

Table 910-1		<div> <div>PIONEER</div> <div>NATURAL RESOURCES</div> </div>					
CONCENTRATION LEVELS		Ebudd 24-33 spill sample date: 3/1/16					
Contaminant of Concern	Concentrations	Units	EBUDD24-33GS ABOVE CULVERT	EBUDD24-33GS BELOW CULVERT	EBUDD24-33GS NATIVE EAST	EBUDD24-33GS BELOW PIPELINE	EBUDD24-33GS NATIVE WEST
Inorganics in Soils							
Electrical Conductivity (EC)	<4000 or 2x background	umhos/cm	887	912	616	738	238
Sodium Adsorption Ratio (SAR)	<12	NA	ND	2.77	ND	2.88	ND
pH	6.0-9.0	NA	8.01	8.27	7.72	8.05	7.29

SOIL SAMPLING FIELD FORM

Date/Time: 3/1/16 1138

Sampler: AC

Weather Conditions: 50° AC

Location Name: E. Budd 24-33 GS

Sample Suite: EC OH SAR

Field GPS (NAD 83)

~~Pit~~ Coordinates: ^{Above Chart} Lat: 37.29469 Long: 104.68606

Approx. Elevation: 7190'

Below Culvert
Other Coordinates: Lat: 37.29489 Long: 104.68581

Approx. Elevation: 7222'

~~North~~ Coordinates: Lat: 37.29549 Long: 104.68807

Approx. Elevation: 7255'

East Coordinates: Lat: 37.29503 Long: 104.68620

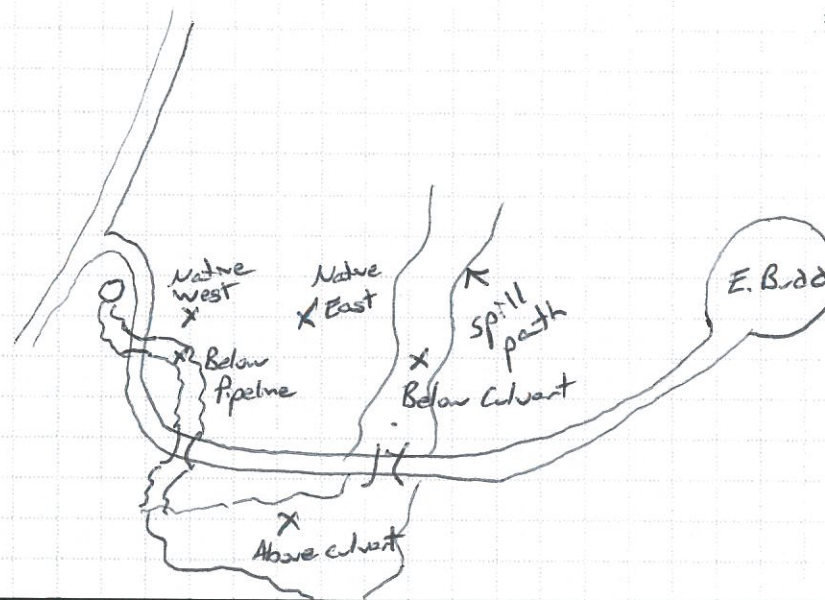
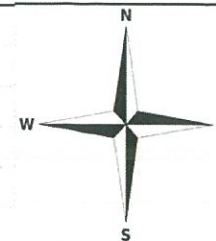
Approx. Elevation: 7177'

South Coordinates: Lat: _____ **Long:** _____

Approx. Elevation:

West Coordinates: Lat: 37.29559 Long: 104.68804

Approx. Elevation: 7272'



Notes/ Deviations:

[illegible]

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: SAR

TestAmerica Job ID: 280-80300-1

Client Sample ID: EBUDD24-33GS ABOVE CULVERT

Lab Sample ID: 280-80300-1

Date Collected: 03/01/16 11:38

Matrix: Solid

Date Received: 03/02/16 09:35

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	ND		1.20		No Unit		03/04/16 21:35	03/11/16 09:28	10
Sodium	26.4		10.0		mg/Kg		03/04/16 21:35	03/11/16 09:28	10
Calcium	31.4		2.00		mg/Kg		03/04/16 21:35	03/11/16 09:28	10
Magnesium	8.83		2.00		mg/Kg		03/04/16 21:35	03/11/16 09:28	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.6		0.1		%			03/03/16 15:17	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.01		0.100		SU		03/12/16 10:12	03/15/16 16:36	1
Specific Conductance (25C)	887		10.0		umhos/cm		03/12/16 10:12	03/16/16 19:18	1

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: SAR

TestAmerica Job ID: 280-80300-1

Client Sample ID: EBUDD24-33GS BELOW CULVERT

Lab Sample ID: 280-80300-2

Date Collected: 03/01/16 11:48

Matrix: Solid

Date Received: 03/02/16 09:35

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	2.77		1.20		No Unit		03/04/16 21:35	03/11/16 09:28	10
Sodium	66.3		10.0		mg/Kg		03/04/16 21:35	03/11/16 09:28	10
Calcium	33.0		2.00		mg/Kg		03/04/16 21:35	03/11/16 09:28	10
Magnesium	6.33		2.00		mg/Kg		03/04/16 21:35	03/11/16 09:28	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.5		0.1		%			03/03/16 15:17	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.27		0.100		SU		03/12/16 10:12	03/15/16 16:36	1
Specific Conductance (25C)	912		10.0		umhos/cm		03/12/16 10:12	03/16/16 19:18	1

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: SAR

TestAmerica Job ID: 280-80300-1

Client Sample ID: EBUDD24-33GS NATIVE EAST

Lab Sample ID: 280-80300-3

Date Collected: 03/01/16 11:52

Matrix: Solid

Date Received: 03/02/16 09:35

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	ND		1.20		No Unit		03/04/16 21:35	03/11/16 09:28	10
Sodium	ND		10.0		mg/Kg		03/04/16 21:35	03/11/16 09:28	10
Calcium	26.0		2.00		mg/Kg		03/04/16 21:35	03/11/16 09:28	10
Magnesium	13.7		2.00		mg/Kg		03/04/16 21:35	03/11/16 09:28	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.4		0.1		%			03/03/16 15:17	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.72		0.100		SU		03/12/16 10:12	03/15/16 16:36	1
Specific Conductance (25C)	616		10.0		umhos/cm		03/12/16 10:12	03/16/16 19:18	1

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: SAR

TestAmerica Job ID: 280-80300-1

Client Sample ID: EBUDD24-33GS BELOW PIPELINE

Lab Sample ID: 280-80300-4

Date Collected: 03/01/16 11:58

Matrix: Solid

Date Received: 03/02/16 09:35

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	2.88		1.20		No Unit		03/04/16 21:35	03/11/16 09:28	10
Sodium	282		10.0		mg/Kg		03/04/16 21:35	03/11/16 09:28	10
Calcium	215		2.00		mg/Kg		03/04/16 21:35	03/11/16 09:28	10
Magnesium	310		2.00		mg/Kg		03/04/16 21:35	03/11/16 09:28	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.0		0.1		%			03/03/16 15:17	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.05		0.100		SU		03/12/16 10:12	03/15/16 16:36	1
Specific Conductance (25C)	738		10.0		umhos/cm		03/12/16 10:12	03/16/16 19:18	1

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: SAR

TestAmerica Job ID: 280-80300-1

Client Sample ID: EBUDD24-33GS NATIVE WEST

Lab Sample ID: 280-80300-5

Date Collected: 03/01/16 12:00

Matrix: Solid

Date Received: 03/02/16 09:35

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	ND		1.20		No Unit		03/04/16 21:35	03/11/16 09:28	10
Sodium	ND		10.0		mg/Kg		03/04/16 21:35	03/11/16 09:28	10
Calcium	8.82		2.00		mg/Kg		03/04/16 21:35	03/11/16 09:28	10
Magnesium	3.94		2.00		mg/Kg		03/04/16 21:35	03/11/16 09:28	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.4		0.1		%			03/03/16 15:17	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.29		0.100		SU		03/12/16 10:12	03/15/16 16:36	1
Specific Conductance (25C)	238		10.0		umhos/cm		03/12/16 10:12	03/16/16 19:18	1