

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109



FOR OGCC USE ONLY
Doc #2099812
Rec 12/8/15
Rem # 9470

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☐ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☒ Site/Facility Closure ☐ Other (describe): _____

OGCC Employee:
☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV
Tracking No: _____

OGCC Operator Number: 10084
Name of Operator: Pioneer Natural Resources USA, Inc.
Address: 5205 N. O'Connor Blvd., Ste 200
City: Irving State: TX Zip: 75039

Contact Name and Telephone:
LaCretia White
No: 972-969-3738
Fax: 972-969-3559

API Number: 05-071-09462 County: Las Animas
Facility Name: Filipek 22-10V Facility Number: 301280
Well Name: Filipek Well Number: 22-10V 37.187295 -104.983220
Location: (QtrQtr, Sec, Twp, Rng, Meridian): SENW, Sec. 10, T33S, R68W Latitude: 37.187295 Longitude: 104.983220

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): produced water

Site Conditions: Is location within a sensitive area (according to Rule 901e)? ☐ Y ☒ N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Non-Crop Land

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: LRT—Lorencito-Rombo-Sarcillo complex, 25 to 65 percent slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): nearest water well - 2418' (if DWR point is accurate)

nearest surface water - 361' (if live water present)

Description of Impact (if previously provided, refer to that form or document):

| Impacted Media (check): | Extent of Impact: | How Determined: |
|---|------------------------|-------------------|
| <input checked="" type="checkbox"/> Soils | <u>soil within pit</u> | <u>torn liner</u> |
| <input type="checkbox"/> Vegetation | _____ | _____ |
| <input type="checkbox"/> Groundwater | _____ | _____ |
| <input type="checkbox"/> Surface Water | _____ | _____ |

REMEDIAL WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

Produced water from this well was being stored in this onsite pit. The well is no longer going to the pit.

Describe how source is to be removed:

Produced water is not being sent to this pit and it is no longer needed.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

Produced water may be surface discharged under a CDPS permit, disposed of in a Class II UIC injection well, or utilized for dust suppression.



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REMEDIATION WORKPLAN (Cont.)

Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

It is not expected that produced water stored in this pit communicated with nor affected groundwater.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

If back berm of pit exists, this material will be utilized to backfill pit. Native fill material may be collected from the recontouring of cut and fill slopes. Fill material will be brought onsite, if needed, to adequately backfill pit. The top 3 feet of the pit will be filled with at least 25% native soil. If topsoil exists, this material will be overlain on the fill material. Backfilled material may be contoured in a manner to be utilized as a stormwater BMP.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? ☐ Y ☒ N If yes, describe:

No impact to the surrounding environment occurred from the use of this pit.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

Produced water may be surface discharged under a CDPS permit, disposed of in a Class II UIC injection well, or utilized for dust suppression.

IMPLEMENTATION SCHEDULE

| | | |
|---|---|---|
| Date Site Investigation Began: <u>7/15/15</u> | Date Site Investigation Completed: <u>7/15/15</u> | Date Remediation Plan Submitted: <u>12/8/15</u> |
| Remediation Start Date: <u>upon approval</u> | Anticipated Completion Date: <u>1st qtr 2016</u> | Actual Completion Date: _____ |

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Julie Webb

Signed: Julie Webb

Title: Regulatory Analyst

Date: 12/8/15

OGCC Approved: _____ Title: _____ Date: _____

CONDITIONS OF APPROVAL:

Notify COGCC when closure process is completed.

METALS

Analytical results demonstrate that background concentrations of arsenic (As) exceed Table 910-1 concentration levels. Analytical results demonstrate that concentrations of As in soils in the pit also exceed Table 910-1 concentration levels and the pit concentrations are less than or within analytical uncertainty of being equal to the background concentrations. The analytical results are summarized below:

| METAL | BACKGROUND CONCENTRATION (MG/KG) | PIT CONTENTS, SOIL/BEDROCK BELOW PIT OR IMPACTED MEDIA (MG/KG) | TABLE 910-1 CONCENTRATION LEVELS (MG/KG) |
|---------|--|---|---|
| Arsenic | 1.8-2.4 | 1.6-1.9 | 0.39 |

COGCC and CDPHE have consulted and agree that operators do not need to request variances from CDPHE for instances where the concentrations of metals in impacted soils are equal to or less than background concentrations, but do not meet Table 910-1 concentration values. Operators must ensure that remaining pit contents are covered with a minimum of 3 feet of backfill and soil. The soil horizons must be replaced in their original relative position, and reclaimed in accordance with 1000 Series Rules.

Client Sample Results

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

TestAmerica Job ID: 280-72050-1

Client Sample ID: FILIPEK 22-10V NATIVE NORTH

Lab Sample ID: 280-72050-7

Date Collected: 07/15/15 14:23

Matrix: Solid

Date Received: 07/18/15 10:15

General Chemistry

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------|-----------|------|----|------|---|----------|----------------|---------|
| Percent Moisture | 5.3 | | 0.10 | | % | | | 07/21/15 20:38 | 1 |

Client Sample Results

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

TestAmerica Job ID: 280-72050-1

Client Sample ID: FILIPEK 22-10V NATIVE NORTH

Lab Sample ID: 280-72050-7

Date Collected: 07/15/15 14:23

Matrix: Solid

Date Received: 07/18/15 10:15

Percent Solids: 94.7

Method: 6020 - Total Metals by ICP-MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Arsenic | 1.8 | | 0.10 | | mg/Kg | ☼ | 07/22/15 08:15 | 07/23/15 05:21 | 1 |

Client Sample Results

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

TestAmerica Job ID: 280-72050-1

Client Sample ID: FILIPEK 22-10V NATIVE EAST

Lab Sample ID: 280-72050-8

Date Collected: 07/15/15 14:28

Matrix: Solid

Date Received: 07/18/15 10:15

General Chemistry

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------|-----------|------|----|------|---|----------|----------------|---------|
| Percent Moisture | 10 | | 0.10 | | % | | | 07/21/15 20:38 | 1 |

Client Sample Results

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

TestAmerica Job ID: 280-72050-1

Client Sample ID: FILIPEK 22-10V NATIVE EAST

Lab Sample ID: 280-72050-8

Date Collected: 07/15/15 14:28

Matrix: Solid

Date Received: 07/18/15 10:15

Percent Solids: 90.0

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 | ☼ | 07/22/15 08:15 | 07/23/15 05:31 | 1 |

Client Sample Results

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

TestAmerica Job ID: 280-72050-1

Client Sample ID: FILIPEK 22-10V NATIVE SOUTH

Lab Sample ID: 280-72050-9

Date Collected: 07/15/15 14:33

Matrix: Solid

Date Received: 07/18/15 10:15

General Chemistry

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------|-----------|------|----|------|---|----------|----------------|---------|
| Percent Moisture | 5.6 | | 0.10 | | % | | | 07/21/15 20:38 | 1 |

Client Sample Results

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

TestAmerica Job ID: 280-72050-1

Client Sample ID: FILIPEK 22-10V NATIVE SOUTH

Lab Sample ID: 280-72050-9

Date Collected: 07/15/15 14:33

Matrix: Solid

Date Received: 07/18/15 10:15

Percent Solids: 94.4

Method: 6020 - Total Metals by ICP-MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Arsenic | 2.1 | | 0.098 | | mg/Kg | ☼ | 07/22/15 08:15 | 07/23/15 05:35 | 1 |

Client Sample Results

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

TestAmerica Job ID: 280-72050-1

Client Sample ID: FILIPEK 22-10V NATIVE WEST

Lab Sample ID: 280-72050-10

Date Collected: 07/15/15 14:38

Matrix: Solid

Date Received: 07/18/15 10:15

General Chemistry

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------|-----------|------|----|------|---|----------|----------------|---------|
| Percent Moisture | 8.9 | | 0.10 | | % | | | 07/21/15 20:38 | 1 |

Client Sample Results

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

TestAmerica Job ID: 280-72050-1

Client Sample ID: FILIPEK 22-10V NATIVE WEST

Lab Sample ID: 280-72050-10

Date Collected: 07/15/15 14:38

Matrix: Solid

Date Received: 07/18/15 10:15

Percent Solids: 91.1

Method: 6020 - Total Metals by ICP-MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Arsenic | 2.2 | | 0.096 | | mg/Kg | ☼ | 07/22/15 08:15 | 07/23/15 05:39 | 1 |

Client Sample Results

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

TestAmerica Job ID: 280-72050-1

Client Sample ID: FILIPEK 22-10V TOP OF PIT

Lab Sample ID: 280-72050-11

Date Collected: 07/15/15 14:43

Matrix: Solid

Date Received: 07/18/15 10:15

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 | | 07/21/15 18:00 | 07/29/15 16:31 | 10 |

General Chemistry

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------|-----------|------|----|------|---|----------|----------------|---------|
| Percent Moisture | 2.8 | | 0.10 | | % | | | 07/21/15 20:38 | 1 |

General Chemistry - Soluble

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-------|----|----------|---|----------------|----------------|---------|
| pH | 7.85 | | 0.100 | | SU | | 07/22/15 20:13 | 08/04/15 18:26 | 1 |
| Specific Conductance (25C) | 310 | | 10 | | umhos/cm | | 07/22/15 20:13 | 08/03/15 07:42 | 1 |

Client Sample Results

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

TestAmerica Job ID: 280-72050-1

Client Sample ID: FILIPEK 22-10V TOP OF PIT

Lab Sample ID: 280-72050-11

Date Collected: 07/15/15 14:43

Matrix: Solid

Date Received: 07/18/15 10:15

Percent Solids: 97.2

Method: 6020 - Total Metals by ICP-MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Arsenic | 1.9 | | 0.10 | | mg/Kg | ☼ | 07/22/15 08:15 | 07/23/15 05:42 | 1 |

Client Sample Results

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

TestAmerica Job ID: 280-72050-1

Client Sample ID: FILIPEK 22-10V BOTTOM OF PIT

Lab Sample ID: 280-72050-12

Date Collected: 07/15/15 14:50

Matrix: Solid

Date Received: 07/18/15 10:15

Method: 20B - Sodium Adsorption Ratio - Soluble

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|--------|-----------|-----|----|---------|---|----------------|----------------|---------|
| Sodium Adsorption Ratio | 5.9 | | 1.2 | | No Unit | | 07/21/15 18:00 | 07/29/15 16:33 | 10 |

General Chemistry

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------|-----------|------|----|-------|---|----------|----------------|---------|
| Cr (III) | 24 | | 2.0 | | mg/Kg | | | 08/03/15 08:50 | 1 |
| Percent Moisture | 9.5 | | 0.10 | | % | | | 07/21/15 20:38 | 1 |

General Chemistry - Soluble

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|-------|----|----------|---|----------------|----------------|---------|
| pH | 8.40 | | 0.100 | | SU | | 07/22/15 20:13 | 08/04/15 18:26 | 1 |
| Specific Conductance (25C) | 690 | | 10 | | umhos/cm | | 07/22/15 20:13 | 08/03/15 07:42 | 1 |

Client Sample Results

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

TestAmerica Job ID: 280-72050-1

Client Sample ID: FILIPEK 22-10V BOTTOM OF PIT

Lab Sample ID: 280-72050-12

Date Collected: 07/15/15 14:50

Matrix: Solid

Date Received: 07/18/15 10:15

Percent Solids: 90.5

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Benzene | ND | | 5.4 | | ug/Kg | ☼ | 07/21/15 16:30 | 07/21/15 22:15 | 1 |
| Ethylbenzene | ND | | 5.4 | | ug/Kg | ☼ | 07/21/15 16:30 | 07/21/15 22:15 | 1 |
| Toluene | ND | * | 5.4 | | ug/Kg | ☼ | 07/21/15 16:30 | 07/21/15 22:15 | 1 |
| Xylenes, Total | ND | | 5.4 | | ug/Kg | ☼ | 07/21/15 16:30 | 07/21/15 22:15 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 58 - 140 | 07/21/15 16:30 | 07/21/15 22:15 | 1 |
| Toluene-d8 (Surr) | 96 | | 80 - 126 | 07/21/15 16:30 | 07/21/15 22:15 | 1 |
| 4-Bromofluorobenzene (Surr) | 99 | | 76 - 127 | 07/21/15 16:30 | 07/21/15 22:15 | 1 |
| Dibromofluoromethane (Surr) | 104 | | 75 - 121 | 07/21/15 16:30 | 07/21/15 22:15 | 1 |

Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO) | ND | | 1.3 | | mg/Kg | ☼ | 07/23/15 11:20 | 07/24/15 02:46 | 1 |
| -C6-C10 | | | | | | | | | |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| a,a,a-Trifluorotoluene | 99 | | 77 - 123 | 07/23/15 11:20 | 07/24/15 02:46 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 22 | | 4.2 | | mg/Kg | ☼ | 07/24/15 17:43 | 07/27/15 19:05 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------|-----------|-----------|----------|----------------|----------------|---------|
| o-Terphenyl | 65 | | 49 - 115 | 07/24/15 17:43 | 07/27/15 19:05 | 1 |

Method: 6010B - Total Metals

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Barium | 110 | | 1.0 | | mg/Kg | ☼ | 07/22/15 08:15 | 07/22/15 19:16 | 1 |
| Boron | ND | | 10 | | mg/Kg | ☼ | 07/22/15 08:15 | 07/22/15 19:16 | 1 |
| Cadmium | ND | | 0.51 | | mg/Kg | ☼ | 07/22/15 08:15 | 07/22/15 19:16 | 1 |
| Calcium | 3500 | | 51 | | mg/Kg | ☼ | 07/22/15 08:15 | 07/22/15 19:16 | 1 |
| Magnesium | 6000 | | 20 | | mg/Kg | ☼ | 07/22/15 08:15 | 07/22/15 19:16 | 1 |
| Molybdenum | ND | | 2.0 | | mg/Kg | ☼ | 07/22/15 08:15 | 07/22/15 19:16 | 1 |
| Silver | ND | | 1.0 | | mg/Kg | ☼ | 07/22/15 08:15 | 07/22/15 19:16 | 1 |
| Sodium | 700 | | 510 | | mg/Kg | ☼ | 07/22/15 08:15 | 07/22/15 19:16 | 1 |

Method: 6020 - Total Metals by ICP-MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Arsenic | 1.6 | | 0.10 | | mg/Kg | ☼ | 07/22/15 08:15 | 07/23/15 05:46 | 1 |
| Chromium | 25 | | 0.21 | | mg/Kg | ☼ | 07/22/15 08:15 | 07/23/15 05:46 | 1 |
| Copper | 30 | | 0.26 | | mg/Kg | ☼ | 07/22/15 08:15 | 07/23/15 05:46 | 1 |
| Lead | 14 | | 0.10 | | mg/Kg | ☼ | 07/22/15 08:15 | 07/23/15 05:46 | 1 |
| Nickel | 19 | | 0.16 | | mg/Kg | ☼ | 07/22/15 08:15 | 07/23/15 05:46 | 1 |
| Selenium | 0.42 | | 0.21 | | mg/Kg | ☼ | 07/22/15 08:15 | 07/23/15 05:46 | 1 |
| Zinc | 84 | | 1.0 | | mg/Kg | ☼ | 07/22/15 08:15 | 07/23/15 05:46 | 1 |

Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 30 | | 20 | | ug/Kg | ☼ | 07/22/15 12:05 | 07/22/15 15:28 | 1 |

TestAmerica Denver

Client Sample Results

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

TestAmerica Job ID: 280-72050-1

Client Sample ID: FILIPEK 22-10V BOTTOM OF PIT

Lab Sample ID: 280-72050-12

Date Collected: 07/15/15 14:50


Matrix: Solid

Date Received: 07/18/15 10:15

Percent Solids: 90.5

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Cr (VI) | ND | | 0.44 | | mg/Kg | ☼ | 07/30/15 10:21 | 08/01/15 11:38 | 1 |

| Table 910-1 | |  | | | | | | |
|--|---------------------------|---|--------------------------------|-------------------------------|--------------------------------|-------------------------------|------------------------------|---------------------------------|
| CONCENTRATION LEVELS | | | | | | | | |
| Contaminant of Concern | Concentrations | Units | FILIPEK 22-10V NATIVE NORTH | FILIPEK 22-10V NATIVE EAST | FILIPEK 22-10V NATIVE SOUTH | FILIPEK 22-10V NATIVE WEST | FILIPEK 22-10V TOP OF PIT | FILIPEK 22-10V BOTTOM OF PIT |
| Organic Compounds in Soil | | | | | | | | |
| TPH (Gasoline Range Organics) | | mg/kg | | | | | | ND |
| TPH (Diesel Range Organics) | | mg/kg | | | | | | 22 |
| Benzene | 0.17 | mg/kg | | | | | | ND |
| Toluene | 85 | mg/kg | | | | | | ND |
| Ethylbenzene | 100 | mg/kg | | | | | | ND |
| Xylenes (total) | 175 | mg/kg | | | | | | ND |
| 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 | | | | | | |
| Naphthalene | 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 | | | | | 310 | 690 |
| Sodium Adsorption Ratio (SAR) | <12 | NA | | | | | ND | 5.9 |
| pH | 6.0-9.0 | NA | | | | | 7.85 | 8.40 |
| 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 | 1.8 | 2.4 | 2.1 | 2.2 | 1.9 | 1.6 |
| Barium Total | 15,000 | mg/kg | | | | | | 110 |
| Boron | NA | mg/kg | | | | | | ND |
| Boron (Hot Water Soluble) | 2 | mg/L | | | | | | NT |
| Total Chromium | NA | mg/kg | | | | | | 25 |
| Cadmium | 70 | mg/kg | | | | | | ND |
| Chromium (VI) | 23 | mg/kg | | | | | | ND |
| Copper | 3,100 | mg/kg | | | | | | 30 |
| Lead | 400 | mg/kg | | | | | | 14 |
| Mercury | 23 | mg/kg | | | | | | 0.03 |
| Nickel | 1,600 | mg/kg | | | | | | 19 |
| Selenium | 390 | mg/kg | | | | | | 0.42 |
| Silver | 390 | mg/kg | | | | | | ND |
| Zinc | 23,000 | mg/kg | | | | | | 84 |
| 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