

P.O. Box 2587 • Hobbs, NM 88241 • Phone: (575) 397-4961 • todd@trinityoilfieldservices.com

APPROVED

January 19, 2016

By Kellie Jones at 7:25 am, Jan 26, 2016

Kellie Jones Oil Conservation Division, EMNRD Environmental Specialist 1625 North French Drive Hobbs, NM 88240

RE: Work Plan

Legacy Reserves - Will 693 Pasture J-34-8S-35E 1830E 1900E API No. 30-041-20848

Kellie,

Trinity Oilfield Services is representing Legacy Reserves, LP in the Accidental Release (AR) for the Will 693 Pasture. Trinity and Legacy discovered a leak in the pasture during a meeting with the landowner. Subsequently a C-141 was filed and no initial cleanup was performed, as there was no standing fluid.

Delineation

Trinity performed a sampling event on November 12, 2015. Three sample points were selected and samples were pulled from the surface, 1',2',4', & 6. 'The results of this event and a sample map can be found attached as Exhibit A & B. After analyzing the results we determined that additional sampling needed to be performed at SP1 which is nearest the Release Point (RP). A sample boring was performed with samples that were obtained from 8', 10', 12', & 14'. We attempted to retrieve data from the Office of the State Engineer (OSE) in regards to ground water depths, however no data is available for the area. It is believed that groundwater is grater than 250'.

Conclusion

After carefully analyzing all of the data and consulting with our client, Trinity is proposing the following remediation. Trinity would like to excavate the Effected Area (EA) to depth of 3'. Haul the contaminated soil to the nearest disposal. Install a 20 Mil. liner. Backfill the EA with clean soil appropriate with the area, and reseed the area.

Upon completion of this work plan Trinity will submit a closure report. Please feel free to contact me with any questions or concerns regarding this matter.

Sincerely,

Todd Roberson President Trinity Oilfield Services & Rentals, LLC.

CC Jessie Garcia Legacy Reserves, LP

Attachments: Exhibit A & B C-141

Exhibit A

			525
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通過投資		Section 2	1.4
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Sample	BTEX	Chloride	ТРН-	TPH-	TPH-EX
Points			GRO	DRO	DRO
SP1-0					
	<.3	240	< 200	10800	3440
SP1-1					
	0.631	< 16.0	< 200	5030	1060
SP1-2					
	1.3	< 16.0	102	4540	848
SP1-4					
	19.1	96.0	272	1440	206
SP1-6					
	207	800	5150	19600	2670
SP1-8					
	191	224	1000	2580	360
SP1-10					
	38.1	240	98.3	310	38.1
SP1-12					
	7.27	208	32.5	173	18.0
SP1-14					
	1.76	176	21.3	163	15.0

SP2

SP3

Contamination Area:

2 700 Sq/ft





Exhibit B



January 08, 2016

TODD ROBERSON
TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS, NM 88241

RE: WILL 693 PASTURE

Enclosed are the results of analyses for samples received by the laboratory on 01/04/16 11:00.

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

Cardinal Laboratories is 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.

Celeg D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



TRINITY OILFIELD SERVICES & RENTALS, LLC CHRIS HAUGSTAD P. O. BOX 2587 HOBBS NM, 88241

Fax To:

Received: Reported: 11/13/2015

11/20/2015

Project Name: Project Number: WILL 693 PASTURE

NONE GIVEN Project Location: NOT GIVEN

Sampling Date:

11/12/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Judy Garcia

Sample ID: SP1 (H503012-01)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2015	ND	1.96	98.0	2.00	0.526	
Toluene*	<0.050	0.050	11/17/2015	ND	2.22	111	2.00	0.925	
Ethylbenzene*	<0.050	0.050	11/17/2015	ND	2.06	103	2.00	1.09	
Total Xylenes*	<0.150	0.150	11/17/2015	ND	6.46	108	6.00	0.960	
Total BTEX	<0.300	0.300	11/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/16/2015	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	11/14/2015	ND	198	99.2	200	6.08	
DRO >C10-C28	10800	200	11/14/2015	ND	207	103	200	5.76	
EXT DRO >C28-C35	3440	200	11/14/2015	ND					
Surrogate: 1-Chlorooctane	85.5	% 35-147	,						
Surrogate: 1-Chlorooctadecane	454 9	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Fax To: NONE

Received:

11/13/2015

Reported:

11/20/2015

Sampling Date:

11/12/2015

Sampling Type:

Soil

Project Name:

WILL 693 PASTURE

Project Number:

NONE GIVEN

Sampling Condition:

Cool & Intact

Project Location:

NOT GIVEN

Sample Received By:

Judy Garcia

Sample ID: SP1-1 (H503012-02)

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	11/17/2015	ND	1.96	98.0	2.00	0.526	
Toluene*	<0.050	0.050	11/17/2015	ND	2.22	111	2.00	0.925	
Ethylbenzene*	0.631	0.050	11/17/2015	ND	2.06	103	2.00	1.09	
Total Xylenes*	<0.150	0.150	11/17/2015	ND	6.46	108	6.00	0.960	
Total BTEX	0.631	0.300	11/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	1879	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/16/2015	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	11/14/2015	ND	198	99.2	200	6.08	
DRO >C10-C28	5030	200	11/14/2015	ND	207	103	200	5.76	
EXT DRO > C28-C35	1060	200	11/14/2015	ND					
Surrogate: 1-Chlorooctane	113 9	113 % 35-147							
Surrogate: 1-Chlorooctadecane	191 %	6 28-171							

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Received:

11/13/2015

Sampling Date:

11/12/2015

Reported:

11/20/2015

Sampling Type:

Soil

Project Name:

WILL 693 PASTURE

Sampling Condition:

Cool & Intact

Project Number:

Sample Received By:

Judy Garcia

Project Location:

NONE GIVEN NOT GIVEN

Sample ID: SP1-2 (H503012-03)

TEX 8021B	mg/	kg	Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2015	ND	1.96	98.0	2.00	0.526	
Toluene*	<0.050	0.050	11/17/2015	ND	2.22	111	2.00	0.925	
Ethylbenzene*	1.30	0.050	11/17/2015	ND	2.06	103	2.00	1.09	
Total Xylenes*	<0.150	0.150	11/17/2015	ND	6.46	108	6.00	0.960	
Total BTEX	1.30	0.300	11/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	239 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/16/2015	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	102	100	11/14/2015	ND	198	99.2	200	6.08	
DRO >C10-C28	4540	100	11/14/2015	ND	207	103	200	5.76	
EXT DRO >C28-C35	848	100	11/14/2015	ND					
Surrogate: 1-Chlorooctane	1199	% 35-147	7						
Surrogate: 1-Chlorooctadecane	183	% 28-171	,						

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Received:

11/13/2015

Sampling Date:

11/12/2015

Reported:

11/20/2015

Soil

Sampling Type:

Cool & Intact

Project Name:

WILL 693 PASTURE

Sampling Condition: Sample Received By:

Judy Garcia

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sample ID: SP1-4 (H503012-04)

BTEX 8021B	mg/	kg	Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.924	0.100	11/17/2015	ND	1.96	98.0	2.00	0.526	
Toluene*	1.78	0.100	11/17/2015	ND	2.22	111	2.00	0.925	
Ethylbenzene*	2.79	0.100	11/17/2015	ND	2.06	103	2.00	1.09	
Total Xylenes*	13.6	0.300	11/17/2015	ND	6.46	108	6.00	0.960	
Total BTEX	19.1	0.600	11/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	165	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/16/2015	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	272	10.0	11/14/2015	ND	198	99.2	200	6.08	
DRO >C10-C28	1440	10.0	11/14/2015	ND	207	103	200	5.76	
EXT DRO > C28-C35	206	10.0	11/14/2015	ND					
Surrogate: 1-Chlorooctane	125	125% 35-147							
Surrogate: 1-Chlorooctadecane	124	% 28-171	!						

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Received:

11/13/2015

Sampling Date:

11/12/2015

Reported:

11/20/2015

Sampling Type:

Soil

Project Name:

Cool & Intact

WILL 693 PASTURE

Sampling Condition: Sample Received By:

Judy Garcia

Project Number: Project Location:

NONE GIVEN NOT GIVEN

Sample ID: SP1-6 (H503012-05)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	11/17/2015	ND	1.96	98.0	2.00	0.526	
Toluene*	15.3	2.00	11/17/2015	ND	2.22	111	2.00	0.925	
Ethylbenzene*	33.0	2.00	11/17/2015	ND	2.06	103	2.00	1.09	
Total Xylenes*	159	6.00	11/17/2015	ND	6.46	108	6.00	0.960	
Total BTEX	207	12.0	11/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	11/16/2015	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	5150	100	11/14/2015	ND	198	99.2	200	6.08	
DRO >C10-C28	19600	100	11/14/2015	ND	207	103	200	5.76	
EXT DRO >C28-C35	2670	100	11/14/2015	ND					
Surrogate: 1-Chlorooctane	252 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	411 9	% 28-171							

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Celey D. Keene, Lab Director/Quality Manager

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TRINITY OILFIELD SERVICES & RENTALS, LLC TODD ROBERSON P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Reported:

01/04/2016

Sampling Date:

12/23/2015

Project Name:

01/08/2016

Sampling Type:

Soil

WILL 693 PASTURE

Sampling Condition:

Cool & Intact

Project Number: Project Location:

DRO >C10-C28

EXT DRO >C28-C35

NONE GIVEN NOT GIVEN

Sample Received By: Jodi Henson

Sample ID: SP 8 (H600007-02)

BTEX 8021B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.45	0.500	01/06/2016	ND	1.98	99.2	2.00	12.0	
Toluene*	38.8	0.500	01/06/2016	ND	2.01	101	2.00	12.6	
Ethylbenzene*	29.8	0.500	01/06/2016	ND	1.86	93.2	2.00	12.3	
Total Xylenes*	121	1.50	01/06/2016	ND	5.93	98.9	6.00	11.7	
Total BTEX	191	3.00	01/06/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	129	% 73.6-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/04/2016	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1000	50.0	01/05/2016	ND	188	93.9	200	0.803	

ND

ND

179

89.4

200

1.93

01/05/2016

01/05/2016

Surrogate: 1-Chlorooctane 138 % 35-147 Surrogate: 1-Chlorooctadecane 116% 28-171

2580

360

50.0

50.0

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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SP1-10

TRINITY OILFIELD SERVICES & RENTALS, LLC TODD ROBERSON P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE Received: 01/04/2016

Reported: 01/08/2016
Project Name: WILL 693 PASTURE
Project Number: NONE GIVEN

Project Location: NOT GIVEN

Sampling Date: 12/23/2015 Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Jodi Henson

Sample ID: SP 10 (H600007-03)

BTEX 8021B	mg/	kg	Analyze	d By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2016	ND	1.98	99.2	2.00	12.0	
Toluene*	4.72	0.050	01/06/2016	ND	2.01	101	2.00	12.6	
Ethylbenzene*	6.38	0.050	01/06/2016	ND	1.86	93.2	2.00	12.3	
Total Xylenes*	27.0	0.150	01/06/2016	ND	5.93	98.9	6.00	11.7	
Total BTEX	38.1	0.300	01/06/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	187 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/04/2016	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	98.3	10.0	01/05/2016	ND	188	93.9	200	0.803	
DRO >C10-C28	310	10.0	01/05/2016	ND	179	89.4	200	1.93	
EXT DRO >C28-C35	38.1	10.0	01/05/2016	ND					
Surrogate: 1-Chlorooctane	51.5	% 35-147	7						
Surrogate: 1-Chlorooctadecane	45.4	% 28-171	!						

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Celley There

Celey D. Keene, Lab Director/Quality Manager

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TRINITY OILFIELD SERVICES & RENTALS, LLC TODD ROBERSON P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received:

01/04/2016

Sampling Date:

12/23/2015

Reported:

01/08/2016

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

Project Number:

WILL 693 PASTURE

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN NOT GIVEN

Sample ID: SP 12 (H600007-04)

BTEX 8021B	mg/kg		Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2016	ND	1.98	99.2	2.00	12.0	
Toluene*	0.354	0.050	01/06/2016	ND	2.01	101	2.00	12.6	
Ethylbenzene*	1.13	0.050	01/06/2016	ND	1.86	93.2	2.00	12.3	
Total Xylenes*	5.79	0.150	01/06/2016	ND	5.93	98.9	6.00	11.7	
Total BTEX	7.27	0.300	01/06/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	132 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/04/2016	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	32.5	10.0	01/05/2016	ND	188	93.9	200	0.803	
DRO >C10-C28	173	10.0	01/05/2016	ND	179	89.4	200	1.93	
EXT DRO >C28-C35	18.0	10.0	01/05/2016	ND					
Surrogate: 1-Chlorooctane	39.0 %	6 35-147	,						
Surrogate: 1-Chlorooctadecane	35.9 %	6 28-171							

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SP1-14

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC TODD ROBERSON P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE Received: 01/04/2016

Reported: 01/08/2016
Project Name: WILL 693 PASTURE
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 12/23/2015

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 14 (H600007-05)

BTEX 8021B	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2016	ND	1.98	99.2	2.00	12.0	
Toluene*	0.057	0.050	01/06/2016	ND	2.01	101	2.00	12.6	
Ethylbenzene*	0.242	0.050	01/06/2016	ND	1.86	93.2	2.00	12.3	
Total Xylenes*	1.46	0.150	01/06/2016	ND	5.93	98.9	6.00	11.7	
Total BTEX	1.76	0.300	01/06/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/04/2016	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	21.3	10.0	01/05/2016	ND	188	93.9	200	0.803	
DRO >C10-C28	163	10.0	01/05/2016	ND	179	89.4	200	1.93	
EXT DRO >C28-C35	15.0	10.0	01/05/2016	ND					
Surrogate: 1-Chlorooctane	76.65	% 35-147					-		
Surrogate: 1-Chlorooctadecane	76.3 9	% 28-171							

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TRINITY OILFIELD SERVICES & RENTALS, LLC CHRIS HAUGSTAD P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received:

11/13/2015

Sampling Date:

11/12/2015

Reported: Project Name: 11/20/2015

Sampling Type:

Soil

WILL 693 PASTURE

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sample Received By:

Judy Garcia

Sample ID: SP2 (H503012-06)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2015	ND	1.96	98.0	2.00	0.526	
Toluene*	<0.050	0.050	11/17/2015	ND	2.22	111	2.00	0.925	
Ethylbenzene*	<0.050	0.050	11/17/2015	ND	2.06	103	2.00	1.09	
Total Xylenes*	<0.150	0.150	11/17/2015	ND	6.46	108	6.00	0.960	
Total BTEX	<0.300	0.300	11/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/16/2015	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	11/14/2015	ND	198	99.2	200	6.08	
DRO >C10-C28	10000	200	11/14/2015	ND	207	103	200	5.76	
EXT DRO >C28-C35	3700	200	11/14/2015	ND					
Surrogate: 1-Chlorooctane	103 %	6 35-147	,						

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TRINITY OILFIELD SERVICES & RENTALS, LLC CHRIS HAUGSTAD P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received:

11/13/2015

Sampling Date:

11/12/2015

Reported:

11/20/2015

Sampling Type:

Soil

Project Name:

WILL 693 PASTURE

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN NOT GIVEN

Sample Received By:

Judy Garcia

Sample ID: SP2-1 (H503012-07)

BTEX 8021B	mg/	mg/kg Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2015	ND	1.96	98.0	2.00	0.526	
Toluene*	<0.050	0.050	11/17/2015	ND	2.22	111	2.00	0.925	
Ethylbenzene*	0.748	0.050	11/17/2015	ND	2.06	103	2.00	1.09	
Total Xylenes*	<0.150	0.150	11/17/2015	ND	6.46	108	6.00	0.960	
Total BTEX	0.748	0.300	11/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	208 9	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/16/2015	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	109	100	11/14/2015	ND	198	99.2	200	6.08	
DRO >C10-C28	6630	100	11/14/2015	ND	207	103	200	5.76	
EXT DRO >C28-C35	1250	100	11/14/2015	ND					
Surrogate: 1-Chlorooctane	112 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	208 9	% 28-171	!						

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Fax To:

Received:

11/13/2015

Sampling Date:

11/12/2015

Reported:

11/20/2015

Sampling Type:

Soil

Project Name:

WILL 693 PASTURE

Sampling Condition: Sample Received By: Cool & Intact Judy Garcia

Project Number: Project Location:

NONE GIVEN

NOT GIVEN

Sample ID: SP2-2 (H503012-08)

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	11/17/2015	ND	1.96	98.0	2.00	0.526	
Toluene*	<0.050	0.050	11/17/2015	ND	2.22	111	2.00	0.925	
Ethylbenzene*	0.952	0.050	11/17/2015	ND	2.06	103	2.00	1.09	
Total Xylenes*	<0.150	0.150	11/17/2015	ND	6.46	108	6.00	0.960	
Total BTEX	0.952	0.300	11/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	213 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/16/2015	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	157	100	11/14/2015	ND	198	99.2	200	6.08	
DRO >C10-C28	7710	100	11/14/2015	ND	207	103	200	5.76	
EXT DRO >C28-C35	1470	100	11/14/2015	ND					
Surrogate: 1-Chlorooctane	123 %	6 35-147	,						
Surrogate: 1-Chlorooctadecane	236 %	6 28-171							

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P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Fax To: NO
Received: 11/13/2015

Reported: 11/20/2015
Project Name: WILL 693 PASTURE
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

11/12/2015

Sampling Date:

Sample ID: SP2-4 (H503012-09)

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*	0.051	0.050	11/17/2015	ND	1.96	98.0	2.00	0.526	
Toluene*	0.204	0.050	11/17/2015	ND	2.22	111	2.00	0.925	
Ethylbenzene*	<0.050	0.050	11/17/2015	ND	2.06	103	2.00	1.09	
Total Xylenes*	3.11	0.150	11/17/2015	ND	6.46	108	6.00	0.960	
Total BTEX	3.36	0.300	11/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	193 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/16/2015	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	65.5	10.0	11/14/2015	ND	198	99.2	200	6.08	
DRO >C10-C28	558	10.0	11/14/2015	ND	207	103	200	5.76	
EXT DRO >C28-C35	84.0	10.0	11/14/2015	ND					
Surrogate: 1-Chlorooctane	106 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	1199	% 28-171	•						

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Fax To: NONE

Received: 11/13/2015

Reported: 11/20/2015
Project Name: WILL 693 PASTURE
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/12/2015

Sampling Type: Soil
Sampling Condition: Cool & Intact

Sample Received By: Judy Garcia

Sample ID: SP2-6 (H503012-10)

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	11/18/2015	ND	1.64	82.2	2.00	16.6	
Toluene*	<0.050	0.050	11/18/2015	ND	1.77	88.7	2.00	16.9	
Ethylbenzene*	<0.050	0.050	11/18/2015	ND	1.58	79.1	2.00	16.1	
Total Xylenes*	<0.150	0.150	11/18/2015	ND	4.91	81.8	6.00	16.4	
Total BTEX	<0.300	0.300	11/18/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	11/16/2015	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/14/2015	ND	198	99.2	200	6.08	
DRO >C10-C28	16.5	10.0	11/14/2015	ND	207	103	200	5.76	
EXT DRO >C28-C35	<10.0	10.0	11/14/2015	ND					
Surrogate: 1-Chlorooctane	93.0	% 35-147	7						
Surrogate: 1-Chlorooctadecane	98.9	% 28-171							

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TRINITY OILFIELD SERVICES & RENTALS, LLC CHRIS HAUGSTAD P. O. BOX 2587 HOBBS NM, 88241 NONE

Fax To:

Received:

11/13/2015

Reported:

11/20/2015

Project Name: Project Number:

WILL 693 PASTURE NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

11/12/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Judy Garcia

Sample ID: SP3 (H503012-11)

BTEX 8021B	mg/l	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2015	ND	1.64	82.2	2.00	16.6	
Toluene*	<0.050	0.050	11/18/2015	ND	1.77	88.7	2.00	16.9	
Ethylbenzene*	<0.050	0.050	11/18/2015	ND	1.58	79.1	2.00	16.1	
Total Xylenes*	<0.150	0.150	11/18/2015	ND	4.91	81.8	6.00	16.4	
Total BTEX	<0.300	0.300	11/18/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 %	6 73.6-140)						
Chloride, SM4500Cl-B	mg/l	kg	Analyze	d By: AP					

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/16/2015	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	11/14/2015	ND	198	99.2	200	6.08	
DRO >C10-C28	9310	100	11/14/2015	ND	207	103	200	5.76	
EXT DRO >C28-C35	2920	100	11/14/2015	ND					

101 % 35-147 Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane 373 % 28-171

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TRINITY OILFIELD SERVICES & RENTALS, LLC
CHRIS HAUGSTAD
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received:

11/13/2015

.1/13/2015

Sampling Date:

11/12/2015

Reported:

11/20/2015

Sampling Type:

Soil

Project Name:

WILL 693 PASTURE

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN

Sample Received By:

Judy Garcia

Sample ID: SP3-1 (H503012-12)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/18/2015	ND	1.64	82.2	2.00	16.6	
Toluene*	<0.200	0.200	11/18/2015	ND	1.77	88.7	2.00	16.9	
Ethylbenzene*	0.558	0.200	11/18/2015	ND	1.58	79.1	2.00	16.1	
Total Xylenes*	<0.600	0.600	11/18/2015	ND	4.91	81.8	6.00	16.4	
Total BTEX	<1.20	1.20	11/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID

134 %

73.6-140

Surroguie. 4-Diomojiuorovenzene (FID	134 /	75.0-14							
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/16/2015	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	360	100	11/14/2015	ND	198	99.2	200	6.08	
DRO >C10-C28	10400	100	11/14/2015	ND	207	103	200	5.76	
EXT DRO >C28-C35	1660	100	11/14/2015	ND					
Surrogate: 1-Chlorooctane	178 9	% 35-147	,						

Surrogate: 1-Chlorooctane 178 % 35-147
Surrogate: 1-Chlorooctadecane 243 % 28-171

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TRINITY OILFIELD SERVICES & RENTALS, LLC CHRIS HAUGSTAD P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received:

11/13/2015

Sampling Date:

11/12/2015

Reported:

11/20/2015

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

Project Number:

WILL 693 PASTURE NONE GIVEN

Sample Received By:

Judy Garcia

Project Location:

NOT GIVEN

Sample ID: SP3-2 (H503012-13)

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	11/18/2015	ND	1.64	82.2	2.00	16.6	
Toluene*	<0.050	0.050	11/18/2015	ND	1.77	88.7	2.00	16.9	
Ethylbenzene*	0.605	0.050	11/18/2015	ND	1.58	79.1	2.00	16.1	
Total Xylenes*	<0.150	0.150	11/18/2015	ND	4.91	81.8	6.00	16.4	
Total BTEX	0.605	0.300	11/18/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	206 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/16/2015	ND	416	104	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	11/14/2015	ND	198	99.2	200	6.08	
DRO >C10-C28	4100	100	11/14/2015	ND	207	103	200	5.76	
EXT DRO >C28-C35	908	100	11/14/2015	ND					
Surrogate: 1-Chlorooctane	125	% 35-147	7						
Surrogate: 1-Chlorooctadecane	170	% 28-171							

*=Accredited Analyte Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey L. Kreene

Celey D. Keene, Lab Director/Quality Manager

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TRINITY OILFIELD SERVICES & RENTALS, LLC CHRIS HAUGSTAD P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received:

11/13/2015

Sampling Date:

11/12/2015

Reported:

11/20/2015

Sampling Type:

Soil

Project Name:

WILL 693 PASTURE

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN NOT GIVEN

Sample Received By:

Judy Garcia

Sample ID: SP3-4 (H503012-14)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/18/2015	ND	1.64	82.2	2.00	16.6	
Toluene*	0.472	0.200	11/18/2015	ND	1.77	88.7	2.00	16.9	
Ethylbenzene*	1.63	0.200	11/18/2015	ND	1.58	79.1	2.00	16.1	
Total Xylenes*	3.24	0.600	11/18/2015	ND	4.91	81.8	6.00	16.4	
Total BTEX	5.35	1.20	11/18/2015	ND					

rogate: 4-Bromoflyorobenzene (PII)

127%

118%

73 6-140

28-171

Surrogate: 4-Bromofluorobenzene (PIL	12/5	/6 /3.0-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/16/2015	ND	416	104	400	3.92	
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	305	10.0	11/17/2015	ND	196	98.0	200	1.17	
DRO >C10-C28	1460	10.0	11/17/2015	ND	196	98.2	200	1.00	
EXT DRO >C28-C35	202	10.0	11/17/2015	ND					
Surrogate: 1-Chlorooctane	115	% 35-147	,						

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Surrogate: 1-Chlorooctadecane

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Celey L. Kreene

Celey D. Keene, Lab Director/Quality Manager

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TRINITY OILFIELD SERVICES & RENTALS, LLC
CHRIS HAUGSTAD
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 11/13/2015
Reported: 11/20/2015

Project Name: WILL 693 PASTURE
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/12/2015 Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP3-6 (H503012-15)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2015	ND	1.87	93.7	2.00	3.41	
Toluene*	<0.050	0.050	11/19/2015	ND	2.12	106	2.00	5.06	
Ethylbenzene*	<0.050	0.050	11/19/2015	ND	2.08	104	2.00	7.30	
Total Xylenes*	0.223	0.150	11/19/2015	ND	6.20	103	6.00	7.21	
Total BTEX	<0.300	0.300	11/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 73.6-14	10						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	11/16/2015	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	10.7	10.0	11/17/2015	ND	196	98.0	200	1.17	
DRO >C10-C28	114	10.0	11/17/2015	ND	196	98.2	200	1.00	
EXT DRO >C28-C35	19.5	10.0	11/17/2015	ND					
Surrogate: 1-Chlorooctane	89.9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	101	% 28-171	1						

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

matrix interference's.

The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. S-04

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Sampler - UPS - Bus - Other: #54

Sample Condition
Cool Intact
Cool Yes Yes

CHECKED BY:

Phone Result:
Fax Result:
REMARKS:

☐ Yes ☐ No Add'I Phone #:

† Cardinal cannot accept verbal changes. Please fax written changes to texts add anno

Delivered By: (Circle One)

Time:

Page 18 of 19



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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(5/5) 393-2326	FAX (5/5) 3					ANALYSIS REGUEST	
Project Manager:	A Programme		P.O. #:			- 8	The state of the s
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Sampler Name:	N I		Fax #:		7		
FOR LAB USE ONLY		MATRIX	PRESERV SAMPLING	NG	6		
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adilitates or successors arising out of or related. Relinquished By:	Relinquished By: Date: Time:	Received By:	Consider spoon any of the above stated real	Phone Result: Fax Result: REMARKS:	□ Yes □ No	Add'i Phone #: Add'i Fax #:	
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Sampler - UPS - Bus - Other: Delivered By: (Circle One)

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Page 19 of 19



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Designation of the last of the	(576) 393-2326 FAX (575) 393-2476	101 East Marland, Hobbs, NM 88240
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Phone #: Fax #:		Address:			
Project #: Project Owner:		City:			
Project Name: WILL 693	MATERIAL PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS	State: Zip:			
Project Location:		*	er i Perspirità consulter cultura cultura		
Sampler Name: Josh Holdonb		Fax 华:	of the physical substitute program		
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Date of the second seco	Received By:	Ph	ult: 🗆 Yes	No	
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