

Client Sample Results

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

received 08/03/2015
Project 8302
Remediation 200400836

Sample ID: 280-70707-1

Client Sample ID: LORENCITO 14-32 BELOW OFFSITE 1

Lab Sample ID: 280-70707-1

Date Collected: 06/12/15 10:44

Matrix: Solid

Date Received: 06/13/15 09:10

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	1.9		1.2		No Unit		06/14/15 15:40	06/25/15 20:33	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.6		0.10		%			06/16/15 17:46	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.64		0.100		SU		06/17/15 17:04	06/22/15 14:56	1
Specific Conductance (25C)	670		10		umhos/cm		06/17/15 17:04	06/21/15 15:41	1

Client Sample Results

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

TestAmerica Job ID: 280-70707-1

Client Sample ID: LORENCITO 14-32 BELOW OFFSITE 1

Lab Sample ID: 280-70707-1

Date Collected: 06/12/15 10:44

Matrix: Solid

Date Received: 06/13/15 09:10

Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.7		ug/Kg	☼	06/17/15 12:34	06/17/15 15:29	1
Ethylbenzene	ND		5.7		ug/Kg	☼	06/17/15 12:34	06/17/15 15:29	1
Toluene	ND		5.7		ug/Kg	☼	06/17/15 12:34	06/17/15 15:29	1
Xylenes, Total	ND		5.7		ug/Kg	☼	06/17/15 12:34	06/17/15 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		58 - 140	06/17/15 12:34	06/17/15 15:29	1
Toluene-d8 (Surr)	111		80 - 126	06/17/15 12:34	06/17/15 15:29	1
4-Bromofluorobenzene (Surr)	123		76 - 127	06/17/15 12:34	06/17/15 15:29	1
Dibromofluoromethane (Surr)	111		75 - 121	06/17/15 12:34	06/17/15 15:29	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		1.3		mg/Kg	☼	06/17/15 12:58	06/18/15 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	94		77 - 123	06/17/15 12:58	06/18/15 01:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	170		4.3		mg/Kg	☼	06/18/15 14:00	06/23/15 05:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	90		49 - 115	06/18/15 14:00	06/23/15 05:52	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	360		0.96		mg/Kg	☼	06/16/15 15:10	06/19/15 03:52	1
Boron	ND	F1	9.6		mg/Kg	☼	06/16/15 15:10	06/19/15 03:52	1
Cadmium	ND		0.48		mg/Kg	☼	06/16/15 15:10	06/19/15 03:52	1
Calcium	2600		48		mg/Kg	☼	06/16/15 15:10	06/19/15 03:52	1
Magnesium	3900		19		mg/Kg	☼	06/16/15 15:10	06/19/15 03:52	1
Molybdenum	ND		1.9		mg/Kg	☼	06/16/15 15:10	06/19/15 03:52	1
Silver	ND		0.96		mg/Kg	☼	06/16/15 15:10	06/19/15 03:52	1
Sodium	ND	^	480		mg/Kg	☼	06/16/15 15:10	06/19/15 03:52	1

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8	F1	0.10		mg/Kg	☼	06/16/15 15:10	06/17/15 06:19	1
Chromium	18	F1	0.20		mg/Kg	☼	06/16/15 15:10	06/17/15 06:19	1
Copper	47	F1	0.26		mg/Kg	☼	06/16/15 15:10	06/17/15 06:19	1
Lead	21	F1	0.10		mg/Kg	☼	06/16/15 15:10	06/17/15 06:19	1
Nickel	25	F1	0.15		mg/Kg	☼	06/16/15 15:10	06/17/15 06:19	1
Selenium	0.74		0.20		mg/Kg	☼	06/16/15 15:10	06/17/15 06:19	1
Zinc	130		1.0		mg/Kg	☼	06/16/15 15:10	06/17/15 06:19	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	65		22		ug/Kg	☼	06/22/15 12:40	06/22/15 21:03	1

TestAmerica Denver

Client Sample Results

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

TestAmerica Job ID: 280-70707-1

Client Sample ID: LORENCITO 14-32 BELOW OFFSITE 2

Lab Sample ID: 280-70707-2

Date Collected: 06/12/15 10:58

Matrix: Solid

Date Received: 06/13/15 09:10

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	1.4		1.2		No Unit		06/14/15 15:40	06/25/15 20:35	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.7		0.10		%			06/16/15 17:46	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.97		0.100		SU		06/17/15 17:04	06/22/15 14:56	1
Specific Conductance (25C)	770		10		umhos/cm		06/17/15 17:04	06/21/15 15:41	1

Client Sample Results

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

TestAmerica Job ID: 280-70707-1

Client Sample ID: LORENCITO 14-32 BELOW OFFSITE 2

Lab Sample ID: 280-70707-2

Date Collected: 06/12/15 10:58

Matrix: Solid

Date Received: 06/13/15 09:10

Percent Solids: 92.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.7		ug/Kg	☼	06/17/15 12:34	06/17/15 15:49	1
Ethylbenzene	ND		5.7		ug/Kg	☼	06/17/15 12:34	06/17/15 15:49	1
Toluene	ND		5.7		ug/Kg	☼	06/17/15 12:34	06/17/15 15:49	1
Xylenes, Total	ND		5.7		ug/Kg	☼	06/17/15 12:34	06/17/15 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		58 - 140	06/17/15 12:34	06/17/15 15:49	1
Toluene-d8 (Surr)	87		80 - 126	06/17/15 12:34	06/17/15 15:49	1
4-Bromofluorobenzene (Surr)	87		76 - 127	06/17/15 12:34	06/17/15 15:49	1
Dibromofluoromethane (Surr)	93		75 - 121	06/17/15 12:34	06/17/15 15:49	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		1.3		mg/Kg	☼	06/17/15 12:58	06/18/15 01:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	92		77 - 123	06/17/15 12:58	06/18/15 01:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	92		4.3		mg/Kg	☼	06/18/15 14:00	06/23/15 06:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	70		49 - 115	06/18/15 14:00	06/23/15 06:15	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	230		0.93		mg/Kg	☼	06/16/15 15:10	06/19/15 04:02	1
Boron	ND		9.3		mg/Kg	☼	06/16/15 15:10	06/19/15 04:02	1
Cadmium	ND		0.47		mg/Kg	☼	06/16/15 15:10	06/19/15 04:02	1
Calcium	4400		47		mg/Kg	☼	06/16/15 15:10	06/19/15 04:02	1
Magnesium	3900		19		mg/Kg	☼	06/16/15 15:10	06/19/15 04:02	1
Molybdenum	ND		1.9		mg/Kg	☼	06/16/15 15:10	06/19/15 04:02	1
Silver	ND		0.93		mg/Kg	☼	06/16/15 15:10	06/19/15 04:02	1
Sodium	ND	^	470		mg/Kg	☼	06/16/15 15:10	06/19/15 04:02	1

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		0.094		mg/Kg	☼	06/16/15 15:10	06/17/15 06:37	1
Chromium	16		0.19		mg/Kg	☼	06/16/15 15:10	06/17/15 06:37	1
Copper	38		0.24		mg/Kg	☼	06/16/15 15:10	06/17/15 06:37	1
Lead	26		0.094		mg/Kg	☼	06/16/15 15:10	06/17/15 06:37	1
Nickel	21		0.14		mg/Kg	☼	06/16/15 15:10	06/17/15 06:37	1
Selenium	1.1		0.19		mg/Kg	☼	06/16/15 15:10	06/17/15 06:37	1
Zinc	87		0.94		mg/Kg	☼	06/16/15 15:10	06/17/15 06:37	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	45		19		ug/Kg	☼	06/22/15 12:40	06/22/15 21:06	1

TestAmerica Denver

Client Sample Results

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

TestAmerica Job ID: 280-70707-1

Client Sample ID: LORENCITO 14-32 BELOW OFFSITE 3

Lab Sample ID: 280-70707-3

Date Collected: 06/12/15 11:08

Matrix: Solid

Date Received: 06/13/15 09:10

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	2.6		1.2		No Unit		06/14/15 15:40	06/25/15 20:38	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	23		2.0		mg/Kg			06/30/15 09:49	1
Percent Moisture	19		0.10		%			06/16/15 17:46	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.06		0.100		SU		06/17/15 17:04	06/22/15 14:56	1
Specific Conductance (25C)	1200		10		umhos/cm		06/17/15 17:04	06/21/15 15:41	1

Client Sample Results

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

TestAmerica Job ID: 280-70707-1

Client Sample ID: LORENCITO 14-32 BELOW OFFSITE 3

Lab Sample ID: 280-70707-3

Date Collected: 06/12/15 11:08

Matrix: Solid

Date Received: 06/13/15 09:10

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.6		ug/Kg	☼	06/23/15 18:00	06/23/15 21:17	1
Ethylbenzene	ND	F1	5.6		ug/Kg	☼	06/23/15 18:00	06/23/15 21:17	1
Toluene	ND		5.6		ug/Kg	☼	06/23/15 18:00	06/23/15 21:17	1
Xylenes, Total	ND	F1	5.6		ug/Kg	☼	06/23/15 18:00	06/23/15 21:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		58 - 140	06/23/15 18:00	06/23/15 21:17	1
Toluene-d8 (Surr)	129	X	80 - 126	06/23/15 18:00	06/23/15 21:17	1
4-Bromofluorobenzene (Surr)	127		76 - 127	06/23/15 18:00	06/23/15 21:17	1
Dibromofluoromethane (Surr)	111		75 - 121	06/23/15 18:00	06/23/15 21:17	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	☼	06/17/15 12:58	06/18/15 02:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	83		77 - 123	06/17/15 12:58	06/18/15 02:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	10		4.9		mg/Kg	☼	06/18/15 14:00	06/23/15 06:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	50		49 - 115	06/18/15 14:00	06/23/15 06:39	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	430		1.1		mg/Kg	☼	06/16/15 15:10	06/19/15 04:05	1
Boron	ND		11		mg/Kg	☼	06/16/15 15:10	06/19/15 04:05	1
Cadmium	ND		0.57		mg/Kg	☼	06/16/15 15:10	06/19/15 04:05	1
Calcium	5400		57		mg/Kg	☼	06/16/15 15:10	06/19/15 04:05	1
Magnesium	4600		23		mg/Kg	☼	06/16/15 15:10	06/19/15 04:05	1
Molybdenum	ND		2.3		mg/Kg	☼	06/16/15 15:10	06/19/15 04:05	1
Silver	ND		1.1		mg/Kg	☼	06/16/15 15:10	06/19/15 04:05	1
Sodium	ND	^	570		mg/Kg	☼	06/16/15 15:10	06/19/15 04:05	1

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2		0.12		mg/Kg	☼	06/16/15 15:10	06/17/15 06:47	1
Chromium	23		0.24		mg/Kg	☼	06/16/15 15:10	06/17/15 06:47	1
Copper	44		0.29		mg/Kg	☼	06/16/15 15:10	06/17/15 06:47	1
Lead	18		0.12		mg/Kg	☼	06/16/15 15:10	06/17/15 06:47	1
Nickel	30		0.18		mg/Kg	☼	06/16/15 15:10	06/17/15 06:47	1
Selenium	0.75		0.24		mg/Kg	☼	06/16/15 15:10	06/17/15 06:47	1
Zinc	110		1.2		mg/Kg	☼	06/16/15 15:10	06/17/15 06:47	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	46		24		ug/Kg	☼	06/22/15 12:40	06/22/15 21:08	1

TestAmerica Denver

Client Sample Results

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

TestAmerica Job ID: 280-70707-1

Client Sample ID: LORENCITO 14-32 BELOW OFFSITE 3

Lab Sample ID: 280-70707-3

Date Collected: 06/12/15 11:08

Matrix: Solid

Date Received: 06/13/15 09:10

Percent Solids: 81.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.49		mg/Kg	☼	06/26/15 15:03	06/29/15 10:48	1

Client Sample Results

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

TestAmerica Job ID: 280-70707-1

Client Sample ID: LORENCITO 14-32 BELOW OFFSITE 4

Lab Sample ID: 280-70707-4

Date Collected: 06/12/15 11:17

Matrix: Solid

Date Received: 06/13/15 09:10

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	5.1		1.2		No Unit		06/14/15 15:40	06/25/15 20:41	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26		0.10		%			06/16/15 17:46	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.97		0.100		SU		06/17/15 17:04	06/22/15 14:56	1
Specific Conductance (25C)	1300		10		umhos/cm		06/17/15 17:04	06/21/15 15:41	1

Client Sample Results

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

TestAmerica Job ID: 280-70707-1

Client Sample ID: LORENCITO 14-32 BELOW OFFSITE 4

Lab Sample ID: 280-70707-4

Date Collected: 06/12/15 11:17

Matrix: Solid

Date Received: 06/13/15 09:10

Percent Solids: 73.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.6		ug/Kg	☼	06/17/15 12:34	06/17/15 16:29	1
Ethylbenzene	ND		6.6		ug/Kg	☼	06/17/15 12:34	06/17/15 16:29	1
Toluene	ND		6.6		ug/Kg	☼	06/17/15 12:34	06/17/15 16:29	1
Xylenes, Total	ND		6.6		ug/Kg	☼	06/17/15 12:34	06/17/15 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		58 - 140	06/17/15 12:34	06/17/15 16:29	1
Toluene-d8 (Surr)	99		80 - 126	06/17/15 12:34	06/17/15 16:29	1
4-Bromofluorobenzene (Surr)	98		76 - 127	06/17/15 12:34	06/17/15 16:29	1
Dibromofluoromethane (Surr)	103		75 - 121	06/17/15 12:34	06/17/15 16:29	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		1.6		mg/Kg	☼	06/17/15 12:58	06/18/15 02:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	77		77 - 123	06/17/15 12:58	06/18/15 02:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	6.1		5.2		mg/Kg	☼	06/19/15 16:34	06/24/15 01:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	81		49 - 115	06/19/15 16:34	06/24/15 01:39	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	190		1.2		mg/Kg	☼	06/16/15 15:10	06/19/15 04:07	1
Boron	ND		12		mg/Kg	☼	06/16/15 15:10	06/19/15 04:07	1
Cadmium	ND		0.62		mg/Kg	☼	06/16/15 15:10	06/19/15 04:07	1
Calcium	3700		62		mg/Kg	☼	06/16/15 15:10	06/19/15 04:07	1
Magnesium	3300		25		mg/Kg	☼	06/16/15 15:10	06/19/15 04:07	1
Molybdenum	ND		2.5		mg/Kg	☼	06/16/15 15:10	06/19/15 04:07	1
Silver	ND		1.2		mg/Kg	☼	06/16/15 15:10	06/19/15 04:07	1
Sodium	ND	^	620		mg/Kg	☼	06/16/15 15:10	06/19/15 04:07	1

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.6		0.12		mg/Kg	☼	06/16/15 15:10	06/17/15 06:51	1
Chromium	11		0.24		mg/Kg	☼	06/16/15 15:10	06/17/15 06:51	1
Copper	31		0.30		mg/Kg	☼	06/16/15 15:10	06/17/15 06:51	1
Lead	17		0.12		mg/Kg	☼	06/16/15 15:10	06/17/15 06:51	1
Nickel	15		0.18		mg/Kg	☼	06/16/15 15:10	06/17/15 06:51	1
Selenium	0.29		0.24		mg/Kg	☼	06/16/15 15:10	06/17/15 06:51	1
Zinc	82		1.2		mg/Kg	☼	06/16/15 15:10	06/17/15 06:51	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	35		26		ug/Kg	☼	06/22/15 12:40	06/22/15 21:10	1

TestAmerica Denver

Client Sample Results

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

TestAmerica Job ID: 280-70707-1

Client Sample ID: LORENCITO 14-32 BELOW OFFSITE 5

Lab Sample ID: 280-70707-5

Date Collected: 06/12/15 11:26

Matrix: Solid

Date Received: 06/13/15 09:10

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	5.4		1.2		No Unit		06/14/15 15:40	06/25/15 20:43	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		0.10		%			06/16/15 17:46	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.84		0.100		SU		06/17/15 17:05	06/22/15 14:56	1
Specific Conductance (25C)	1200		10		umhos/cm		06/17/15 17:05	06/21/15 15:41	1

Client Sample Results

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

TestAmerica Job ID: 280-70707-1

Client Sample ID: LORENCITO 14-32 BELOW OFFSITE 5

Lab Sample ID: 280-70707-5

Date Collected: 06/12/15 11:26

Matrix: Solid

Date Received: 06/13/15 09:10

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.2		ug/Kg	☼	06/17/15 12:34	06/17/15 16:50	1
Ethylbenzene	ND		6.2		ug/Kg	☼	06/17/15 12:34	06/17/15 16:50	1
Toluene	ND		6.2		ug/Kg	☼	06/17/15 12:34	06/17/15 16:50	1
Xylenes, Total	ND		6.2		ug/Kg	☼	06/17/15 12:34	06/17/15 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		58 - 140	06/17/15 12:34	06/17/15 16:50	1
Toluene-d8 (Surr)	101		80 - 126	06/17/15 12:34	06/17/15 16:50	1
4-Bromofluorobenzene (Surr)	100		76 - 127	06/17/15 12:34	06/17/15 16:50	1
Dibromofluoromethane (Surr)	107		75 - 121	06/17/15 12:34	06/17/15 16:50	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	☼	06/17/15 12:58	06/18/15 03:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	85		77 - 123	06/17/15 12:58	06/18/15 03:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	8.3		4.5		mg/Kg	☼	06/18/15 14:00	06/23/15 07:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	49		49 - 115	06/18/15 14:00	06/23/15 07:03	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	230		1.2		mg/Kg	☼	06/16/15 15:10	06/19/15 04:10	1
Boron	ND		12		mg/Kg	☼	06/16/15 15:10	06/19/15 04:10	1
Cadmium	ND		0.58		mg/Kg	☼	06/16/15 15:10	06/19/15 04:10	1
Calcium	5500		58		mg/Kg	☼	06/16/15 15:10	06/19/15 04:10	1
Magnesium	4300		23		mg/Kg	☼	06/16/15 15:10	06/19/15 04:10	1
Molybdenum	ND		2.3		mg/Kg	☼	06/16/15 15:10	06/19/15 04:10	1
Silver	ND		1.2		mg/Kg	☼	06/16/15 15:10	06/19/15 04:10	1
Sodium	ND	^	580		mg/Kg	☼	06/16/15 15:10	06/19/15 04:10	1

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.3		0.10		mg/Kg	☼	06/16/15 15:10	06/17/15 06:54	1
Chromium	17		0.20		mg/Kg	☼	06/16/15 15:10	06/17/15 06:54	1
Copper	31		0.26		mg/Kg	☼	06/16/15 15:10	06/17/15 06:54	1
Lead	15		0.10		mg/Kg	☼	06/16/15 15:10	06/17/15 06:54	1
Nickel	23		0.15		mg/Kg	☼	06/16/15 15:10	06/17/15 06:54	1
Selenium	0.45		0.20		mg/Kg	☼	06/16/15 15:10	06/17/15 06:54	1
Zinc	87		1.0		mg/Kg	☼	06/16/15 15:10	06/17/15 06:54	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	26		25		ug/Kg	☼	06/22/15 12:40	06/22/15 21:12	1

TestAmerica Denver