

Client Sample Results

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

received 10/27/2014
REMEDATION 8733
Pit Facility 291901
DOC 2142405

Client Sample ID: SILLA 23-16 NATIVE NORTH

Lab Sample ID: 280-61258-1

Date Collected: 10/14/14 13:24

Matrix: Solid

Date Received: 10/15/14 09:50

Percent Solids: 81.7

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.6		0.11		mg/Kg	☆	10/16/14 08:30	10/20/14 15:15	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18		0.10		%			10/16/14 09:41	1

Client Sample Results

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

TestAmerica Job ID: 280-61258-1

Client Sample ID: SILLA 23-16 NATIVE EAST

Lab Sample ID: 280-61258-2

Date Collected: 10/14/14 13:29

Matrix: Solid

Date Received: 10/15/14 09:50

Percent Solids: 84.3

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.2		0.11		mg/Kg	☼	10/16/14 08:30	10/20/14 15:18	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		0.10		%	—		10/16/14 09:41	1

Client Sample Results

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

TestAmerica Job ID: 280-61258-1

Client Sample ID: SILLA 23-16 NATIVE SOUTH

Lab Sample ID: 280-61258-3

Date Collected: 10/14/14 13:34

Matrix: Solid

Date Received: 10/15/14 09:50

Percent Solids: 91.9

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		0.11		mg/Kg	☼	10/16/14 08:30	10/20/14 15:22	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.1		0.10		%	—		10/16/14 09:41	1

Client Sample Results

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

TestAmerica Job ID: 280-61258-1

Client Sample ID: SILLA 23-16 NATIVE WEST

Lab Sample ID: 280-61258-4

Date Collected: 10/14/14 13:41

Matrix: Solid

Date Received: 10/15/14 09:50

Percent Solids: 72.0

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.0		0.13		mg/Kg	☼	10/16/14 08:30	10/20/14 15:26	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28		0.10		%	—		10/16/14 09:41	1

Client Sample Results

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

TestAmerica Job ID: 280-61258-1

Client Sample ID: SILLA 23-16 TOP OF PIT

Lab Sample ID: 280-61258-5

Date Collected: 10/14/14 13:47

Matrix: Solid

Date Received: 10/15/14 09:50

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	1.6		1.2		No Unit		10/15/14 18:15	10/20/14 11:28	10

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		0.10		mg/Kg	☼	10/16/14 08:30	10/20/14 15:29	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11		0.10		%			10/16/14 09:41	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.29		0.100		SU			10/21/14 19:49	1
Specific Conductance	550		20		umhos/cm			10/22/14 16:16	1

Client Sample Results

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

TestAmerica Job ID: 280-61258-1

Client Sample ID: SILLA 23-16 BOTTOM OF PIT

Lab Sample ID: 280-61258-6

Date Collected: 10/14/14 13:52

Matrix: Solid

Date Received: 10/15/14 09:50

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		7.4		ug/Kg	☼	10/20/14 16:00	10/21/14 00:21	1
Ethylbenzene	ND		7.4		ug/Kg	☼	10/20/14 16:00	10/21/14 00:21	1
Toluene	ND		7.4		ug/Kg	☼	10/20/14 16:00	10/21/14 00:21	1
Xylenes, Total	ND		7.4		ug/Kg	☼	10/20/14 16:00	10/21/14 00:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		58 - 140	10/20/14 16:00	10/21/14 00:21	1
Toluene-d8 (Surr)	108		80 - 126	10/20/14 16:00	10/21/14 00:21	1
4-Bromofluorobenzene (Surr)	115		76 - 127	10/20/14 16:00	10/21/14 00:21	1
Dibromofluoromethane (Surr)	102		75 - 121	10/20/14 16:00	10/21/14 00:21	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	☼	10/20/14 15:17	10/22/14 05:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	84		77 - 123	10/20/14 15:17	10/22/14 05:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	25		4.7		mg/Kg	☼	10/16/14 09:20	10/21/14 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	53		49 - 115	10/16/14 09:20	10/21/14 18:01	1

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	—	10/15/14 18:15	10/20/14 11:31	10

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	350		5.3		mg/Kg	☼	10/16/14 08:30	10/23/14 21:18	5
Boron	ND		11		mg/Kg	☼	10/16/14 08:30	10/23/14 04:11	1
Cadmium	ND		0.53		mg/Kg	☼	10/16/14 08:30	10/23/14 04:11	1
Calcium	3600		270		mg/Kg	☼	10/16/14 08:30	10/23/14 21:18	5
Magnesium	3600		21		mg/Kg	☼	10/16/14 08:30	10/23/14 04:11	1
Molybdenum	ND		2.1		mg/Kg	☼	10/16/14 08:30	10/23/14 04:11	1
Silver	ND		1.1		mg/Kg	☼	10/16/14 08:30	10/23/14 04:11	1
Sodium	ND		2700		mg/Kg	☼	10/16/14 08:30	10/23/14 21:18	5

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.4		0.11		mg/Kg	☼	10/16/14 08:30	10/16/14 17:41	1
Chromium	13		0.22		mg/Kg	☼	10/16/14 08:30	10/16/14 17:41	1
Copper	39		0.28		mg/Kg	☼	10/16/14 08:30	10/16/14 17:41	1
Lead	18		0.11		mg/Kg	☼	10/16/14 08:30	10/16/14 17:41	1
Nickel	16		0.17		mg/Kg	☼	10/16/14 08:30	10/16/14 17:41	1
Selenium	0.47		0.22		mg/Kg	☼	10/16/14 08:30	10/16/14 17:41	1
Zinc	90		1.1		mg/Kg	☼	10/16/14 08:30	10/16/14 17:41	1

TestAmerica Denver

10/27/2014

Client Sample Results

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

TestAmerica Job ID: 280-61258-1

Client Sample ID: SILLA 23-16 BOTTOM OF PIT

Lab Sample ID: 280-61258-6

Date Collected: 10/14/14 13:52

Matrix: Solid

Date Received: 10/15/14 09:50

Percent Solids: 83.9

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	62		20		ug/Kg	☼	10/17/14 08:30	10/17/14 13:05	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		0.10		%	—		10/16/14 09:41	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.43		0.100		SU	—		10/21/14 19:49	1
Specific Conductance	140		20		umhos/cm	—		10/22/14 16:16	1