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

6

 \mathbf{p}

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Dugan Production Corp.	OGRID 006515
Contact Name Kevin Smaka	Contact Telephone 505-325-1821 x 1049
Contact email kevin.smaka@duganproduction.com	Incident # (assigned by OCD) NCS 1828930229
Contact mailing address P.O. Box 420, Farmington, NM 87499	

Location of Release Source

Latitude <u>36.33985</u>

(NAD 83 in decimal degrees to 5 decimal places)

S	ite Name Arviso #1	Site Type gas well
D	Date Release Discovered	API# (if applicable) 30-045-33943

Ľ	Unit Letter	Section	Township	Range	County
	L	5	24N	8W	San Juan

Surface Owner: State K Federal Tribal Private (Name:

Nature and Volume of Release

Mat	erial(s) Released (Select all that apply and attach calculations or spec	cific 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		
		NAVADOCID
		Juni 2 8 2009
55		
		DISTRICT III

Form C-141 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	·
If YES, was immediate no	otice 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 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:

The source of the release has been stopped.

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: <u>Kevin Smaka</u>	Title: <u>Regulatory Engineer</u>
Signature:	Date:
email: <u>kevin.smaka@duganproduction.com</u>	Telephone: <u>505-325-1821 x1049</u>
OCD Only	
Received by:	Date:

Forth C-141 Page 3

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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
	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
	Photographs including date and GIS information
\Box	Topographic/Aerial maps
\Box	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	
Page 4		Incident ID
Page 4	Oil Conservation Division	District RP
		Facility ID
		Application ID
public health or the environme failed to adequately investigat addition, OCD acceptance of a and/or regulations. Printed Name: Signature:	ent. The acceptance of a C-141 report by the OCD does te and remediate contamination that pose a threat to grou a C-141 report does not relieve the operator of responsib 	and perform corrective actions for releases which may endanger not relieve the operator of liability should their operations have ndwater, surface water, human health or the environment. In ility for compliance with any other federal, state, or local laws
OCD Only Received by:		Date:

Form C-141 Page 5

-

State of New Mexico Oil Conservation Division

Incident I	D	
District R	P	
Facility II)	
Applicatio	on ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must	be included in the plan.
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation poin Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29 Proposed schedule for remediation (note if remediation plan times) 	.12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be co	infirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around p deconstruction.	production equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human healt	th, the environment, or groundwater.
rules and regulations all operators are required to report and/or file	acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved
Signature:	Date:

Form C-141 Page 6

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 items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

A 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 ODC 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 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Kevin Smaka	
Signature: Klob Smith	Date: 6-27-19
email:	Telephone: 325 - 1821
	Else et Gran
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsi	ale party of liability should their operations have failed to adoptately investigate

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: 7/22/19
Printed Name: Tory	Title: ENULDENMENTAL SPEC

Spill Closure Report

Arviso #1

API # 30-045-33943

Dugan Production was notified of a potential spill located at Dugan's Arviso #1 on 9/28/18. After consulting with field personnel it was determined that a reportable spill had occurred. The spilled fluid was produced water that was caused by the corrosion of a nipple on the pumping T.

To remediate the site Dugan applied 800 lbs of gypsum pearls to the affected area on the well pad and in the nearby wash. After waiting for precipitation to aid in the remedial process, fresh water was also applied to the spill site to aid in the cleanup.

After remedial activities were finished the site was sampled on 10/29/18. 4 samples were collected, 1 on the well pad, 2 in the wash area as well as 1 away from the site to check for background chlorides. These samples came back hot all with a chloride level above 2000 mg/L.

Dugan applied another 500 lbs of gypsum as well as fresh water to further remove contaminants from the soil. Samples were collected on 12/7/18. Results indicated that samples collected in the wash had reached an acceptable limit of roughly 350 mg/L. The contaminated area on the well pad was still reading above 2000 mg/L.

Another 200 lbs of gypsum was applied this spring. No fresh water was applied due to the rains that fell on the area. Sampling was again conducted on 6/7/2019. In this case all samples came back below 600 mg/L. At this point the spill was considered remediated and Dugan resumed normal operations at the well pad.

	Active & Inactive Points of Diversion
	(with Ownership Information)
	No PODs found.
POD Search:	
PLSS Search:	
-6	Township: 24N Range: ORW













Analytical Report

Report Summary

Client: Dugan Production Corp.

Samples Received: 6/6/2019 Job Number: 06094-0177 Work Order: P906023 Project Name/Location: Arviso #1

Report Reviewed By:

Walter Hinden

Date: 6/10/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise. Statement of Data Authenticky: Envirotech, Inc, attests the data reported has not been attered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

5795 lüginmy 64, Farmington, 104 57481

24 Hest Emergency Response Phone (698) 362-1879

Ph (505) 432-6418 Fit (565) 632-1865

ervistech incrum

Labordman@envastech-loc.com

Page 1 of 8



Farmington NM, 87499	Project Manager Analyical Repor	Mike Sandoval	06/10/19 16 08
Dugan Production Corp PO Box 420	Project Name Project Number	Aiviso #1 06094-0177	Reported:

Client Sample ID Lab Sample ID Matrix Sampled Received Container Arviso #1 P906023-01A Soil 06/06/19 06/06/19 Glass Jar, 4 oz. Arviso #1 P906023-02A Soil 06/06/19 06/06/19 Glass Jar, 4 oz. Arviso #1 06/06/19 P906023-03A Soil 06/06/19 Glass Jar, 4 oz.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 Highway	64, Farmington, 194 87481	

24 Hour Emergency Response Fluine (688) 362-1879

Ph (505) 432-0015 Fx (505) 432-1665

envirotecth-inc.com Labaldrien@envirotecth-inc.com Page 2 of 8



Dugan Production Corp. PO Box 420 Farmington NM, 87499	-	Name: Number Manager		so #i 4-0177 : Sandoval				Reported: 06/10/19 16 (08
			rviso #1 23-01 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A			_						
Chloride	ND	20.0	mg/kg	I	1923030	06/07/19	06/10/19	EPA 300.0/9056A	

Background Sample

\$796 Highway 64, Farmington, IH4 87481	Pis (545) 832-8415 Piz (385) 432-1845	enviroter franciscom
24 Hour Emergency Response Phone (800) 382-1879		Labadina Stranductions com
		Page 3 of 8



Dugan Production Corp PO Box 420 Farmington NM, 87499		Name Number Manager		so #1 4-0177 : Sandoval	····			Reported: 06/10/19 16 (08
			rviso #1 23-02 (So						
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions hy 300.0/9056A									
Chloride	ND	20 0	αgΛg	L	1923030	06/07/19	06/10/19	EPA 300.0/9056A	

Background Sample Off location

5795 ilighway 64, Farmington, KH 67491	Ph (305) 832-0815 Px (305) 632-1865	condition to increase
24 Hour Emergency Response Phone (640) 343-; 875		Labideon S envirotectione com
		Page 4 of 8



Dugan Production Corp PO Box 420 Farmington NM, 87499	Project N Project N Project N	lumber		so#1 4-0177 : Sandoval				Reported: 06/10/19 16 (
····			rviso #1 23-03 (Sc					<u> </u>	
		Reporting							
Analyte	Result	Limit	Unita	Dilution	Batch	Prepared	Analyzed	Method	Notes
nions hy 300,0/9056A									
Thloride	448	20 0	mg/kg	I	1923030	06/07/19	Q6/10/19	EPA 300.0/9056A	

From Sample Area #1

8798 Highway 64, Farmington, HM 87401	Ph (500) 632-0615 Fz (568) 632-1665	Christian com-
24 Hour Energency Response Phone (690) 342-1879		abornin@enviotedi.inc.com
		Page 5 of 8



Dugan Production Corp	Proje	ect Name	A	rviso #1						
PO Box 420	Proje	ect Number	0	6094-0177					Report	ed:
Farmington NM, 87499	Proje	cci Manager	N	like Sandoval					06/10/19	
	Anio	ns by 300.()/9056A	- Quality	Control					
	En	virotech A	Lnalyti	cal Labor	atory					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1923030 - Anion Extraction EPA Blank (1923030-BLK1)	300.0/9056A			Prepared 0	6/07/19 0 /	Analyzed 0	6/10/19 1	<u> </u>		
Thlande	ND	20 0	mg/kii	· · · · ·				_		
LCS (1923030-BS1)				Prepared 0	6/07/19 0 /	\nalyzed: 0	6/10/19 1			
Chloride	254	20 0	mg/kg	253		102	90-110			
Matrix Spike (1923030-MSI)	Sour	ce: P906020-	01	Prepared 0	6/07/19 0 /	Analyzed: 0	6/10/19 1			
Chloride +	1320	20 0	mg/ke	250	1088	98.L	80-120			
Matrix Spike Dup (1923030-MSD1)	Sour	te: P906020-	01	Prepared 0	6/07/19 0 /	Analyzed: 0	6/10/19 1			

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

5788 Highway 84, Fernington, 114 87481	Ph (593) 432-4415 Fz (583) 632-1865	devictors increan
24 Hour Emergency Response Phone (808) 342-3879		Labsidmin@envirotech-linc.com
		Page 6 of 8



Dugan Production Corp.	Project Name	Arviso #1	
PO Box 420	Project Number	06094-0177	Reported:
Farmington NM, 87499	Project Manager	Mike Sandovat	06/10/19 16 08

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

5796 Highway 64, Farmington, 814 57401	Ph (189) 432-6615 Px (309) 432-1665	envirolitichene ermit
24 Hour Emergency Response Phone (800) 302-3879		Laborent@enviolech-lpc.com
		Page 7 of 8

Chain of Custody Chain of Custody Chain of Custody Chain of Custody Custod - Ext Report Attention: Lab Use Offy Do World - Di Discontration Custod - Ext Report Attention: Lab Use Offy Do World + Discontration Custod - Ext Report Attention: Lab Use Offy Do World + Discontration Custod - Ext Report Attention: Lab Use Offy Do World + Discontration Custod - Ext Report Attention: Lab Use Offy Do World + Discontration Custod - Ext Report Attention: Lab Use Offy Do World + Discontration Report Attention: Report Attention: Lab Use Offy Do World + Discontration Report Attention: Report Attention Report Attention Lab Use Offy Report Attention: Report Attention Report Attention Lab Use Offy Report Attention: Report Attention Report Attention Lab Use Offy Report Attention: Report Attention Report Attention Lab Use Offy Report Attention: Report Attention Report Attention Lab Use Offy Report Attention: Report Attention Report Attention Lab Use Offy Report Attention: Report Attention Report Attention Lab Use Office Office Office Office Office Office O	Page / of /	RCRA CWA SDWA			NM CO UT AZ		Remarks								d an its the day they are sumpled or an 6°C on subsequent days.		E -	DA	r the analysis of the above	en der der der der der der der
Chain of Custody Chain of Custody Attention: Attention Attention: Attentio		10 30	06094-0177	alysis and Method		D.00E	Chloride								ngka nagiing themal procession musike nec ris Jiwal padad in its at an argitang akewa B kat lasi th		۲ŋ	Ny/plastic, ag - amber glass, v - V	d of at the client expense. The report for more	205 627 0615 Fr \$05]612-1205 205 627 0615 Fr \$05]612-1205
	-	- E.,		Ā		8037 0 P ^A 8	атех 6у вяо/оло ио/оло вяо/оло		2	3					A dute of	619 Bist	, Three	ntainer Type: g - glass, p - po	vill be returned to client or dispose and to the amount cold for no the p	1415 Decision (0.0110)
	Chain of Custo	tue by:			te, Zip		2								١Ň	ORD	\sim	8	ments are made. Hazardous samples v	יייייי איז איז איז איז איז איז איז איז א
Information				Address		Email:	Sample ID	ARVISO#1)	1						 -6-5 12.30	न्यम	- Aqueous, 0 - Other	its are recorded unless other arrange	SCh antony
Project 1 Client: Client: Cli	nformation	1 202 71	Manager: M.KC	Address:	City, State, Zip		Date Matrix Sampled	1 10:30 6-6-19 1	2 4.9-9 04.01					Additional Instructions:	wier), which to the which y and authout th	Freddel	fielinquished by: (Signature) Data	atrix: S - Soli, Sd - Solid, Sg - Siudge, J	ables are discarded 30 davs after res.	envirtote Analytical Lab

Page 8 of 8



Analytical Report

Report Summary

Client: Dugan Production Corp. Chain Of Custody Number: Samples Received: 12/14/2018 4:18:00PM Job Number: 06094-0177 Work Order: P812032 Project Name/Location: Arviso #1

Walter Hindun

Date: 12/19/18

Report Reviewed By:

Walter Hinchman, Laboratory Director

14

Tim Cain, Project Manager

Date: 12/19/18



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise. Statement of Data Authenticity: Envirotech, inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, inc. Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

5796 US Highway 64, Farmington, NM 87401 Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301 Ph (505) 632-0615 Fx (505) 632 1865 Ph (970) 259-0615 Fr (800) 362-1879



Page 1 of 11



PO Box 420 Project Number 06094-0177 Reparted: Farmington NM, 87499 Project Manager Mike Sandoval 12/19/18 10 29	Dugan Production Corp	Project Name	Arviso #1	·
Farmington NM, 87499 Project Manager Mike Sandoval 12/19/18 10 29	PO Box 420	Project Number	06094-0177	Reported;
	Farmington NM, 87499	Project Manager	Mike Sandoval	12/19/18 10 29

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Arviso #1 - 1	P812032-01A	Soil	12/14/18	12/14/18	Glass Jar, 4 oz.
Arviso #1 - 2	P812032-02A	Soil	12/14/18	12/14/18	Glass Jar, 4 oz.
Arviso #1 - 3	P812032-03A	Soil	12/14/18	12/14/18	Glass Jar, 4 oz.

5796 US Highway 64, Farmington, NM 87401	Ph (505) 632-0615	Fx (505) 632-1865	immittech inceam
Three Springs - 65 Mercado Street, Suite 115, Durango, CD 81301	Ph (970) 259-0615	Fr (800) 362-1879	Differenting gewondertinger com
			Page 2 of 11



Dugan Production Corp	Projec	t Name	Arvis	io #1					
PO Box 420	Project	1 Number	0609	4-0177				Reported:	
Farmington NM, 87499	Project	t Manager	Mike	Sandoval				12/19/18 10	
		Ån	viso #1 -	1					
		P8120	<u>32-01 (Sc</u>	lid)					
		Reparting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021								00	
Benzene	ND	100	ug/kg	1	1851002	12/17/18	12/17/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1851002	12/17/18	12/17/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	L	1851002	12/17/18	12/17/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1851002	12/17/18	12/17/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1851002	12/17/18	12/17/18	EPA BO21B	
Total Xylenes	ND	100	ug/kg	I	1851002	12/17/18	12/17/18	EPA 6021B	
Total BTEX	ND	100	ug/kg	L	1851002	12/17/18	12/17/18	EPA 8021B	
Surrogate 4-Bromochlarobenzene-PID		98.0 %	50	150	1851002	12/17/18	12/17/18	EPA 80218	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1851002	12/17/18	12/17/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25 0	mg/kg	1	1851004	12/17/18	12/10/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1851004	12/17/18	12/10/18	EPA 8015D	
Surrogote 1-Chloro-1-fluoroberzene-FID		101 %	50	-150	1851002	12/17/18	12/17/18	EPA 8015D	_
Surrogate n-Nonane		916%	50	-200	1851004	12/17/18	12/18/18	EPA 8015D	
Anions by 300.0/9056A									

Chloride 375 20.0 mg/kg I 1851001 12/17/18 12/17/18 ЕРА 300.0/9056A

From Sample Area #2

5796 US Highway 64, Farmington, NM 87401	Ph (505) 632-0615	Fx (505) 632-1865	consteel accom-
Three Springs - 65 Mercado Street, Suite 135, Durango, CD 81301	Ph (970) 259-0615	Fr (800) 362-1879	Listen pressed where the
			Page 3 of



Dugan Production Corp	Projec	Project Name		so #1					
PO Box 420	Ргојес	t Number	0609	4-0177				Reported:	
Farmington NM, 87499	Project	t Manager	Mike	: Sandoval				12/19/18 10:	29
		Ar	viso #1 -	2					
		P8120	32-02 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Diluban	Batch	Prepared	Analyzed	Method	Note
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1851002	12/17/18	12/17/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1851002	12/17/18	12/17/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1851002	12/17/18	12/17/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1851002	12/17/18	12/17/18	EPA 80218	
o-Xylene	ND	100	ug/kg	1	1851002	12/17/18	12/17/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1851002	12/17/18	12/17/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1851002	12/17/18	12/17/18	EPA 8021B	
Surrogate 4-Bromochlorobenzene-PID		98 2 %	50	-150	1851002	12/17/18	12/17/18	EFA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6+C10)	ND	20.0	mg/kg	1	1851002	12/17/18	12/17/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25 0	mg/kg	1	1851004	12/17/18	12/18/18	EPA 4015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1851004	12/17/18	12/18/18	EPA MISD	
Surrogate 1-Chloro-4-fluorobenzene-FID		102 %	50	-150	1851002	12/17/18	12/17/18	EI'A BOISD	
Surrogate n-Nonane	_	946%	50	-200	1851004	12/17/18	12/14/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	296	20 0	mg/kg	ŀ	1851001	12/17/18	12/17/18	EPA 300.0/9056A	

From Sample Area #3

5796 US Highway 64, Farmington, NM 87401	Ph (505) 632-0615 Fx (505) 632-1865	Guarated - art run
Three Springs - 65 Mercado Street, Suite 115, Durango, CD 81301	Ph (970) 259-0615 Fr (800) 362-1879	Caborolanage material and cacing
		Page 4 of 11



Dugan Production Corp	Proje	ct Name	me Arviso #1						
PO Box 420	Ргојс	ct Number	06094	1-0177				Reported:	
Farmington NM, 87499	Proje	et Manager	Mike Sandoval					12/19/18 10	
			viso #1 - :	3					
_			32-03 (So						
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Volatile Organics by EPA 8021			-						
Benzene	ND	100	ug/kg	1	1851002	12/17/18	12/17/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1851002	12/17/18	12/17/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1851002	12/17/18	12/17/18	EPA 80218	
p,m-Xylene	ND	200	ug/k <u>c</u>	1	1851002	12/17/18	12/17/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1851002	12/17/18	12/17/18	EPA 80218	
Total Xytenes	ND	100	ug/kg	1	1851002	12/17/18	12/17/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1851002	12/17/18	12/17/18	EFA 8021B	
Surrogate 4-Bromochlorobenzene-PID		98.3 %	50-	150	1851002	12/17/18	12/17/18	EPA 80218	
Nanhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1851002	12/17/18	12/37/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1851004	12/17/18	12/18/18	EPA BO15D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	I.	1851004	12/17/18	12/18/18	EPA BOISD	
Surragate 1-Chloro-4-fluorobenzene-FID		103 %	50-	150	1851002	12/17/18	12/17/18	El% 80/5D	
Surrogate n-Nanane		103 %	50-	200	1851004	12/17/18	12/14/18	EPA 8015D	
Anions by 300.0/9056A						_			
Chloride	2040	20.0	ma/kg	1	[85100]	12/17/18	12/17/18	EPA	

Chloride 2040 20.0 mg/kg l 1851001 12/17/18 12/17/18 EPA 300.0/9056A

From Sample Areq #1

5796 US Highway 64, Farmington, NM 87401	Ph (505) 632-0615	Fx (505) 632-1865	sanificture to a com-
Three Springs - 65 Mercado Street, Suite 115, Durango, CD 81201	Ph (970) 259-0615	fr (800) 362-1879	Aberatory a chyratech incaent.
			Page 5 of 11



Dugan Production Corp		ect Name:	A	rviso #1				·		
PO Box 420	Project Number 06094-0177					Reported:				
Farmington NM, 87499	Ргој	ect Manager		like Sandoval	l				12/19/18	10 29
	Volatile	Organics b	y EPA 8	021 - Qua	lity Cont	rol				
	Er	virotech /	Analyti	cal Labor	atory					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	TiREC Limita	RPD	RPD Lumu	Notes
Batch 1851002 - Purge and Trap EPA 503	DA									
Blank (1851002-BLK1)				Prepared 1	12/17/18 O A	alvzed i	2/17/18 1			
Benzene	ND	100	ug/kg						-	
Teluene	ND	100								
Ethylbenzene	ND	100	-							
p,m-Xylene	ND	200	•							
o-Xylene	ND	100	•							
Total Xylenes	ND	100	•							
Total BTEX	ND	100	•							
Surrogate +Bromochlorobenzene-PID	7880			8000		98.5	50-150			
LCS (1851002-B51)				Prepared 1	12/17/18 0 /	\nalyzed	2/17/18 1			
Benzene	5000	100	ug/kg	5000		100	70-130			
Toluene	5030	100		5000		101	70-130			
Ethylbenzene	5070	100	•	5000		101	70-130			
p,m-Xylene	10400	200		10000		104	70-130			
o-Xylene	5060	100	•	5000		101	70-130			
Total Xylenes	15500	100	٠	15000		103	70-130			
Surrogate 4-Bramachlarabenzene-PID	7860		*	8000		98 J	50-150			
Matrix Spike (1851002-MS1)	Sou	rce: P812030-	10	Prepared	12/17/18 0 /	Analyzed.	2/17/18 2			
Benzene	4590	100	ug/kg	5000	ND	91.8	54,3-133			
Toluene	4600	100		5000	ND	92.0	61.4-130			
Ethylbenzene	4630	100		5000	ND	92 6	61.4-133			
p,m-Xylene	9470	200	-	10000	ND	94.7	63.3-131			
o-Xylene	4590	100	•	5000	ND	91.8	63.3-131			
Total Xylenes	14100	100		15000	ND	93.8	63.3-131			
Surrogate 4-Bromochlarobenzene-PID	7900		•	8000		98.7	50-150			
Matrix Spike Dup (1851002-MISDI)	Sou	rce: P812030-	91	Prepared	12/17/180/	Analyzed:	2/18/18 1			
Benzene	4990	100	ug/kg	5000	ND	99.8	\$4.3-133	8.32	20	
Toluene	5030	100	-	5000	ND	101	61.4-130	8 93	20	
Ethylbenzene	5090	100	ж	5000	ND	102	61.4-133	9,52	20	
p,m-Xylene	10400	200	•	10000	ND	104	63.3-131	9 63	20	
o-Xylene	5030	100		5000	ND	101	63.3+131	918	20	
Total Xylenes	15500	100		15000	ND	103	63.3-131	9.49	20	
Surrogate 4-Bromochlorobenzene-PID	7780			8000		97.2	50-150			

5796 US Highway 64, Farmlagton, NM 87401	Ph (505) 632-0615 Fx (505) 632-1865	invertisch aug romit
Three Springs • 65 Mercado Street, Suite 115, Durango, CD 81301	Ph (970) 259-0615 Fr (800) 362-1879	Table and parametering were
		Page 6 of 11



Dugan Production Corp	Proje	ci Name	A	rviso #1								
PO Box 420	Proje	ct Number	06	i 0 94-0177					Report	ed:		
Farmington NM, 87499	Proje	ct Manager	М	ike Sandoval	ndoval					12/19/18 10 29		
	Nonhaloge	nated Org	anics by	8015 - Qi	uality Co	atrol						
	En	virotech A	Analytic	cal Labor	atory							
<u> </u>		Reporting		Spike	Source		%REC		RPD			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	1. lunit	Notes		
Batch 1851002 - Purge and Trap EPA 50	130A											
Blank (1851002-BLK1)				Prepared	12/17/18 0 /	Analyzed:	12/17/18 1					
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	• • •						_		
Surrogaie 1-Chloro-4-fluorabenzene-FID	8.06		64	8.00		101	50-130					
LCS (1851002-BS2)				Prepared	12/17/18 07	Analyzed:	12/17/18 1					
Gasoline Range Organics (C6-C10)	45,4	20.0	mg/kg	50.0		90.9	70-130	-				
Surrogate 1-Chloro-4-fluorobenzene-F11)	8 29		•	8.00		101	50-150					
Matrix Spike (1851002-MS2)	Sour	ce: P8 12030-	-01	Prepared	12/17/18 07	Analyzed	12/17/18 2					
Gasoline Range Organica (C6-C10)	48.3	20 0	mg/kg	50 0	ND	96.5	70-130					
Surrogate 1-Chloro-1-fluorobenzene-FID	R. 18		-	8,00		102	50-150					
Matrix Spike Dup (1851002-MISD2)	Sour	ce: P812030-	-01	Prepared	12/17/18 07	Analyzed.	12/17/18 2					
Gatoline Range Organics (C6-C10)	48.4	20 0	mg/kg	50.0	ND	96.9	70-130	0 347	20			
Surragate I-Chlaro-4-fluorobenzene-FID	8.31			8.00		104	50-150	· ·				

5796 US Highway 64, Farmington, NM 87401	Ph (505) 632-0615 Fx (505) 632 1865	Cavingdeds inc. room
Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301	Ph (970) 259-0615 Fr (800) 362 1879	List at any ensymption of the network
		Page 7 of 11



Dugan Production Corp		Proj	ect Name	۸	rviso #1							
PO Box 420		Ртој	ject Number	0	6094-0177					Report	ed:	
Farmington NM, 87499 Project Man				Mike Sandoval						12/19/18 10 29		
		Nonhalog	enated Org	anics by	8015 - Q	uality Co	ntrol					
		Er	virotech A	Analyti	cal Labo	ratory						
Analyte		Result	Reporting Limit	Uniu	Spike Level	Source Result	%REC	%REC Lunius	RPD	RPD Limit	Notes	
Batch 1851004 - DRO Extraction EP	A 3570											
Blank (1851004-BLK1)					Prepared	12/17/18 1 /	Analyzed	12/18/18 0				
Diesel Range Organics (C10-C28)		ND	25.0	mg/kg								
Oil Range Organics (C28-C40+)		ND	50.0	-								
Surrogate n-Nonane		46.7	-		50.0		93.4	\$0-200				
LCS (1851004-BS1)	25				Prepared	12/17/18 1 /	Analyzed	12/18/18 0				
Diesel Range Organics (C10-C28)		460	25.0	mg/kg	500		92.0	38-132				
Surrogate n-Nonane	39	46.7		•	50 0		93 4	50-200				
Matrix Spike (1851004-MS1)		Sou	rce: P812030-	01	Prepared	12/17/18 1 /	Analyzed	12/18/18 0				
Diesel Range Organics (C10-C28)		582	25,0	mg/kg	500	96.7	97 0	38-132			_	
Surrogate n-Nonane	10	48.6		40	50.0		97 2	50-200				
Matrix Spike Dup (1851004-MSDI)		Sou	rce: P812030-	01	Prepared	12/17/18 1 /	Analyzed	12/18/18 0				
Diesel Range Organics (C10-C28)		628	25 0	mg/kg	500	96,7	106	38-132	7 66	20		
Surrogate n-Nonane		48.2		•	\$0,0		96.5	\$0-200				

5796 US Highway 64, Farmington, NM 87401	Ph (505) 632-0615	Fx (505) 632-1865	systematech and some
Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301	Ph (970) 259-0615	Fr (800) 362-1879	Reprinted for the second second second
			Page 8 of 11



Dugan Production Corp.	Projec	t Name:	A	rviso #L						
PO Box 420	Proje	t Number:	0	5094-0177					Report	ed:
Farmington NM, 87499	Projec	t Manager:	N	like Sandoval					12/19/18	
	Anion	s by 300.0)/9056A	- Quality	Control					
	Env	irotech A	Lnalyti	cal Labor	atory					
		Reporting		Spike	Source		%REC		RFD	
Analyte	Result	Limit	Units	Level	Repult	%REC	Limits	RPD	Limit	Notes
llank (1851001-BLK1)				Drammed 6	Analusad	12/17/18 1				
Batch 1851001 - Anion Extraction EPA :	00.0/7030/					_				
				Ticparcu o	Trinaly 260	14/1//10 1				
Thloride	ND	20.0	mg/kg	rieparcu o	. Analyzeu	141/1101				
Naride .CS (1851001-BS1)	ND	20.0	mg/kg		Analyzed					
	ND 236	20.0	mg/kg mg/kg				90-110			
_CS (1851001-BS1)	256		mg/kg	Prepared & 250			90-110	<u></u> .		
.CS (1851001-BS1) Noride	256	20 0	mg/kg	Prepared & 250	: Analyzed		90-110 80-120			
.CS (1851001-BS1) Noride Natrix Spike (1851001-MS1)	256 Sourc 316	20 6 e: F812024 -	mg/kg D1 mg/kg	Prepared & 250 Prepared & 250	Analyzed	12/17/18 102 12/17/18 94.8				

5796 US Highway 64, Farmington, NM 87401	Ph (505) 632-0615	Fx (\$05) 632 1865	esteraterelt-ser room
Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301	Ph (970) 259-0615	Fr (800) 362-1879	Laboratory ar invisiente outroan
			Page 9 of 11



Dugan Production Corp	Project Name	Arviso #1	
PO Box 420	Project Number	06094-0177	Reported:
Farmington NM, 87499	Project Manager	Mike Sandoval	12/19/18 10 29

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the ceporting limit
NR	Not Reported
RPD	Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 US Highway 64, Farmington, NM 87401	Ph (505) 632-0615 Fx (505) 632-1865	CHARLONCH ADD TO HE
Three Springs - 65 Mercado Street, Suite 115, Durango, CD 81301	Ph (970) 259-0615 Fr (800) 362-1879	Adventory generated our cosm.

Page 10 of 11

Page of	EPA Program	RCRA CWA SDW	State				Remarks								Ranging negating thermal preservation must be received as ion the day they are sampled as received packed in its at an ang terms above 0 but here than 6°C on subsequent days.	Lab Use Only	E	lass, v - VOA	te report for the analysis of the above	
	T	- 0b Number 10 30	Analysis and Method		0.00	e əpi 09 भ	VOC I	×		1				 -001pr	Lamples inquising thermal preservation of received pecked in its at an any temp also	Lab Rereived on ice	513	Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA	sposed of at the client expense. Th the report.	
	- 1	Eab WO#		┝	057 9Å 8072 \$108 Å9	ORO	ਂ ਹਖ਼ਹ\ ਓ	XXX	2	3 1 1				 1211011	potation, diget or	E Time	Time	ntainer Type: g - glass, p	48 be returned to client or di ed to the amount paid for on	
Chain of Custody		3	Address:	City State Zin	Phone:		Z	ARVÍSO#1	5 di 8 2/	50 # /	0 0 0 0 0 0				m aware that tempering with or latern warpoint active for the sumple to Assembled by Assembled by	ne Received by fignature) Date	Received by: (Signature)	ther Co.	intess other arrangengents are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above retory with this COC." The Rabit's of the laborators is limited to the amount hald for on the report.	
10 10 6 2 m	ITOCKELTION	E Sandokel					Containers Sample ID	1 ARV	2 ARN,50 2	S ARVISG					uthernicity of this sample. I a dy be grounds for tegal action	Date Time		Słudge, A - Aqueous, D - C	fter results are reported v e ibo	
Project Information	HENEX/10000 LTO	Project: <u>AKUISOF</u> Project Manager: 1711 Kro SandOle	Address:	and State Zin	Phone: 330-0929	Time Date 1	d Sampled Matrix	11:00 10-14-18		- \$4.4.4 OF //				Additional instructions:	L (Reid sampler), attest to the vehicity and authenticity of this sample. I am aware that three of collection is considyred fraud and rydy be grounds for legal action. Sampled by	Relinguished by Blenstury	Rélinquished by: (Signature)	Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, D - Other	Note: Samoles are discarded 30 days after results are reported unless other	

CONTRACT OF



1. . .



1. . .

1 <u>1</u> 1





't . ⁴,



· . · .



÷. .



¹د , 1



i, i,



12 . ¹.



÷. *.



12 - C.



.



۰,