

Client Sample Result

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

received 07/30/2015
Project 9206
Remediation 200436367

D: 280-69419-1

Client Sample ID: FLYING HORSE 12-11 NATIVE NORTH

Lab Sample ID: 280-69419-13

Date Collected: 05/13/15 12:06

Matrix: Solid

Date Received: 05/15/15 09:40

Percent Solids: 77.2

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.54		0.12		mg/Kg	☼	05/19/15 15:15	05/20/15 14:12	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		0.10		%			05/19/15 17:40	1

Client Sample Results

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

TestAmerica Job ID: 280-69419-1

Client Sample ID: FLYING HORSE 12-11 NATIVE EAST

Lab Sample ID: 280-69419-14

Date Collected: 05/13/15 12:10

Matrix: Solid

Date Received: 05/15/15 09:40

Percent Solids: 85.4

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.4		0.12		mg/Kg	☼	05/19/15 15:15	05/20/15 14:15	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15		0.10		%	—		05/19/15 17:40	1

Client Sample Results

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

TestAmerica Job ID: 280-69419-1

Client Sample ID: FLYING HORSE 12-11 NATIVE SOUTH

Lab Sample ID: 280-69419-15

Date Collected: 05/13/15 12:15

Matrix: Solid

Date Received: 05/15/15 09:40

Percent Solids: 88.9

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.90		0.099		mg/Kg	☼	05/19/15 15:15	05/20/15 14:19	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11		0.10		%	—		05/19/15 17:40	1

Client Sample Results

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

TestAmerica Job ID: 280-69419-1

Client Sample ID: FLYING HORSE 12-11 NATIVE WEST

Lab Sample ID: 280-69419-16

Date Collected: 05/13/15 12:20

Matrix: Solid

Date Received: 05/15/15 09:40

Percent Solids: 81.9

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.1		0.12		mg/Kg	☼	05/19/15 15:15	05/20/15 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18		0.10		%	—		05/19/15 17:40	1

Client Sample Results

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

TestAmerica Job ID: 280-69419-1

Client Sample ID: FLYING HORSE 12-11 TOP OF PIT

Lab Sample ID: 280-69419-17

Date Collected: 05/13/15 12:30

Matrix: Solid

Date Received: 05/15/15 09:40

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	5.6		1.2		No Unit		05/19/15 17:49	05/22/15 19:16	10

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.12		mg/Kg	☼	05/19/15 15:15	05/20/15 14:28	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20		0.10		%			05/19/15 17:42	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.33		0.100		SU		05/20/15 13:01	05/23/15 11:26	1
Specific Conductance (25C)	290		10		umhos/cm		05/20/15 13:01	05/23/15 10:26	1

Client Sample Results

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

TestAmerica Job ID: 280-69419-1

Client Sample ID: FLYING HORSE 12-11 BOTTOM OF PIT

Lab Sample ID: 280-69419-18

Date Collected: 05/13/15 12:35

Matrix: Solid

Date Received: 05/15/15 09:40

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		7.1		ug/Kg	☼	05/18/15 17:00	05/19/15 00:02	1
Ethylbenzene	ND		7.1		ug/Kg	☼	05/18/15 17:00	05/19/15 00:02	1
Toluene	ND		7.1		ug/Kg	☼	05/18/15 17:00	05/19/15 00:02	1
Xylenes, Total	ND		7.1		ug/Kg	☼	05/18/15 17:00	05/19/15 00:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		58 - 140	05/18/15 17:00	05/19/15 00:02	1
Toluene-d8 (Surr)	102		80 - 126	05/18/15 17:00	05/19/15 00:02	1
4-Bromofluorobenzene (Surr)	98		76 - 127	05/18/15 17:00	05/19/15 00:02	1
Dibromofluoromethane (Surr)	97		75 - 121	05/18/15 17:00	05/19/15 00:02	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	☼	05/19/15 15:13	05/21/15 06:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		77 - 123	05/19/15 15:13	05/21/15 06:41	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		4.7		mg/Kg	☼	05/21/15 18:38	05/27/15 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	60		49 - 115	05/21/15 18:38	05/27/15 19:53	1

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	7.5		1.2		No Unit		05/19/15 17:49	05/22/15 19:18	10

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	61		1.0		mg/Kg	☼	05/21/15 15:15	05/22/15 01:52	1
Boron	ND		10		mg/Kg	☼	05/21/15 15:15	05/22/15 01:52	1
Cadmium	ND		0.52		mg/Kg	☼	05/21/15 15:15	05/22/15 01:52	1
Calcium	2200		52		mg/Kg	☼	05/21/15 15:15	05/22/15 01:52	1
Magnesium	1300		21		mg/Kg	☼	05/21/15 15:15	05/22/15 01:52	1
Molybdenum	ND		2.1		mg/Kg	☼	05/21/15 15:15	05/22/15 01:52	1
Silver	ND		1.0		mg/Kg	☼	05/21/15 15:15	05/22/15 01:52	1
Sodium	ND	^	520		mg/Kg	☼	05/21/15 15:15	05/22/15 01:52	1

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0		0.12		mg/Kg	☼	05/19/15 15:15	05/20/15 14:31	1
Chromium	10		0.24		mg/Kg	☼	05/19/15 15:15	05/20/15 14:31	1
Copper	9.6		0.30		mg/Kg	☼	05/19/15 15:15	05/20/15 14:31	1
Lead	6.3		0.12		mg/Kg	☼	05/19/15 15:15	05/20/15 14:31	1
Nickel	8.7		0.18		mg/Kg	☼	05/19/15 15:15	05/20/15 14:31	1
Selenium	ND		0.24		mg/Kg	☼	05/19/15 15:15	05/20/15 14:31	1
Zinc	27		1.2		mg/Kg	☼	05/19/15 15:15	05/20/15 14:31	1

TestAmerica Denver

Client Sample Results

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

TestAmerica Job ID: 280-69419-1

Client Sample ID: FLYING HORSE 12-11 BOTTOM OF PIT

Lab Sample ID: 280-69419-18

Date Collected: 05/13/15 12:35

Matrix: Solid

Date Received: 05/15/15 09:40

Percent Solids: 82.7

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		24		ug/Kg	☼	05/28/15 12:00	05/28/15 17:14	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		0.10		%	—		05/19/15 14:43	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.99		0.100		SU	—	05/20/15 13:01	05/23/15 11:26	1
Specific Conductance (25C)	1200		10		umhos/cm	—	05/20/15 13:01	05/23/15 10:26	1