


Table 910-1										
CONCENTRATION LEVELS			sampld 5.15.14	sampld 5.15.14	sampld 5.15.14	sampld 5.15.14	sampld 5.15.14	sampld 5.15.14	sampld 5.15.14	sampld 3.22.17
Contaminant of Concern	Concentrations	Units	Snowflake 13-22 Offsite Native North	Snowflake 13-22 Offsite Native East	Snowflake 13-22 Offsite Native South	Snowflake 13-22 Offsite Native West	1st Snowflake 13-22 Offsite Top of Pit	2nd Snowflake 13-22 OffsiteTop of Pit	Snowflake 13-22 Offsite Bottom of Pit	SNOWFLAKE 13-22 OFFSITE BOTTOM OF PIT
Organic Compounds in Soil										
TPH (Gasoline Range Organics)		mg/kg							ND	NT
TPH (Diesel Range Organics)	500	mg/kg							25	NT
Benzene	0.17	mg/kg							ND	NT
Toluene	85	mg/kg							ND	NT
Ethylbenzene	100	mg/kg							ND	NT
Xylenes (total)	175	mg/kg							ND	NT
Acenaphthene	1000	mg/kg								
Anthracene	1000	mg/kg								
Benzo(A)anthracene	0.22	mg/kg								
Benzo(B)fluoranthene	0.22	mg/kg								
Benzo(K)fluoranthene	2.2	mg/kg								
Benzo(A)pyrene	0.022	mg/kg								
Chrysene	22	mg/kg								
Dibenzo(A,H)anthracene	0.022	mg/kg								
Fluoranthene	1000	mg/kg								
Fluorene	1000	mg/kg								
Indeno(1,2,3,C,D)pyrene	0.22	mg/kg								
Napthalene	23	mg/kg								
Pyrene	1000	mg/kg								
Organic Compounds in Ground Water										
Benzene	5	µg/l								
Toluene	560 to 1000	µg/l								
Ethylbenzene	700	µg/l								
Xylenes (total)	1400 to 10,000	µg/l								
Inorganics in Soils										
Electrical Conductivity (EC)	<4000 or 2x background	umhos/cm					33	29	110	NT
Sodium Adsorption Ratio (SAR)	<12	NA					2.1	2.9	13	21
pH	6.0-9.0	NA					8.85	8.92	8.95	NT
Inorganics in Ground Water										
Total Dissolved Solids (TDS)	<1.25 x background	NA								
Chlorides	<1.25 x background	NA								
Sulfates	<1.25 x background	NA								
Metals in Soils										
Arsenic	0.39	mg/kg	2.8	2.1	3.4	2.6	2.7	5.3	2.5	NT
Barium Total	15,000	mg/kg							220	NT
Boron	NA	mg/kg							ND	NT
Boron (Hot Water Soluble)	2	mg/L							NT	NT
Cadmium	70	mg/kg							ND	NT
Chromium (III)	120,000	mg/kg							NA	NT
Chromium (VI)	23	mg/kg							NT	NT
Copper	3,100	mg/kg							24	NT
Lead	400	mg/kg							13	NT
Mercury	23	mg/kg							0.028	NT
Nickel	1,600	mg/kg							12	NT
Selenium	390	mg/kg							1.5	NT
Silver	390	mg/kg							ND	NT
Zinc	23,000	mg/kg							62	NT
Chromium		mg/kg							9.6	NT
Liquid Hydrocarbons in Soils and Ground Water										
Liquid hydrocarbons including condensate and oil	Below detection level	NA								

NA - not applicable

NT - not tested

ND - below the method detection limit

Cr - if Total Cr is >23 mg/kg, an analysis is completed for Cr VI, to facilitate calculation of Cr III

Client Sample Results

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

TestAmerica Job ID: 280-55576-1

Client Sample ID: SNOWFLAKE 13-22 OFFSITE PIT NATIVE NORTH

Lab Sample ID: 280-55576-1

Date Collected: 05/15/14 12:15

Matrix: Solid

Date Received: 05/16/14 10:05

Percent Solids: 94.2

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		0.098		mg/Kg	☼	05/20/14 08:10	05/20/14 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.8		0.10		%			05/20/14 13:47	1



Client Sample Results

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

TestAmerica Job ID: 280-55576-1

Client Sample ID: SNOWFLAKE 13-22 OFFSITE PIT NATIVE EAST

Lab Sample ID: 280-55576-2

Date Collected: 05/15/14 12:20

Matrix: Solid

Date Received: 05/16/14 10:05

Percent Solids: 89.7

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.1		0.11		mg/Kg	☼	05/21/14 12:45	05/22/14 18:14	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10		0.10		%			05/20/14 13:47	1

Client Sample Results

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

TestAmerica Job ID: 280-55576-1

Client Sample ID: SNOWFLAKE 13-22 OFFSITE PIT NATIVE SOUTH

Lab Sample ID: 280-55576-3

Date Collected: 05/15/14 12:25

Matrix: Solid

Date Received: 05/16/14 10:05

Percent Solids: 91.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.4		0.099		mg/Kg	☼	05/20/14 08:10	05/20/14 14:03	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.6		0.10		%			05/20/14 13:47	1

Client Sample Results

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

TestAmerica Job ID: 280-55576-1

Client Sample ID: SNOWFLAKE 13-22 OFFSITE PIT NATIVE

Lab Sample ID: 280-55576-4

WEST

Date Collected: 05/15/14 12:30

Matrix: Solid

Date Received: 05/16/14 10:05

Percent Solids: 89.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.6		0.095		mg/Kg	☼	05/21/14 12:45	05/22/14 18:17	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10		0.10		%			05/20/14 13:47	1

Client Sample Results

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

TestAmerica Job ID: 280-55576-1

Client Sample ID: 1ST SNOWFLAKE 13-22 OFFSITE TOP OF PIT

Lab Sample ID: 280-55576-5

Date Collected: 05/15/14 12:35

Matrix: Solid

Date Received: 05/16/14 10:05

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	2.1		1.2		No Unit	—	05/19/14 08:58	05/22/14 21:51	10

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.7		0.11		mg/Kg	☼	05/20/14 08:10	05/20/14 14:15	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		0.10		%	—		05/20/14 13:47	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.85		0.100		SU	—		05/22/14 17:24	1
Specific Conductance	33		2.0		umhos/cm	—		05/22/14 17:22	1

Client Sample Results

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

TestAmerica Job ID: 280-55576-1

Client Sample ID: 2ND SNOWFLAKE 13-22 OFFSITE TOP OF PIT

Lab Sample ID: 280-55576-6

Date Collected: 05/15/14 12:40

Matrix: Solid

Date Received: 05/16/14 10:05

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	2.9		1.2		No Unit	—	05/19/14 08:58	05/22/14 21:53	10

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.3		0.10		mg/Kg	☼	05/20/14 08:10	05/20/14 14:19	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.1		0.10		%	—		05/20/14 13:47	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.92		0.100		SU	—		05/22/14 17:24	1
Specific Conductance	29		2.0		umhos/cm	—		05/22/14 17:22	1

Client Sample Results

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

TestAmerica Job ID: 280-55576-1

Client Sample ID: SNOWFLAKE 13-22 OFFSITE BOTTOM OF PIT

Lab Sample ID: 280-55576-7

Date Collected: 05/15/14 12:55

Matrix: Solid

Date Received: 05/16/14 10:05

Percent Solids: 94.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.6		ug/Kg	☼	05/19/14 14:00	05/19/14 22:26	1
Ethylbenzene	ND		5.6		ug/Kg	☼	05/19/14 14:00	05/19/14 22:26	1
Toluene	ND		5.6		ug/Kg	☼	05/19/14 14:00	05/19/14 22:26	1
Xylenes, Total	ND		5.6		ug/Kg	☼	05/19/14 14:00	05/19/14 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		58 - 140	05/19/14 14:00	05/19/14 22:26	1
Toluene-d8 (Surr)	105		80 - 126	05/19/14 14:00	05/19/14 22:26	1
4-Bromofluorobenzene (Surr)	102		76 - 127	05/19/14 14:00	05/19/14 22:26	1
Dibromofluoromethane (Surr)	97		75 - 121	05/19/14 14:00	05/19/14 22:26	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		1.2		mg/Kg	☼	05/20/14 10:51	05/21/14 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		77 - 123	05/20/14 10:51	05/21/14 12:13	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		4.0		mg/Kg	☼	05/20/14 20:12	05/25/14 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	74		49 - 115	05/20/14 20:12	05/25/14 15:38	1

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	13		1.2		No Unit		05/19/14 08:58	05/22/14 22:07	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	220		0.98		mg/Kg	☼	05/20/14 08:10	05/23/14 02:40	1
Boron	ND		9.8		mg/Kg	☼	05/20/14 08:10	05/23/14 02:40	1
Cadmium	ND		0.49		mg/Kg	☼	05/20/14 08:10	05/23/14 02:40	1
Calcium	4300		49		mg/Kg	☼	05/20/14 08:10	05/23/14 02:40	1
Magnesium	2900		20		mg/Kg	☼	05/20/14 08:10	05/23/14 02:40	1
Molybdenum	ND		2.0		mg/Kg	☼	05/20/14 08:10	05/23/14 02:40	1
Silver	ND		0.98		mg/Kg	☼	05/20/14 08:10	05/23/14 02:40	1
Sodium	540		490		mg/Kg	☼	05/20/14 08:10	05/23/14 02:40	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.5		0.097		mg/Kg	☼	05/19/14 13:00	05/19/14 19:21	1
Chromium	9.6		0.19		mg/Kg	☼	05/19/14 13:00	05/19/14 19:21	1
Copper	24		0.24		mg/Kg	☼	05/19/14 13:00	05/19/14 19:21	1
Lead	13		0.097		mg/Kg	☼	05/19/14 13:00	05/19/14 19:21	1
Nickel	12		0.15		mg/Kg	☼	05/19/14 13:00	05/19/14 19:21	1
Selenium	1.5		0.19		mg/Kg	☼	05/19/14 13:00	05/19/14 19:21	1
Zinc	62		0.97		mg/Kg	☼	05/19/14 13:00	05/19/14 19:21	1

TestAmerica Denver

Client Sample Results

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

TestAmerica Job ID: 280-55576-1

Client Sample ID: SNOWFLAKE 13-22 OFFSITE BOTTOM OF PIT

Lab Sample ID: 280-55576-7

Date Collected: 05/15/14 12:55

Matrix: Solid

Date Received: 05/16/14 10:05

Percent Solids: 94.5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	28		20		ug/Kg	☼	05/20/14 14:10	05/20/14 18:18	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.5		0.10		%	—		05/19/14 13:01	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.95		0.100		SU	—		05/22/14 17:24	1
Specific Conductance	110		2.0		umhos/cm	—		05/22/14 17:22	1

Client Sample Results

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

TestAmerica Job ID: 280-55576-1

Client Sample ID: SNOWFLAKE 13-22 OFFSITE PIT NATIVE NORTH

Lab Sample ID: 280-55576-1

Date Collected: 05/15/14 12:15

Matrix: Solid

Date Received: 05/16/14 10:05

Percent Solids: 94.2

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		0.098		mg/Kg	☼	05/20/14 08:10	05/20/14 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.8		0.10		%			05/20/14 13:47	1

Client Sample Results

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

TestAmerica Job ID: 280-55576-1

Client Sample ID: SNOWFLAKE 13-22 OFFSITE PIT NATIVE EAST

Lab Sample ID: 280-55576-2

Date Collected: 05/15/14 12:20

Matrix: Solid

Date Received: 05/16/14 10:05

Percent Solids: 89.7

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.1		0.11		mg/Kg	☼	05/21/14 12:45	05/22/14 18:14	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10		0.10		%			05/20/14 13:47	1

Client Sample Results

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

TestAmerica Job ID: 280-55576-1

Client Sample ID: SNOWFLAKE 13-22 OFFSITE PIT NATIVE SOUTH

Lab Sample ID: 280-55576-3

Date Collected: 05/15/14 12:25

Matrix: Solid

Date Received: 05/16/14 10:05

Percent Solids: 91.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.4		0.099		mg/Kg	☼	05/20/14 08:10	05/20/14 14:03	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.6		0.10		%			05/20/14 13:47	1

Client Sample Results

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

TestAmerica Job ID: 280-55576-1

Client Sample ID: SNOWFLAKE 13-22 OFFSITE PIT NATIVE

Lab Sample ID: 280-55576-4

WEST

Date Collected: 05/15/14 12:30

Matrix: Solid

Date Received: 05/16/14 10:05

Percent Solids: 89.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.6		0.095		mg/Kg	☼	05/21/14 12:45	05/22/14 18:17	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10		0.10		%			05/20/14 13:47	1

Client Sample Results

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

TestAmerica Job ID: 280-55576-1

Client Sample ID: 1ST SNOWFLAKE 13-22 OFFSITE TOP OF PIT

Lab Sample ID: 280-55576-5

Date Collected: 05/15/14 12:35

Matrix: Solid

Date Received: 05/16/14 10:05

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	2.1		1.2		No Unit		05/19/14 08:58	05/22/14 21:51	10

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.7		0.11		mg/Kg	☼	05/20/14 08:10	05/20/14 14:15	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		0.10		%			05/20/14 13:47	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.85		0.100		SU			05/22/14 17:24	1
Specific Conductance	33		2.0		umhos/cm			05/22/14 17:22	1

Client Sample Results

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

TestAmerica Job ID: 280-55576-1

Client Sample ID: 2ND SNOWFLAKE 13-22 OFFSITE TOP OF PIT

Lab Sample ID: 280-55576-6

Date Collected: 05/15/14 12:40

Matrix: Solid

Date Received: 05/16/14 10:05

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	2.9		1.2		No Unit	—	05/19/14 08:58	05/22/14 21:53	10

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.3		0.10		mg/Kg	☼	05/20/14 08:10	05/20/14 14:19	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.1		0.10		%	—		05/20/14 13:47	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.92		0.100		SU	—		05/22/14 17:24	1
Specific Conductance	29		2.0		umhos/cm	—		05/22/14 17:22	1

Client Sample Results

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

TestAmerica Job ID: 280-55576-1

Client Sample ID: SNOWFLAKE 13-22 OFFSITE BOTTOM OF PIT

Lab Sample ID: 280-55576-7

Date Collected: 05/15/14 12:55

Matrix: Solid

Date Received: 05/16/14 10:05

Percent Solids: 94.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.6		ug/Kg	☼	05/19/14 14:00	05/19/14 22:26	1
Ethylbenzene	ND		5.6		ug/Kg	☼	05/19/14 14:00	05/19/14 22:26	1
Toluene	ND		5.6		ug/Kg	☼	05/19/14 14:00	05/19/14 22:26	1
Xylenes, Total	ND		5.6		ug/Kg	☼	05/19/14 14:00	05/19/14 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		58 - 140	05/19/14 14:00	05/19/14 22:26	1
Toluene-d8 (Surr)	105		80 - 126	05/19/14 14:00	05/19/14 22:26	1
4-Bromofluorobenzene (Surr)	102		76 - 127	05/19/14 14:00	05/19/14 22:26	1
Dibromofluoromethane (Surr)	97		75 - 121	05/19/14 14:00	05/19/14 22:26	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		1.2		mg/Kg	☼	05/20/14 10:51	05/21/14 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		77 - 123	05/20/14 10:51	05/21/14 12:13	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		4.0		mg/Kg	☼	05/20/14 20:12	05/25/14 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	74		49 - 115	05/20/14 20:12	05/25/14 15:38	1

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	13		1.2		No Unit		05/19/14 08:58	05/22/14 22:07	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	220		0.98		mg/Kg	☼	05/20/14 08:10	05/23/14 02:40	1
Boron	ND		9.8		mg/Kg	☼	05/20/14 08:10	05/23/14 02:40	1
Cadmium	ND		0.49		mg/Kg	☼	05/20/14 08:10	05/23/14 02:40	1
Calcium	4300		49		mg/Kg	☼	05/20/14 08:10	05/23/14 02:40	1
Magnesium	2900		20		mg/Kg	☼	05/20/14 08:10	05/23/14 02:40	1
Molybdenum	ND		2.0		mg/Kg	☼	05/20/14 08:10	05/23/14 02:40	1
Silver	ND		0.98		mg/Kg	☼	05/20/14 08:10	05/23/14 02:40	1
Sodium	540		490		mg/Kg	☼	05/20/14 08:10	05/23/14 02:40	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.5		0.097		mg/Kg	☼	05/19/14 13:00	05/19/14 19:21	1
Chromium	9.6		0.19		mg/Kg	☼	05/19/14 13:00	05/19/14 19:21	1
Copper	24		0.24		mg/Kg	☼	05/19/14 13:00	05/19/14 19:21	1
Lead	13		0.097		mg/Kg	☼	05/19/14 13:00	05/19/14 19:21	1
Nickel	12		0.15		mg/Kg	☼	05/19/14 13:00	05/19/14 19:21	1
Selenium	1.5		0.19		mg/Kg	☼	05/19/14 13:00	05/19/14 19:21	1
Zinc	62		0.97		mg/Kg	☼	05/19/14 13:00	05/19/14 19:21	1

TestAmerica Denver

Client Sample Results

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

TestAmerica Job ID: 280-55576-1

Client Sample ID: SNOWFLAKE 13-22 OFFSITE BOTTOM OF PIT

Lab Sample ID: 280-55576-7

Date Collected: 05/15/14 12:55

Matrix: Solid

Date Received: 05/16/14 10:05

Percent Solids: 94.5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	28		20		ug/Kg	☼	05/20/14 14:10	05/20/14 18:18	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.5		0.10		%	—		05/19/14 13:01	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.95		0.100		SU	—		05/22/14 17:24	1
Specific Conductance	110		2.0		umhos/cm	—		05/22/14 17:22	1