

Client Sample Results

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

received 12/06/2012
Project 7544
Remediation 200374883

280-36229-1

Client Sample ID: STRING CHEESE 33-34 NATIVE NORTH

Lab Sample ID: 280-36229-1

Date Collected: 11/20/12 09:50

Matrix: Solid

Date Received: 11/21/12 10:00

Percent Solids: 96.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.1		0.093		mg/Kg	☆	11/26/12 14:00	11/27/12 07:19	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.9		0.10		%			11/23/12 08:43	1

Client Sample Results

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

TestAmerica Job ID: 280-36229-1

Client Sample ID: STRING CHEESE 33-34 NATIVE WEST

Lab Sample ID: 280-36229-2

Date Collected: 11/20/12 09:55

Matrix: Solid

Date Received: 11/21/12 10:00

Percent Solids: 92.5

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.4		0.10		mg/Kg	☼	11/26/12 14:00	11/27/12 07:34	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.5		0.10		%			11/23/12 08:43	1

Client Sample Results

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

TestAmerica Job ID: 280-36229-1

Client Sample ID: STRING CHEESE 33-34 NATIVE SOUTH

Lab Sample ID: 280-36229-3

Date Collected: 11/20/12 09:59

Matrix: Solid

Date Received: 11/21/12 10:00

Percent Solids: 95.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.4		0.096		mg/Kg	☼	11/26/12 14:00	11/27/12 07:37	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.2		0.10		%			11/23/12 08:43	1

Client Sample Results

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

TestAmerica Job ID: 280-36229-1

Client Sample ID: STRING CHEESE 33-34 NATIVE EAST

Lab Sample ID: 280-36229-4

Date Collected: 11/20/12 10:04

Matrix: Solid

Date Received: 11/21/12 10:00

Percent Solids: 95.5

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0		0.097		mg/Kg	☼	11/26/12 14:00	11/27/12 07:40	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.5		0.10		%			11/23/12 08:43	1

Client Sample Results

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

TestAmerica Job ID: 280-36229-1

Client Sample ID: STRING CHEESE 33-34 TOP OF PIT

Lab Sample ID: 280-36229-5

Date Collected: 11/20/12 10:09

Matrix: Solid

Date Received: 11/21/12 10:00

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	1.7		1.2		No Unit		12/03/12 09:15	12/04/12 13:52	10

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.5		0.092		mg/Kg	☼	11/26/12 14:00	11/27/12 07:48	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.0		0.10		%			11/23/12 08:43	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.87		0.100		SU			12/01/12 11:40	1
Specific Conductance	65		2.0		umhos/cm			11/23/12 14:07	1

TestAmerica Denver

Client Sample Results

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

TestAmerica Job ID: 280-36229-1

Client Sample ID: STRING CHEESE 33-34 BOTTOM OF PIT

Lab Sample ID: 280-36229-6

Date Collected: 11/20/12 10:15

Matrix: Solid

Date Received: 11/21/12 10:00

Percent Solids: 69.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.1		ug/Kg	☼	11/27/12 06:00	11/27/12 08:59	1
Ethylbenzene	ND		6.1		ug/Kg	☼	11/27/12 06:00	11/27/12 08:59	1
Toluene	ND		6.1		ug/Kg	☼	11/27/12 06:00	11/27/12 08:59	1
Xylenes, Total	ND		6.1		ug/Kg	☼	11/27/12 06:00	11/27/12 08:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		58 - 140	11/27/12 06:00	11/27/12 08:59	1
Toluene-d8 (Surr)	101		80 - 126	11/27/12 06:00	11/27/12 08:59	1
4-Bromofluorobenzene (Surr)	117		76 - 127	11/27/12 06:00	11/27/12 08:59	1
Dibromofluoromethane (Surr)	111		75 - 121	11/27/12 06:00	11/27/12 08:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	1.9		1.7		mg/Kg	☼	11/27/12 11:39	11/28/12 06:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		77 - 123	11/27/12 11:39	11/28/12 06:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	200		5.6		mg/Kg	☼	11/28/12 11:09	11/30/12 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	78		49 - 115	11/28/12 11:09	11/30/12 03:05	1

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	34		1.2		No Unit		12/03/12 09:15	12/04/12 13:57	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	95		1.4		mg/Kg	☼	11/29/12 14:00	11/30/12 23:17	1
Boron	ND		14		mg/Kg	☼	11/29/12 14:00	11/30/12 23:17	1
Cadmium	ND		0.72		mg/Kg	☼	11/29/12 14:00	11/30/12 23:17	1
Calcium	9100		72		mg/Kg	☼	11/29/12 14:00	11/30/12 23:17	1
Magnesium	1600		29		mg/Kg	☼	11/29/12 14:00	11/30/12 23:17	1
Molybdenum	ND		2.9		mg/Kg	☼	11/29/12 14:00	11/30/12 23:17	1
Silver	ND		1.4		mg/Kg	☼	11/29/12 14:00	11/30/12 23:17	1
Sodium	1400		720		mg/Kg	☼	11/29/12 14:00	12/03/12 18:46	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.3		0.14		mg/Kg	☼	11/26/12 14:00	11/27/12 07:51	1
Chromium	8.3		0.29		mg/Kg	☼	11/26/12 14:00	11/27/12 07:51	1
Copper	13		0.36		mg/Kg	☼	11/26/12 14:00	11/27/12 07:51	1
Lead	8.2		0.14		mg/Kg	☼	11/26/12 14:00	11/27/12 07:51	1
Nickel	7.2		0.22		mg/Kg	☼	11/26/12 14:00	11/27/12 07:51	1
Selenium	0.67		0.29		mg/Kg	☼	11/26/12 14:00	11/27/12 07:51	1
Zinc	22		1.4		mg/Kg	☼	11/26/12 14:00	11/27/12 07:51	1

TestAmerica Denver

Client Sample Results

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

TestAmerica Job ID: 280-36229-1

Client Sample ID: STRING CHEESE 33-34 BOTTOM OF PIT

Lab Sample ID: 280-36229-6

Date Collected: 11/20/12 10:15

Matrix: Solid

Date Received: 11/21/12 10:00

Percent Solids: 69.8

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		24		ug/Kg	☼	12/03/12 13:50	12/03/12 21:47	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	30		0.10		%	—		11/23/12 08:43	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	9.42		0.100		SU	—		12/01/12 11:38	1
Specific Conductance	220		2.0		umhos/cm	—		11/23/12 14:07	1