

received 05/21/2014
Project 8458
Remediation 200406280

Client Sample Results

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

TestAmerica Job ID: 280-54943-1

Client Sample ID: FUTURA 32-10 TOP OF PIT
Date Collected: 04/30/14 14:07
Date Received: 05/01/14 09:55

Lab Sample ID: 280-54943-7
Matrix: Solid

Method: 20B - Sodium Adsorption Ratio - Soluble									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	6.0		1.2		No Unit		05/07/14 12:30	05/10/14 00:51	10
Method: 6020 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0		0.098		mg/Kg	☼	05/02/14 07:30	05/02/14 13:35	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11		0.10		%			05/07/14 22:19	1
General Chemistry - Soluble									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.89		0.100		SU			05/02/14 20:12	1
Specific Conductance	21		2.0		umhos/cm			05/06/14 15:55	1

Client Sample Results

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

TestAmerica Job ID: 280-54943-1

Client Sample ID: FUTURA 32-10 BOTTOM OF PIT

Lab Sample ID: 280-54943-8

Date Collected: 04/30/14 14:09

Matrix: Solid

Date Received: 05/01/14 09:55

Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.2		ug/Kg	☼	05/12/14 14:00	05/12/14 21:33	1
Ethylbenzene	ND		6.2		ug/Kg	☼	05/12/14 14:00	05/12/14 21:33	1
Toluene	ND		6.2		ug/Kg	☼	05/12/14 14:00	05/12/14 21:33	1
Xylenes, Total	ND		6.2		ug/Kg	☼	05/12/14 14:00	05/12/14 21:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		58 - 140	05/12/14 14:00	05/12/14 21:33	1
Toluene-d8 (Surr)	109		80 - 126	05/12/14 14:00	05/12/14 21:33	1
4-Bromofluorobenzene (Surr)	105		76 - 127	05/12/14 14:00	05/12/14 21:33	1
Dibromofluoromethane (Surr)	91		75 - 121	05/12/14 14:00	05/12/14 21:33	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		1.5		mg/Kg	☼	05/06/14 12:52	05/07/14 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		77 - 123	05/06/14 12:52	05/07/14 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	20		4.8		mg/Kg	☼	05/05/14 21:10	05/07/14 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	69		49 - 115	05/05/14 21:10	05/07/14 17:32	1

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	23		1.2		No Unit	—	05/07/14 12:30	05/10/14 00:54	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	200		1.1		mg/Kg	☼	05/05/14 07:30	05/07/14 21:36	1
Boron	ND		11		mg/Kg	☼	05/05/14 07:30	05/07/14 01:25	1
Cadmium	ND		0.55		mg/Kg	☼	05/05/14 07:30	05/07/14 01:25	1
Calcium	3700		55		mg/Kg	☼	05/05/14 07:30	05/07/14 21:36	1
Magnesium	3000		22		mg/Kg	☼	05/05/14 07:30	05/07/14 21:36	1
Molybdenum	ND		2.2		mg/Kg	☼	05/05/14 07:30	05/07/14 01:25	1
Silver	ND		1.1		mg/Kg	☼	05/05/14 07:30	05/07/14 01:25	1
Sodium	3300		550		mg/Kg	☼	05/05/14 07:30	05/07/14 21:36	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.5		0.12		mg/Kg	☼	05/02/14 07:30	05/02/14 13:39	1
Chromium	22		0.24		mg/Kg	☼	05/02/14 07:30	05/02/14 13:39	1
Copper	160		0.30		mg/Kg	☼	05/02/14 07:30	05/02/14 13:39	1
Lead	8.7		0.12		mg/Kg	☼	05/02/14 07:30	05/02/14 13:39	1
Nickel	16		0.18		mg/Kg	☼	05/02/14 07:30	05/02/14 13:39	1
Selenium	ND		0.24		mg/Kg	☼	05/02/14 07:30	05/02/14 13:39	1
Zinc	59		1.2		mg/Kg	☼	05/02/14 07:30	05/02/14 13:39	1

TestAmerica Denver

Client Sample Results

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

TestAmerica Job ID: 280-54943-1

Client Sample ID: FUTURA 32-10 BOTTOM OF PIT

Lab Sample ID: 280-54943-8

Date Collected: 04/30/14 14:09

Matrix: Solid

Date Received: 05/01/14 09:55

Percent Solids: 81.1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		23		ug/Kg	☼	05/02/14 14:50	05/03/14 00:54	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		0.10		%	—		05/06/14 15:32	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	9.68		0.100		SU	—		05/02/14 20:12	1
Specific Conductance	310		2.0		umhos/cm	—		05/09/14 18:34	1

Client Sample Results

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

TestAmerica Job ID: 280-54943-1

Client Sample ID: FUTURA 32-10 NATIVE NORTH

Lab Sample ID: 280-54943-9

Date Collected: 04/30/14 14:14

Matrix: Solid

Date Received: 05/01/14 09:55

Percent Solids: 86.6

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.3		0.10		mg/Kg	☼	05/02/14 07:30	05/02/14 13:43	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		0.10		%	—		05/07/14 22:19	1

Client Sample Results

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

TestAmerica Job ID: 280-54943-1

Client Sample ID: FUTURA 32-10 NATIVE EAST

Lab Sample ID: 280-54943-10

Date Collected: 04/30/14 14:16

Matrix: Solid

Date Received: 05/01/14 09:55

Percent Solids: 93.2

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.7		0.098		mg/Kg	☆	05/02/14 07:30	05/02/14 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.8		0.10		%			05/07/14 23:55	1

Client Sample Results

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

TestAmerica Job ID: 280-54943-1

Client Sample ID: FUTURA 32-10 NATIVE SOUTH

Lab Sample ID: 280-54943-11

Date Collected: 04/30/14 14:18

Matrix: Solid

Date Received: 05/01/14 09:55

Percent Solids: 83.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		0.12		mg/Kg	☼	05/02/14 07:30	05/02/14 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		0.10		%	—		05/07/14 23:55	1

Client Sample Results

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

TestAmerica Job ID: 280-54943-1

Client Sample ID: FUTURA 32-10 NATIVE WEST

Lab Sample ID: 280-54943-12

Date Collected: 04/30/14 14:20

Matrix: Solid

Date Received: 05/01/14 09:55

Percent Solids: 91.6

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.3		0.11		mg/Kg	☆	05/02/14 07:30	05/02/14 13:54	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.4		0.10		%			05/07/14 23:55	1