From:	Heather Leven
То:	Yu, Olivia, EMNRD; MNaranjo@slo.state.nm.us
Cc:	Dena; Billings, Bradford, EMNRD
Subject:	RE: Summary of Phone Conference Between KJE and NMOCD
Date:	Thursday, March 15, 2018 1:12:26 PM
Attachments:	SS01 and SS02.pdf
	Boring Log - SS-01.pdf
	Revegetation and Noxious Weed Plan.pdf

Ms. Yu,

Thank you for your response. Please see our responses as follows:

- 1. We acknowledge your request for photo documentation of remedial activities. Based on your approval, we will proceed with liner replacement and backfilling activities.
- 2. Attached is the resubmittal of the laboratory analytical data for SS-01 as well as the boring log.
- 3. Understood, as previously discussed, we will carry forward this request in the future. I address this in greater detail for Spill 2.

Additionally, we have previously submitted the revegetation plan to SLO and NMOCD. I have attached again for your reference. Please let us know if you have any questions or require additional information.

Thanks,

Heather Leven, KJE Project Manager

From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]

Sent: Thursday, March 15, 2018 12:04 PM

To: Heather Leven <<u>heather@kjenvironmental.com</u>>; Naranjo, Mark <<u>MNaranjo@slo.state.nm.us</u>>
 Cc: Dena <<u>dena@kjenvironmental.com</u>>; Billings, Bradford, EMNRD <<u>Bradford.Billings@state.nm.us</u>>
 Subject: RE: Summary of Phone Conference Between KJE and NMOCD

Ms. Leven:

Bradford and I have conversed about 1RP-4497. NMOCD will grant approval for the deferral request regarding 1RP-4497 with several clarifications.

- 1. Liner replacement and backfill approval is granted for the excavated area, outside of the proposed deferred area, as indicated on Figure A1. Please provide photo documentation of remedial activities, including photos of a properly seated and keyed, at minimal 20 mil liner before backfilling.
- 2. Based on the provided data, SS-1 appears to be in the approximate location of soil bore 32, with the highest impacted depth of chloride contamination, and in adequate proximity to the release point. Please provide (or resubmit) the soil bore log and laboratory analyses for SS-1.
- 3. Please be advised that the NMOCD standard is laboratory analyses of one soil sample at no

greater than 5 ft. intervals. Unless informed otherwise, there is no data between soil bore 32 at 8 ft. bgs with 11900 mg/kg chlorides and SS-1 at 21 ft. bgs with 93.5 mg/kg chlorides.

Please confirm or inform for clarifications. NMSLO may have revegetation requirements for the aforementioned areas.

Thanks,

Olivia Yu Environmental Specialist NMOCD, District I <u>Olivia.yu@state.nm.us</u> 575-393-6161 x113

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Heather Leven [mailto:heather@kjenvironmental.com]
Sent: Wednesday, March 14, 2018 3:19 PM
To: Yu, Olivia, EMNRD <<u>Olivia.Yu@state.nm.us</u>>
Cc: Dena <<u>dena@kjenvironmental.com</u>>
Subject: RE: Summary of Phone Conference Between KJE and NMOCD

Good Afternoon Ms. Yu,

I just wanted to take a minute to touch base with you regarding the OWL spills, specifically as it pertains to the last email that we sent to you requesting authorization to remove the fence and replace the liner within the excavation for Spill 1 (1RP-4497). We just received the ROE permit; therefore, we are simply waiting on the NMOCD approval.

Additionally, please find attached, the Workplan for IRP-4963 for your review. Please let us know if you have any questions. I will follow this email up with a phone call. Thanks again for your diligence regarding the matter!

Respectfully Submitted,

Heather Leven, KJE Project Manager

From: Heather Leven Sent: Monday, March 05, 2018 10:32 AM To: 'Yu, Olivia, EMNRD' <<u>Olivia.Yu@state.nm.us</u>>; Billings, Bradford, EMNRD <<u>Bradford.Billings@state.nm.us</u>>
Cc: Dena <<u>dena@kienvironmental.com></u>

Subject: Re: Summary of Phone Conference Between KJE and NMOCD

Ms. Yu,

Please find attached, the figures for 1RP-4497 and -4498 as requested. Regarding #2, our understanding is that all work will be done in accordance with already approved plans, which includes a soil boring delineated vertically 10 feet beyond the known impact for purposes of potential groundwater characterization. As such, #2 will apply to future spills. For the spills that are outstanding, only one (1RP-4963) does not have an approved workplan. Regarding the full closure intent, KJE previously provided each exchange between KJE and the NMOCD. As we have stated, we have approached the remediation of each spill with the intent to receive closure, nothing else was ever discussed.

Additionally, regarding Spill 1 (1RP-4497), KJE is requesting to remove the fence and replace the liner within the excavation. Can you respond and indicate if we are allowed to do so at this time?

Thanks,

Heather Leven, KJE Project Manager

From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]
Sent: Wednesday, February 28, 2018 5:02 PM
To: Heather Leven <<u>heather@kjenvironmental.com</u>>; Billings, Bradford, EMNRD
<<u>Bradford.Billings@state.nm.us</u>>
Cc: Dena <<u>dena@kjenvironmental.com</u>>
Subject: RE: Summary of Phone Conference Between KJE and NMOCD

Ms. Leven:

Thank you for the summary regarding 1RP-4497 and 1RP-4820. Several points of clarification:

- For #1, please demarcate on the map, SS-01 and SS-02 sample locations and release points. Pardon if I missed them.
- Is #2 proposed for 1RP-4497 and 1RP-4498 or in general?
- If available, please provide documentation of full closure intent for 1RP-4498 from the beginning. I asked Tomáš and he told me that he was not aware of this.

Olivia

From: Heather Leven [mailto:heather@kjenvironmental.com]
Sent: Wednesday, February 28, 2018 3:23 PM
To: Yu, Olivia, EMNRD <<u>Olivia.Yu@state.nm.us</u>>; Billings, Bradford, EMNRD

<<u>Bradford.Billings@state.nm.us</u>>

Cc: Dena <<u>dena@kjenvironmental.com</u>>

Subject: Summary of Phone Conference Between KJE and NMOCD

Good Afternoon,

Thank you for taking the time to conduct a phone conference. Below summarizes the agreed-upon actions/ conclusions moving forward:

- For Spills 1 and 2, KJE will provide a map that separates the blending areas for each respective spill.
- In lieu of groundwater monitoring wells, KJE will vertically delineate soil borings to depths 10 feet below the depth of the soil concentrations exhibiting concentrations below NMOCD approved criteria.
- NMOCD will not alter previously approved plans.
- NMOCD requests stockpile sampling be submitted for lab verification on a more frequent basis than 1 per every 200 cubic yards.
- NMOCD mandates that moving forward, all efforts must be made to advance borings beyond refusal. If a boring cannot be advanced to the mandated depth, KJE will notify NMOCD.
- NMOCD mandated 10 foot vertical delineation for 1RP-4820; however, two borings were only delineated to 5 and 6 feet respectively. NMOCD approved the vertical delineation to those depths and does not require further vertical delineation.
- KJE will collect the samples at 2.5 ft intervals and run laboratory analysis, as previously represented.
- KJE will add the release points to the maps.
- KJE will run TPH & BTEX at the point nearest to the release and/or gathering points at every interval and then in a manner sufficient to determine whether the constituents will be present, based on field judgment.
- KJE will provide data regarding the soil amendment to be considered as a remediation option, assuming there are sufficient studies to demonstrate post-remedial, long-term effects in similar environments.

Please feel free to update this bullet list with anything that we may have missed. Thank you both again for taking the time to speak with us!

Sincerely,



HEATHER LEVEN Environmental Project Manager 500 Moseley Rd Cross Roads, TX 76227 O (940)387-0805 F (940)387-0830



James Fox

Owl Bobcat/Redhills Pipeline

Contact:

Project Location:

Certificate of Analysis Summary 548179

KJE Enviromental & Civil Engineering, Aubrey, TX

Project Name: OWL102816D



Date Received in Lab:Wed Mar-08-17 04:40 pmReport Date:15-MAR-17Project Manager:Holly Taylor

Lab Id: 548179-001 548179-002 Field Id: SS001 SS002 Analysis Requested 21 ft 296 In Depth: Matrix: SOIL SOIL Sampled: Mar-08-17 12:15 Mar-08-17 08:45 BTEX by SW 8260B Extracted: Mar-14-17 12:45 SUB: TX104704215 Analyzed: Mar-14-17 15:24 RL Units/RL: mg/kg < 0.00109 0.00109 Benzene < 0.00109 Toluene 0.00109 Ethylbenzene < 0.00109 0.00109 0.00218 m,p-Xylenes < 0.00218 o-Xylene < 0.00109 0.00109 Total Xylenes < 0.00109 0.00109 Total BTEX < 0.00109 0.00109 Inorganic Anions by EPA 300/300.1 Extracted: Mar-10-17 14:20 Mar-10-17 14:20 Analyzed: Mar-10-17 14:53 Mar-10-17 15:29 Units/RL: mg/kg RL mg/kg RL Chloride 93.5 5.00 13.1 4.91 **Percent Moisture** Extracted: Analyzed: Mar-10-17 11:48 Units/RL: % RL Percent Moisture 7.90 1.00 **TPH by Texas1005** Extracted: Mar-09-17 14:00 Analyzed: Mar-10-17 08:22 Units/RL: mg/kg RL C6-C12 Gasoline Range Hydrocarbons <25.4 25.4 C12-C28 Diesel Range Hydrocarbons <25.4 25.4 C28-C35 Oil Range Hydrocarbons <25.4 25.4 Total TPH 1005 <25.4 25.4

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Hely Taylor

Holly Taylor Project Manager

Page 1 of 14

Analytical Report 548179

for KJE Enviromental & Civil Engineering

Project Manager: James Fox OWL102816D

15-MAR-17

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

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ENS ACCREONS

15-MAR-17

Project Manager: **James Fox KJE Enviromental & Civil Engineering** 500 Mosley Rd Aubrey, TX 76227

Reference: XENCO Report No(s): **548179 OWL102816D** Project Address: Owl Bobcat/Redhills Pipeline

James Fox:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 548179. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 548179 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

toly Jaylor

Holly Taylor Project Manager

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Sample Cross Reference 548179



KJE Enviromental & Civil Engineering, Aubrey, TX

OWL102816D

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS001	S	03-08-17 12:15	- 21 ft	548179-001
SS002	S	03-08-17 08:45	- 296 In	548179-002



CASE NARRATIVE

Client Name: KJE Enviromental & Civil Engineering Project Name: OWL102816D

Project ID: Work Order Number(s): 548179
 Report Date:
 15-MAR-17

 Date Received:
 03/08/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 548179



KJE Enviromental & Civil Engineering, Aubrey, TX

OWL102816D

Sample Id: SS001 Lab Sample Id: 548179-001		Matrix: Date Colle	Soil cted: 03.08	.17 12.15		Date Received:03 ample Depth: 21		0
Analytical Method: Inorganic Anio Tech: MGO Analyst: MGO	ns by EPA 300/300).1 Date Prep:	03.10	.17 14.20	%	rep Method: E3 5 Moisture: 5 asis: Wo	00P et Weight	
Seq Number: 3012195		Ĩ						
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	93.5	5.00		mg/kg	03.10.17 14.53		1
Analytical Method:TPH by Texas ITech:ARMAnalyst:ARMSeq Number:3012071	005	Date Prep:	03.09	.17 14.00	%	rep Method: TX 5 Moisture: 7.9 asis: Dr		
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<25.4	25.4		mg/kg	03.10.17 08.22	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	<25.4	25.4		mg/kg	03.10.17 08.22	U	
C28-C35 Oil Range Hydrocarbons								1
g,	PHCG2835	<25.4	25.4		mg/kg	03.10.17 08.22	U	1 1
Total TPH 1005	PHCG2835 PHC635	<25.4 <25.4	25.4 25.4		mg/kg mg/kg	03.10.17 08.22 03.10.17 08.22	U U	-
6.	PHC635	<25.4		Units %				1





KJE Enviromental & Civil Engineering, Aubrey, TX OWL102816D

Sample Id: SS001 Lab Sample Id: 548179-001	~		Matrix: Soil Date Collected: 03.08.17 12.15		Date Received:03.08.17 16.4 Sample Depth: 21 ft		
Analytical Method: BTEX by SW 826 Tech: JTR	50B				Prep Method: % Moisture:	SW5035 7.9	
Analyst: JTR		Date Prep:	03.14.17 12.45		Basis:	Dry Weight	
Seq Number: 3012380					SUB: TX1047	04215	
Parameter	Cas Number	Result]	RL	Units	Analysis D	ate Flag	Dil

						e	0	
Benzene	71-43-2	< 0.00109	0.00109		mg/kg	03.14.17 15.24	U	1
Toluene	108-88-3	< 0.00109	0.00109		mg/kg	03.14.17 15.24	U	1
Ethylbenzene	100-41-4	< 0.00109	0.00109		mg/kg	03.14.17 15.24	U	1
m,p-Xylenes	179601-23-1	< 0.00218	0.00218		mg/kg	03.14.17 15.24	U	1
o-Xylene	95-47-6	< 0.00109	0.00109		mg/kg	03.14.17 15.24	U	1
Total Xylenes	1330-20-7	< 0.00109	0.00109		mg/kg	03.14.17 15.24	U	1
Total BTEX		< 0.00109	0.00109		mg/kg	03.14.17 15.24	U	1
			%					
Surrogate		Cas Number	Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	107	%	74-126	03.14.17 15.24		
1,2-Dichloroethane-D4		17060-07-0	106	%	80-120	03.14.17 15.24		
Toluene-D8		2037-26-5	94	%	73-132	03.14.17 15.24		



Certificate of Analytical Results 548179



KJE Enviromental & Civil Engineering, Aubrey, TX

OWL102816D

Sample Id: SS002		Matrix:	Soil	1	Date Received:	03.08.17 16.40)
Lab Sample Id: 548179-002		Date Collec	ted: 03.08.17 08.45	1	Sample Depth: 2	296 In	
Analytical Method: Inorganic	Anions by EPA 300/300.1]	Prep Method: I	E300P	
Tech: MGO					% Moisture:		
Analyst: MGO		Date Prep:	03.10.17 14.20	1	Basis: V	Wet Weight	
Seq Number: 3012195							
Parameter	Cas Number	Result	RL	Units	Analysis Dat	e Flag	Dil
Chloride	16887-00-6	13.1	4.91	mg/kg	03.10.17 15.29	9	1



Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation

- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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2525 W. Huntington Dr Suite 102, Tempe AZ 85282	(602) 437-0330	



KJE Enviromental & Civil Engineering OWL102816D

Analytical Method:	Inorganic Anions b	y EPA 300	/300.1					Pr	ep Metho	od: E300	0P	
Seq Number:	3012195			Matrix:	Solid				Date Pre	ep: 03.1	0.17	
MB Sample Id:	721309-1-BLK		LCS Sar	nple Id:	721309-1-	BKS		LCSI	D Sample	d: 7213	309-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.98	249	243	98	251	101	90-110	3	20	mg/kg	03.10.17 14:38	

Analytical Method:	Inorganic Anions b	y EPA 300/	/300.1					Pr	ep Metho	d: E30	0P	
Seq Number:	3012195			Matrix:	Soil				Date Pre	ep: 03.1	0.17	
Parent Sample Id:	547991-007		MS Sar	nple Id:	547991-00)7 S		MSI	D Sample	Id: 547	991-007 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag

Analytical Method:	Inorganic Anions b	organic Anions by EPA 300/300.1							ep Metho	od: E300	OP	
Seq Number:	3012195			Matrix:	Soil				Date Pre	ep: 03.1	0.17	
Parent Sample Id:	548179-001		MS Sar	nple Id:	548179-00	01 S		MSI	O Sample	Id: 5481	179-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	93.5	250	341	99	340	99	90-110	0	20	mg/kg	03.10.17 15:00	

Analytical Method: Seq Number:	3012308 Matrix	: Solid : 3012308-1-BLK			
Parameter	MB Result		Units	Analysis Date	Flag
Percent Moisture	<1.00		%	03.10.17 11:48	

Analytical Method: Seq Number: Parent Sample Id:	Percent Moisture 3012308 548179-001	Matrix: MD Sample Id:					
Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	7.90	7.76	2	20	%	03.10.17 11:48	



QC Summary 548179

KJE Enviromental & Civil Engineering OWL102816D

Analytical Method	: TPH by T	exas1005							Pı	ep Meth	od: TX1	.005P	
Seq Number:	3012071				Matrix:	Solid				Date Pr	ep: 03.0	9.17	
MB Sample Id:	721306-1-	BLK		LCS Sar	nple Id:	721306-1	-BKS		LCS	D Sample	e Id: 7213	306-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C12 Gasoline Range H	Iydrocarbons	<25.0	1000	1000	100	1010	101	70-135	1	35	mg/kg	03.10.17 00:05	
C12-C28 Diesel Range Hy	ydrocarbons	<25.0	1000	1030	103	1040	104	70-135	1	35	mg/kg	03.10.17 00:05	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
1-Chlorooctane		105		1	24		126		70	-135	%	03.10.17 00:05	
o-Terphenyl		111		1	27		126		70	-130	%	03.10.17 00:05	

Analytical Method: Seq Number:	3012071				Matrix:					ep Meth Date Pr	ep: 03.0		
Parent Sample Id:	548133-00)5		MS Sar	nple Id:	548133-00)5 S		MSI	D Sample	e Id: 548	133-005 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C12 Gasoline Range Hy	ydrocarbons	<25.0	999	862	86	851	85	70-135	1	35	mg/kg	03.10.17 01:44	
C12-C28 Diesel Range Hyd	irocarbons	<25.0	999	860	86	862	86	70-135	0	35	mg/kg	03.10.17 01:44	
Surrogate					1S Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane				1	09		101		70	-135	%	03.10.17 01:44	
o-Terphenyl				1	06		97		70	-130	%	03.10.17 01:44	

Analytical Method: Seq Number: MB Sample Id:	BTEX by SW 8260 3012380 721516-1-BLK	В	LCS Sar	Matrix: nple Id:	Solid 721516-1-	-BKS			rep Meth Date Pr D Sample	rep: 03.1		
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00100	0.100	0.0918	92	0.0926	93	62-132	1	25	mg/kg	03.14.17 08:32	
Toluene	< 0.00100	0.100	0.0851	85	0.0895	90	66-124	5	25	mg/kg	03.14.17 08:32	
Ethylbenzene	< 0.00100	0.100	0.0905	91	0.0922	92	71-134	2	25	mg/kg	03.14.17 08:32	
m,p-Xylenes	< 0.00200	0.200	0.182	91	0.193	97	69-128	6	25	mg/kg	03.14.17 08:32	
o-Xylene	< 0.00100	0.100	0.0871	87	0.0914	91	72-131	5	25	mg/kg	03.14.17 08:32	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
Dibromofluoromethane	102		ç	96		99		74	-126	%	03.14.17 08:32	
1,2-Dichloroethane-D4	119		8	36		89		80	0-120	%	03.14.17 08:32	
Toluene-D8	95		9	96		103		73	3-132	%	03.14.17 08:32	



KJE Enviromental & Civil Engineering OWL102816D

Analytical Method: Seq Number:	BTEX by SW 8260 3012380	В		Matrix:	Soil		Prep Meth Date P		5035 4.17	
Parent Sample Id:	548079-001		MS Sar	nple Id:	548079-001 S					
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec		Limits		Units	Analysis Date	Flag
Benzene	< 0.000759	0.0759	0.0773	102		62-132		mg/kg	03.14.17 12:28	
Toluene	< 0.000759	0.0759	0.0683	90		66-124		mg/kg	03.14.17 12:28	
Ethylbenzene	< 0.000759	0.0759	0.0717	94		71-134		mg/kg	03.14.17 12:28	
m,p-Xylenes	< 0.00152	0.152	0.151	99		69-128		mg/kg	03.14.17 12:28	
o-Xylene	< 0.000759	0.0759	0.0703	93		72-131		mg/kg	03.14.17 12:28	
Surrogate				AS Rec	MS Flag		Limits	Units	Analysis Date	
Dibromofluoromethane				96			74-126	%	03.14.17 12:28	
1,2-Dichloroethane-D4			9	93			80-120	%	03.14.17 12:28	
Toluene-D8				90			73-132	%	03.14.17 12:28	

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Setting the Standard since 1990

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XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: KJE Enviromental & Civil Engineering	Acceptable Temperature	e Range: 0 - 6 degC
Date/ Time Received: 03/08/2017 04:40:00 PM		Acceptable Range: Ambient
Work Order #: 548179	Temperature Measuring	device used : R8
Sample Rece	pt Checklist	Comments
#1 *Temperature of cooler(s)?	5.2	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seal present on shipping container/ cooler?	N/A	
#5 *Custody Seals intact on shipping container/ cooler?	N/A	
#6 Custody Seals intact on sample bottles?	N/A	
#7 *Custody Seals Signed and dated?	N/A	
#8 *Chain of Custody present?	Yes	
#9 Sample instructions complete on Chain of Custody?	Yes	
#10 Any missing/extra samples?	No	
#11 Chain of Custody signed when relinquished/ received?	Yes	
#12 Chain of Custody agrees with sample label(s)?	Yes	
#13 Container label(s) legible and intact?	Yes	
#14 Sample matrix/ properties agree with Chain of Custody?	Yes	
#15 Samples in proper container/ bottle?	Yes	
#16 Samples properly preserved?	Yes	
#17 Sample container(s) intact?	Yes	
#18 Sufficient sample amount for indicated test(s)?	Yes	
#19 All samples received within hold time?	Yes	
#20 Subcontract of sample(s)?	Yes	Houston
#21 VOC samples have zero headspace?	N/A	
#22 <2 for all samples preserved with HNO3,HCL, H2SO4? samples for the analysis of HEM or HEM-SGT which are verif analysts.		
#23 >10 for all samples preserved with NaAsO2+NaOH, ZnA	Ac+NaOH? N/A	

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Jessica Kramer

Date: 03/09/2017

Checklist reviewed by: Holly Taylor Holly Taylor

Date: 03/09/2017

INVRON					KJ 500	D OF SUBS Environmen Moseley Road 940-387-0805	tal & Civil Cross Roa FAX 940	E ngineeri ads, TX 762 -387-0830	ng 27		
Client Name:	OWL SWD Operation 8214 Westchester Drive		Tawaa	Well/Bo		SS-01 21'		e Drilled:		March 8, 20 4"	17
Client Address:	75225			_	of Boring:			meter of Bo	_		
Project Name:	Produced Water Pipeli SWD		OWL	Depth o		N/A		meter of Sci		N/A	
Project Address:	32.095118/ -103.21 Atkins Engineering				of Screen:	N/A N/A		meter of Ca	sing:	N/A	
Driller:		Sampling	Split		of Casing:			Size:		N/A	
Drilling Method:	CME Rig	Method:	Spoon	Log	gged By:	James F.		l Material:		N/A	
	Description / Rem e, Texture, Structure	e, Consistency, Mo		Depth (feet)	Sample Interval (feet)	PID (ppm)	Chloride Screening (ppm)	Sample Core Zone	(graph	ell Completi ical represen ly, not to sca	tation
Surface Type: To graded, dry	opsoil, Light Red f	ine SAND, (SP)	, poorly							Bentonite	
Sub-surface Type:	Red/light red SAND	9, (SP), poorly grad	ded, dry	-1- -2-	0.0-2.0	4.3	640				
				-3- -4-	2.0-4.0	8.3	420				
				-5- -6-	4.0-6.0	6.6	470				
				-7-	6.0-8.0	4.6	820				
				-8- -9-	8.0-10.0	0.2	NA				
NOTE: No water wa	is encountered throug	hout installation th	is boring	-10-	10.0-12.0	NA	NA				
				-12-		-					
				-13- -14-	12.0-14.0	0.2	5				
				-15- -16-	14.0-16.0	0.2	5				
				-17- -18-	16.0-18.0	0.2	5				
				-19- -20-	18.0-20.0	0.2	5				
				-21-	20.0-21.0	0.2	5				
These logs should n	ot be used separately	from the original	report.								



Ms. Amber Groves New Mexico State Land Office 2827 North Dal Paso, Suite 117 Hobbs, New Mexico 88260

Re: OWL SWD Operating, LLC October 28, 2016 Spill Jal, New Mexico 1RP 4497

At the SLO's request, in an effort to "achieve native plant cover and diversity levels equal to or exceeding the natural potential levels in undisturbed soils adjacent to the project area", OWL will comply with the following Revegetation and Noxious Weed Plan.

Revegetation and Noxious Weed Plan

OWL, or their contractor, will broadcast apply BLM mix No. 2, for sandy soil, on the remediation area outside of the road right-of-way. The mix will be modified to replace the Lovegrass and will include Sand Dropseed, Plains Bristlegrass, and Sideoats Grama. The seed mix will be applied at the rate specified by the supplier (8 lbs of seed/acre; consisting of 2 lbs Sand Dropseed, 2 lbs Sideoats Grama, and 4 lbs Plains Bristlegrass). A certification of purity from Curtis & Curtis, Inc. is being submitted concurrently with this Plan for your review. OWL will complete a one-time watering with a water truck to help establish growth, if a sufficient rainfall event is not forecast within 72 hours after application. The site will be monitored on a monthly basis to visually assess the establishment of growth and the absence of noxious weeds. The seed mix will contain no primary or secondary noxious weeds; however, if noxious weeds are observed during the monitoring events, the weeds will be mechanically removed. Pictures will be taken for documentation of the monitoring. If no growth is present after one year, the site will be reseeded and monitored until revegetation is achieved. A final report will be submitted once revegetation is complete, which will document the seeding and monitoring efforts and will include pictures of the seeding process, monitoring efforts, and revegetated area.

If we can be of further assistance, please do not hesitate to contact us at 940-387-0805. We look forward to proceeding with the remediation efforts and site closure.

Regards,

Dena M. Vandenberg, REM, LEED AP Director of Environmental Services

Kevin J. Ware, QEP, REM Principal

IRRIGATED PASTURE GRASSES MOUNTAIN PASTURE GRASSES NATIVE PASTURE GRASSES SORGHUMS

Curtis & Curtis, Inc.

4500 N. Prince St. PHONE (575) 762-4759 / FAX (575) 763-4213 seed@curtisseed.com www.curtisseed.com

CLOVIS, NEW MEXICO 88101

YARD AND PLAYGROUND GRASSES GOLF COURSE GRASSES ALFALFA / CLOVERS FORAGES

SUBMITTAL

November 16, 2017

3.5 Acre Modified BLM #2

To Whom It May Concern:

Curtis & Curtis, Inc certifies that each container of seed is mixed and labeled in accordance with the Federal Seed Act and is at least equal to the requirements indicated below.

				Germ &			
<u>Kind</u>	Origin	Lot #	Purity X	Dormant	=	PLS %	
Sand Dropseed Not Stated	Colorado	19557	99.44%	90.00%		89.50%	
Sideoats Grama El Reno	Texas	18990	85.69%	98.00%		83.98%	
Plains Bristlegrass Not Stated	Oklahoma	19495	90.60%	98.00%		88.79%	

Sincerely,

temp yler Stuemky

CURTIS & CURTIS, INC.

4500 North Prince, Clovis, New Mexico 88101 PH: 575-762-4759 FAX: 575-763-4213

Irrigated Pasture Grasses Mountain Pasture Grasses Native Pasture Grasses

PRICE QUOTATION

TO:	KJ Environmental	DATE:	November 16, 2017
ATTENTION:	Dena	SALESPERSON:	Tyler Stuemky
PHONE:	940-387-0805	SHIPPING DATE:	As Directed
EMAIL:	dena@kjenvironmental.com	FOB:	Clovis
PROJECT:	3.5 Acre Modified BLM #2	TERMS:	TBD

DESCRIPTION	PRICE	AMOUNT
Modified BLM #2: ***Broadcast Rates***	\$100.00/Acre	\$350.00
<u>COMMON NAME</u>	BOTANICAL NAME	PLS/ACRE
Sand Dropseed	Sporobolus cryptandrus	2.0
Sand Lovegrass	Bouteloua curtipendula	2.0
Sub. Sideoats Grama	_	
Plains Bristlegrass	Setaria leucopila	4.0

THIS QUOTE IS GOOD FOR 10 DAYS ***ALL PRICES SUBJECT TO AVAILABILITY**SUBJECT TO BEING UNSOLD***

Here is our quotation on the goods named, subject to the conditions noted:

The prices and terms on this quotation are not subject to verbal changes or other agreements unless approved in writing by the Home Office of the Seller. All quotations and agreements are contingent upon strikes, accidents, fires, availability of materials and all other causes beyond our control. Prices are based on costs and conditions existing on date of quotation and are subject to change by the Seller before final acceptance.

Typographical and stenographic errors are subject to correction. Purchaser agrees to accept either overage or shortage not in excess of ten percent to be charged for prorata. Purchaser assumes liability for patent and copyright infringement when goods are made to Purchaser's specifications. When quotation specifies material to be furnished by the purchaser, ample allowance must be made for reasonable spoilage and material must be of suitable quality to facilitate efficient production. Conditions not specifically stated herein shall be governed by established trade customs. Terms inconsistent with those stated herein, which may appear on Purchaser's formal order will not be binding on the Seller.

THIS AGREEMENT IS BETWEEN:

 Buyer:
 ______ Date:
 ______ Date: November 16, 2017

Yard and Playground Grasses Golf Course Grasses Alfalfa/Clovers