

Client Sample Results

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

received 10/30/2014
REM 8736
Pit Facility 257208
DOC 2142402

Client Sample ID: ANTELOPE 13-32 OFFSITE PIT NATIVE NORTH

Lab Sample ID: 280-60484-1

Date Collected: 09/24/14 12:08

Matrix: Solid

Date Received: 09/27/14 09:30

Percent Solids: 65.3

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2		0.14		mg/Kg	☼	09/30/14 07:30	09/30/14 19:50	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	35		0.10		%			09/29/14 13:59	1

Client Sample Results

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

TestAmerica Job ID: 280-60484-1

Client Sample ID: ANTELOPE 13-32 OFFSITE PIT NATIVE EAST

Lab Sample ID: 280-60484-2

Date Collected: 09/24/14 12:14

Matrix: Solid

Date Received: 09/27/14 09:30

Percent Solids: 88.7

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.9		0.11		mg/Kg	☼	09/30/14 07:30	09/30/14 19:53	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11		0.10		%			09/29/14 13:59	1

Client Sample Results

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

TestAmerica Job ID: 280-60484-1

**Client Sample ID: ANTELOPE 13-32 OFFSITE PIT NATIVE
SOUTH**

Lab Sample ID: 280-60484-3

Date Collected: 09/24/14 12:28

Matrix: Solid

Date Received: 09/27/14 09:30

Percent Solids: 86.9

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.1		0.10		mg/Kg	☼	09/30/14 07:30	09/30/14 19:56	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		0.10		%			09/29/14 13:59	1

Client Sample Results

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

TestAmerica Job ID: 280-60484-1

Client Sample ID: ANTELOPE 13-32 OFFSITE PIT NATIVE

Lab Sample ID: 280-60484-4

WEST

Date Collected: 09/24/14 12:32

Matrix: Solid

Date Received: 09/27/14 09:30

Percent Solids: 78.8

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.8		0.12		mg/Kg	☼	09/30/14 07:30	09/30/14 20:00	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		0.10		%			09/29/14 13:59	1

Client Sample Results

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

TestAmerica Job ID: 280-60484-1

Client Sample ID: ANTELOPE 13-32 OFFSITE PIT TOP OF PIT

Lab Sample ID: 280-60484-5

Date Collected: 09/24/14 12:50

Matrix: Solid

Date Received: 09/27/14 09:30

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		10/02/14 16:30	10/05/14 14:35	10

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.1		0.092		mg/Kg	☼	09/30/14 07:30	09/30/14 20:03	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.8		0.10		%			09/29/14 13:59	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.93		0.100		SU			10/01/14 16:48	1
Specific Conductance	30	B	2.0		umhos/cm			10/01/14 14:23	1

TestAmerica Denver

Client Sample Results

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

TestAmerica Job ID: 280-60484-1

Client Sample ID: ANTELOPE 13-32 OFFSITE PIT BOTTOM OF PIT

Lab Sample ID: 280-60484-6

Date Collected: 09/24/14 12:55

Matrix: Solid

Date Received: 09/27/14 09:30

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.0		ug/Kg	☼	10/06/14 15:00	10/06/14 20:26	1
Ethylbenzene	ND		6.0		ug/Kg	☼	10/06/14 15:00	10/06/14 20:26	1
Toluene	ND		6.0		ug/Kg	☼	10/06/14 15:00	10/06/14 20:26	1
Xylenes, Total	ND		6.0		ug/Kg	☼	10/06/14 15:00	10/06/14 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		58 - 140	10/06/14 15:00	10/06/14 20:26	1
Toluene-d8 (Surr)	112		80 - 126	10/06/14 15:00	10/06/14 20:26	1
4-Bromofluorobenzene (Surr)	132	X	76 - 127	10/06/14 15:00	10/06/14 20:26	1
Dibromofluoromethane (Surr)	91		75 - 121	10/06/14 15:00	10/06/14 20:26	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		1.6		mg/Kg	☼	10/03/14 14:53	10/07/14 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		77 - 123	10/03/14 14:53	10/07/14 12:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	37		4.9		mg/Kg	☼	09/29/14 15:35	10/02/14 12:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	76		49 - 115	09/29/14 15:35	10/02/14 12:41	1

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	78		1.2		No Unit		10/02/14 16:30	10/05/14 14:38	10

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	710		1.1		mg/Kg	☼	09/30/14 07:30	09/30/14 23:27	1
Boron	ND	^	11		mg/Kg	☼	09/30/14 07:30	09/30/14 23:27	1
Cadmium	ND		0.55		mg/Kg	☼	09/30/14 07:30	09/30/14 23:27	1
Calcium	4100		55		mg/Kg	☼	09/30/14 07:30	09/30/14 23:27	1
Magnesium	3200		22		mg/Kg	☼	09/30/14 07:30	09/30/14 23:27	1
Molybdenum	ND		2.2		mg/Kg	☼	09/30/14 07:30	09/30/14 23:27	1
Silver	ND		1.1		mg/Kg	☼	09/30/14 07:30	09/30/14 23:27	1
Sodium	5500		550		mg/Kg	☼	09/30/14 07:30	09/30/14 23:27	1

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.8		0.11		mg/Kg	☼	09/30/14 07:30	09/30/14 20:12	1
Chromium	12		0.23		mg/Kg	☼	09/30/14 07:30	09/30/14 20:12	1
Copper	32		0.28		mg/Kg	☼	09/30/14 07:30	09/30/14 20:12	1
Lead	20		0.11		mg/Kg	☼	09/30/14 07:30	09/30/14 20:12	1
Nickel	17		0.17		mg/Kg	☼	09/30/14 07:30	09/30/14 20:12	1
Selenium	2.1		0.23		mg/Kg	☼	09/30/14 07:30	09/30/14 20:12	1
Zinc	97		1.1		mg/Kg	☼	09/30/14 07:30	09/30/14 20:12	1

TestAmerica Denver

Client Sample Results

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

TestAmerica Job ID: 280-60484-1

Client Sample ID: ANTELOPE 13-32 OFFSITE PIT BOTTOM OF PIT

Lab Sample ID: 280-60484-6

Date Collected: 09/24/14 12:55

Matrix: Solid

Date Received: 09/27/14 09:30

Percent Solids: 80.2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	35		22		ug/Kg	☼	10/07/14 14:05	10/07/14 18:35	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20		0.10		%	—		09/29/14 13:59	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.41		0.100		SU	—		10/01/14 16:48	1
Specific Conductance	870	B	2.0		umhos/cm	—		10/01/14 14:23	1