

Client Sample Results

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

received 08/06/2014
Project 8578
Doc #1733869

merica Job ID: 280-57798-1

Client Sample ID: LORENCITO 16-21-34-66 NATIVE NORTH

Date Collected: 07/15/14 12:34

Date Received: 07/16/14 09:30

Sample ID: 280-57798-7

Matrix: Solid

Percent Solids: 90.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.5		0.10		mg/Kg	☆	07/17/14 14:50	07/17/14 23:13	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.9		0.10		%			07/18/14 13:28	1

Client Sample Results

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

TestAmerica Job ID: 280-57798-1

Client Sample ID: LORENCITO 16-21-34-66 NATIVE EAST

Lab Sample ID: 280-57798-8

Date Collected: 07/15/14 12:40

Matrix: Solid

Date Received: 07/16/14 09:30

Percent Solids: 92.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0		0.099		mg/Kg	☼	07/17/14 14:50	07/17/14 23:16	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.9		0.10		%			07/18/14 13:28	1

Client Sample Results

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

TestAmerica Job ID: 280-57798-1

Client Sample ID: LORENCITO 16-21-34-66 NATIVE SOUTH

Lab Sample ID: 280-57798-9

Date Collected: 07/15/14 12:45

Matrix: Solid

Date Received: 07/16/14 09:30

Percent Solids: 87.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.6		0.11		mg/Kg	☆	07/17/14 14:50	07/17/14 23:19	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12		0.10		%			07/18/14 13:28	1

Client Sample Results

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

TestAmerica Job ID: 280-57798-1

Client Sample ID: LORENCITO 16-21-34-66 NATIVE WEST

Lab Sample ID: 280-57798-10

Date Collected: 07/15/14 12:50

Matrix: Solid

Date Received: 07/16/14 09:30

Percent Solids: 87.7

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0		0.10		mg/Kg	☼	07/17/14 14:50	07/17/14 23:22	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12		0.10		%	—		07/18/14 13:28	1

Client Sample Results

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

TestAmerica Job ID: 280-57798-1

Client Sample ID: LORENCITO 16-21-34-66 OFFSITE TOP OF PIT

Lab Sample ID: 280-57798-11

Date Collected: 07/15/14 12:55

Matrix: Solid

Date Received: 07/16/14 09:30

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	5.0		1.2		No Unit		07/17/14 09:57	07/24/14 18:32	10

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.6		0.11		mg/Kg	☼	07/17/14 14:50	07/17/14 23:25	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.8		0.10		%			07/18/14 13:28	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.11		0.100		SU			07/22/14 15:46	1
Specific Conductance	530		20		umhos/cm			07/23/14 13:43	1

Client Sample Results

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

TestAmerica Job ID: 280-57798-1

Client Sample ID: LORENCITO 16-21-34-66 OFFSITE BOTTOM OF PIT

Lab Sample ID: 280-57798-12

Date Collected: 07/15/14 13:00

Matrix: Solid

Date Received: 07/16/14 09:30

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.4		ug/Kg	☼	07/21/14 19:00	07/22/14 03:47	1
Ethylbenzene	ND		6.4		ug/Kg	☼	07/21/14 19:00	07/22/14 03:47	1
Toluene	ND		6.4		ug/Kg	☼	07/21/14 19:00	07/22/14 03:47	1
Xylenes, Total	ND		6.4		ug/Kg	☼	07/21/14 19:00	07/22/14 03:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	72		58 - 140	07/21/14 19:00	07/22/14 03:47	1
Toluene-d8 (Surr)	109		80 - 126	07/21/14 19:00	07/22/14 03:47	1
4-Bromofluorobenzene (Surr)	103		76 - 127	07/21/14 19:00	07/22/14 03:47	1
Dibromofluoromethane (Surr)	92		75 - 121	07/21/14 19:00	07/22/14 03:47	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		1.4		mg/Kg	☼	07/18/14 11:05	07/18/14 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		77 - 123	07/18/14 11:05	07/18/14 20:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	6.4		4.5		mg/Kg	☼	07/18/14 11:21	07/22/14 23:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	87		49 - 115	07/18/14 11:21	07/22/14 23:11	1

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	170		1.2		No Unit		07/17/14 09:59	07/24/14 18:38	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	210		1.1		mg/Kg	☼	07/17/14 14:50	07/23/14 19:14	1
Boron	ND		11		mg/Kg	☼	07/17/14 14:50	07/23/14 19:14	1
Cadmium	ND		0.56		mg/Kg	☼	07/17/14 14:50	07/23/14 19:14	1
Calcium	5300		56		mg/Kg	☼	07/17/14 14:50	07/23/14 19:14	1
Magnesium	2600		22		mg/Kg	☼	07/17/14 14:50	07/23/14 19:14	1
Molybdenum	ND		2.2		mg/Kg	☼	07/17/14 14:50	07/23/14 19:14	1
Silver	ND		1.1		mg/Kg	☼	07/17/14 14:50	07/23/14 19:14	1
Sodium	5900		560		mg/Kg	☼	07/17/14 14:50	07/23/14 19:14	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0		0.11		mg/Kg	☼	07/17/14 14:50	07/17/14 23:28	1
Chromium	28		0.22		mg/Kg	☼	07/17/14 14:50	07/17/14 23:28	1
Copper	36		0.27		mg/Kg	☼	07/17/14 14:50	07/17/14 23:28	1
Lead	14		0.11		mg/Kg	☼	07/17/14 14:50	07/17/14 23:28	1
Nickel	19		0.16		mg/Kg	☼	07/17/14 14:50	07/17/14 23:28	1
Selenium	2.8		0.22		mg/Kg	☼	07/17/14 14:50	07/17/14 23:28	1
Zinc	90		1.1		mg/Kg	☼	07/17/14 14:50	07/17/14 23:28	1

TestAmerica Denver

Client Sample Results

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

TestAmerica Job ID: 280-57798-1

Client Sample ID: LORENCITO 16-21-34-66 OFFSITE BOTTOM OF PIT

Lab Sample ID: 280-57798-12

Date Collected: 07/15/14 13:00

Matrix: Solid

Date Received: 07/16/14 09:30

Percent Solids: 88.0

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	56		18		ug/Kg	☼	07/18/14 10:00	07/18/14 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.45		mg/Kg	☼	07/28/14 09:38	07/29/14 17:51	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	28		2.0		mg/Kg			08/05/14 12:43	1
Percent Moisture	12		0.10		%			07/18/14 11:17	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.71		0.100		SU			07/22/14 15:46	1
Specific Conductance	6200		20		umhos/cm			07/23/14 13:43	1