

## Client Sample Results

Client: Pioneer Natural Resources USA, Inc.  
Project/Site: Soil Testing Suite

received 10/30/2014  
REM 8734  
Pit Facility 257680  
DOC 2142434

**Client Sample ID: AlbertSquirrel42-11Offsite-TopOfPit**

**Lab Sample ID: 280-57686-4**

**Date Collected: 07/11/14 13:31**

**Matrix: Solid**

**Date Received: 07/12/14 09:10**

### Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	ND		1.2		No Unit		07/17/14 09:57	07/24/14 17:51	10

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.6		0.099		mg/Kg	☼	07/16/14 08:00	07/17/14 00:54	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.1		0.10		%			07/15/14 13:28	1

### General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.44		0.100		SU			07/17/14 15:02	1
Specific Conductance	290		20		umhos/cm			07/17/14 15:00	1

# Client Sample Results

Client: Pioneer Natural Resources USA, Inc.  
Project/Site: Soil Testing Suite

TestAmerica Job ID: 280-57686-1

**Client Sample ID: AlbertSquirrel42-11Offsite-BottomOfPit**

**Lab Sample ID: 280-57686-5**

**Date Collected: 07/11/14 13:35**

**Matrix: Solid**

**Date Received: 07/12/14 09:10**

**Percent Solids: 95.8**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg	☼	07/16/14 17:00	07/16/14 21:14	1
Ethylbenzene	ND		5.0		ug/Kg	☼	07/16/14 17:00	07/16/14 21:14	1
Toluene	ND		5.0		ug/Kg	☼	07/16/14 17:00	07/16/14 21:14	1
Xylenes, Total	ND		5.0		ug/Kg	☼	07/16/14 17:00	07/16/14 21:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		58 - 140	07/16/14 17:00	07/16/14 21:14	1
Toluene-d8 (Surr)	105		80 - 126	07/16/14 17:00	07/16/14 21:14	1
4-Bromofluorobenzene (Surr)	98		76 - 127	07/16/14 17:00	07/16/14 21:14	1
Dibromofluoromethane (Surr)	99		75 - 121	07/16/14 17:00	07/16/14 21:14	1

## Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		1.2		mg/Kg	☼	07/18/14 11:05	07/18/14 16:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	97		77 - 123	07/18/14 11:05	07/18/14 16:03	1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		3.9		mg/Kg	☼	07/15/14 14:39	07/18/14 06:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	79		49 - 115	07/15/14 14:39	07/18/14 06:45	1

## Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	ND		1.2		No Unit	—	07/17/14 09:57	07/24/14 17:53	10

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	160		0.89		mg/Kg	☼	07/15/14 14:50	07/18/14 23:18	1
Boron	ND		8.9		mg/Kg	☼	07/15/14 14:50	07/18/14 23:18	1
Cadmium	ND		0.45		mg/Kg	☼	07/15/14 14:50	07/18/14 23:18	1
Calcium	5500		45		mg/Kg	☼	07/15/14 14:50	07/18/14 23:18	1
Magnesium	2900		18		mg/Kg	☼	07/15/14 14:50	07/18/14 23:18	1
Molybdenum	ND		1.8		mg/Kg	☼	07/15/14 14:50	07/18/14 23:18	1
Silver	ND		0.89		mg/Kg	☼	07/15/14 14:50	07/18/14 23:18	1
Sodium	ND		450		mg/Kg	☼	07/15/14 14:50	07/18/14 23:18	1

## Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.5		0.096		mg/Kg	☼	07/14/14 15:10	07/15/14 00:31	1
Chromium	11		0.19		mg/Kg	☼	07/14/14 15:10	07/15/14 00:31	1
Copper	18		0.24		mg/Kg	☼	07/14/14 15:10	07/15/14 00:31	1
Lead	13		0.096		mg/Kg	☼	07/14/14 15:10	07/15/14 00:31	1
Nickel	12		0.14		mg/Kg	☼	07/14/14 15:10	07/15/14 00:31	1
Selenium	1.5		0.19		mg/Kg	☼	07/14/14 15:10	07/15/14 00:31	1
Zinc	54		0.96		mg/Kg	☼	07/14/14 15:10	07/15/14 00:31	1

TestAmerica Denver

# Client Sample Results

Client: Pioneer Natural Resources USA, Inc.  
Project/Site: Soil Testing Suite

TestAmerica Job ID: 280-57686-1

**Client Sample ID: AlbertSquirrel42-11Offsite-BottomOfPit**

**Lab Sample ID: 280-57686-5**

**Date Collected: 07/11/14 13:35**

**Matrix: Solid**

**Date Received: 07/12/14 09:10**

**Percent Solids: 95.8**

## Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		17		ug/Kg	☼	07/16/14 10:00	07/16/14 14:09	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.2		0.10		%	—		07/14/14 13:07	1

## General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.76		0.100		SU	—		07/17/14 15:02	1
Specific Conductance	350		20		umhos/cm	—		07/17/14 15:00	1

# Client Sample Results

Client: Pioneer Natural Resources USA, Inc.  
Project/Site: Soil Testing Suite

TestAmerica Job ID: 280-57686-1

**Client Sample ID: AlbertSquirrel42-11Offsite-NativeNorth**

**Lab Sample ID: 280-57686-6**

**Date Collected: 07/11/14 13:36**

**Matrix: Solid**

**Date Received: 07/12/14 09:10**

**Percent Solids: 96.8**

## Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.9		0.094		mg/Kg	☆	07/16/14 08:00	07/17/14 01:19	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.2		0.10		%			07/15/14 13:28	1

## Client Sample Results

Client: Pioneer Natural Resources USA, Inc.  
Project/Site: Soil Testing Suite

TestAmerica Job ID: 280-57686-1

**Client Sample ID: AlbertSquirrel42-11Offsite-NativeEast**

**Lab Sample ID: 280-57686-7**

**Date Collected: 07/11/14 13:38**

**Matrix: Solid**

**Date Received: 07/12/14 09:10**

**Percent Solids: 98.8**

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.1		0.097		mg/Kg	☆	07/16/14 08:00	07/17/14 01:23	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.2		0.10		%			07/15/14 13:28	1

## Client Sample Results

Client: Pioneer Natural Resources USA, Inc.  
Project/Site: Soil Testing Suite

TestAmerica Job ID: 280-57686-1

**Client Sample ID: AlbertSquirrel42-11Offsite-NativeSouth**

**Lab Sample ID: 280-57686-8**

**Date Collected: 07/11/14 13:40**

**Matrix: Solid**

**Date Received: 07/12/14 09:10**

**Percent Solids: 96.4**

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.3		0.10		mg/Kg	☆	07/16/14 08:00	07/17/14 01:26	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.6		0.10		%			07/15/14 13:28	1

## Client Sample Results

Client: Pioneer Natural Resources USA, Inc.  
Project/Site: Soil Testing Suite

TestAmerica Job ID: 280-57686-1

**Client Sample ID: AlbertSquirrel42-11Offsite-NativeWest**

**Lab Sample ID: 280-57686-9**

**Date Collected: 07/11/14 13:42**

**Matrix: Solid**

**Date Received: 07/12/14 09:10**

**Percent Solids: 97.3**

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.2		0.10		mg/Kg	☆	07/16/14 08:00	07/17/14 01:30	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.7		0.10		%			07/15/14 13:28	1