639	
Toluene*	<0.050	0.050	11/07/2015	ND	2.24	112	2.00	0.639	
Ethylbenzene*	<0.050	0.050	11/07/2015	ND	2.05	102	2.00	0.423	
Total Xylenes*	<0.150	0.150	11/07/2015	ND	6.52	109	6.00	0.558	
Total BTEX	<0.300	0.300	11/07/2015	ND					
Surrogate 4-Bromofluorobenzene (PIL	98.69	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/l	(g	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/06/2015	NÐ	400	100	400	0.00	
TPH 8015M	mg/l	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2015	ND	207	103	200	2.82	
DRO >C10-C28	10.1	10.0	11/06/2015	ND	212	106	200	3.38	
Surrogate 1-Chlorooctane	94 4 %	6 35-147	,						

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Surrogate I-Chlorooctadecane

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aling Di Kenne

103 %

28-171



COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	11/04/2015	Sampling Date:	11/02/2015
Reported:	11/09/2015	Sampling Type:	Soil
Project Name:	STRATOJET 31 ST COM 6H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

## Sample ID: S3- 2' (H502920-10)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2015	ND	2.01	100	2.00	0.639	
Toluene*	<0.050	0.050	11/07/2015	ND	2.24	112	2.00	0.639	
Ethylbenzene*	<0.050	0.050	11/07/2015	NÐ	2.05	102	2.00	0.423	
Total Xylenes*	<0.150	0.150	11/07/2015	ND	6.52	109	6.00	0.558	
Total BTEX	<0.300	0.300	11/07/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIE	97.19	6 73.6-140	)						
Chloride, SM4500CI-B	mg/l	g	Analyzed By: AP				-		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/06/2015	ND	400	100	400	0.00	
TPH 8015M	mg/i	g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2015	ND	207	103	200	2,82	
DRO >C10-C28	<10.0	10.0	11/06/2015	ND	212	106	200	3.38	
Surrogate 1-Chlorooctane	92.4 %	6 35-147							
Surrogate: 1-Chlorooctadecane	99.4 %	6 28-171							

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Received:	11/04/2015	Sampling Date:	11/02/2015
Reported:	11/09/2015	Sampling Type:	Soil
Project Name:	STRATOJET 31 ST COM 6H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

## Sample ID: S4- SURFACE (H502920-11)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2015	ND	2.01	100	2.00	0.639	
Toluene*	<0.050	0.050	11/07/2015	ND	2.24	112	2.00	0.639	
Ethylbenzene*	<0.050	0.050	11/07/2015	ND	2.05	102	2.00	0.423	
Total Xylenes*	<0.150	0.150	11/07/2015	ND	6.52	109	6.00	0.558	
Total BTEX	<0.300	0.300	11/07/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	6 73.6-14	p						
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	11/06/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2015	ND	207	103	200	2.82	
DRO >C10-C28	145	10.0	11/06/2015	ND	212	106	200	3.38	
Surrogate 1-Chlorooctane	94.79	% 35-147							
Surrogate: 1+Chlorooctadecane	109 %	6 28-171							

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Celey Di Keine -



COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	11/04/2015	Sampling Date:	11/02/2015
Reported:	11/09/2015	Sampling Type:	Soil
Project Name:	STRATOJET 31 ST COM 6H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

#### Sample ID: S4- 1' (H502920-12)

BTEX 80218	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2015	ND	2.01	100	2.00	0.639	
Toluene*	<0.050	0.050	11/07/2015	ND	2.24	112	2.00	0.639	
Ethylbenzene*	<0.050	0.050	11/07/2015	ND	2.05	102	2.00	0.423	
Total Xylenes*	<0.150	0.150	11/07/2015	ND	6.52	109	6.00	0.558	
Total BTEX	<0.300	0.300	11/07/2015	ND					
Surrogate 4-Bromofluorobenzene (PIE	100 9	% 73.6-140	)						
Chloride, SM4500CI-B	SM4500CI-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	11/06/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2015	ND	207	103	200	2.82	
DRO >C10-C28	<10.0	10.0	11/06/2015	ND	212	106	200	3.38	
Surrogate: I-Chlorooctane	92.8	% 35-147							
Surrogate: 1-Chlorooctadecane	102 9	6 28-171							

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Colleg D. Kenne -



COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	11/04/2015	Sampling Date:	11/02/2015
Reported:	11/09/2015	Sampling Type:	Soil
Project Name:	STRATOJET 31 ST COM 6H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

## Sample ID: S5- SURFACE (H502920-13)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2015	ND	2.01	100	2.00	0.639	
Toluene*	<0.050	0.050	11/07/2015	ND	2.24	112	2.00	0.639	
Ethylbenzene*	<0.050	0.050	11/07/2015	ND	2.05	102	2.00	0.423	
Total Xylenes*	<0.150	0.150	11/07/2015	ND	6.52	109	6.00	0.558	
Total BTEX	<0.300	0.300	11/07/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIE	96.7	% 73.6-141	)						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/06/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2015	ND	207	103	200	2.82	
DRO >C10-C28	95.3	10.0	11/06/2015	ND	212	106	200	3.38	
Surrogate I-Chlorooctane	93.1 9	% 35-147							
Surrogate: 1-Chlorooctadecane	103 9	6 28-171							

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COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	11/04/2015	Sampling Date:	11/02/2015
Reported:	11/09/2015	Sampling Type:	Soil
Project Name:	STRATOJET 31 ST COM 6H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

## Sample ID: 55- 1' (H502920-14)

8TEX 80218	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2015	ND	2.01	100	2.00	0.639	
Toluene*	<0.050	0.050	11/07/2015	ND	2.24	112	2.00	0.639	
Ethylbenzene*	<0.050	0.050	11/07/2015	ND	2.05	102	2.00	0.423	
Total Xylenes*	<0.150	0.150	11/07/2015	ND	6.52	109	6.00	0.558	
Total BTEX	<0.300	0.300	11/07/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	<b>99.0</b> \$	% 73.6-14	)						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/06/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2015	NÐ	207	103	200	2.82	
DRO >C10-C28	<10.0	10.0	11/06/2015	ND	212	106	200	3.38	
Surrogate: 1-Chlorooctane	93.2 9	% 35-147							
Surrogate: 1-Chlorooctadecane	102 9	6 28-171							

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Celey D. Keene, Lab Director/Quality Manager

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COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	11/04/2015	Sampling Date:	11/02/2015
Reported:	11/09/2015	Sampling Type:	Soil
Project Name:	STRATOJET 31 ST COM 6H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

## Sample ID: S6- SURFACE (H502920-15)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2015	ND	2.01	100	2.00	0.639	
Toluene*	<0.050	0.050	11/07/2015	ND	2.24	112	2.00	0.639	
Ethylbenzene*	<0.050	0.050	11/07/2015	NĎ	2.05	102	2.00	0.423	
Total Xylenes*	<0.150	0.150	11/07/2015	ND	6.52	109	6.00	0.558	
Total BTEX	<0.300	0.300	11/07/2015	ND					
Surrogate 4-Bromofluorobenzene (PIE	102 :	% 73.6-140	)						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/06/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2015	ND	207	103	200	2.82	
DRO >C10-C28	35.5	10.0	11/06/2015	ND	212	106	200	3.38	
Surrogate I-Chlorooctane	95 8	% 35-147							
Surrogate I-Chlorooctadecane	107 9	% 28-171							

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\*=Accredited Analyte

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Cellery D. Kenne -



COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	11/04/2015	Sampling Date:	11/02/2015
Reported:	11/09/2015	Sampling Type:	Soil
Project Name:	STRATOJET 31 ST COM 6H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

## Sample ID: S6- 1' (H502920-16)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2015	ND	2.01	100	2.00	0.639	
Toluene*	<0.050	0.050	11/07/2015	ND	2.24	112	2.00	0.639	
Ethylbenzene*	<0.050	0.050	11/07/2015	ND	2.05	102	2.00	0.423	
Total Xylenes*	<0.150	0.150	11/07/2015	ND	6.52	109	6.00	0.558	
Total BTEX	<0.300	0.300	11/07/2015	ND					
Surrogate 4-Bromofluorobenzene (PID	101 %	6 73.6-140	1				of silita		
Chloride, SM4500CI-8	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/06/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2015	NÐ	207	103	200	2.82	
DRO >C10-C28	<10.0	10.0	11/06/2015	ND	212	106	200	3.38	
Surrogate 1-Chlorooctane	85.5 9	6 35-147							
Surrogate 1-Chlorooctadecane	93.8 9	6 28-171							

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Celley D. Kenne



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

#### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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 SM4500CI-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

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