

February 1, 2019

"District 1"

Mike Bratcher New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 2 811 S. First Street Artesia, NM 88210

Ryan Mann Hobbs Field Office New Mexico State Land Office 2827 North Dal Paso Street, Suite 117 Hobbs, NM 88240

Re: Site Assessment Summary and Proposed Remediation Plan Stratojet 31 State Com #007H API No. 30-025-43792 GPS: Latitude 32.52454 Longitude -103.49931 UL "N", Sec. 31, T20S, R35E Lea County, NM NMOCD Ref. No. 1RP-5146, 1RP-5278

TRC Environmental Corporation (TRC), on behalf of COG Operating, LLC (COG), has prepared this *Site Assessment Summary and Deferral Request* for the Release Site known as the Stratojet 31 State Com #007H. Details of the Release are summarized below:

RELEASE DETAILS									
Type of Release:	Crude Oil and Produced Water		Volume of Release:	18 bbls, 9 bbls					
			Volume Recovered:	10 bbls, 6 bbls					
Source of Release:		Wellhead	Date of Release:	8/4/2018, 11/5/18					
Was Immediate Not	ice Given?	No	If, YES, to Whom?	Not Applicable					
Was a Watercourse	Reached?	No	If YES, Volume Impa	acting the Watercourse:	N/A				
Surface Owner:	Priv	ate: S&S Inc.	Mineral Owner:	State					

Two separate releases occurred on this location. The first release (1RP-5146), was attributed to a leak in the union off of the pump tee and resulted in the release of approximately 10 bbls of crude oil and 7 bbls of produced water. The second release (1RP-5278), was attributed to sand causing the housing on the back pressure valve to be washed out, resulting in the release of approximately 8 bbls of crude oil and 2 bbls of produced water. Both releases were contained within the boundaries of the production pad and impacted approximately 10,000 square feet and 9,400 square feet respectfully. During initial response activities, a vacuum truck was dispatched to remove all freestanding fluids.*The initial C-141 for the release date 11/05/18 (1RP-5278) contained incorrect information which has been updated*.

Topographical and Aerial Maps are provided as Attachments #1 and #2. A Copy of the Initial Release Notification and Corrective Action (NMOCD Form C-141) is provided as Attachment #8.

REGULATORY FRAMEWORK

Surface impacts from unauthorized releases of crude oil, gases, produced water, condensate or other oil field waste which occur during normal oilfield operations are generally regulated by the New Mexico Oil Conservation Division (NMOCD) in accordance with 19.15.29 of the New Mexico Administrative Code (NMAC). 19.15.29 NMAC establishes reporting, site assessment/characterization, remediation, closure, variance and enforcement procedures. Table I of 19.15.29.12 NMAC determines the closure criteria for soils impacted by a release based on the depth to groundwater and the following site characteristics:

Site Characteristics		
Approximate Depth to Groundwater	5	60 - 75'
Within 300 ft. of any continuously flowing or significant watercourse?	🗌 Yes	🗹 No
Within 200 ft. of any lakebed, sinkhole, or playa lake?	🗌 Yes	⊡ No
Within 300 ft. of an occupied permanent residence, school, hospital, or institution?	Yes	✓ No
Within 500 ft. of a spring or private, domestic fresh water well?	Yes	🗹 No
Within 1,000 ft. of any fresh water well?	🗌 Yes	⊡ No
Within the incorporated municipal boundaries or within a municipal well field?	🗌 Yes	⊡ No
Within 300 ft. of a wetland?	🗌 Yes	⊡ No
Within the area overlying a subsurface mine?	Yes	✓ No
Within an unstable area?	Yes	✓ No
Within a 100-year floodplain?	Yes	✓ No

A search of a groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) was conducted to determine the average depth to groundwater within a one (1) Mile radius of the Release Site and identify any registered water wells within a 1/2 Mile of the Release Site. If none were identified, the approximate depth to groundwater was extrapolated from a Depth to Groundwater Map utilized by the NMOCD. Depth to groundwater information is provided as Attachment #4.

Based on the approximate depth to groundwater and site characteristics, the NMOCD Closure Criteria are as follows:

Table I										
Closure Criteria for Soils Impacted by a Release										
Minimum depth below any point within the	Constituent	Method*	Limit**							
horizontal boundary of the release to ground										
water less than 10,000 mg/l TDS										
	Chloride***	EPA 300.0	10,000 mg/kg							
	ТРН	EPA SW-846 Method	2,500 mg/kg							
	(GRO+DRO+MRO)	8015M								
	ТРН	EPA SW-846 Method	1,000 mg/kg							
51-100 feet	(GRO+DRO)	8015M								
	BTEX	EPA SW-846 Method 8021B	50 mg/kg							
		or 8260B								
	Benzene	EPA SW-846 Method 8021B	10 mg/kg							
		or 8260B								

INITIAL SITE ASSESSMENT & REMEDIAL ACTIVITIES BACKGROUND

On August 27, 2018, an initial site assessment was conducted at the Site by a previous COG environmental contractor. During the initial site assessment, five (5) soil investigation trenches (S1, S2, S3, S4, and S5) were advanced in an effort to determine the vertical extent of soil impact. During the advancement of the investigation trenches, eighteen (18) soil samples were collected and submitted to the laboratory for analysis of BTEX, TPH and/or chloride concentrations. Additional, four (4) investigative soil sample locations (East, West, North, and South) were advanced in an effort to determine the horizontal extent of soil impacts. During the advancement of the investigation trenches, four (4) soil samples were collected and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Upon completion of the initial site assessment, a Soil Remediation Plan (Deferral), detailing field activities and laboratory analytical results from delineation soil samples was prepared and submitted to the NMOCD and NMSLO; the remediation workplan (deferral) was subsequently denied, as delineation of TPH was not achieved at soil sample locations S2 and S5. For additional information regarding the initial site assessment and associated regulatory correspondence, please reference HRL's REMEDIATION WORK PLAN (Deferral) and NMOCD & NMSLO Correspondence, which are provided as

On **December 20, 2018**, a second site investigation was conducted by TRC. During the site investigation, additional soil samples from the previous release were collected from the area represented by S2 and S5 in an effort to achieve vertical delineation. Additionally, two (2) soil sample locations (S6 and S7) were advanced in an effort to determine the extent of soil impacts from the Release which occurred on November 5, 2018 (1RP-5278). The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. A table summarizing laboratory analytical results from soil samples collected during the above stated activities is provided below:

Concentrations of BTEX, TPH and/or Chloride in Soil											
	SW 846 8021B SW 846 8015M Ext.							E 300			
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆₋ C ₂₈ (mg/kg)	ORO/MRO C ₂₈ -C ₃₅ (mg/kg)	TPH C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
S1 - Surface	8/28/18	Surface	In-Situ	ND	1.1	52	5,800	5,852	2,300	8,152	4,500
S1 - 1'	8/28/18	1'	In-Situ	ND	ND	ND	65	65	ND	65	5,400
S1 - 2'	8/28/18	2'	In-Situ	ND	ND	ND	19	19	ND	19	1,800
S1 - 3'	8/28/18	3'	In-Situ	-	-	-	-	-	-	-	910
S2 Surface	8/28/18	Surface	In-Situ	ND	28.4	1,100	15,000	16,100	4,400	20,500	310
S2 - 1'	8/28/18	1'	In-Situ	ND	0.72	68	1,200	1,268	440	1,708	560
S2 - 2'	8/28/18	2'	In-Situ	ND	2.88	180	4,200	4,380	1,500	5,880	520
S2-B @ 3'	12/20/18	3'	In-Situ	<0.050	<0.300	<10.0	62.0	62.0	<10.0	62.0	3,520
S2-B @ 4'	12/20/18	4'	In-Situ	<0.050	<0.300	<10.0	18.9	18.9	<10.0	18.9	2,080
S2-B @ 5'	12/20/18	5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
S3 - Surface	8/28/18	Surface	In-Situ	ND	ND	ND	1,300	1,300	640	1,940	1,800
S3 - 1'	8/28/18	1'	In-Situ	ND	ND	ND	ND	ND	ND	ND	1,300
S3 - 2'	8/28/18	2'	In-Situ	ND	ND	ND	14	14	ND	14	600
S4 - Surface	8/28/18	Surface	In-Situ	ND	ND	ND	15	15	ND	15	290
S4 - 1'	8/28/18	1'	In-Situ	ND	ND	ND	ND	ND	ND	ND	71
S4 - 2'	8/28/18	2'	In-Situ	ND	ND	ND	ND	ND	ND	ND	75
S4 - 3'	8/28/18	3'	In-Situ	-	-	-	-	-	-	-	2,600
S5 - Surface	8/28/18	Surface	In-Situ	2.5	145.5	2,900	12,000	14,900	3,600	18,500	320
S5 - 1'	8/28/18	1'	In-Situ	ND	14	350	1,100	1,450	390	1,840	2,800
S5 - 2'	8/28/18	2'	In-Situ	ND	0.302	120	1,300	1,420	670	2,090	2,100
S5 - 3'	8/28/18	3'	In-Situ	-	-	-	-	-	-	-	2,000
S5-B @ 3'	12/20/18	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,360
S5-B @ 4'	12/20/18	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	688
CC @ Curfa as	12/20/10	6 . (1. 61	-0.050	4.70	201	44.000	42.404	2.070	44474	7.200
	12/20/18	Surface	In-Situ	<0.050	4.78	201	11,900	12,101	2,070	14,171	7,280
30 @ 1 S6 @ 2'	12/20/18	1 2'	In-Situ	<0.050	<0.300	<10.0	150	150	80.0 <10.0	<10.0	0,700 2,400
30 @ 2 S6 @ 3'	12/20/18	2	In Situ	<0.050	<0.300	<10.0	124	124	16.5	140.5	2,400
30 @ 3	12/20/10	3	III-Situ	<0.050	<0.300	<10.0	124	124	10.5	140.5	1,470
S7 @ Surface	12/20/18	Surface	In-Situ	<0.050	<0.300	<10.0	29.4	29.4	12.0	41.4	672
S7 @ 1'	12/20/18	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
	,, =0	-	510	.0.000		120.0	120.0	.2010	12010		00.0
East	8/28/18	Surface	In-Situ	ND	ND	ND	ND	ND	ND	ND	99
West	8/28/18	Surface	In-Situ	ND	ND	ND	ND	ND	ND	ND	900
South	8/28/18	Surface	In-Situ	ND	ND	ND	120	120	81	201	67
North	8/28/18	Surface	In-Situ	ND	ND	ND	ND	ND	ND	ND	430
NMOC	D Closure	Criteria		10	50	-	-	1,000	-	2,500	10,000

Field Data, if applicable, is provided as Attachment #5. Laboratory analytical reports are provided as Attachment #6. A "Site & Sample Location Map" is provided as Attachment #3.

REMEDIATION PLAN

Based on laboratory analytical results, site characteristics, and field observations made during the Site assessments, COG proposes the following alternative remediation activities designed to advance the Release Site toward an NMOCD and BLM approved closure:

•Utilizing mechanical equipment, excavate impacted soil affected above the NMOCD Closure Criteria in the areas characterized by soil samples S1, S3, and S6 to a depth of 6" or until laboratory analytical results from confirmation soil samples indicate that TPH concentrations are below NMOCD Closure Criteria.

•Excavate impacted soil affected above the NMOCD Closure Criteria in the areas characterized by soil samples S2 and S5 to a depth of 2.5' - 3' or until laboratory analytical results from confirmation soil samples indicate that TPH concentrations are below NMOCD Closure Criteria.

•The sidewalls of the excavation will be advanced until laboratory analytical results from confirmation soil samples indicate that TPH concentrations are below NMOCD Closure Criteria.

•Excavated soil will be temporarily stockpiled on-site, atop a poly liner, pending transportation under manifest to a NMOCD-approved facility.

•Upon receiving favorable laboratory analytical results from confirmation soil samples (below the NMOCD Closure Criteria) excavated areas will be backfilled with locally sourced, non-impacted "like" material, at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control,

ALTERNATIVE SAMPLING PLAN

Upon completion of excavation activities, excavation confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than 200 linear feet. Representative five-point composite excavation soil samples will be collected from the base of the excavated areas representing no more than 625 SqFt. Additional "discrete" confirmation soil samples will be collected from wet or visibly stained areas inferred to have been affected by the Release, as necessary.

TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed within 90 days of receiving necessary approval(s) of this Site Assessment Summary and Proposed Remediation Plan. Based on laboratory analytical results, site characteristics, and field observations made during the initial site investigation, it is estimated approximately 1,200 cubic yards of soil has been affected above the NMOCD Closure Criteria.

RESTORATION, RECLAMATION AND RE-VEGETATION

Areas affected by the Release and associated remediation activities will be substantially restored to the condition which existed prior to the release to the maximum extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Final restoration, reclamation and re-vegetation will be conducted in accordance with applicable regulatory agencies.

If you have any questions, or if additional information is required, please feel free to contact Becky Haskell or either of the undersigned by phone or email.

Respectfully,

Brian Cooper TRC Environmental Corp.

Curt O Stanley

Curt Stanley TRC Environmental Corp.

Attachments:	Attachment #1- Attachment #2- Attachment #3- Attachment #4- Attachment #5 Attachment #6- Attachment #7- Attachment #8- Attachment #9- Attachment #10-	Figure 1 - Topographical Map Figure 2 - Aerial Map Figure 3 - Site & Sample Location Map Depth to Groundwater Information Field Data Laboratory Analytical Reports Soil Profile Release Notification and Corrective Action (FORM C-141) ASI's <i>REMEDIATION WORK PLAN</i> NMOCD & BLM Correspondence
	Attachment #10-	NMOCD & BLM Correspondence









(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 640943

Northing (Y): 3599572

Radius: 1610

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/7/19 10:41 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER





January 04, 2019

ZACH CONDER TRC 10 DESTA DR. SUITE 150 E MIDLAND, TX 79705

RE: STRATOJET 31 STATE COM #007H

Enclosed are the results of analyses for samples received by the laboratory on 12/21/18 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 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,

Whe Singh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager



TRC ZACH CONDER 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705 Fax To:

Received:	12/21/2018	Sampling Date:	12/20/2018
Reported:	01/04/2019	Sampling Type:	Soil
Project Name:	STRATOJET 31 STATE COM #007H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO-LEA COUNTY, NM		

Sample ID: S 2 - B @ 3' (H803765-01)

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	12/29/2018	ND	1.98	99.1	2.00	2.97	
Toluene*	<0.050	0.050	12/29/2018	ND	2.05	103	2.00	2.55	
Ethylbenzene*	<0.050	0.050	12/29/2018	ND	2.05	103	2.00	2.34	
Total Xylenes*	<0.150	0.150	12/29/2018	ND	6.01	100	6.00	2.35	
Total BTEX	<0.300	0.300	12/29/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 73.3-129)						
Chloride, SM4500CI-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	12/31/2018	ND	432	108	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	12/28/2018	ND	185	92.4	200	1.69	
DRO >C10-C28*	62.0	10.0	12/28/2018	ND	223	112	200	5.94	
EXT DRO >C28-C36	<10.0	10.0	12/28/2018	ND					
Surrogate: 1-Chlorooctane	80.0	% 41-142							
Surrogate: 1-Chlorooctadecane	82.6	% 37.6-142	7						

Cardinal Laboratories

*=Accredited Analyte

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TRC ZACH CONDER 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705 Fax To:

Received:	12/21/2018	Sampling Date:	12/20/2018
Reported:	01/04/2019	Sampling Type:	Soil
Project Name:	STRATOJET 31 STATE COM #007H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO-LEA COUNTY, NM		

Sample ID: S 2 - B @ 3' (H803765-02)

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	12/29/2018	ND	1.98	99.1	2.00	2.97	
Toluene*	<0.050	0.050	12/29/2018	ND	2.05	103	2.00	2.55	
Ethylbenzene*	<0.050	0.050	12/29/2018	ND	2.05	103	2.00	2.34	
Total Xylenes*	<0.150	0.150	12/29/2018	ND	6.01	100	6.00	2.35	
Total BTEX	<0.300	0.300	12/29/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	12/31/2018	ND	432	108	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	12/28/2018	ND	185	92.4	200	1.69	
DRO >C10-C28*	18.9	10.0	12/28/2018	ND	223	112	200	5.94	
EXT DRO >C28-C36	<10.0	10.0	12/28/2018	ND					
Surrogate: 1-Chlorooctane	85.3 9	% 41-142							
Surrogate: 1-Chlorooctadecane	85.3 9	37.6-14	7						

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TRC ZACH CONDER 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705 Fax To:

Received:	12/21/2018	Sampling Date:	12/20/2018
Reported:	01/04/2019	Sampling Type:	Soil
Project Name:	STRATOJET 31 STATE COM #007H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO-LEA COUNTY, NM		

Sample ID: S 2 - B @ 5' (H803765-03)

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	12/29/2018	ND	1.98	99.1	2.00	2.97	
Toluene*	<0.050	0.050	12/29/2018	ND	2.05	103	2.00	2.55	
Ethylbenzene*	<0.050	0.050	12/29/2018	ND	2.05	103	2.00	2.34	
Total Xylenes*	<0.150	0.150	12/29/2018	ND	6.01	100	6.00	2.35	
Total BTEX	<0.300	0.300	12/29/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	12/31/2018	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	12/28/2018	ND	185	92.4	200	1.69	
DRO >C10-C28*	<10.0	10.0	12/28/2018	ND	223	112	200	5.94	
EXT DRO >C28-C36	<10.0	10.0	12/28/2018	ND					
Surrogate: 1-Chlorooctane	81.5	% 41-142							
Surrogate: 1-Chlorooctadecane	80.3 9	37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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TRC ZACH CONDER 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705 Fax To:

Received:	12/21/2018	Sampling Date:	12/21/2018
Reported:	01/04/2019	Sampling Type:	Soil
Project Name:	STRATOJET 31 STATE COM #007H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO-LEA COUNTY, NM		

Sample ID: S 5 - B @ 3' (H803765-05)

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	12/31/2018	ND	2.08	104	2.00	2.09	
Toluene*	<0.050	0.050	12/31/2018	ND	2.07	104	2.00	1.73	
Ethylbenzene*	<0.050	0.050	12/31/2018	ND	2.05	102	2.00	1.93	
Total Xylenes*	<0.150	0.150	12/31/2018	ND	6.41	107	6.00	2.26	
Total BTEX	<0.300	0.300	12/31/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.3-129)						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	12/31/2018	ND	432	108	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	12/31/2018	ND	178	89.2	200	8.53	
DRO >C10-C28*	<10.0	10.0	12/31/2018	ND	190	95.2	200	9.54	
EXT DRO >C28-C36	<10.0	10.0	12/31/2018	ND					
Surrogate: 1-Chlorooctane	83.4	% 41-142							
Surrogate: 1-Chlorooctadecane	86.2	37.6-147	7						

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TRC ZACH CONDER 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705 Fax To:

Received:	12/21/2018	Sampling Date:	12/21/2018
Reported:	01/04/2019	Sampling Type:	Soil
Project Name:	STRATOJET 31 STATE COM #007H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO-LEA COUNTY, NM		

Sample ID: S 5 - B @ 4' (H803765-06)

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	12/31/2018	ND	2.08	104	2.00	2.09	
Toluene*	<0.050	0.050	12/31/2018	ND	2.07	104	2.00	1.73	
Ethylbenzene*	<0.050	0.050	12/31/2018	ND	2.05	102	2.00	1.93	
Total Xylenes*	<0.150	0.150	12/31/2018	ND	6.41	107	6.00	2.26	
Total BTEX	<0.300	0.300	12/31/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.3-129)						
Chloride, SM4500Cl-B	mg/	mg/kg Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	12/31/2018	ND	432	108	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	12/31/2018	ND	178	89.2	200	8.53	
DRO >C10-C28*	<10.0	10.0	12/31/2018	ND	190	95.2	200	9.54	
EXT DRO >C28-C36	<10.0	10.0	12/31/2018	ND					
Surrogate: 1-Chlorooctane	83.2	% 41-142							
Surrogate: 1-Chlorooctadecane	85.8	% 37.6-147	7						

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Received:	12/21/2018	Sampling Date:	12/21/2018
Reported:	01/04/2019	Sampling Type:	Soil
Project Name:	STRATOJET 31 STATE COM #007H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO-LEA COUNTY, NM		

Sample ID: S 6 @ SURFACE (H803765-07)

BTEX 8021B	mg/	kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2018	ND	2.08	104	2.00	2.09	
Toluene*	0.084	0.050	12/31/2018	ND	2.07	104	2.00	1.73	
Ethylbenzene*	0.674	0.050	12/31/2018	ND	2.05	102	2.00	1.93	
Total Xylenes*	4.02	0.150	12/31/2018	ND	6.41	107	6.00	2.26	
Total BTEX	4.78	0.300	12/31/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	145 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7280	16.0	12/31/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	201	10.0	12/31/2018	ND	178	89.2	200	8.53	
DRO >C10-C28*	11900	10.0	12/31/2018	ND	190	95.2	200	9.54	
EXT DRO >C28-C36	2070	10.0	12/31/2018	ND					
Surrogate: 1-Chlorooctane	122 %	6 41-142	2						
Surrogate: 1-Chlorooctadecane	448 %	6 37.6-14	7						

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Received:	12/21/2018	Sampling Date:	12/21/2018
Reported:	01/04/2019	Sampling Type:	Soil
Project Name:	STRATOJET 31 STATE COM #007H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO-LEA COUNTY, NM		

Sample ID: S 6 @ 1' (H803765-08)

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	12/31/2018	ND	2.08	104	2.00	2.09	
Toluene*	<0.050	0.050	12/31/2018	ND	2.07	104	2.00	1.73	
Ethylbenzene*	<0.050	0.050	12/31/2018	ND	2.05	102	2.00	1.93	
Total Xylenes*	<0.150	0.150	12/31/2018	ND	6.41	107	6.00	2.26	
Total BTEX	<0.300	0.300	12/31/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6700	16.0	12/31/2018	ND	400	100	400	7.69	QM-07
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	12/31/2018	ND	178	89.2	200	8.53	
DRO >C10-C28*	156	10.0	12/31/2018	ND	190	95.2	200	9.54	
EXT DRO >C28-C36	80.0	10.0	12/31/2018	ND					
Surrogate: 1-Chlorooctane	90.0 \$	% 41-142							
Surrogate: 1-Chlorooctadecane	98.5	37.6-14	7						

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Received:	12/21/2018	Sampling Date:	12/21/2018
Reported:	01/04/2019	Sampling Type:	Soil
Project Name:	STRATOJET 31 STATE COM #007H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO-LEA COUNTY, NM		

Sample ID: S 6 @ 2' (H803765-09)

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	12/31/2018	ND	2.08	104	2.00	2.09	
Toluene*	<0.050	0.050	12/31/2018	ND	2.07	104	2.00	1.73	
Ethylbenzene*	<0.050	0.050	12/31/2018	ND	2.05	102	2.00	1.93	
Total Xylenes*	<0.150	0.150	12/31/2018	ND	6.41	107	6.00	2.26	
Total BTEX	<0.300	0.300	12/31/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	12/31/2018	ND	400	100	400	7.69	
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	12/31/2018	ND	178	89.2	200	8.53	
DRO >C10-C28*	<10.0	10.0	12/31/2018	ND	190	95.2	200	9.54	
EXT DRO >C28-C36	<10.0	10.0	12/31/2018	ND					
Surrogate: 1-Chlorooctane	86.2 9	% 41-142							
Surrogate: 1-Chlorooctadecane	90.7 9	37.6-14	7						

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TRC ZACH CONDER 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705 Fax To:

Received:	12/21/2018	Sampling Date:	12/21/2018
Reported:	01/04/2019	Sampling Type:	Soil
Project Name:	STRATOJET 31 STATE COM #007H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO-LEA COUNTY, NM		

Sample ID: S 6 @ 3' (H803765-10)

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	12/31/2018	ND	2.08	104	2.00	2.09	
Toluene*	<0.050	0.050	12/31/2018	ND	2.07	104	2.00	1.73	
Ethylbenzene*	<0.050	0.050	12/31/2018	ND	2.05	102	2.00	1.93	
Total Xylenes*	<0.150	0.150	12/31/2018	ND	6.41	107	6.00	2.26	
Total BTEX	<0.300	0.300	12/31/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	12/31/2018	ND	400	100	400	7.69	
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	12/31/2018	ND	178	89.2	200	8.53	
DRO >C10-C28*	124	10.0	12/31/2018	ND	190	95.2	200	9.54	
EXT DRO >C28-C36	16.5	10.0	12/31/2018	ND					
Surrogate: 1-Chlorooctane	87.0	% 41-142							
Surrogate: 1-Chlorooctadecane	94.6	37.6-14	7						

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TRC ZACH CONDER 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705 Fax To:

Received:	12/21/2018	Sampling Date:	12/21/2018
Reported:	01/04/2019	Sampling Type:	Soil
Project Name:	STRATOJET 31 STATE COM #007H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO-LEA COUNTY, NM		

Sample ID: S 7 @ SURFACE (H803765-13)

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	12/31/2018	ND	2.08	104	2.00	2.09	
Toluene*	<0.050	0.050	12/31/2018	ND	2.07	104	2.00	1.73	
Ethylbenzene*	<0.050	0.050	12/31/2018	ND	2.05	102	2.00	1.93	
Total Xylenes*	<0.150	0.150	12/31/2018	ND	6.41	107	6.00	2.26	
Total BTEX	<0.300	0.300	12/31/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	12/31/2018	ND	400	100	400	7.69	
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	12/31/2018	ND	178	89.2	200	8.53	
DRO >C10-C28*	29.4	10.0	12/31/2018	ND	190	95.2	200	9.54	
EXT DRO >C28-C36	12.0	10.0	12/31/2018	ND					
Surrogate: 1-Chlorooctane	73.2 9	% 41-142							
Surrogate: 1-Chlorooctadecane	77.1 9	37.6-14	7						

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Received:	12/21/2018	Sampling Date:	12/21/2018
Reported:	01/04/2019	Sampling Type:	Soil
Project Name:	STRATOJET 31 STATE COM #007H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO-LEA COUNTY, NM		

Sample ID: S 7 @ 1' (H803765-14)

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	12/31/2018	ND	2.08	104	2.00	2.09	
Toluene*	<0.050	0.050	12/31/2018	ND	2.07	104	2.00	1.73	
Ethylbenzene*	<0.050	0.050	12/31/2018	ND	2.05	102	2.00	1.93	
Total Xylenes*	<0.150	0.150	12/31/2018	ND	6.41	107	6.00	2.26	
Total BTEX	<0.300	0.300	12/31/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-129	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/31/2018	ND	400	100	400	7.69	
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	12/31/2018	ND	178	89.2	200	8.53	
DRO >C10-C28*	<10.0	10.0	12/31/2018	ND	190	95.2	200	9.54	
EXT DRO >C28-C36	<10.0	10.0	12/31/2018	ND					
Surrogate: 1-Chlorooctane	91.0	% 41-142							
Surrogate: 1-Chlorooctadecane	95.1	% 37.6-147	7						

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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city: Midland Project Manager: Joel Lowry ZACH COSDER Address: 10 Desta Drive Suite 150E Company Name: Relinquished By: Sampler Name: BECKY Project Location: LEACO Project Name: Phone #: +133 466 4450 Relinquished By: Project #: Sampler - UPS - Bus - Other: nalyses. 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 ALC03H Delivered By: (Circle One) LEASE NOTE: Lab I.D. FOR LAB USE ONLY vice. In no event shall Cardinal i cho Laboratories a 6 5 N 52-004 52-5051 560 560 52.506 101 East Marland, Hobbs, NM 88240 560 SURFACE 55-Be4' 55-B C3 (575) 393-2326 FAX (575) 393-2476 572470 JET 31 ST CON #0071+ 2-30 **TRC** Solutions be liable for incidental Sample I.D. 2 HS2Fax#34.5084 or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, 2 27 JR IFF IN Project Owner: Cosc Ho Date: Time: 12:30 Time: 12-21-18 4.00 zip: 79705 497 20 5 999 0 0 (G)RAB OR (C)OMP Received By: Received By: # CONTAINERS GROUNDWATER Cool Intact Tes Tes unara Sample Condition WASTEWATER MATRIX × SOI OIL SLUDGE State: City: P.O. #: Fax #: OTHER Phone #: Address: Attn: BECKY HASKEL Company: Coscho 072 ACID/BASE PRESERV 4 CHECKED BY: (Initials) ICE / COOL BILL TO OTHER Zip: 2.21-18 8:00 X 2-20-16 1:00 DATE SAMPLING Phone Result: Fax Result: REMARKS: 9:00 0:10 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST A:So BCOOPEL @ TRESDLUTIONS. COM 9:20 9:10 1:30 1:20 REARCELO BRAZIFFINE TRE Sourrows, Com 1:10 TIME PH 8015M x 1 8 × 1 CHLORIDE E 300 4500 C Yes C No X 5 8 3 x BTEX BOZHB R X x × x x CONCHO. COM HOLD X Add'l Fax #: ANALYSIS REQUEST Add'I Phone #:

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

Page 14 of 15

+ Cardinal cannot ac	Delivered By: (Circle (Sampler - UPS - Bus - (000	Relinquished By:	TA IN AT	Relinquished By:	analyses. All claims including those for neglig service. In no event shall Cardinal be liable to affiliates or successors arising out of or related	PLEASE NOTE: Liability and Damages, Card			16570	15 370	04271	\$ F> 61	12 540	11 560	Lab I.D. 8	FOR LAB USE ONLY	Sampler Name: DEC	Project Location: LEA	Project Name: STRA	Project #:	Phone #: 432-466-445	city: Midland	Address: 10 Desta D	Project Manager: Joel Lo	Company Name: TRC	101 East (575) 393
cent verbal changes. Please	One) $\mathcal{A}.\mathcal{D}_{c}^{a}$	Time:	Date:	Time: 2	Date:	rence and any other cause whatsoever shall be de trincidental or consequental damages, including v to the performance of services hereunder by Cau	inal's liability and client's exclusive remedy for an			N.	N.	1.	SURRE	2	4'	Sample I.D.	0	Ky ORIFFIN	Co NH	TOJET 31 ST	Project Owner:	A 432-24-5	State: TX	rive Suite 150E	SACH CON	Solutions	Marland, Hobbs, NM 8824 -2326 FAX (575) 393-2476
fax written changes to	197 Sample Condit Cool Intact Cool Intact		Received By:	lamara 1	Received By:	eemed walved unless made in writing an without limitation, business interruptions, rdinal, regardless of whether such daim	v claim arising whether based in contrac		*	X	×	X	VII X		G 11 X	(G)RAB OR (C)OI # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	MP.			Con # 007H		480	zip: 79705		DEL		10
(575) 393-2326	tion CHECKED BY: (Initials)		W m m	1 Unda Line	111	Id received by Cardinal within 30 days af loss of use, or loss of profits incurred by is based upon any of the above stated r	It or fort, shall be limited to the amount p								12-21-1	OTHER : ACID/BASE: ICE / COOL OTHER : DATE	PRESERV. SAMPL	Fax #:	Phone #:	State: Zip:	City:	Address: U	Attn: BECKY	Company: Cosc	P.O. #:	BILL TO	
	RHAS	22020	NGN	REMARKS:	Phone Result	ther completion of the ap y client, its subsidiaries, reasons or otherwise.	aid by the client for the			10:30	10:20	10:10 Y	10:00	9:50	97:48	TIME	ING				2		ASCEL	F			ł
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Laboratories

2052

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/17/2018

CLIENT:	Concho	Client Sample ID: East									
Project:	Stratojet 31 State Com 007H	Collection Date: 8/28/2018									
Lab ID:	1808J10-001	Matrix: SOIL	Matrix: SOIL Received Date: 8/31/2018 8:45:00 AM								
Analyses		Result	PQL Qua	l Units	DF	Date Analyzed					
EPA ME	THOD 8015M/D: DIESEL RANGE	EORGANICS				Analyst: Irm					
Diesel R	ange Organics (DRO)	ND	9.6	mg/Kg	1	9/6/2018 9:41:18 PM					
Motor O	il Range Organics (MRO)	ND	48	mg/Kg	1	9/6/2018 9:41:18 PM					
Surr:	DNOP	63.6	50.6-138	%Rec	1	9/6/2018 9:41:18 PM					
EPA ME	THOD 300.0: ANIONS					Analyst: MRA					
Chloride		99	30	mg/Kg	20	9/13/2018 1:07:22 AM					
EPA ME	THOD 8260B: VOLATILES SHO	RT LIST				Analyst: RAA					
Benzene	9	ND	0.024	mg/Kg	1	9/6/2018 5:48:36 AM					
Toluene		ND	0.048	mg/Kg	1	9/6/2018 5:48:36 AM					
Ethylber	nzene	ND	0.048	mg/Kg	1	9/6/2018 5:48:36 AM					
Xylenes,	, Total	ND	0.096	mg/Kg	1	9/6/2018 5:48:36 AM					
Surr:	4-Bromofluorobenzene	106	70-130	%Rec	1	9/6/2018 5:48:36 AM					
Surr:	Toluene-d8	92.9	70-130	%Rec	1	9/6/2018 5:48:36 AM					
EPA ME	THOD 8015D MOD: GASOLINE	RANGE				Analyst: DJF					
Gasoline	e Range Organics (GRO)	ND	4.8	mg/Kg	1	9/6/2018 2:39:58 PM					
Surr:	BFB	101	70-130	%Rec	1	9/6/2018 2:39:58 PM					

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 8
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/17/2018

CLIENT: Concho		Client S	ample ID:	West						
Project: Stratojet 31 State Com 007H	Collection Date: 8/28/2018									
Lab ID: 1808J10-002	Matrix: SOIL	Matrix: SOIL Received Date: 8/31/2018 8:45:00 AM								
Analyses	Result	PQL Qua	al Units	DF	Date Analyzed					
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANICS				Analyst: Irm					
Diesel Range Organics (DRO)	120	9.4	mg/Kg	1	9/6/2018 10:03:13 PM					
Motor Oil Range Organics (MRO)	81	47	mg/Kg	1	9/6/2018 10:03:13 PM					
Surr: DNOP	82.6	50.6-138	%Rec	1	9/6/2018 10:03:13 PM					
EPA METHOD 300.0: ANIONS					Analyst: MRA					
Chloride	900	30	mg/Kg	20	9/13/2018 5:02:52 PM					
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst: RAA					
Benzene	ND	0.024	mg/Kg	1	9/6/2018 6:11:42 AM					
Toluene	ND	0.049	mg/Kg	1	9/6/2018 6:11:42 AM					
Ethylbenzene	ND	0.049	mg/Kg	1	9/6/2018 6:11:42 AM					
Xylenes, Total	ND	0.097	mg/Kg	1	9/6/2018 6:11:42 AM					
Surr: 4-Bromofluorobenzene	122	70-130	%Rec	1	9/6/2018 6:11:42 AM					
Surr: Toluene-d8	98.8	70-130	%Rec	1	9/6/2018 6:11:42 AM					
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst: RAA					
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/6/2018 6:11:42 AM					
Surr: BFB	110	70-130	%Rec	1	9/6/2018 6:11:42 AM					

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 8
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/17/2018

CLIENT: Concho		Client S	Sample ID:	South						
Project: Stratojet 31 State Com 007H	Collection Date: 8/28/2018									
Lab ID: 1808J10-003	Matrix: SOIL	018 8:45:00 AM								
Analyses	Result	PQL Qua	al Units	DF	Date Analyzed					
EPA METHOD 8015M/D: DIESEL RANGE	EORGANICS				Analyst: Irm					
Diesel Range Organics (DRO)	21	9.5	mg/Kg	1	9/6/2018 10:25:14 PM					
Motor Oil Range Organics (MRO)	100	48	mg/Kg	1	9/6/2018 10:25:14 PM					
Surr: DNOP	85.2	50.6-138	%Rec	1	9/6/2018 10:25:14 PM					
EPA METHOD 300.0: ANIONS					Analyst: MRA					
Chloride	67	30	mg/Kg	20	9/13/2018 5:40:06 PM					
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst: RAA					
Benzene	ND	0.023	mg/Kg	1	9/6/2018 6:34:45 AM					
Toluene	ND	0.046	mg/Kg	1	9/6/2018 6:34:45 AM					
Ethylbenzene	ND	0.046	mg/Kg	1	9/6/2018 6:34:45 AM					
Xylenes, Total	ND	0.093	mg/Kg	1	9/6/2018 6:34:45 AM					
Surr: 4-Bromofluorobenzene	120	70-130	%Rec	1	9/6/2018 6:34:45 AM					
Surr: Toluene-d8	97.3	70-130	%Rec	1	9/6/2018 6:34:45 AM					
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst: RAA					
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/6/2018 6:34:45 AM					
Surr: BFB	107	70-130	%Rec	1	9/6/2018 6:34:45 AM					

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 8
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/17/2018

CLIENT: Concho		Client S	Sample ID:	North	
Project: Stratojet 31 State Com 007H	ł	Collec	ction Date:	8/28/2	.018
Lab ID: 1808J10-004	Matrix: SOIL	Rece	eived Date:	018 8:45:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAM	NGE ORGANICS				Analyst: Irm
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	9/6/2018 10:47:09 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/6/2018 10:47:09 PM
Surr: DNOP	79.5	50.6-138	%Rec	1	9/6/2018 10:47:09 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	430	30	mg/Kg	20	9/13/2018 5:52:31 PM
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	9/6/2018 6:57:50 AM
Toluene	ND	0.048	mg/Kg	1	9/6/2018 6:57:50 AM
Ethylbenzene	ND	0.048	mg/Kg	1	9/6/2018 6:57:50 AM
Xylenes, Total	ND	0.095	mg/Kg	1	9/6/2018 6:57:50 AM
Surr: 4-Bromofluorobenzene	125	70-130	%Rec	1	9/6/2018 6:57:50 AM
Surr: Toluene-d8	98.1	70-130	%Rec	1	9/6/2018 6:57:50 AM
EPA METHOD 8015D MOD: GASOLIN	NE RANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/6/2018 6:57:50 AM
Surr: BFB	111	70-130	%Rec	1	9/6/2018 6:57:50 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 8
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

WO#:	1808J10
	17 - Sen-18

Client:	Concho												
Project:	Stratojet	t 31 State Com 007H											
O	MD 40040	O	TestOsda, EDA Mathad	000.0 Anima									
Sample ID	WB-40318	SampType: тык	iestode: EPA Method 300.0: Anions										
Client ID:	PBS	Batch ID: 40318	RunNo: 54103										
Prep Date:	9/12/2018	Analysis Date: 9/12/2018	SeqNo: 1788940	Units: mg/Kg									
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual								
Chloride		ND 1.5											
Sample ID	LCS-40318	SampType: Ics	TestCode: EPA Method	300.0: Anions									
Client ID:	LCSS	Batch ID: 40318	RunNo: 54103										
Prep Date:	9/12/2018	Analysis Date: 9/12/2018	SeqNo: 1788941	Units: mg/Kg									
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual								
Chloride		14 1.5 15.00	0 95.5 90	110									
Sample ID	MB-40339	SampType: mblk	TestCode: EPA Method	300.0: Anions									
Client ID:	PBS	Batch ID: 40339	RunNo: 54128										
Prep Date:	9/13/2018	Analysis Date: 9/13/2018	SeqNo: 1791588	Units: mg/Kg									
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual								
Chloride		ND 1.5											
Sample ID	LCS-40339	SampType: Ics	TestCode: EPA Method	300.0: Anions									
Client ID:	LCSS	Batch ID: 40339	RunNo: 54128										
Prep Date:	9/13/2018	Analysis Date: 9/13/2018	SeqNo: 1791589	Units: mg/Kg									
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual								
Chloride		14 1.5 15.00	0 94.7 90	110									

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 5 of 8

WO#:	1808J10
	17-Sen-18

Client:	Concho										
Project:	Stratoje	t 31 State C	om 007	Н							
Sample ID MB-	40152	SampT	ype: M	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	F	anNo: 5	3970								
Prep Date: 9/5	5/2018	Analysis D	ate: 9/	6/2018	S	SeqNo: 1782303 Units: mg/Kg					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organi	ics (DRO)	ND	10								
Motor Oil Range Org	anics (MRO)	ND	50								
Surr: DNOP 11 10.00						108	50.6	138			
Sample ID LCS-40152 SampType: LCS					Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCS	S	Batch	n ID: 40	152	F	anNo: 5					
Prep Date: 9/5	Date: 9/5/2018 Analysis Date: 9/6/2018					SeqNo: 1782317			٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organ	ics (DRO)	47	10	50.00	0	94.6	70	130			
Surr: DNOP		4.9		5.000		98.6	50.6	138			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 6 of 8

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1808J10

17-Sep-18

Client:ConchoProject:Stratojet 31 State Com 007H

Sample ID Ics-40132	SampType: LCS4 TestCode: EPA Method 8260B: Volatiles Short List											
Client ID: BatchQC	Batcl	h ID: 40	132	RunNo: 53926								
Prep Date: 9/4/2018	Analysis E	Date: 9/	5/2018	S	SeqNo: 1	781359	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.91	0.025	1.000	0	91.3	80	120					
Toluene	0.98	0.050	1.000	0	98.2	80	120					
Ethylbenzene	1.0	0.050	1.000	0	104	80	120					
Xylenes, Total	3.1	0.10	3.000	0	104	80	120					
Surr: 4-Bromofluorobenzene	0.55		0.5000		111	70	130					
Surr: Toluene-d8	0.47		0.5000		94.4	70	130					
Sample ID mb-40132	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List			
Sample ID mb-40132 Client ID: PBS	Samp1 Batcl	ype: ME h ID: 40	BLK 132	Tes R	tCode: El	PA Method 3926	8260B: Vola	tiles Short	List			
Sample ID mb-40132 Client ID: PBS Prep Date: 9/4/2018	SampT Batcl Analysis D	Type: ME n ID: 40 Date: 9 /	3LK 132 5/2018	Tes R S	tCode: El RunNo: 5 SeqNo: 1	PA Method 3926 781360	8260B: Volat Units: mg/k	tiles Short	List			
Sample ID mb-40132 Client ID: PBS Prep Date: 9/4/2018 Analyte	SampT Batcl Analysis D Result	Type: ME n ID: 40 Date: 9/ PQL	3LK 132 5/2018 SPK value	Tes R S SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1 %REC	PA Method 3926 781360 LowLimit	8260B: Volat Units: mg/K HighLimit	tiles Short (g %RPD	List RPDLimit	Qual		
Sample ID mb-40132 Client ID: PBS Prep Date: 9/4/2018 Analyte Benzene	SampT Batcl Analysis D Result ND	ype: ME n ID: 40 Date: 9/ PQL 0.025	BLK 132 5/2018 SPK value	Tes R S SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1 %REC	PA Method 3926 781360 LowLimit	8260B: Volar Units: mg/k HighLimit	tiles Short Kg %RPD	List RPDLimit	Qual		
Sample ID mb-40132 Client ID: PBS Prep Date: 9/4/2018 Analyte Benzene Toluene	SampT Batcl Analysis E Result ND ND	ype: ME h ID: 40 Date: 9 / PQL 0.025 0.050	BLK 132 5/2018 SPK value	Tes R SPK Ref Val	tCode: El RunNo: 5: SeqNo: 1 %REC	PA Method 3926 781360 LowLimit	8260B: Volar Units: mg/k HighLimit	tiles Short (g %RPD	List RPDLimit	Qual		
Sample ID mb-40132 Client ID: PBS Prep Date: 9/4/2018 Analyte Benzene Toluene Ethylbenzene	SampT Batcl Analysis E Result ND ND ND	ype: ME n ID: 40 Date: 9 / PQL 0.025 0.050 0.050	BLK 132 5/2018 SPK value	Tes F SPK Ref Val	tCode: El RunNo: 5: GeqNo: 1' %REC	PA Method 3926 781360 LowLimit	8260B: Volar Units: mg/K HighLimit	tiles Short (g %RPD	List RPDLimit	Qual		
Sample ID mb-40132 Client ID: PBS Prep Date: 9/4/2018 Analyte Benzene Toluene Ethylbenzene Xylenes, Total	Samp1 Batcl Analysis E Result ND ND ND ND	Type: ME n ID: 40 Date: 9/ PQL 0.025 0.050 0.050 0.10	BLK 132 5/2018 SPK value	Tes R SPK Ref Val	tCode: El RunNo: 5: GeqNo: 1 %REC	PA Method 3926 781360 LowLimit	8260B: Volat Units: mg/k HighLimit	tiles Short (g %RPD	List RPDLimit	Qual		
Sample ID mb-40132 Client ID: PBS Prep Date: 9/4/2018 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene	Samp1 Batcl Analysis E Result ND ND ND ND 0.60	ype: ME h ID: 40 Date: 9/ PQL 0.025 0.050 0.050 0.10	BLK 132 5/2018 SPK value 0.5000	Tes R SPK Ref Val	tCode: El RunNo: 5: SeqNo: 1 %REC 120	PA Method 3926 781360 LowLimit 70	8260B: Volat Units: mg/k HighLimit 130	tiles Short (g %RPD	List RPDLimit	Qual		

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#:	1808J10
	17-Sep-18

Client: Conch Project: Strato	10 jet 31 State C	om 007	Н							
Sample ID Ics-40132	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: LCSS	Batch	n ID: 40	132	F	RunNo: 5	3926				
Prep Date: 9/4/2018	Analysis D	0ate: 9/	5/2018	S	SeqNo: 1	781407	Units: mg/ł	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.0	70	130			
Surr: BFB	510		500.0		103	70	130			
Sample ID mb-40132	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: PBS	Batch	n ID: 40	132	F	RunNo: 5	3926				
Prep Date: 9/4/2018	Analysis D	0ate: 9/	5/2018	S	SeqNo: 1	781408	Units: mg/ł	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	530		500.0		107	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 8 of 8

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albu TEL: 505-345-3975 Website: www.ha	Analys 490 iquerq FAX: llenvir	sis La 1 Har ue, N 505-3 conme	uboratory wkins NE IM 87109 345-4107 ental.com	Sar	nple Log-In Check List
Client Name: CONCHO MIDLAND	Work Order Number:	1808	3J10			RcptNo: 1
Received By: Erin Melendrez	8/31/2018 8:45:00 AM			Ú.	MA	5
Completed By: Michelle Garcia,	8/31/2018 1:39:09 PM			m	inul (Janua)
Reviewed By: JAD U8/51/18						
LB: 50 8-31-1K						
Chain of Custody						
1. Is Chain of Custody complete?		Yes	\checkmark	N	• □	Not Present
2. How was the sample delivered?		<u>Cour</u>	ier			
Log In 3. Was an attempt made to cool the samples?		Yes	✓	N	•	na 🗔
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes	✓.	N	•	
5. Sample(s) in proper container(s)?		Yes	\checkmark	N	•	
6. Sufficient sample volume for indicated test(s)	?	Yes		N	b	
7. Are samples (except VOA and ONG) properly	/ preserved?	Yes	\checkmark	No		
8. Was preservative added to bottles?		Yes		No		NA 🗆
9. VOA vials have zero headspace?		Yes		No	, 🗆	No VOA Vials 🗹
10. Were any sample containers received broker	1?	Yes		N	• 🖌	# of preserved
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	✓	No	• 🗆	bottles checked for pH:
2. Are matrices correctly identified on Chain of (Custody?	Yes	✓	No		Adjusted?
3 Is it clear what analyses were requested?		Yes	✓	No	• 🗆	4.5
14. Were all holding times able to be met?		Yes	✓	No	, 🗆	Checked by:
(ii no, notity customer for authorization.)					[
<u>Special Handling (if applicable)</u>						
15. Was client notified of all discrepancies with t	his order?	Yes		N	•	NA 🗹
Person Notified: By Whom: Regarding:	Date: Via:] eMa	ail [Phone [] Fax	In Person
16 Additional remarks:	······································					

17. Cooler Information

1 2.7 Good Yes 2 1.9 Good Yes	Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
2 1.9 Good Yes	1	2.7	Good	Yes			
	2	1. 9	Good	Yes			

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

September 17, 2018

Jennifer Knowlton Concho 600 W Illinois Ave Midland, TX 79701 TEL: (505) 238-3588 FAX

OrderNo.: 1808J09

RE: Stratojet 31 State Com 007H

Dear Jennifer Knowlton:

Hall Environmental Analysis Laboratory received 19 sample(s) on 8/31/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1808J09 Date Reported: 9/17/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Concho Project: Stratojet 31 State Com 007H	Client Sample ID: S1-Surface					
Lab ID: 1808J09-001	Matrix: SOIL Received Date: 8/31/2018 8:45:00 AM					018 8:45:00 AM
Analyses	Result	PQL Q	Qual Ur	nits	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst: Irm
Diesel Range Organics (DRO)	5800	96	m	g/Kg	10	9/7/2018 4:25:31 PM
Motor Oil Range Organics (MRO)	2300	480	m	g/Kg	10	9/7/2018 4:25:31 PM
Surr: DNOP	0	50.6-138	S %	Rec	10	9/7/2018 4:25:31 PM
EPA METHOD 8015D: GASOLINE RANG	E					Analyst: NSB
Gasoline Range Organics (GRO)	52	25	m	g/Kg	5	9/7/2018 1:23:14 AM
Surr: BFB	170	15-316	%	Rec	5	9/7/2018 1:23:14 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.12	m	g/Kg	5	9/7/2018 1:23:14 AM
Toluene	ND	0.25	m	g/Kg	5	9/7/2018 1:23:14 AM
Ethylbenzene	ND	0.25	m	g/Kg	5	9/7/2018 1:23:14 AM
Xylenes, Total	1.1	0.50	m	g/Kg	5	9/7/2018 1:23:14 AM
Surr: 4-Bromofluorobenzene	95.8	80-120	%	Rec	5	9/7/2018 1:23:14 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	4500	300	m	g/Kg	200	9/13/2018 1:56:40 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 25
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Lab Order **1808J09** Date Reported: **9/17/2018**

CLIENT: Concho	Client Sample ID: S1-1'						
Project: Stratojet 31 State Com 007H	Collection Date: 8/28/2018						
Lab ID: 1808J09-002	Matrix: SOIL	Rece	eived Date:	8/31/20	018 8:45:00 AM		
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: Irm		
Diesel Range Organics (DRO)	65	9.6	mg/Kg	1	9/7/2018 5:36:57 AM		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/7/2018 5:36:57 AM		
Surr: DNOP	94.8	50.6-138	%Rec	1	9/7/2018 5:36:57 AM		
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: NSB		
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/7/2018 1:46:35 AM		
Surr: BFB	97.0	15-316	%Rec	1	9/7/2018 1:46:35 AM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.024	mg/Kg	1	9/7/2018 1:46:35 AM		
Toluene	ND	0.047	mg/Kg	1	9/7/2018 1:46:35 AM		
Ethylbenzene	ND	0.047	mg/Kg	1	9/7/2018 1:46:35 AM		
Xylenes, Total	ND	0.094	mg/Kg	1	9/7/2018 1:46:35 AM		
Surr: 4-Bromofluorobenzene	90.2	80-120	%Rec	1	9/7/2018 1:46:35 AM		
EPA METHOD 300.0: ANIONS					Analyst: MRA		
Chloride	5400	300	mg/Kg	200	9/13/2018 2:33:54 PM		

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 25
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/17/2018

CLIENT: Concho	Client Sample ID: S1-2' Collection Date: 8/28/2018					
Project: Stratojet 31 State Com 007H						
Lab ID: 1808J09-003	Matrix: SOIL	018 8:45:00 AM				
Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: Irm	
Diesel Range Organics (DRO)	19	9.8	mg/Kg	1	9/7/2018 6:01:18 AM	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/7/2018 6:01:18 AM	
Surr: DNOP	96.0	50.6-138	%Rec	1	9/7/2018 6:01:18 AM	
EPA METHOD 300.0: ANIONS					Analyst: MRA	
Chloride	1800	75	mg/Kg	50	9/13/2018 4:00:48 PM	
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst: RAA	
Benzene	ND	0.024	mg/Kg	1	9/5/2018 10:53:58 PM	
Toluene	ND	0.047	mg/Kg	1	9/5/2018 10:53:58 PM	
Ethylbenzene	ND	0.047	mg/Kg	1	9/5/2018 10:53:58 PM	
Xylenes, Total	ND	0.094	mg/Kg	1	9/5/2018 10:53:58 PM	
Surr: 4-Bromofluorobenzene	126	70-130	%Rec	1	9/5/2018 10:53:58 PM	
Surr: Toluene-d8	97.7	70-130	%Rec	1	9/5/2018 10:53:58 PM	
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst: RAA	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/5/2018 10:53:58 PM	
Surr: BFB	113	70-130	%Rec	1	9/5/2018 10:53:58 PM	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 25
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis		Analytical Report Lab Order 1808J09 Date Reported: 9/17/2018			
CLIENT:ConchoProject:Stratojet 31 State Com 007HLab ID:1808J09-004	Matrix: SOIL	Client Sample ID: S1-3' Collection Date: 8/28/2018 Matrix: SOIL Received Date: 8/31/2018 8:45:00 AM			
Analyses	Result	PQL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS Chloride	910	30	mg/Kg	20	Analyst: MRA 9/12/2018 8:46:47 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 25
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report Lab Order 1808J09 Date Reported: 9/17/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Concho

Client Sample ID: S2-Surface' Collection Date: 8/28/2018

Project:	Stratojet 31 State Com 007H	Collection Date: 8/28/2018						
Lab ID:	1808J09-006	Matrix: SOIL	rix: SOIL Received Date: 8/31/2018 8:45:00 A					
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	
EPA ME	THOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst: TOM	
Diesel R	ange Organics (DRO)	15000	460		mg/Kg	50	9/11/2018 1:21:52 PM	
Motor O	il Range Organics (MRO)	4400	2300		mg/Kg	50	9/11/2018 1:21:52 PM	
Surr:	DNOP	0	50.6-138	S	%Rec	50	9/11/2018 1:21:52 PM	
EPA ME	THOD 300.0: ANIONS						Analyst: MRA	
Chloride		310	30		mg/Kg	20	9/12/2018 8:59:11 PM	
EPA ME	THOD 8260B: VOLATILES SHOP	RT LIST					Analyst: RAA	
Benzene	e	ND	0.48		mg/Kg	20	9/6/2018 12:03:10 AM	
Toluene		2.2	0.96		mg/Kg	20	9/6/2018 12:03:10 AM	
Ethylber	nzene	5.2	0.96		mg/Kg	20	9/6/2018 12:03:10 AM	
Xylenes	, Total	21	1.9		mg/Kg	20	9/6/2018 12:03:10 AM	
Surr:	4-Bromofluorobenzene	124	70-130		%Rec	20	9/6/2018 12:03:10 AM	
Surr:	Toluene-d8	104	70-130		%Rec	20	9/6/2018 12:03:10 AM	
EPA ME	THOD 8015D MOD: GASOLINE F	RANGE					Analyst: RAA	
Gasoline	e Range Organics (GRO)	1100	96		mg/Kg	20	9/6/2018 12:03:10 AM	
Surr:	BFB	111	70-130		%Rec	20	9/6/2018 12:03:10 AM	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 25
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/17/2018

CLIENT: Concho	Client Sample ID: S2-1'					
Project: Stratojet 31 State Com 007H	Collection Date: 8/28/2018					
Lab ID: 1808J09-007	Matrix: SOIL	Rece	ived Date:	8/31/2	018 8:45:00 AM	
Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: TOM	
Diesel Range Organics (DRO)	1200	48	mg/Kg	5	9/11/2018 1:46:23 PM	
Motor Oil Range Organics (MRO)	440	240	mg/Kg	5	9/11/2018 1:46:23 PM	
Surr: DNOP	110	50.6-138	%Rec	5	9/11/2018 1:46:23 PM	
EPA METHOD 300.0: ANIONS					Analyst: MRA	
Chloride	560	30	mg/Kg	20	9/12/2018 10:01:14 PM	
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst: RAA	
Benzene	ND	0.023	mg/Kg	1	9/6/2018 1:12:08 AM	
Toluene	ND	0.047	mg/Kg	1	9/6/2018 1:12:08 AM	
Ethylbenzene	0.13	0.047	mg/Kg	1	9/6/2018 1:12:08 AM	
Xylenes, Total	0.59	0.093	mg/Kg	1	9/6/2018 1:12:08 AM	
Surr: 4-Bromofluorobenzene	136	70-130 S	%Rec	1	9/6/2018 1:12:08 AM	
Surr: Toluene-d8	95.3	70-130	%Rec	1	9/6/2018 1:12:08 AM	
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst: RAA	
Gasoline Range Organics (GRO)	68	4.7	mg/Kg	1	9/6/2018 1:12:08 AM	
Surr: BFB	122	70-130	%Rec	1	9/6/2018 1:12:08 AM	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 25
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/17/2018

CLIENT: Concho	Client Sample ID: S2-2'					
Project: Stratojet 31 State Com 007H	Collection Date: 8/28/2018Matrix: SOILReceived Date: 8/31/2018 8:45:00 AM					
Lab ID: 1808J09-008						
Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	EORGANICS				Analyst: Irm	
Diesel Range Organics (DRO)	4200	95	mg/Kg	10	9/7/2018 5:39:10 PM	
Motor Oil Range Organics (MRO)	1500	480	mg/Kg	10	9/7/2018 5:39:10 PM	
Surr: DNOP	0	50.6-138	S %Rec	10	9/7/2018 5:39:10 PM	
EPA METHOD 300.0: ANIONS					Analyst: MRA	
Chloride	520	30	mg/Kg	20	9/12/2018 10:13:39 PM	
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst: RAA	
Benzene	ND	0.12	mg/Kg	5	9/6/2018 1:35:10 AM	
Toluene	ND	0.23	mg/Kg	5	9/6/2018 1:35:10 AM	
Ethylbenzene	0.58	0.23	mg/Kg	5	9/6/2018 1:35:10 AM	
Xylenes, Total	2.3	0.46	mg/Kg	5	9/6/2018 1:35:10 AM	
Surr: 4-Bromofluorobenzene	111	70-130	%Rec	5	9/6/2018 1:35:10 AM	
Surr: Toluene-d8	93.7	70-130	%Rec	5	9/6/2018 1:35:10 AM	
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst: RAA	
Gasoline Range Organics (GRO)	180	23	mg/Kg	5	9/6/2018 1:35:10 AM	
Surr: BFB	97.6	70-130	%Rec	5	9/6/2018 1:35:10 AM	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 25
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/17/2018

CLIENT:	Concho	Client Sample ID: S3-Surface					
Project:	Stratojet 31 State Com 007H	Collection Date: 8/28/2018					
Lab ID:	1808J09-009	Matrix: SOIL	Received Date: 8/31/2018 8:45:00 AM				
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA MET	THOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst: Irm
Diesel R	ange Organics (DRO)	1300	96		mg/Kg	10	9/7/2018 6:03:45 PM
Motor Oi	il Range Organics (MRO)	640	480		mg/Kg	10	9/7/2018 6:03:45 PM
Surr: I	DNOP	0	50.6-138	S	%Rec	10	9/7/2018 6:03:45 PM
EPA MET	THOD 300.0: ANIONS						Analyst: MRA
Chloride		1800	75		mg/Kg	50	9/13/2018 2:46:19 PM
EPA MET	THOD 8260B: VOLATILES SHOP	RT LIST					Analyst: RAA
Benzene	9	ND	0.024		mg/Kg	1	9/6/2018 1:58:10 AM
Toluene		ND	0.048		mg/Kg	1	9/6/2018 1:58:10 AM
Ethylben	izene	ND	0.048		mg/Kg	1	9/6/2018 1:58:10 AM
Xylenes,	Total	ND	0.096		mg/Kg	1	9/6/2018 1:58:10 AM
Surr: 4	4-Bromofluorobenzene	119	70-130		%Rec	1	9/6/2018 1:58:10 AM
Surr:	Toluene-d8	98.0	70-130		%Rec	1	9/6/2018 1:58:10 AM
EPA MET	THOD 8015D MOD: GASOLINE I	RANGE					Analyst: RAA
Gasoline	e Range Organics (GRO)	ND	4.8		mg/Kg	1	9/6/2018 1:58:10 AM
Surr: I	BFB	106	70-130		%Rec	1	9/6/2018 1:58:10 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 25
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/17/2018

CLIENT: Concho	Client Sample ID: S3-1'					
Project: Stratojet 31 State Com 007H	Collection Date: 8/28/2018					
Lab ID: 1808J09-010	Matrix: SOIL	018 8:45:00 AM				
Analyses	Result	PQL Qua	Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANICS				Analyst: Irm	
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/7/2018 11:43:48 AM	
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	9/7/2018 11:43:48 AM	
Surr: DNOP	93.7	50.6-138	%Rec	1	9/7/2018 11:43:48 AM	
EPA METHOD 300.0: ANIONS					Analyst: MRA	
Chloride	1300	75	mg/Kg	50	9/13/2018 2:58:44 PM	
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst: RAA	
Benzene	ND	0.024	mg/Kg	1	9/6/2018 2:21:13 AM	
Toluene	ND	0.048	mg/Kg	1	9/6/2018 2:21:13 AM	
Ethylbenzene	ND	0.048	mg/Kg	1	9/6/2018 2:21:13 AM	
Xylenes, Total	ND	0.095	mg/Kg	1	9/6/2018 2:21:13 AM	
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	9/6/2018 2:21:13 AM	
Surr: Toluene-d8	90.8	70-130	%Rec	1	9/6/2018 2:21:13 AM	
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst: RAA	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/6/2018 2:21:13 AM	
Surr: BFB	97.3	70-130	%Rec	1	9/6/2018 2:21:13 AM	

Qualifiers	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 9 of 25
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/17/2018

CLIENT: Concho	Client Sample ID: S3-2'					
Project: Stratojet 31 State Com 007H	Collection Date: 8/28/2018					
Lab ID: 1808J09-011	Matrix: SOIL	Received Date: 8/31/2018 8:45:00 AM				
Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: Irm	
Diesel Range Organics (DRO)	14	9.9	mg/Kg	1	9/7/2018 12:08:21 PM	
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/7/2018 12:08:21 PM	
Surr: DNOP	96.2	50.6-138	%Rec	1	9/7/2018 12:08:21 PM	
EPA METHOD 300.0: ANIONS					Analyst: MRA	
Chloride	600	30	mg/Kg	20	9/12/2018 10:50:53 PM	
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst: RAA	
Benzene	ND	0.024	mg/Kg	1	9/6/2018 2:44:15 AM	
Toluene	ND	0.049	mg/Kg	1	9/6/2018 2:44:15 AM	
Ethylbenzene	ND	0.049	mg/Kg	1	9/6/2018 2:44:15 AM	
Xylenes, Total	ND	0.097	mg/Kg	1	9/6/2018 2:44:15 AM	
Surr: 4-Bromofluorobenzene	123	70-130	%Rec	1	9/6/2018 2:44:15 AM	
Surr: Toluene-d8	97.0	70-130	%Rec	1	9/6/2018 2:44:15 AM	
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst: RAA	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/6/2018 2:44:15 AM	
Surr: BFB	110	70-130	%Rec	1	9/6/2018 2:44:15 AM	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 10 of 25
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report Lab Order 1808J09 Date Reported: 9/17/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Concho

Client Sample ID: S4-Surface

Project:	Stratojet 31 State Com 007H	HCollection Date: 8/28/2018					
Lab ID:	1808J09-012	Matrix: SOIL	Receiv	ed Date:	Date: 8/31/2018 8:45:00 AM		
Analyses		Result	PQL Qual	Units	DF	Date Analyzed	
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: Irm	
Diesel Ra	ange Organics (DRO)	15	9.2	mg/Kg	1	9/7/2018 12:32:48 PM	
Motor Oil	Range Organics (MRO)	ND	46	mg/Kg	1	9/7/2018 12:32:48 PM	
Surr: D	NOP	94.3	50.6-138	%Rec	1	9/7/2018 12:32:48 PM	
EPA MET	HOD 300.0: ANIONS					Analyst: MRA	
Chloride		290	30	mg/Kg	20	9/12/2018 11:03:17 PM	
EPA MET	HOD 8260B: VOLATILES SHOR	RT LIST				Analyst: RAA	
Benzene		ND	0.024	mg/Kg	1	9/6/2018 3:07:18 AM	
Toluene		ND	0.047	mg/Kg	1	9/6/2018 3:07:18 AM	
Ethylbenz	zene	ND	0.047	mg/Kg	1	9/6/2018 3:07:18 AM	
Xylenes,	Total	ND	0.095	mg/Kg	1	9/6/2018 3:07:18 AM	
Surr: 4	-Bromofluorobenzene	120	70-130	%Rec	1	9/6/2018 3:07:18 AM	
Surr: T	oluene-d8	93.2	70-130	%Rec	1	9/6/2018 3:07:18 AM	
EPA MET	HOD 8015D MOD: GASOLINE F	RANGE				Analyst: RAA	
Gasoline	Range Organics (GRO)	ND	4.7	mg/Kg	1	9/6/2018 3:07:18 AM	
Surr: E	BFB	107	70-130	%Rec	1	9/6/2018 3:07:18 AM	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 11 of 25
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/17/2018

CLIENT: Concho	Client Sample ID: S4-1'					
Project: Stratojet 31 State Com 007H	Collection Date: 8/28/2018					
Lab ID: 1808J09-013	Matrix: SOIL	018 8:45:00 AM				
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANICS				Analyst: Irm	
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/7/2018 12:57:22 PM	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/7/2018 12:57:22 PM	
Surr: DNOP	95.8	50.6-138	%Rec	1	9/7/2018 12:57:22 PM	
EPA METHOD 300.0: ANIONS					Analyst: MRA	
Chloride	71	30	mg/Kg	20	9/12/2018 11:15:41 PM	
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst: RAA	
Benzene	ND	0.024	mg/Kg	1	9/6/2018 3:30:20 AM	
Toluene	ND	0.049	mg/Kg	1	9/6/2018 3:30:20 AM	
Ethylbenzene	ND	0.049	mg/Kg	1	9/6/2018 3:30:20 AM	
Xylenes, Total	ND	0.097	mg/Kg	1	9/6/2018 3:30:20 AM	
Surr: 4-Bromofluorobenzene	116	70-130	%Rec	1	9/6/2018 3:30:20 AM	
Surr: Toluene-d8	94.2	70-130	%Rec	1	9/6/2018 3:30:20 AM	
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst: RAA	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/6/2018 3:30:20 AM	
Surr: BFB	103	70-130	%Rec	1	9/6/2018 3:30:20 AM	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 12 of 25
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/17/2018

CLIENT: Concho		Client S	Sample ID:	S4-2'				
Project: Stratojet 31 State Com 007H	ł	Collection Date: 8/28/2018						
Lab ID: 1808J09-014	Matrix: SOIL	Matrix: SOIL Received Date: 8/31/2018 8:45:00 AM						
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RAM	NGE ORGANICS				Analyst: Irm			
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/7/2018 1:21:49 PM			
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/7/2018 1:21:49 PM			
Surr: DNOP	96.3	50.6-138	%Rec	1	9/7/2018 1:21:49 PM			
EPA METHOD 300.0: ANIONS					Analyst: MRA			
Chloride	75	30	mg/Kg	20	9/12/2018 11:28:06 PM			
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst: RAA			
Benzene	ND	0.024	mg/Kg	1	9/6/2018 3:53:20 AM			
Toluene	ND	0.049	mg/Kg	1	9/6/2018 3:53:20 AM			
Ethylbenzene	ND	0.049	mg/Kg	1	9/6/2018 3:53:20 AM			
Xylenes, Total	ND	0.097	mg/Kg	1	9/6/2018 3:53:20 AM			
Surr: 4-Bromofluorobenzene	117	70-130	%Rec	1	9/6/2018 3:53:20 AM			
Surr: Toluene-d8	94.6	70-130	%Rec	1	9/6/2018 3:53:20 AM			
EPA METHOD 8015D MOD: GASOLIN	NE RANGE				Analyst: RAA			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/6/2018 3:53:20 AM			
Surr: BFB	104	70-130	%Rec	1	9/6/2018 3:53:20 AM			

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 13 of 25
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report				
Lab Order 1808J09				
Date Reported: 9/17/2018				

CLIENT:	Concho	Client Sample ID: S4-3'						
Project:	Stratojet 31 State Com 007H	Collection Date: 8/28/2018						
Lab ID:	1808J09-015	Matrix: SOIL Received Date: 8/31/2018 8:45:00 AM						
Analyses		Result	PQL Qual	Units	DF	Date Analyzed		
EPA MET	HOD 300.0: ANIONS					Analyst: MRA		
Chloride		2600	150	mg/Kg	100	9/13/2018 3:11:09 PM		

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 14 of 25
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report Lab Order 1808J09 Date Reported: 9/17/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Concho

Project: Stratojet 31 State Com 007H

Client Sample ID: S5-Surface Collection Date: 8/28/2018

Lab ID: 1808J09-016	Matrix: SOIL	Received Date: 8/31/2018 8:45:00 AM				
Analyses	Result	PQL Qu	ial Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: TOM	
Diesel Range Organics (DRO)	12000	490	mg/Kg	50	9/11/2018 2:11:01 PM	
Motor Oil Range Organics (MRO)	3600	2400	mg/Kg	50	9/11/2018 2:11:01 PM	
Surr: DNOP	0	50.6-138	S %Rec	50	9/11/2018 2:11:01 PM	
EPA METHOD 300.0: ANIONS					Analyst: MRA	
Chloride	320	30	mg/Kg	20	9/13/2018 12:17:44 AM	
EPA METHOD 8260B: VOLATILES SH	IORT LIST				Analyst: RAA	
Benzene	2.5	0.50	mg/Kg	20	9/6/2018 4:16:29 AM	
Toluene	39	1.0	mg/Kg	20	9/6/2018 4:16:29 AM	
Ethylbenzene	25	1.0	mg/Kg	20	9/6/2018 4:16:29 AM	
Xylenes, Total	79	2.0	mg/Kg	20	9/6/2018 4:16:29 AM	
Surr: 4-Bromofluorobenzene	125	70-130	%Rec	20	9/6/2018 4:16:29 AM	
Surr: Toluene-d8	108	70-130	%Rec	20	9/6/2018 4:16:29 AM	
EPA METHOD 8015D MOD: GASOLIN	E RANGE				Analyst: RAA	
Gasoline Range Organics (GRO)	2900	100	mg/Kg	20	9/6/2018 4:16:29 AM	
Surr: BFB	112	70-130	%Rec	20	9/6/2018 4:16:29 AM	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 15 of 25
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/17/2018

CLIENT: Concho	Client Sample ID: S5-1'						
Project: Stratojet 31 State Com 007H	Collection Date: 8/28/2018						
Lab ID: 1808J09-017	Matrix: SOIL	018 8:45:00 AM					
Analyses	Result	PQL Qual Units		DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: TOM		
Diesel Range Organics (DRO)	1100	47	mg/Kg	5	9/11/2018 2:35:31 PM		
Motor Oil Range Organics (MRO)	390	240	mg/Kg	5	9/11/2018 2:35:31 PM		
Surr: DNOP	108	50.6-138	%Rec	5	9/11/2018 2:35:31 PM		
EPA METHOD 300.0: ANIONS					Analyst: MRA		
Chloride	2800	150	mg/Kg	100	9/13/2018 3:23:33 PM		
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst: RAA		
Benzene	ND	0.024	mg/Kg	1	9/6/2018 4:39:25 AM		
Toluene	2.4	0.048	mg/Kg	1	9/6/2018 4:39:25 AM		
Ethylbenzene	2.7	0.048	mg/Kg	1	9/6/2018 4:39:25 AM		
Xylenes, Total	8.9	0.095	mg/Kg	1	9/6/2018 4:39:25 AM		
Surr: 4-Bromofluorobenzene	141	70-130	S %Rec	1	9/6/2018 4:39:25 AM		
Surr: Toluene-d8	102	70-130	%Rec	1	9/6/2018 4:39:25 AM		
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst: RAA		
Gasoline Range Organics (GRO)	350	4.8	mg/Kg	1	9/6/2018 4:39:25 AM		
Surr: BFB	128	70-130	%Rec	1	9/6/2018 4:39:25 AM		

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 16 of 25
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/17/2018

CLIENT: Concho	Client Sample ID: S5-2' Collection Date: 8/28/2018						
Project: Stratojet 31 State Com 007H							
Lab ID: 1808J09-018	Matrix: SOIL Received Date: 8/31/2018 8:45:00 AM						
Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst: Irm	
Diesel Range Organics (DRO)	1300	97		mg/Kg	10	9/7/2018 2:47:14 PM	
Motor Oil Range Organics (MRO)	670	480		mg/Kg	10	9/7/2018 2:47:14 PM	
Surr: DNOP	0	50.6-138	S	%Rec	10	9/7/2018 2:47:14 PM	
EPA METHOD 300.0: ANIONS						Analyst: MRA	
Chloride	2100	75		mg/Kg	50	9/13/2018 3:35:58 PM	
EPA METHOD 8260B: VOLATILES SHOP	RT LIST					Analyst: RAA	
Benzene	ND	0.023		mg/Kg	1	9/6/2018 5:02:31 AM	
Toluene	ND	0.046		mg/Kg	1	9/6/2018 5:02:31 AM	
Ethylbenzene	0.052	0.046		mg/Kg	1	9/6/2018 5:02:31 AM	
Xylenes, Total	0.25	0.092		mg/Kg	1	9/6/2018 5:02:31 AM	
Surr: 4-Bromofluorobenzene	128	70-130		%Rec	1	9/6/2018 5:02:31 AM	
Surr: Toluene-d8	96.3	70-130		%Rec	1	9/6/2018 5:02:31 AM	
EPA METHOD 8015D MOD: GASOLINE	RANGE					Analyst: DJF	
Gasoline Range Organics (GRO)	120	9.2		mg/Kg	2	9/6/2018 3:03:00 PM	
Surr: BFB	119	70-130		%Rec	2	9/6/2018 3:03:00 PM	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 17 of 25
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1808J09
Data Deported: 0/17/2018

Hall Environmental Analysis	s Laboratory, In	с.	• Date Reported: 9/17/2018							
CLIENT: Concho		Client Sa	nple ID:	S5-3'						
Project: Stratojet 31 State Com 007H Collection Date: 8/28/2018 Lab ID: 1808/00.010 Nation SOU Date: 8/21/2018 8.45.00 AM					018					
Lab ID: 1808J09-019	Matrix: SOIL	Receive	eceived Date: 8/31/2018 8:45:00 AM							
Analyses	Result	PQL Qual	Units	DF	Date Analyzed					
EPA METHOD 300.0: ANIONS					Analyst: MRA					
Chloride	2000	75	mg/Kg	50	9/13/2018 3:48:23 PM					

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 18 of 25
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

WO#:	1808J09
	17-Sep-18

Client:	Concho									
Project:	Stratojet	31 State Com 007H								
Sample ID	MB-40298	SampType: mblk	TestCode: EPA Method 300.0: Anions							
Client ID:	PBS	Batch ID: 40298	RunNo: 54103							
Prep Date:	9/12/2018	Analysis Date: 9/12/2018	SeqNo: 1788910	Units: mg/Kg						
Analyte Chloride		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual					
O a marka ID	1.00.40000									
Sample ID	LCS-40298	SampType: Ics	lestCode: EPA Method	300.0: Anions						
Client ID:	LCSS	Batch ID: 40298 RunNo: 54103								
Prep Date:	9/12/2018	Analysis Date: 9/12/2018	SeqNo: 1788911	Units: mg/Kg						
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual					
Chloride		15 1.5 15.00	0 97.1 90	110						
Sample ID	MB-40318	SampType: mblk	TestCode: EPA Method	300.0: Anions						
Client ID:	PBS	Batch ID: 40318	RunNo: 54103							
Prep Date:	9/12/2018	Analysis Date: 9/12/2018	SeqNo: 1788940	Units: mg/Kg						
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual					
Chloride		ND 1.5								
Sample ID	LCS-40318	SampType: Ics	TestCode: EPA Method	300.0: Anions						
Client ID:	LCSS	Batch ID: 40318	RunNo: 54103							
Prep Date:	9/12/2018	Analysis Date: 9/12/2018	SeqNo: 1788941	Units: mg/Kg						
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual					

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 19 of 25

WO#:	1808J09
	17-Sep-18

Client:	Concho									
Project:	Stratojet 31 State	Com 007	Н							
Sample ID LCS-4	0160 Sam	pType: LC	s	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Ba	tch ID: 40	160	F	RunNo: 5	3951				
Prep Date: 9/5/2	018 Analysis	a Date: 9/	7/2018	S	SeqNo: 17	782754	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics	(DRO) 43	10	50.00	0	86.1	70	130			
Surr: DNOP	4.2		5.000		84.6	50.6	138			
Sample ID MB-40)160 Sam	рТуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Ba	tch ID: 40	160	F	RunNo: 5:	3951				
Prep Date: 9/5/2	018 Analysis	Date: 9/	7/2018	S	SeqNo: 17	782755	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics	(DRO) ND	10								
Motor Oil Range Organ	ics (MRO) ND	50								
Surr: DNOP	8.7		10.00		87.4	50.6	138			
Sample ID LCS-4	.0214 Sam	pType: LC	S	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Ва	tch ID: 40	214	F	RunNo: 54	4034				
Prep Date: 9/7/2	018 Analysis	a Date: 9/	11/2018	S	SeqNo: 17	785556	Units: %Re	C		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		84.3	50.6	138			
Sample ID MB-40	0214 Sam	рТуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Ва	tch ID: 40	214	F	RunNo: 54	4034				
Prep Date: 9/7/2	018 Analysis	a Date: 9/	11/2018	S	SeqNo: 17	785557	Units: %Re	C		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.9		10.00		88.8	50.6	138			

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 20 of 25

Client:	Concho										
Project:	Stratojet	31 State C	om 007	Ή							
Sample ID ME	3-40116	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gase	oline Rang	e	
Client ID: PE	S	Batcl	n ID: 40	116	F	RunNo: 5	3977				
Prep Date: 9	/4/2018	Analysis E	Date: 9/	6/2018	S	SeqNo: 1	781951	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	rganics (GRO)	ND	5.0								
Surr: BFB		960		1000		95.6	15	316			
Sample ID LC	S-40116	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gase	oline Rang	e	
Client ID: LC	SS	Batcl	h ID: 40	116	F	RunNo: 5	3977				
Prep Date: 9	/4/2018	Analysis E	Date: 9/	6/2018	S	SeqNo: 1	781952	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	rganics (GRO)	26	5.0	25.00	0	104	75.9	131			
Surr: BFB		1100		1000		106	15	316			

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 21 of 25

Client:	Concho											
Project:	Stratojet .	31 State C	om 007	Н								
Sample ID MB-4	40116	SampT	Type: ME	BLK	TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS		Batcl	Batch ID: 40116			RunNo: 5	3977					
Prep Date: 9/4/	2018	Analysis D	Date: 9/	6/2018	S	SeqNo: 1	781996	Units: mg/k	٢g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		ND	0.025									
Toluene		ND	0.050									
Ethylbenzene		ND	0.050									
Xylenes, Total		ND	0.10									
Surr: 4-Bromofluoro	obenzene	0.92		1.000		91.6	80	120				
Sample ID LCS-	-40116	SampT	Type: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles			
Client ID: LCS	S	Batcl	h ID: 40	116	F	RunNo: 5	3977					
Prep Date: 9/4/	2018	Analysis E	Date: 9/	6/2018	S	SeqNo: 1	781997	Units: mg/k	ζg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		0.90	0.025	1.000	0	89.8	77.3	128				
Toluene		0.94	0.050	1.000	0	94.1	79.2	125				
Ethylbenzene		0.93	0.050	1.000	0	92.9	80.7	127				
Xylenes, Total		2.8	0.10	3.000	0	94.6	81.6	129				
Surr: 4-Bromofluoro	benzene	0.93		1.000		92.6	80	120				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1808J09

17-Sep-18

Client:	Concho										
Project:	Stratojet 3	31 State C	om 007	Н							
Sample ID 1	808j09-006ams	Sampl	ype: MS	54	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: S	2-Surface'	Batch	n ID: 40	132	F	RunNo: 53926					
Prep Date:	9/4/2018	Analysis D	Date: 9/	6/2018	S	SeqNo: 1	781319	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.89	0.50	1.000	0	89.2	80	120			
Toluene		3.2	1.0	1.000	2.163	100	80	120			
Ethylbenzene		6.6	1.0	1.000	5.230	135	82	121			S
Xylenes, Total		25	2.0	3.000	21.36	126	80.2	120			S
Surr: 4-Bromof	luorobenzene	11		10.00		115	70	130			
Surr: Toluene-	d8	10		10.00		103	70	130			
Sample ID 1	808j09-006amsd	SampT	уре: М	SD4	Tes	tCode: E	PA Method	8260B: Vola	tiles Short	List	
Client ID: S	2-Surface'	Batch	n ID: 40	132	F	RunNo: 5	3926				
Prep Date:	9/4/2018	Analysis D	0ate: 9/	6/2018	5	SeqNo: 1	781320	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.75	0.47	0.9337	0	80.3	80	120	17.3	20	
Toluene		2.7	0.93	0.9337	2.163	57.5	80	120	15.9	20	S
Ethylbenzene		5.7	0.93	0.9337	5.230	47.3	82	121	14.8	20	S
Xylenes, Total		22	1.9	2.801	21.36	5.67	80.2	120	15.5	20	S
Surr: 4-Bromof	luorobenzene	11		9.337		115	70	130	0	0	
Surr: Toluene-	d8	9.5		9.337		102	70	130	0	0	
Sample ID Id	cs-40132	SampT	ype: LC	S4	Tes	tCode: E	PA Method	8260B: Vola	tiles Short	List	
Client ID: E	BatchQC	Batch	n ID: 40	132	F	RunNo: 5	3926				
Prep Date:	9/4/2018	Analysis D	0ate: 9/	5/2018	S	SeqNo: 1	781359	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.91	0.025	1.000	0	91.3	80	120			
Toluene		0.98	0.050	1.000	0	98.2	80	120			
Ethylbenzene		1.0	0.050	1.000	0	104	80	120			
Xylenes, Total		3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromof	luorobenzene	0.55		0.5000		111	70	130			
Surr: Toluene-	d8	0.47		0.5000		94.4	70	130			
Sample ID n	nb-40132	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8260B: Vola	tiles Short	List	
Client ID: P	BS	Batch	n ID: 40	132	F	RunNo: 5	3926				
Prep Date:	9/4/2018	Analysis D	0ate: 9/	5/2018	S	SeqNo: 1	781360	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
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- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 23 of 25

WO#:	1808J09
	17-Sep-18

Client:	Concho									
Project:	Stratojet 3	31 State Com	007H							
Sample ID mb-40132 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: PBS		Batch ID	F	RunNo: 5	3926					
Prep Date: 9/4/	2018	Analysis Date	9/5/2018	S	SeqNo: 1	781360	Units: mg/k	٢g		
Analyte		Result F	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluoro	benzene	0.60	0.5000		120	70	130			
Surr: Toluene-d8		0.48	0.5000		96.9	70	130			

Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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8J09
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Client:	Concho										
Project:	Stratojet	31 State C	om 007	Ή							
Sample ID	1808j09-003ams	SampT	Гуре: М	5	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	S1-2'	Batcl	h ID: 40	132	F	RunNo: 5	3926				
Prep Date:	9/4/2018	Analysis D	Date: 9/	/5/2018	S	SeqNo: 1	781366	Units: mg/l	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	28	4.8	23.92	1.623	108	64.7	142			
Surr: BFB		510		478.5		106	70	130			
Sample ID	1808j09-003amsd	SampT	Гуре: М	SD	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	S1-2'	Batcl	n ID: 40	132	F	RunNo: 5	3926				
Prep Date:	9/4/2018	Analysis E)ate: 9/	/5/2018	S	SeqNo: 1	781367	Units: mg/l	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	31	4.9	24.63	1.623	120	64.7	142	12.4	20	
Surr: BFB		510		492.6		104	70	130	0	0	
Sample ID	lcs-40132	SampT	Type: LC	s	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	LCSS	Batcl	h ID: 40	132	F	RunNo: 5	3926				
Prep Date:	9/4/2018	Analysis E)ate: 9/	/5/2018	S	SeqNo: 1	781407	Units: mg/l	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	25	5.0	25.00	0	99.0	70	130			
Surr: BFB		510		500.0		103	70	130			
Sample ID	mb-40132	SampT	Гуре: MI	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	PBS	Batcl	n ID: 40	132	F	RunNo: 5	3926				
Prep Date:	9/4/2018	Analysis D	Date: 9/	/5/2018	S	SeqNo: 1	781408	Units: mg/l	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	ND	5.0								
Surr: BFB		530		500.0		107	70	130			

Qualifiers:

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- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmenta Alb TEL: 505-345-397: Website: www.hu	Analysis Labor 4901 Hawkii uquerque, NM (5 FAX: 505-345- allenvironmenta	ratory ns NE 87109 San -4107 sl.com	nple Log-In Check List
Client Name: CONCHO MIDLAND	Work Order Number	: 1808J09		RcptNo: 1
Received By: Erin Melendrez	8/31/2018 8:45:00 AM		MA	.
Completed By: Michelle Garcia	8/31/2018 1:11:41 PM		Minul C	
Reviewed By:			• •	
LB: 508.31.18				
Chain of Custody				
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present
2. How was the sample delivered?		<u>Courier</u>		
Log In			_	_
3. Was an attempt made to cool the sample:	3?	Yes 🗹	No 🗌	NA
4. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No 🗌	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌	
6. Sufficient sample volume for indicated test	:(s)?	Yes 🔽	No 🗔	
7. Are samples (except VOA and ONG) prop	erly preserved?	Yes 🗹	No 🗌	
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌
9. VOA vials have zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹
10. Were any sample containers received bro	ken?	Yes └┘	No 🗹	# of preserved
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	for pH:
12. Are matrices correctly identified on Chain of	of Custody?	Yes 🗹	No 🗌	Adjusted?
13. Is it clear what analyses were requested?	·	Yes 🗹	No 🗀	5/121-1
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗆	Checked by:
Special Handling (if applicable)			L	
15. Was client notified of all discrepancies wit	h this order?	Yes 🗌	No 🗌	NA 🗹
Person Notified:	Date:			
By Whom:	via:	eMail [] F	Phone 🗌 Fax	In Person
Regarding:				
Client Instructions:				
16. Additional remarks:				
17 Cooler Information				

	Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1		2.7	Good	Yes			
2		1.9	Good	Yes			

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Soil Profile

Description	ft. bgs
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	1
Caliche (Pad)	2
	3
Brown Sand	4
	5
	6
	7
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	9
	10
	11
	12
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	16

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 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

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

)

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

Page 2

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?	
Yes No		
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?		

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name:	Title:	
Signature:	Date:	
email:	Telephone:	
OCD Only		
Received by:	Date:	

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Facility ID	
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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗌 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🗌 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🗌 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🗌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🗌 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🗌 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🗌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🗌 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🗌 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
Field data
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
Boring or excavation logs
Photographs including date and GIS information

- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141	State of New Mexico	Incident ID
Page 4	Oil Conservation Division	District RP
		Facility ID
		Application ID
I hereby certify that the info regulations all operators are public health or the environn failed to adequately investig addition, OCD acceptance o and/or regulations. Printed Name: Signature: email:	prmation given above is true and complete to the bes required to report and/or file certain release notifica ment. The acceptance of a C-141 report by the OCI gate and remediate contamination that pose a threat t of a C-141 report does not relieve the operator of res T	t of my knowledge and understand that pursuant to OCD rules and itions and perform corrective actions for releases which may endanger O does not relieve the operator of liability should their operations have o groundwater, surface water, human health or the environment. In ponsibility for compliance with any other federal, state, or local laws itle:
OCD Only Received by:		Date:

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<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Detailed description of proposed remediation technique

Incident ID	
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Remediation Plan

 Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 		
<u>Deferral Requests Only</u> : Each of the following items must be con	ifirmed as part of any request for deferral of remediation.	
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.		
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.	
Thereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.		
Printed Name:	Title:	
Signature:	Date:	
email:	Telephone:	
OCD Only		
Received by:	Date:	
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved	
Signature:	Date:	

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following it	tems must be included in the closure report.	
A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)	
Description of remediation activities		
I hereby certify that the information given above is true and complet and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the co- accordance with 19.15.29.13 NMAC including notification to the C	ete to the best of my knowledge and understand that pursuant to OCD rules in release notifications and perform corrective actions for releases which f a C-141 report by the OCD does not relieve the operator of liability mediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.	
Printed Name:	Title:	
Signature:	Date:	
email:	Telephone:	
OCD Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.		
Closure Approved by:	Date:	
Printed Name:	Title:	
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 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
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Application ID	

Release Notification

Responsible Party

Responsible Party COG Operating LLC	OGRID 229137
Contact Name Robert McNeill	Contact Telephone 432-683-7443
Contact email rmcneill@concho.com	Incident # (assigned by OCD)
Contact mailing address 600 West Illinois Avenue, Midland, TX 79701	

Location of Release Source

Latitude <u>32.52454</u>

Longitude -103.49930 (NAD 83 in decimal degrees to 5 decimal places)

Site Name Stratojet 31 State Com #007H	Site Type Wellhead
Date Release Discovered 8/4/2018	API# (if applicable) 30-025-43792

Unit Letter	Section	Township	Range	County
Ν	31	20S	35E	Lea

Surface Owner: State Federal Tribal Private (Name: _____

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) 10 Volume Recovered (bbls) 7 Produced Water Volume Released (bbls) 7 Volume Recovered (bbls) 3 Is the concentration of dissolved chloride in the Yes No produced water >10,000 mg/l? Condensate Volume Released (bbls) Volume Recovered (bbls) Natural Gas Volume Released (Mcf) Volume Recovered (Mcf) Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units) Cause of Release

Leak in union off of pump tee

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District RP	1RP-5146
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Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?	
19.15.29.7(A) NMAC?	19.15.29.7(1): Major Release is any release of a volume of 25 barrels or more	
	This release was less than 25 bbls	
🗌 Yes 🖂 No		
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?		

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \square The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Jennifer Knowlton	Title: HRL Compliance Solutions, Regional Manager
Signature:hundtm	Date:
email: jknowlton@hrlcomp.com	Telephone: <u>505-238-3588</u>
OCD Only	
Received by:	Date:

Form C-141 Page 3 State of New Mexico Oil Conservation Division

Incident ID	
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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)	
Did this release impact groundwater or surface water?		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No	
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No	
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No	
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No	
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🛛 No	

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \boxtimes Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141	State of New Mexico		Incident ID	
Page 4	Oil Conservation Division		District RP	1RP-5146
C			Facility ID	
			Application ID	
I hereby certify that the inf regulations all operators ar public health or the enviro failed to adequately invest addition, OCD acceptance and/or regulations. Printed Name: Jennifer Signature: email: jknowlton@hrlco	Tormation given above is true and complete to the re required to report and/or file certain release noti nment. The acceptance of a C-141 report by the C igate and remediate contamination that pose a thre of a C-141 report does not relieve the operator of Knowlton	best of my knowledge a fications and perform co)CD does not relieve the at to groundwater, surfa responsibility for compl Title: <u>HRL Complia</u> Date: Telephone: <u>505-2</u> ;	nd understand that purs prrective actions for rele e operator of liability sh ice water, human health liance with any other fe ance Solutions, Regio	uant to OCD rules and eases which may endanger ould their operations have or the environment. In deral, state, or local laws onal Manager
OCD Only Received by:		Date•		
		2		

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Remediation Plan

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

 \boxtimes Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation		
Deterrar Requests Omy. Lach of the following achts must be co	nji meu us puri of uny requesi for ueferrui of remedianon.	
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.		
Extents of contamination must be fully delineated.		
\boxtimes Contamination does not cause an imminent risk to human heat	th, the environment, or groundwater.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.		
Printed Name: Jennifer Knowlton	Title: HRL Compliance Solutions, Regional Manager	
Signature: Unrul fm	Date:	
email: jknowlton@hrlcomp.com	Telephone: 505-238-3588	
OCD Only		
Received by:	Date:	
Approved Approved with Attached Conditions of	f Approval Denied Deferral Approved	
Signature:	Date:	

State of New Mexico Oil Conservation Division

Incident ID	
District RP	1RP-5146
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following	items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
I hereby certify that the information given above is true and comple and regulations all operators are required to report and/or file certar may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regul restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the O	ete to the best of my knowledge and understand that pursuant to OCD rules in release notifications and perform corrective actions for releases which f a C-141 report by the OCD does not relieve the operator of liability mediate contamination that pose a threat to groundwater, surface water, C a C-141 report does not relieve the operator of responsibility for ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in DCD when reclamation and re-vegetation are complete.
Printed Name:	Title:
Signature:	_ Date:
email:	Telephone:
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible /or regulations.
Closure Approved by:	Date:
Printed Name:	Title:



P.O. Box 1708 • Artesia, NM 88211 www.hrlcomp.com

1RP-5146

SUBJECT: SOIL REMEDIATION PLAN FOR THE INCIDENT AT THE Stratojet 31 State Com 007H, LEA COUNTY, NEW MEXICO

On behalf of COG Operating, LLC, HRL Compliance Solutions, Inc (HRL) has prepared this remediation plan that describes the assessment, characterization, and proposed remediation for a release associated with the Stratojet 31 State Com 007H. The site is in Unit N, SECTION 31, TOWNSHIP 20S, RANGE 35E, NMPM, Lea County, New Mexico, on State land.

Site Assessment/Characterization

An assessment of surrounding water well information identifies over 10 water wells within a 3-mile buffer. Depth to water at this site is estimated to be greater than 100 feet at the location. This information is illustrated in Attachment A.

There are no features of concern identified within proximity of the site. There is no flowing watercourse or significant watercourse within 300 feet of this location. There is no lakebed, sinkhole, or playa lake within 200 feet for this location. This location is not within 300 feet of an occupied permanent residence, school, hospital, institution, or church. This location is not with 500 feet for a spring or domestic freshwater well. This facility is not within incorporated municipal boundaries or within a defined municipal freshwater well field. This is illustrated in Attachment B.

An assessment of wetlands and springs was performed using USGS National Water Information System and re-verified utilizing a 7.5-minute topographical map There are no wetlands with 300 feet of this location. There are no springs within 1000 feet of this location. This map is in Attachment B.

This facility is not within a 100-year floodplain as per FEMA, Flood Hazard Zone D. A portion of the FEMA map is in Attachment B.

This location is not located in an area identified in an unstable karst geology area. An area map generated with data from the USGS showing geologic units and structural features is in Attachment B.

Upon receiving clearance from the underground utility locate (811) on August 27, 2018, HRL field personnel assessed the impacted area. Samples were collected on 8/27/2018 to characterize the extent of impacts and calculate a volume of soil to be excavated for disposal with a backhoe. All samples were collected and analyzed at a National Environmental Laboratory Accreditation Program (NELAP) laboratory and in accordance with NMOCD soil sampling procedures. The samples were submitted to Hall Laboratories for analyses including chlorides by Method 300.0, volatile organics (BTEX) by Method 8021B, and MRO, DRO, and GRO by EPA Method 8015B. Sample locations are depicted in Attachment C. All laboratory results are summarized in Table 1 with raw analytical reports included in Attachment D.



Table 1: Analytical Results Summary

Stratojet 31 State Com 007H										
Sample ID	Date	Chloride mg/Kg	Benzene mg/Kg	BTEX mg/Kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	TPH mg/Kg		
C1 Curface	0/20/2010	4.500			F 2	F800	2200	0153		
SI-Surface	8/28/2018	4,500			52	5800	2300	8152		
51-1 51-2'	0/20/2010	3,400				10		10		
<u> </u>	0/20/2010	1,800	ND	ND	ND	19	ND	19		
51-5	0/20/2010	910	-	-	-	-	-	-		
S2 Surface	8/28/2018	310	ND	28.4	1100	15000	4400	20500		
S2-1'	8/28/2018	560	ND	0.72	68	1200	440	1708		
S2-2'	8/28/2018	520	ND	2.88	180	4200	1500	5880		
S3 Surface	8/28/2018	1,800	ND	ND	ND	1300	640	1940		
S3-1'	8/28/2018	1,300	ND	ND	ND	ND	ND	ND		
S3-2'	8/28/2018	600	ND	ND	ND	14	ND	14		
S4 Surface	8/28/2018	290	ND	ND	ND	15	ND	15		
S4-1'	8/28/2018	71	ND	ND	ND	ND	ND	ND		
S4-2'	8/28/2018	75	ND	ND	ND	ND	ND	ND		
S4-3'	8/28/2018	2,600	-	-	-	-	-	-		
S5 Surface	8/28/2018	320	2.5	145.5	2900	12000	3600	18500		
S5-1'	8/28/2018	2,800	ND	14	350	1100	390	1840		
S5-2'	8/28/2018	2,100	ND	0.302	120	1300	670	2090		
S5-3'	8/28/2018	2,000	-	-	-	-	-	-		
EAST	8/28/2018	99	ND	ND	ND	ND	ND	ND		
WEST	8/28/2018	900	ND	ND	ND	120	81	201		
NORTH	8/28/2018	430	ND	ND	ND	ND	ND	ND		
SOUTH	8/28/2018	66	ND	ND	ND	21	100	121		



Closure Criteria Assessment

Closure Criteria									
Depth to Ground Water	Constituent	Limit							
	Chloride	20,000 mg/kg							
>100 feet	TPH (GRO+DRO+MRO)	2,500 mg/kg							
	GRO+DRO	1,000 mg/kg							
BTEX		50 mg/kg							
	Benzene	10 mg/kg							

Remediation Plan

The areas around SP1 and SP3 will be excavated to approximately 1-foot depth. The areas around SP2 and SP5 will be excavated to an approximate depth of 2 foot or to refusal. During the delineation, progression wasn't possible beyond 2 feet at either location. The areas and excavated yardages may be adjusted during the excavation depending on field screenings. The total estimated volume of material to be removed is 407. A five-point composite sample will be collected from the bottom of each excavation area and four side wall samples will be collected from the total excavation.

Concho is requesting a deferment of some areas of soil removal. Per 19.15.29.12.C(2), if the contamination is in areas immediately under or around production equipment such as production tanks, wellheads and pipelines were remediation could cause a major facility deconstruction, the remediation may be deferred with approval until the equipment is removed.

The area of contamination is around the wellhead with known electric lines running through the contamination area. Concho will remove what contamination can be safely removed and leave some in place in protect equipment and electric lines.

Remediation is scheduled to begin within 90 days of approval of this remediation plan.

Restoration, Reclamation, and Revegetation

All impacted areas are within an active production pad. The area will be stabilized to prevent erosion.

If there are any questions regarding this report, please contact Jennifer Knowlton at 505-238-3588.

Submitted by: HRL Compliance Solutions, Inc

printy Knowltm

Jennifer Knowlton Regional Manager - Permian

Concho | Stratojet 31 State Com 007H | 10/26/2018



Attachments:

- Attachment A: NMOSE Depth to Water Map and Report
- Attachment B: Site Location Map Wetlands Map
 - Floodplain Map
 - Karst Area Map
- Attachment C: Sample Location Map
- Attachment D: Laboratory Analytical Reports



Attachment A:

NMOSE Depth to Water Map and Report





New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters) (In feet)													
POD Number	POD Sub-		C by 6	Q	Q	Soc	Twe	Png		¥	v	Distance	Depth	Depth	Water
CP 00611	CP	LE	Ly 0-	2	1	06	21S	34E	63983	7 38	3598306* 🥌	1635	118	112	6
CP 00791	CP	LE	4	- 2	4	06	21S	34E	64075	54	3597413* 🌍	2107	85	55	30
CP 01334 POD1	СР	LE	1	2	4	35	20S	34E	63840)2	3599879 🌍	2567	1253	733	520
CP 01335 POD1	CP	LE	4	- 1	4	35	20S	34E	63820)5	3599736 🌍	2746	1307	735	572
CP 00489	СР	LE				04	21S	34E	64327	74	3597749* 🌍	2922	125	95	30
CP 01204 POD1	СР	LE	3	5 1	1	25	20S	34E	63875	55	3602250 🌍	3505	370		
CP 00579	СР	LE		2	2	02	21S	33E	63743	38	3598269* 🌍	3718	125	100	25
CP 00665	СР	LE		1	4	24	20S	34E	63974	40	3603128* 🌍	3811	698	270	428
CP 00498	CP	LE		2	4	08	21S	34E	64228	37	3595932* 🌍	3823	145	120	25
CP 00803 POD1	CP	LE	3	2	2	02	21S	33E	63733	37	3598168* 🌍	3848	1100		
CP 00804 POD1	CP	LE	3	2	2	02	21S	33E	63733	37	3598168* 🌍	3848	170		
CP 01288 POD1	CP	LE	4	- 4	2	34	20S	34E	63713	34	3600204 🌍	3871	1255	758	497
CP 01290 POD1	CP	LE		3	1	02	21S	33E	63711	14	3598855 🌍	3885	1250	725	525
CP 00796 POD1	CP	LE	2	2	4	02	21S	33E	63754	18	3597564* 🌍	3913	102		
CP 01316 POD1	CP	LE	3	2	4	02	21S	33E	63743	32	3597709 🌍	3946	1370		
CP 01289 POD1	CP	LE	4	- 4	2	34	20S	34E	63703	37	3600261 🌍	3977	1222	651	571
CP 00802 POD1	CP	LE	3	3	2	02	21S	33E	63700)1	3598672 🌍	4030	1154		
CP 00797 POD1	CP	LE	1	2	4	02	21S	33E	63734	18	3597564* 🌍	4088	110		
CP 01317 POD1	СР	LE	1	3	2	02	21S	33E	63688	34	3598450 🌍	4195	1250	1025	225
CP 00799 POD1	СР	LE	4	. 3	4	34	20S	34E	63666	66	3599364* 🌍	4279	100		
CP 01352 POD1	CP	LE	3	1	4	34	20S	34E	63655	59	3599716 🦲	4388	1270	785	485

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Average Depth to Water: 474 feet Minimum Depth: 55 feet Maximum Depth: 1025 feet Record Count: 21

UTMNAD83 Radius Search (in meters):

Easting (X): 640942.98

Northing (Y): 3599511.63

Radius: 4828



Attachment B:

Site Location Map Wetlands Map Floodplain Map Karst Area Map



U.S. Fish and Wildlife Service National Wetlands Inventory

Stratojet 31 State Com #007H



September 25, 2018

Wetlands



Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake Other Riverine This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



REFERENCE LAYERS

NFHL Data Available

FIRM Panel Boundary

LOMR Boundary

SPECIAL FLOOD HAZARD AREAS

1% Annual Chance Flood Hazard Zone A, AE, A98, A O, AH, AR, K, VE

N

Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD 0.2% Annua I Chanca Flood Hazard



Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X

Area with Reduced Flood Risk due to Levee Zone \times

111 1

NO SCREEN Areas Outside the 0.2% Annual Chance Floodplain Zore X Areas of Undetermined Flood Hazard Zone D

CROSS SECTIONS & BFES

SUPPORTING INFORMATION

Limit of Study Jurisdictional Boundary

Google Earth

Imagery Date: 11/2/2017 32°31'28.44" N 103°29'57.58" W elev 3730 ft eye alt 7207 ft 🔘





Attachment C:

Sample Location Map





Attachment D:

Laboratory Analytical Reports



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

September 17, 2018

Jennifer Knowlton Concho 600 W Illinois Ave Midland, TX 79701 TEL: (505) 238-3588 FAX

OrderNo.: 1808J10

RE: Stratojet 31 State Com 007H

Dear Jennifer Knowlton:

Hall Environmental Analysis Laboratory received 4 sample(s) on 8/31/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Cooper, Brian

From:Rebecca Haskell <RHaskell@concho.com>Sent:Tuesday, January 29, 2019 2:14 PMTo:Cooper, BrianSubject:FW: Stratojet 31State Com 007H DOR 8/4/2018 1RP-5146Attachments:USGS_1mile.pdf

Becky Haskell Senior HSE Coordinator COG Operating LLC 600 W Illinois Avenue | Midland, TX 79701 Direct: 432-818-2372 | Main: 432.683.7443 Cell: 432-556-5130 rhaskell@concho.com



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From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]
Sent: Tuesday, November 06, 2018 10:00 AM
To: Jennifer Knowlton <jknowlton@hrlcomp.com>; Mann, Ryan <rmann@slo.state.nm.us>; Hernandez, Christina, EMNRD <Christina.Hernandez@state.nm.us>
Cc: Ike Tavarez <itavarez@concho.com>; Rebecca Haskell <RHaskell@concho.com>; Dakota Neel <DNeel2@concho.com>; Sheldon Hitchcock
<SLHitchcock@concho.com>; DeAnn Grant <agrant@concho.com>
Subject: [External] RE: Stratojet 31State Com 007H DOR 8/4/2018 1RP-5146

**** External email. Use caution. **** Good morning Ms. Knowlton/Haskell: Please be advised that while the Responsible Operator may have met NMOCD requirements as per 19.15.29 NMAC, NMOCD is not a land agency. NMSLO's conditions of approval are concurrent with NMOCD's. One agency's regulations do not dominate another. In fact, per 19.15.29.13E, NMSLO's restoration, reclamation, and revegetation requirements supersede NMOCD. NMOCD requirements pertain to remediation.

Also, please note that

- 1. The Responsible Operator must sign the C-141 form, not an agent.
- 2. There are two USGS wells within a 1 mile radius, indicating depth to groundwater between 51 and 100 ft. bgs. Release characterization for TPH extended and GRO & MRO fraction is not complete.
- 3. According to the Sample Location Map, Sample location 2 seems to be approximately 50 ft. NW from the wellhead, which may not be considered "immediately around production equipment..."
- 4. NMOCD is in concurrence with NMSLO with additional delineation necessary at Sample locations 2 & 5 for 1RP-5146.

Olivia

From: Jennifer Knowlton <<u>iknowlton@hrlcomp.com</u>>
Sent: Monday, November 5, 2018 1:20 PM
To: Mann, Ryan <<u>rmann@slo.state.nm.us</u>>; Yu, Olivia, EMNRD <<u>Olivia.Yu@state.nm.us</u>>; Hernandez, Christina, EMNRD <<u>Christina.Hernandez@state.nm.us</u>>;
Cc: <u>itavarez@concho.com</u>; <u>rhaskell@concho.com</u>; Dakota Neel <<u>DNeel2@concho.com</u>>; Sheldon Hitchcock <<u>SLHitchcock@concho.com</u>>; DeAnn Grant
<<u>agrant@concho.com</u>>;

Subject: [EXT] RE: Stratojet 31State Com 007H DOR 8/4/2018 1RP-5146

Mr. Mann,

The remediation activities occurred on pad as the spill did not impact any off pad. Delineation to NMAC 19.15.29 Table 1 standards is required in NMAC 19.15.29.A(5)(b). Electric lines and equipment proximity prevented further depths being safely reached.

As stated in the remediation plan, Concho is requesting a deferment of some areas of soil removal. Per 19.15.29.12.C(2), if the contamination is in areas immediately under or around production equipment such as production tanks, wellheads and pipelines were remediation could cause a major facility deconstruction, the remediation may be deferred with approval until the equipment is removed. The area of contamination is around the wellhead with known electric lines running through the contamination area. Concho will remove what contamination can be safely removed and leave some in place. This includes the areas around SP2 (proximity to electric lines) and SP5 (proximity to wellhead equipment).

Jennifer Knowlton, PE | Regional Manager-Permian

HRL Compliance Solutions, Inc.112 S. 6th Street | Artesia, NM 88210main 575.616.7398 Ex. 414 | mobile 505-238-3588Web | vCard | Map | \Box | \Box



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From: Mann, Ryan <rmann@slo.state.nm.us>
Sent: Monday, November 05, 2018 10:21 AM
To: Jennifer Knowlton <jknowlton@hrlcomp.com
; 'Yu, Olivia, EMNRD' <<u>Olivia.Yu@state.nm.us</u>>; 'Hernandez, Christina, EMNRD'
<<u>Christina.Hernandez@state.nm.us</u>>
Cc: itavarez@concho.com; rhaskell@concho.com; Dakota Neel <<u>DNeel2@concho.com</u>>; Sheldon Hitchcock <<u>SLHitchcock@concho.com</u>>; DeAnn Grant
<agrant@concho.com>
Subject: DE: Strateigt 21State Com 007U DOB 8/4/2018 1DD E146

Subject: RE: Stratojet 31State Com 007H DOR 8/4/2018 1RP-5146

Ms. Knowlton,

Delineation isn't completed at the site, therefore deferral is denied. Is the refusal the reason for incomplete delineation? The remediation plan is also denied, the area around SP-2 and SP-5 will require additional investigation to characterize. What is the area that is proposed for deferred? NMOCD may have additional questions or concerns. Let me know if you have any questions.

Ryan Mann Remediation Specialist Field Operation Division (575) 392-3697 (505) 699-1989 New Mexico State Land Office 2827 N. Dal Paso Suite 117 Hobbs, NM 88240

From: Jennifer Knowlton [mailto:jknowlton@hrlcomp.com] Sent: Friday, October 26, 2018 2:04 PM

To: 'Yu, Olivia, EMNRD' <<u>Olivia.Yu@state.nm.us</u>>; Mann, Ryan <<u>rmann@slo.state.nm.us</u>>; 'Hernandez, Christina, EMNRD' <<u>Christina.Hernandez@state.nm.us</u>>; Cc: <u>itavarez@concho.com</u>; <u>rhaskell@concho.com</u>; Dakota Neel <<u>DNeel2@concho.com</u>>; Sheldon Hitchcock <<u>SLHitchcock@concho.com</u>>; DeAnn Grant

Subject: Stratojet 31State Com 007H DOR 8/4/2018 1RP-5146

Ms. Yu/Mr. Mann,

On behalf of COG Operating, I am submitting a remediation plan for the Stratojet 31 State Com 007H. If you have any questions, please feel free to contact me.

Thanks,

Jennifer Knowlton, PE | Regional Manager-Permian

HRL Compliance Solutions, Inc. 112 S. 6th Street | Artesia, NM 88210 main 575.616.7398 Ex. 414 | mobile 505-238-3588 <u>Web</u> | <u>vCard</u> | <u>Map</u> | _ | _

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