

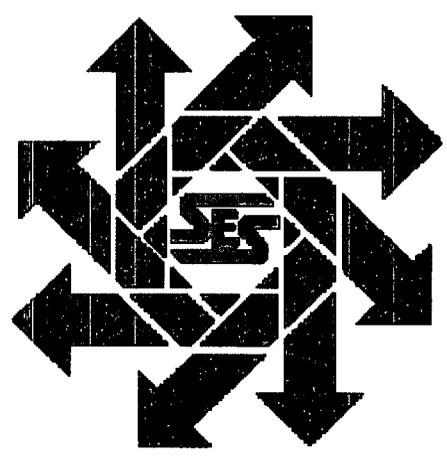
EXTRA
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**Navajo Refining Company
Crouch Mainline
Site Investigation
Section 15, Township 17S, Range 36E
Lea County, New Mexico**

UNIT
LETTER
N

March 20, 2003

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LETTER
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Prepared for:

**Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211**

By:

**Safety & Environmental Solutions, Inc.
703 E. Clinton Suite 103
Hobbs, New Mexico 88240
(505) 397-0510**

Navajo-94081
facility-PPAC0603932083
application-PPAC0603932223

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I. Background

Safety & Environmental Solutions, Inc. (SESI) was contracted by Navajo Refining Corporation to perform a site investigation of the Crouch Pig Station. The subject area is located in Section 15, Township 17S, Range 36E, in Lea County, New Mexico.

II. Surface and Ground Water

According to the database provided by the New Mexico State Engineer's Office, the groundwater depth for Section 15, Range 36E, Township 17S is 36.89. This measurement was taken on February 1, 1996.

III. Soils

The soils in the area are predominantly sand and sandy loam.

*12.1.1966
WTR @ 40'
SEC 15 SW of SW*

IV. Work Performed

Drilling of Boreholes

On March 3, 2003 SESI drilled Borehole # 1 17.5' east of the Navajo Couch Pig Station to a depth of 5 feet. After drilling to the 5' depth the drilling rig had a mechanical failure. A sample was taken at that depth and sent under chain of custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. The sample was analyzed for TPH (EPA method 600/4-79-020 418.1), BTEX (EPA Method SW-846), and Chlorides (EPA methods 4500-ClB). The results of the analysis are as follows:

| ID | TPH | Cl | Benzene | Toluene | Ethyl Benzene | Total Xylenes |
|---------|-------|-----|---------|---------|---------------|---------------|
| BH-1 5' | 19200 | 176 | <0.005 | 0.008 | <0.005 | 1.91 |

On March 4, 2003 SESI returned to location to resume drilling of borehole #1 and drilled Boreholes #2-#6.

Borehole # 1 was drilled to a depth of 14 feet. Samples were taken at 6', 9-10', and 13-14'. The samples were sent under chain of custody to Cardinal Laboratories for analysis. All samples were analyzed for TPH (EPA method 600/4-79-020 418.1) and BTEX (EPA Method SW-846). In addition to TPH and BTEX the 6' sample was tested for Chlorides (EPA methods 4500-ClB). The results of the analysis are as follows:

| ID | TPH | Cl | Benzene | Toluene | Ethyl Benzene | Total Xylenes |
|-------------|------|-----|---------|---------|---------------|---------------|
| BH-1 6' | 4060 | 112 | <0.005 | <0.005 | 0.016 | 0.795 |
| BH-1 9-10' | 790 | - | <0.005 | <0.005 | <0.005 | <0.015 |
| BH-1 13-14' | <10 | - | <0.005 | <0.005 | <0.005 | <0.015 |

Borehole # 2 was drilled 16.5' east of the Crouch Pig Station to a depth of 8 feet. Samples were taken at 5', and 7-8'. The samples were sent under chain of custody to Cardinal Laboratories for analysis. All samples were analyzed for TPH (EPA method 600/4-79-020 418.1) and BTEX (EPA Method SW-846). In addition to TPH and BTEX the 5' sample was tested for Chlorides (EPA methods 4500-ClB). The results of the analysis are as follows:

| ID | TPH | Cl | Benzene | Toluene | Ethyl Benzene | Total Xylenes |
|-----------|------|----|---------|---------|---------------|---------------|
| BH-2 5' | 1360 | 80 | <0.005 | <0.005 | 0.020 | 0.086 |
| BH-2 7-8' | 115 | - | <0.005 | <0.005 | <0.005 | <0.015 |

Borehole # 3 was drilled 21' north & 20' east of the Crouch Pig Station to a depth of 28 feet. Samples were taken at 3-4', 8-9', 15', 22-23' and 28'. The samples were sent under chain of Custody to Cardinal Laboratories for analysis. All samples were analyzed for TPH (EPA method 600/4-79-020 418.1) and BTEX (EPA Method SW-846). In addition to TPH and BTEX the 3-4' sample was tested for Chlorides (EPA methods 4500-ClB). The results of the analysis are as follows:

| ID | TPH | Cl | Benzene | Toluene | Ethyl Benzene | Total Xylenes |
|-------------|-------|----|---------|---------|---------------|---------------|
| BH-3 3-4' | 7570 | 64 | <0.005 | 0.209 | 7.14 | 11.8 |
| BH-3 8-9' | 16000 | - | <0.005 | 0.027 | 5.46 | 5.41 |
| BH-3 15' | 48.8 | - | <0.005 | <0.005 | <0.005 | <0.015 |
| BH-3 18' | 29.7 | - | <0.005 | <0.005 | <0.005 | <0.015 |
| BH-3 22-23' | 367 | - | <0.005 | <0.005 | <0.005 | <0.015 |
| BH-3 28' | <10 | - | <0.005 | <0.005 | <0.005 | <0.015 |

During the installation of Borehole#3, SESI personnel detected an unusual odor from samples taken at 3-4 and 8-9 feet. For this reason, it was decided to analyze these samples for Volatiles (EPA method SW-846-8260). The following table represents the compounds detected in excess of regulatory limits. It should be noted that there were no chlorinated solvents detected. See appendix A for details.

| BH-3, 3-4' | Sample Result |
|-----------------------------|---------------|
| 31 Toluene | 0.209 |
| 40 Ethylbenzene | 7.15 |
| 41 m, p-Xylene | 10.1 |
| 44 o-Xylene | 1.66 |
| 47 Isopropylbenzene | 1.87 |
| 50 n-propylbenzene | 2.24 |
| 52 1, 3, 5-Trimethylbenzene | 1.45 |
| 54 1, 2, 4-Trimethylbenzene | 4.62 |
| 56 sec-Butylbenzene | 1.07 |
| 58 4-Isopropyltoluene | 0.477 |
| 60 n-Butylbenzene | 1.44 |
| 64 Naphthalene | 1.31 |

| BH-3, 8-9' | Sample Result |
|-----------------------------|---------------|
| 13 2-Butanone | 14.4 |
| 40 Ethylbenzene | 5.46 |
| 41 m, p-Xylene | 5.27 |
| 44 o-Xylene | 0.143 |
| 47 Isopropylbenzene | 7.44 |
| 50 n-propylbenzene | 0.503 |
| 52 1, 3, 5-Trimethylbenzene | 2.84 |
| 54 1, 2, 4-Trimethylbenzene | 6.31 |
| 56 sec-Butylbenzene | 6.12 |
| 58 4-Isopropyltoluene | 2.14 |
| 60 n-Butylbenzene | 5.75 |
| 64 Naphthalene | 0.445 |

Borehole # 4 was drilled 29' north & 38' east of the Crouch Pig Station to a depth of 15 feet. Samples were taken at 3-4', 6', 9', and 15'. The samples were sent under chain of Custody to Cardinal Laboratories for analysis. All samples were analyzed for TPH (EPA method 600/4-79-020 418.1) and BTEX (EPA Method SW-846). In addition to TPH and BTEX the 3-4' sample was tested for Chlorides (EPA methods 4500-Cl⁻B). The results of the analysis are as follows:

| ID | TPH | Cl ⁻ | Benzene | Toluene | Ethyl Benzene | Total Xylenes |
|-----------|------|-----------------|---------|---------|---------------|---------------|
| BH-4 3-4' | 9740 | 80 | 0.046 | 12.1 | 30.0 | 51.7 |
| BH-4 6' | 4300 | - | <0.005 | 0.019 | 0.135 | 0.680 |
| BH-4 9' | 24.5 | - | <0.005 | <0.005 | <0.005 | <0.015 |
| BH-4 15' | <10 | - | <0.005 | <0.005 | <0.005 | <0.015 |

During the installation of Borehole#4, SESI personnel detected an unusual odor from the sample taken at 3-4 feet. For this reason, it was decided to analyze these samples for Volatiles (EPA method SW-846-8260). The following table represents the compounds detected in excess of regulatory limits. It should be noted that there were no chlorinated solvents detected. See appendix A for details.

| BH-4, 3-4' | Sample Result |
|-----------------------------|---------------|
| 13 2-Butanone | 1.09 |
| 21 Benzene | 0.045 |
| 31 Toluene | 12.1 |
| 40 Ethylbenzene | 30.0 |
| 41 m, p-Xylene | 35.1 |
| 44 o-Xylene | 16.5 |
| 47 Isopropylbenzene | 2.87 |
| 50 n-propylbenzene | 3.96 |
| 52 1, 3, 5-Trimethylbenzene | 1.77 |
| 54 1, 2, 4-Trimethylbenzene | 8.36 |
| 56 sec-Butylbenzene | 1.50 |
| 58 4-Isopropyltoluene | 0.626 |
| 60 n-Butylbenzene | 2.02 |
| 64 Naphthalene | 1.88 |

Borehole # 5 was drilled 37' north & 52' east of the Crouch Pig Station to a depth of 15 feet. Samples were taken at 5', 7-8', and 15'. The samples were sent under chain of Custody to Cardinal Laboratories for analysis. All samples were analyzed for TPH (EPA method 600/4-79-020 418.1) and BTEX (EPA Method SW-846). In addition to TPH & BTEX the 5' sample was tested for Chlorides (EPA methods 4500-Cl⁻B). The results of the analysis are as follows:

| ID | TPH | Cl ⁻ | Benzene | Toluene | Ethyl Benzene | Total Xylenes |
|-----------|------|-----------------|---------|---------|---------------|---------------|
| BH-5 5' | 1180 | 80 | <0.005 | 0.007 | 0.402 | 0.916 |
| BH-5 7-8' | 777 | - | <0.005 | <0.005 | 0.055 | 0.202 |
| BH-5 15' | <10 | - | <0.005 | <0.005 | <0.005 | <0.015 |

Borehole # 6 was drilled 19' east of the Crouch Pig Station to a depth of 20 feet. Samples were taken at 4-5', 8', 12-13', 15', and 20'. The samples were sent under chain of Custody to Cardinal Laboratories for analysis. All samples were analyzed for TPH (EPA method 600/4-79-020 418.1) and BTEX (EPA Method SW-846). In addition to TPH and BTEX the 4-5' sample was tested for Chlorides (EPA methods 4500-Cl⁻B). The results of the analysis are as follows:

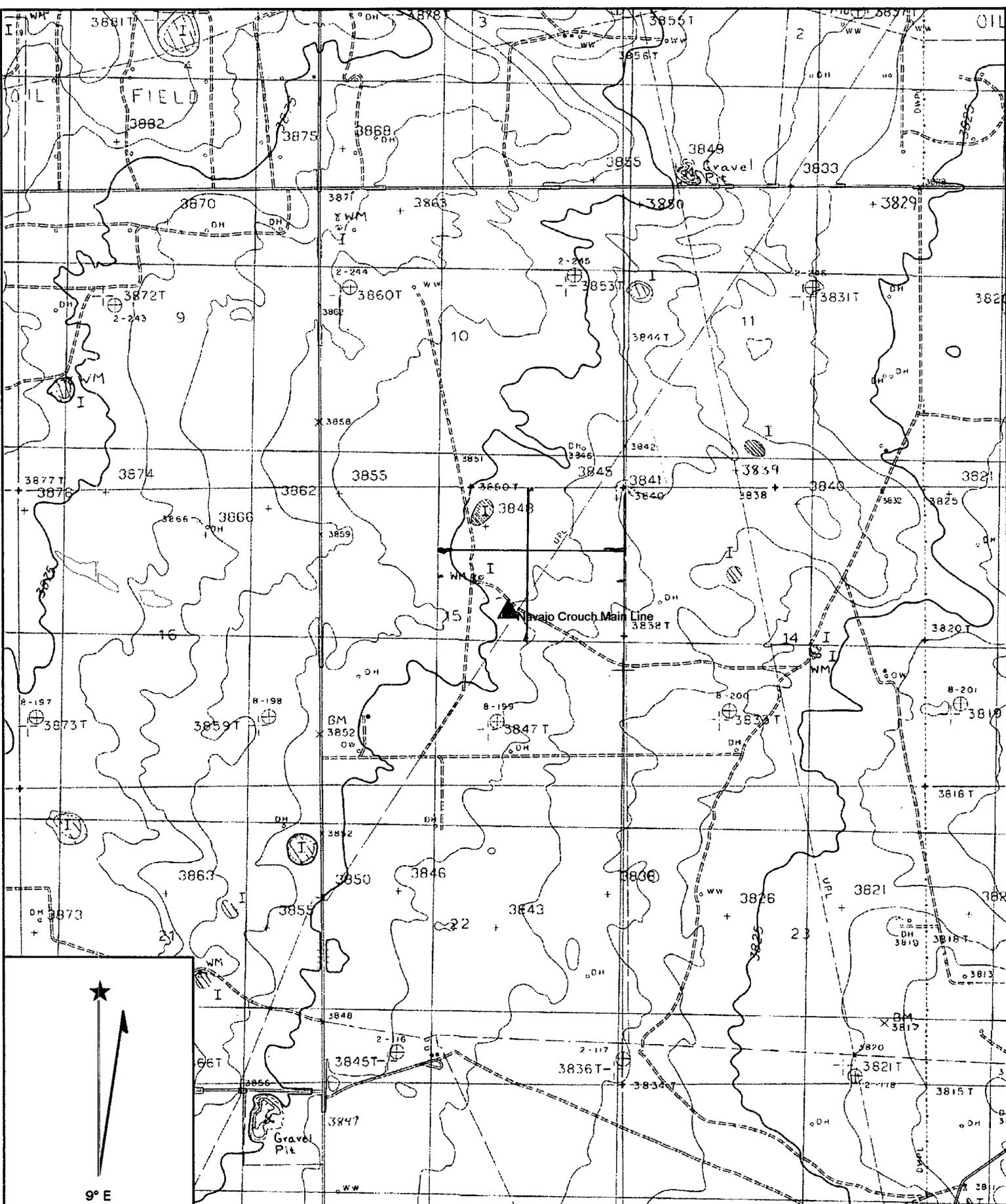
| ID | TPH | Cl ⁻ | Benzene | Toluene | Ethyl Benzene | Total Xylenes |
|-------------|------|-----------------|---------|---------|---------------|---------------|
| BH-6 4-5' | 8330 | 64 | <0.005 | 0.040 | 0.691 | 1.96 |
| BH-6 8' | 4920 | - | <0.005 | <0.005 | 0.008 | 0.030 |
| BH-6 12-13' | 806 | - | <0.005 | <0.005 | <0.005 | <0.015 |
| BH-6 15' | 45.0 | - | <0.005 | <0.005 | <0.005 | <0.015 |
| BH-6 20' | <10 | - | <0.005 | <0.005 | <0.005 | <0.015 |

After sampling, all Boreholes were plugged to a depth of 5' with bentonite chips and then backfilled to the surface with drill cuttings.

V. Figures & Appendices

- Figure 1 - Vicinity Map
- Figure 2 - Location of Boreholes
- Figure 3 - Log of Boring
- Appendix A - Analytical Results
- Appendix B - Site Photos

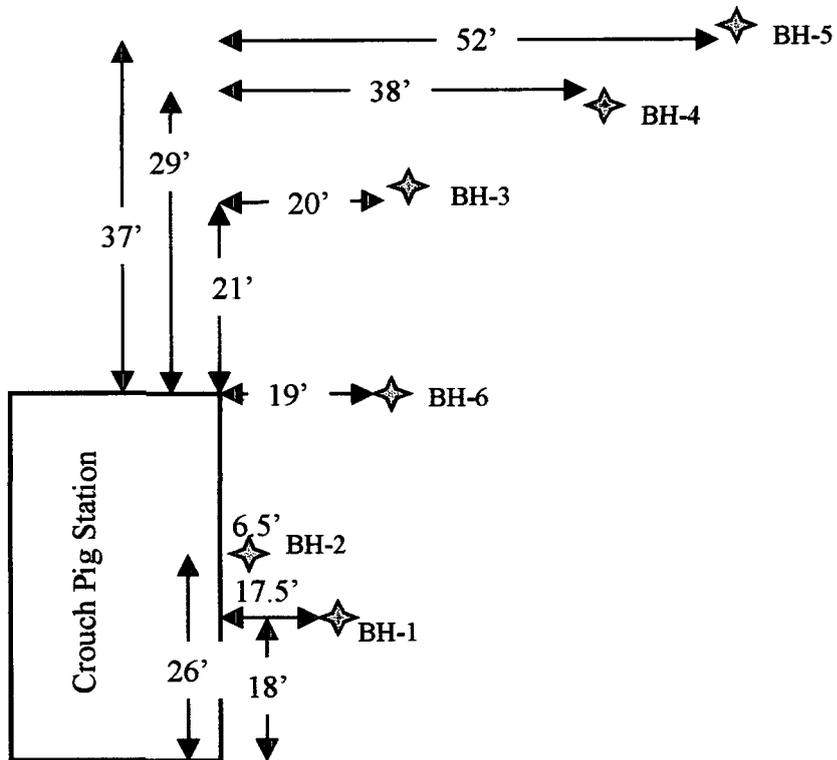
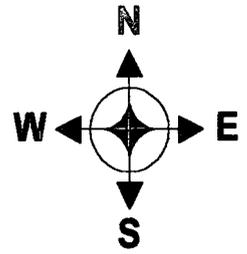
Figure 1 Vicinity Map



Name: LOVINGTON SE
 Date: 9/23/2003
 Scale: 1 inch equals 2222 feet

Location: 032° 50' 10.6" N 103° 20' 24.3" W
 Caption: Navajo Refining Company
 S15, T17S, R36E
 Lea County, New Mexico

**Figure 2
Location of Boreholes**



Date 3-3-03
Not To Scale

**Navajo Refining
Company**

Crouch Pig Station
Sec . 15 T17S R36E
Lea County, New Mexico

**Safety & Environmental
Solutions, Inc.**



**Figure 3
Log of Boring**



LOG OF BORING BH-1

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| | | |
|--|---|---|
| Site Investigation Crouch Pig Station | Date, Time Started: : 03/03/03 Date, Time Completed : 03/04/03, 0930 Hole Diameter: : 8-1/4 in. Drilling Method: : Hollow-stem auger, CME-75 Sampling Method: : Cuttings, core barrel | Drilled By: : Eco Drilling Logged By: : D.G. Boyer |
| Navajo Refining Company Artesia, New Mexico | | |

| Depth in Feet | Samples | Sample Type | Recovery (ft.) | USCS | GRAPHIC | Sample Condition | Sample Type: | Lab No. |
|---------------|---------|-------------|----------------|------|---------|---|--|---------|
| | | | | | | Remoulded Undisturbed Lost Rock Core | AR Air Rotary Cuttings CB Core Barrel (2.5' or 5') CT Auger Cuttings NR No recovery | |
| | | | | | | DESCRIPTION | | |

| | | | | | | | | |
|----|--|----|-----|-------|--|--|--|---------|
| 0 | | | | AR | | 1-3 ft. Surface soil, top fill, gravel and caliche | | |
| | | CB | -- | CA | | 3-5 ft. CALICHE | | |
| 5 | | | | SM | | 5-6 ft. SILTY SAND, light brown, sandstone fragments, slight H/C odor | | H7507-1 |
| | | | | SS | | 6-7.6 ft. SANDSTONE, light brown, partially cemented, soft in spots, sand very fine-grained, no or slight H/C odor | | H7514-1 |
| | | CB | 2.6 | SW/SS | | SAND and SANDSTONE | | H7514-2 |
| 10 | | | | SW | | 10.5-13.3 ft. SAND, light brown to brown, very fine grained, no H/C odor | | H7514-3 |
| | | CB | 3.3 | | | | | |
| 15 | | | | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |

Notes:
 Plugged hole to 5 ft. BLS with bentonite chips (hydrated)
 Backfilled 5 ft. to surface with cuttings
 H/C - Petroleum hydrocarbons
 Laboratory analyses by Cardinal Laboratories



LOG OF BORING BH-2

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| | | |
|--|---|---|
| Site Investigation Crouch Pig Station | Date, Time Started: : 03/04/03, 0935 Date, Time Completed : 03/04/03, 1015 Hole Diameter: : 8-1/4 in. Drilling Method: : Hollow-stem auger, CME-75 Sampling Method: : Cuttings, core barrel | Drilled By: : Eco Drilling Logged By: : D.G. Boyer |
| Navajo Refining Company Artesia, New Mexico | | |

| Depth in Feet | Samples | Sample Type | Recovery (ft.) | USCS | GRAPHIC | Sample Condition | Sample Type: | Lab No. |
|---------------|---------|-------------|----------------|------|---------|---|--|---------|
| | | | | | | Remoulded Undisturbed Lost Rock Core | AR Air Rotary Cuttings CB Core Barrel (2.5' or 5') CT Auger Cuttings NR No recovery | |
| | | | | | | DESCRIPTION | | |

| | | | | | | | | |
|----|--|----|-----|-------|--|--|--|---------|
| 0 | | CB | 0 | CA/SM | | Soil | 0-0.5 ft. Surface soil, black (organic), roots | H7514-4 |
| | | | | | | No core recovery, log from cuttings | | |
| | | | | | | 3 ft. CALICHE, fragments, and SILTY SAND or SANDY SILT | | |
| 5 | | | | | | SW | 4-5 ft. SAND, very fine grained, H/C odor | |
| | | CB | 3.3 | SM | | 5-7.6 ft. SILTY SAND, light brown, with occasional soft sandstone, with sandstone and caliche fragments, no H/C odor | H7514-5 | |
| | | | | | | 7.6-8.3 ft. SILTY SAND, with sandstone and caliche fragments, light brown to chalk white, no H/C odor, sandstone hard with carbonate cement. | | |
| 10 | | | | | | | | |
| 15 | | | | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |

Notes:
 Plugged hole to 5 ft. BLS with 2 bags bentonite chips (hydrated)
 Backfilled 5 ft. to surface with cuttings.
 H/C - Petroleum hydrocarbons
 Laboratory analyses by Cardinal Laboratories



LOG OF BORING BH-3

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Site Investigation
Crouch Pig Station

Date, Time Started: : 03/04/03, 1020

Drilled By: : Eco Drilling

Date, Time Completed : 03/04/03, 1230

Logged By: : D.G. Boyer

Hole Diameter: : 8-1/4 in.

Navajo Refining Company
Artesia, New Mexico

Drilling Method: : Hollow-stem auger, CME-75

Sampling Method: : Cuttings, core barrel

| Depth in Feet | Samples | Sample Type | Recovery (ft.) | USCS | GRAPHIC | Sample Condition | Sample Type: | DESCRIPTION | Lab No. |
|---------------|---------|-------------|----------------|-------|---------|---|--|--|----------|
| | | | | | | Remoulded Undisturbed Lost Rock Core | AR Air Rotary Cuttings CB Core Barrel (2.5' or 5') CT Auger Cuttings NR No recovery | | |
| 0 | | | | | | Soil | | 0-0.5 ft. Surface soil, dark, roots, no H/C odor | |
| | | CB | 0.5 | CA/ML | | | | 0.5-3 ft. CALICHE and SANDY SILT | H7514-6 |
| | | | | ML | | | | 3-5 ft. SANDY SILT, with caliche fragments, strong H/C odor | |
| 5 | | | | SM/ML | | | | 5-6.5 ft. SANDY SILT and SILTY SAND, light brown, caliche fragments, strong H/C odor | |
| | | CB | 2.6 | ML | | | | 6.5-7.6 ft. SANDY SILT, with frequent caliche and fragments, light brown to chalk white | H7514-7 |
| 10 | | | | SS | | | | 10-10.5 ft. SANDSTONE (fragments), well cemented | |
| | | | | SP | | | | 10.5-11.8 ft. SAND, with silt and sandstone fragments, possible H/C odor | |
| | | CB | 2.6 | | | | | 11.8-12.6 ft. SAND, light brown, uniform, very fine grained, possible H/C odor | |
| 15 | | | | | | | | 15-18.5 ft. SAND, very fine grained, uniform, occasional sandstone fragments, H/C odor on cuttings | H7514-8 |
| | | CB | 3.5 | | | | | | H7514-9 |
| 20 | | | | SW | | | | 20-25 ft. SAND, very fine grained to 25 ft. sandstone in core tip | H7514-10 |
| | | CB | 0.8 | | | | | | |
| 25 | | | | | | | | 25-28.6 ft. SAND, light brown, very fine grained, occasional sandstone fragment | H7514-11 |
| | | CB | 3.6 | | | | | | |
| 30 | | | | | | | | 29-30 ft. SAND, with numerous sandstone fragments 29-30 ft. None or possibly only slight H/C odor | |

Notes:

Plugged hole to 10 ft. BLS with 8 bags bentonite chips (hydrated)

Backfilled 10 ft. to surface with cuttings

H/C - Petroleum hydrocarbons

Laboratory analyses by Cardinal Laboratories



LOG OF BORING BH-4

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| | | |
|--|---|---|
| Site Investigation Crouch Pig Station | Date, Time Started: : 03/04/03, 1300 Date, Time Completed : 03/04/03, 1350 Hole Diameter: : 8-1/4 in. Drilling Method: : Hollow-stem auger, CME-75 Sampling Method: : Cuttings, core barrel | Drilled By: : Eco Drilling Logged By: : D.G. Boyer |
| Navajo Refining Company Artesia, New Mexico | | |

| Depth in Feet | Samples | Sample Type | Recovery (ft.) | USCS | GRAPHIC | Sample Condition | Sample Type: | Lab No. |
|---------------|---------|-------------|----------------|------|---------|---|--|---------|
| | | | | | | Remoulded Undisturbed Lost Rock Core | AR Air Rotary Cuttings CB Core Barrel (2.5' or 5') CT Auger Cuttings NR No recovery | |
| DESCRIPTION | | | | | | | | |

| | | | | | | | | |
|----|--|----|-----|---------|--|---|--|----------|
| 0 | | | | Topsoil | | 0-0.4 ft. Surface rock, soil | | |
| | | | | ML | | 0.4-0.5 ft. Dark brown/gray zone, noH/C odor | | |
| | | | | CA | | 0.5-1.8 ft. SILT, with caliche fragments, H/C odor | | |
| | | CB | 2 | ML | | 1.8-2.0 ft. CALICHE, in core barrel tip | | |
| | | | | ML | | SILT, with caliche fragments | | H7514-12 |
| 5 | | | | CA | | 5-5.5 ft. CALICHE, with silty sand | | H7514-13 |
| | | CB | 3.7 | SM/SS | | 5.5-8.7 ft. SILTY SAND and SANDSTONE, partially consolidated, H/C odor to approximately 7 ft. | | H7514-14 |
| 10 | | | | CA/SS | | 10-10.2 ft. Caliche and sandstone (fragments) | | |
| | | | | SW | | 10.2-10.7 SAND, light brown, very fine grained, sandstone fragments | | |
| | | | | SS | | 10.7-11.3 ft. SANDSTONE, mostly consolidated | | |
| | | CB | 2.6 | SW | | 11.3-12.6 ft. SAND, very light brown, very fine to fine grained, no H/C odor | | H7514-15 |

Notes:
 Plugged hole to 5 ft. BLS with 4 bags bentonite chips (hydrated)
 Backfilled 5 ft. to surface with cuttings
 H/C - Petroleum hydrocarbons
 Laboratory analyses by Cardinal Laboratories



LOG OF BORING BH-5

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| | | |
|--|---|---|
| Site Investigation Crouch Pig Station | Date, Time Started: : 03/04/03, 1405 Date, Time Completed : 03/04/03, 1455 Hole Diameter: : 8-1/4 in. Drilling Method: : Hollow-stem auger, CME-75 Sampling Method: : Cuttings, core barrel | Drilled By: : Eco Drilling Logged By: : D.G. Boyer |
| Navajo Refining Company Artesia, New Mexico | | |

| Depth in Feet | Samples | Sample Type | Recovery (ft.) | USCS | GRAPHIC | Sample Condition | Sample Type: | DESCRIPTION | Lab No. |
|---------------|---------|-------------|----------------|------|---------|---|--|-------------|---------|
| | | | | | | Remoulded Undisturbed Lost Rock Core | AR Air Rotary Cuttings CB Core Barrel (2.5' or 5') CT Auger Cuttings NR No recovery | | |

| Depth in Feet | Samples | Sample Type | Recovery (ft.) | USCS | GRAPHIC | DESCRIPTION | Lab No. |
|---------------|---------|-------------|----------------|------------|---------|--|----------|
| 0 | | | | CA/Topsoil | | 0-1 ft. CALICHE and undisturbed topsoil | |
| 1-3 | | CT | -- | CA/ML | | 1-3 ft. CALICHE and SANDY SILT | |
| 3-4 | | | | | | 3-4 ft. CALICHE | |
| 4-5 | | | | ML | | 4-5 ft. SANDY SILT with caliche fragments | H7514-16 |
| 5-5.7 | | | | | | 5-5.7 ft. SANDY SILT with caliche fragments, light brown and gray, strong H/C odor | |
| 5.7-6.2 | | | | | | 5.7-6.2 ft. SANDY SILT, light brown | |
| 6.2-7 | | CB | 2 | CA | | 6.2-7 ft. CALICHE with silty sand, strong H/C odor at 8 ft. | H7514-17 |
| 10 | | | | SS/SW | | 10 ft. CALICHE and sandstone slough | |
| 10.3-11.4 | | | | | | 10.3-11.4 ft. SANDSTONE and SAND, poorly consolidated sandstone | |
| 11.4-12.2 | | CB | 3.2 | SS | | 11.4-12.2 ft. SANDSTONE, medium consolidation | |
| 12.2-13.2 | | | | SW | | 12.2-13.2 ft. SAND, light brown, very fine grained, no H/C odor | H7514-18 |

Notes:
 Plugged hole to 5 ft. BLS with 4 bags bentonite chips (hydrated)
 Backfilled 5 ft. to surface with cuttings
 H/C - Petroleum hydrocarbons
 Laboratory analyses by Cardinal Laboratories



LOG OF BORING BH-6

(Page 1 of 1)

Site Investigation
Crouch Pig Station

Date, Time Started: : 03/04/03, 1500

Drilled By: : Eco Drilling

Date, Time Completed : 03/04/03, 1610

Logged By: : D.G. Boyer

Hole Diameter: : 8-1/4 in.

Navajo Refining Company
Artesia, New Mexico

Drilling Method: : Hollow-stem auger, CME-75

Sampling Method: : Cuttings, core barrel

| Depth in Feet | Samples | Sample Type | Recovery (ft.) | USCS | GRAPHIC | Sample Condition | Sample Type: | DESCRIPTION | Lab No. |
|---------------|---------|-------------|----------------|-------|-------------|---|--|---|----------|
| | | | | | | Remoulded Undisturbed Lost Rock Core | AR Air Rotary Cuttings CB Core Barrel (2.5' or 5') CT Auger Cuttings NR No recovery | | |
| 0 | | | | | Topsoil/CAT | | | 0-1 ft. Topsoil and caliche | |
| 1 | | CB | 1 | CA/ML | | | | From cuttings, 1-5 ft. Alternating CALICHE and sandy SANDY SILT | H7514-19 |
| 5 | | CB | 1.6 | SM | | | | 5-10 ft. SILTY SAND, with occasional caliche fragments, H/C odor | H7514-20 |
| 10 | | | | SM/SS | | | | 10.0-10.5 ft. SILTY SAND and soft SANDSTONE, light brown, H/C odor | |
| | | | | SS | | | | 10.5-11.2 ft. SANDSTONE, brown, hard | |
| 15 | | CB | 2.4 | SW/SS | | | | 11.2-12.4 ft. SAND and partially consolidated SANDSTONE, light brown, no H/C odor | H7514-21 |
| 15 | | CB | 3.6 | SW | | | | 15-18.6 ft. SAND, light brown, fine grained, uniform, no H/C odor | H7514-22 |
| 20 | | | | SS | | | | 18.6 ft. SANDSTONE rock in core tip | H7514-23 |

51000

600

45

Notes:

Plugged hole to 5 ft. BLS with 6 bags bentonite chips (hydrated)

Backfilled 5 ft. to surface with cuttings

H/C - Petroleum hydrocarbons

Laboratory analyses by Cardinal Laboratories

Appendix A Analytical Results



ARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, #103
HOBBS, NM 88240
FAX TO: (505) 393-4388

Receiving Date: 03/03/03
Reporting Date: 03/04/03
Project Number: NAV-03-001
Project Name: CROUCH PIG STATION
Project Location: NOT GIVEN

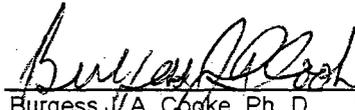
Sampling Date: 03/03/03
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/AH

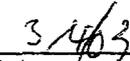
| LAB NUMBER | SAMPLE ID | TPH (mg/Kg) | CI* (mg/Kg) | BENZENE (mg/Kg) | TOLUENE (mg/Kg) | ETHYL BENZENE (mg/Kg) | TOTAL XYLENES (mg/Kg) |
|------------|-----------|----------------|----------------|--------------------|--------------------|-----------------------------|-----------------------------|
|------------|-----------|----------------|----------------|--------------------|--------------------|-----------------------------|-----------------------------|

| | | | | | | | |
|-----------------------------|--------|----------|----------|----------|----------|----------|----------|
| ANALYSIS DATE: | | 03/04/03 | 03/04/03 | 03/03/03 | 03/03/03 | 03/03/03 | 03/03/03 |
| H7507-1 | BH #15 | 19200 | 176 | <0.005 | 0.008 | <0.005 | 1.91 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Quality Control | | 227 | 1080 | 0.105 | 0.101 | 0.106 | 0.308 |
| True Value QC | | 240 | 1000 | 0.100 | 0.100 | 0.100 | 0.300 |
| % Recovery | | 94.4 | 108 | 105 | 101 | 106 | 103.0 |
| Relative Percent Difference | | 0.7 | 8.0 | 5.9 | 6.0 | 7.2 | 7.8 |

METHODS: TRPHC-EPA 600/4-79-020 418.1; CI-Std. Methods 4500-CI'B; BTEX-EPA SW-846 8260

*Analyses performed on 1:4 w:v aqueous extracts.


Burgess J. A. Cooke, Ph. D.


Date 3/4/03



ARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

| | | | | | | | |
|----------------------------------|--|--|--|---|--|---|--|
| Company Name: SEST | | Project Manager: | | Company: SAME | | PO #: | |
| Address: 703 F. CLINTON, #103 | | City: HOBBS | | Address: | | State: NM Zip: 88240 | |
| Phone #: (505) 397-0510 | | Fax #: (505) 393-4388 | | City: | | State: Zip: | |
| Project #: WAD-03001 | | Project Owner: | | Phone #: | | Fax #: | |
| Project Name: Crouch Pig Station | | Project Location: | | Matrix: | | PRES. SAMPLING | |
| FOR LAB USE ONLY | | LAB I.D. | | Sample I.D. | | DATE TIME | |
| 17507-1 | | BWH 1 8' | | G(R)AB OR (C)OMP. | | 3-3-03 10:60 | |
| | | | | # CONTAINERS | | | |
| | | | | GROUNDWATER | | | |
| | | | | WASTEWATER | | | |
| | | | | SOIL | | | |
| | | | | OIL | | | |
| | | | | SLUDGE | | | |
| | | | | OTHER: | | | |
| | | | | ACID: | | | |
| | | | | ICE / COOL | | | |
| | | | | OTHER: | | | |
| | | | | RECEIVED BY: Lab Staff | | | |
| Relinquished By: <i>Reedson</i> | | Date: 3-3-03 | | Time: 1:00 | | Received By: <i>Reedson</i> | |
| Delivered By: (Circle One) | | Date: 3-3-03 | | Time: 4:15 PM | | Sample/Condition Checked By: <i>Reedson</i> | |
| Sampler - UPS - Bus - Other: | | Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | Sample Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | Additional Fax #: | |
| REMARKS: | | Phone Result <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | Fax Result <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | |

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Time and Conditional Interval will be charged on all accounts more than 30 days past due at the rate of 2% per month from the original date of invoice, and all costs of collection, including attorney's fees.



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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN
703 E. CLINTON, #103
HOBBS, NM 88240
FAX TO: (505) 393-4388

Receiving Date: 03/04/03
Reporting Date: 03/10/03
Project Number: NAV-03-001
Project Name: PIG STATION
Project Location: U BAR RANCH

Sampling Date: 03/04/03
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC/AH

| LAB NUMBER | SAMPLE ID | TPH (mg/Kg) | CI* (mg/Kg) | BENZENE (mg/Kg) | TOLUENE (mg/Kg) | ETHYL BENZENE (mg/Kg) | TOTAL XYLENES (mg/Kg) |
|-----------------------------|--------------|----------------|----------------|--------------------|--------------------|-----------------------------|-----------------------------|
| ANALYSIS DATE: | | 03/05/03 | 03/06/03 | 03/06/03 | 03/06/03 | 03/06/03 | 03/06/03 |
| H7514-1 | BH-1, 6' | 4060 | 112 | <0.005 | <0.005 | 0.016 | 0.796 |
| H7514-2 | BH-1, 9-10' | 790 | - | <0.005 | <0.005 | <0.005 | <0.015 |
| H7514-3 | BH-1, 13-14' | <10 | - | <0.005 | <0.005 | <0.005 | <0.015 |
| H7514-4 | BH-2, 5' | 1360 | 80 | <0.005 | <0.005 | 0.020 | 0.086 |
| H7514-5 | BH-2, 7-8' | 115 | - | <0.005 | <0.005 | <0.005 | <0.015 |
| H7514-6 | BH-3, 3-4' | 7570 | 64 | <0.005 | 0.209 | 7.14 | 11.8 |
| H7514-7 | BH-3, 8-9' | 16000 | - | <0.005 | 0.027 | 5.46 | 5.41 |
| H7514-8 | BH-3, 15' | 48.8 | - | <0.005 | <0.005 | <0.005 | <0.015 |
| H7514-9 | BH-3, 18' | 29.7 | - | <0.005 | <0.005 | <0.005 | <0.015 |
| H7514-10 | BH-3, 22-23' | 367 | - | <0.005 | <0.005 | <0.005 | <0.015 |
| H7514-11 | BH-3, 28' | <10 | - | <0.005 | <0.005 | <0.005 | <0.015 |
| H7514-12 | BH-4, 3-4' | 9740 | 80 | 0.046 | 12.1 | 30.0 | 51.7 |
| H7514-13 | BH-4, 6' | 4300 | - | <0.005 | 0.019 | 0.135 | 0.680 |
| H7514-14 | BH-4, 9' | 24.5 | - | <0.005 | <0.005 | <0.005 | <0.015 |
| H7514-15 | BH-4, 15' | <10 | - | <0.005 | <0.005 | <0.005 | <0.015 |
| H7514-16 | BH-5, 5' | 1180 | 80 | <0.005 | 0.007 | 0.402 | 0.916 |
| H7514-17 | BH-5, 7-8' | 777 | - | <0.005 | <0.005 | 0.055 | 0.202 |
| H7514-18 | BH-5, 15' | <10 | - | <0.005 | <0.005 | <0.005 | <0.015 |
| H7514-19 | BH-6, 4-5' | 8330 | 64 | <0.005 | 0.040 | 0.691 | 1.96 |
| H7514-20 | BH-6, 8' | 4920 | - | <0.005 | <0.005 | 0.008 | 0.030 |
| H7514-21 | BH-6, 12-13' | 806 | - | <0.005 | <0.005 | <0.005 | <0.015 |
| H7514-22 | BH-6, 15' | 45.0 | - | <0.005 | <0.005 | <0.005 | <0.015 |
| H7514-23 | BH-6, 20' | <10 | - | <0.005 | <0.005 | <0.005 | <0.015 |
| Quality Control | | 240 | 1080 | 0.098 | 0.098 | 0.098 | 0.283 |
| True Value QC | | 240 | 1000 | 0.100 | 0.100 | 0.100 | 0.300 |
| % Recovery | | 100 | 108 | 98.0 | 97.9 | 97.8 | 94.2 |
| Relative Percent Difference | | 7.1 | 8.0 | 7.5 | 3.5 | 8.1 | 9.1 |

METHODS: TRPHC-EPA 600/4-79-020 418.1; CI-Std. Methods 4500-CI'B; BTEX-EPA SW-846 8260

*Analyses performed on 1:4 w/v aqueous extracts.

Burgess J.A. Cooke
Burgess J.A. Cooke, Ph. D.

3/10/03
Date

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CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 873-7001 Fax (915) 873-7020 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

Company Name: SEST
 Project Manager: Bob Miller
 Address: 703 E. CLINTON, #103
 City: HOBBS State: NM Zip: 88240
 Phone #: (505) 397-0510
 Fax #: (505) 393-4388
 Project #: MAI-03-001 Project Owner: WATKINS
 Project Name: Pipe Station
 Project Location: N. Hwy 205-6
 FOR LAB USE ONLY

| | |
|---------------|-------|
| Company: SAME | PO #: |
| Attn: KRISTE | |
| Address: | |
| City: | |
| State: | |
| Zip: | |
| Phone #: | |
| Fax #: | |

| LAB I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | | DATE | TIME | REMARKS | |
|----------|--------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|-------|------|------|-----------|------------|
| | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID: | | | | ICE / COOL |
| 47514-1 | BH-1, 6' | G 1 | 1 | X | X | X | X | X | X | X | 3/4 | 0850 | RTEX | |
| 47514-2 | BH-1, 9-10' | G 1 | 1 | X | X | X | X | X | X | X | 3/4 | 0905 | IPH 418.1 | |
| 47514-3 | BH-1, 13-14' | G 1 | 1 | X | X | X | X | X | X | X | 3/4 | 0915 | CL- | |
| 47514-4 | BH-2, 5' | G 1 | 1 | X | X | X | X | X | X | X | 3/4 | 0950 | | |
| 47514-5 | BH-2, 7-8' | G 1 | 1 | X | X | X | X | X | X | X | 3/4 | 1005 | | |
| 47514-6 | BH-3, 2-4' | G 1 | 1 | X | X | X | X | X | X | X | 3/4 | 1025 | | |
| 47514-7 | BH-3, 8-9' | G 1 | 1 | X | X | X | X | X | X | X | 3/4 | 1055 | | |
| 47514-8 | BH-3, 15' | G 1 | 1 | X | X | X | X | X | X | X | 3/4 | 1110 | | |
| 47514-9 | BH-3, 18' | G 1 | 1 | X | X | X | X | X | X | X | 3/4 | 1125 | | |

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Sampler Relinquished: [Signature]
 Date: 3/4/03
 Time: 12:15

Relinquished By: [Signature]
 Received By: (Lab Staff) [Signature]
 Date: 03/04/2003
 Time: 6:15 PM

Delivered By: (Circle One)
 UPS - Bus - Other:
 Sample Condition: Cool Intact
 Yes No
 CHECKED BY: [Signature]
 REMARKS: [Blank]



CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 80240
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 3

ANALYSIS REQUEST

| | | | | | | | |
|-------------------------------|-------|------------------------------|--|-----------------------|--|-------|--|
| Company Name: SESTI | | Project Manager: Bob Allen | | Company: SAME | | PO #: | |
| Address: 703 E. CLINTON, #103 | | State: NM Zip: 88240 | | Address: KRISTE | | | |
| City: HOBBS | | Phone #: (505) 397-0510 | | City: | | | |
| Fax #: (505) 393-4388 | | Project #: NA17-03-001 | | Project Owner: NABRIP | | | |
| Project Name: Piquet Station | | Project Location: 11 RR RAMP | | Phone #: | | | |
| FOR LAB USE ONLY | | LAB I.D. | | Sample I.D. | | | |
| DATE | | TIME | | ANALYSIS | | | |
| 11/14/03 | 13:55 | BTEX | | TPH | | CL | |
| 11/14/03 | 13:05 | X | | X | | X | |
| 11/14/03 | 13:00 | X | | X | | X | |
| 11/14/03 | 13:17 | X | | X | | X | |
| 11/14/03 | 13:28 | X | | X | | X | |
| 11/14/03 | 13:40 | X | | X | | X | |
| 11/14/03 | 14:10 | X | | X | | X | |
| 11/14/03 | 14:30 | X | | X | | X | |
| 11/14/03 | 14:35 | X | | X | | X | |
| 11/14/03 | 15:05 | X | | X | | X | |

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Time and Conditions: Invoiced will be charged on all accounts more than 30 days past due at the rate of 2% per annum from the original date of invoice, and all cost of collection, including attorney's fees.

Sample Relinquished: Date: 3/4/05 Time: 12:25 Received By: [Signature]

Relinquished By: [Signature]

Delivered By: (Circle One) [Signature] UPS - Bus - Other: [Signature]

Received By: (Lab Staff) [Signature] Sample Condition: [Signature] Checked By: [Signature]

REMARKS:

Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, #103
HOBBS, NM 88240
FAX TO: (505) 393-4388

Receiving Date: 03/04/03
Reporting Date: 03/17/03
Project Number: NAV-03-001
Project Name: PIG STATION
Project Location: U BAR RANCH
Lab Number: H7514-6
Sample ID: BH-3, 3-4'

Analysis Date: 03/06/03
Sampling Date: 03/04/03
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

ADDITIONAL ANALYSIS

| VOLATILES - 8260 (ppm) | | Sample Result | Method | True Value | |
|------------------------|---------------------------|---------------|--------|------------|-------|
| | | H7514-6 | Blank | QC %Recov. | QC |
| 1 | Dichlorodifluoromethane | <0.025 | <0.025 | 0.101 | 0.100 |
| 2 | Chloromethane | <0.025 | <0.025 | 0.119 | 0.100 |
| 3 | Vinyl chloride | <0.025 | <0.025 | 0.085 | 0.100 |
| 4 | Bromomethane | <0.025 | <0.025 | 0.087 | 0.100 |
| 5 | Chloroethane | <0.025 | <0.025 | 0.084 | 0.100 |
| 6 | Iodomethane | <0.025 | <0.025 | 0.097 | 0.100 |
| 7 | 1,1-Dichloroethene | <0.025 | <0.025 | 0.114 | 0.100 |
| 8 | Trichlorofluoromethane | <0.025 | <0.025 | 0.088 | 0.100 |
| 9 | Carbon Disulfide | <0.025 | <0.025 | 0.112 | 0.100 |
| 10 | Methylene chloride | <0.025 | <0.025 | 0.114 | 0.100 |
| 11 | trans-1,2-Dichloroethene | <0.025 | <0.025 | 0.107 | 0.100 |
| 12 | 1,1-Dichloroethane | <0.025 | <0.025 | 0.114 | 0.100 |
| 13 | 2-Butanone | <0.250 | <0.250 | 0.094 | 0.100 |
| 14 | cis-1,2-Dichloroethene | <0.025 | <0.025 | 0.098 | 0.100 |
| 15 | 2,2-Dichloropropane | <0.025 | <0.025 | 0.114 | 0.100 |
| 16 | Chloroform | <0.025 | <0.025 | 0.112 | 0.100 |
| 17 | Bromochloromethane | <0.025 | <0.025 | 0.082 | 0.100 |
| 18 | 1,1,1-Trichloroethane | <0.025 | <0.025 | 0.117 | 0.100 |
| 19 | 1,2-Dichloroethane | <0.025 | <0.025 | 0.106 | 0.100 |
| 20 | 1,1-Dichloropropene | <0.025 | <0.025 | 0.084 | 0.100 |
| 21 | Benzene | <0.025 | <0.025 | 0.102 | 0.100 |
| 22 | Carbon tetrachloride | <0.025 | <0.025 | 0.099 | 0.100 |
| 23 | Trichloroethene | <0.025 | <0.025 | 0.095 | 0.100 |
| 24 | Dibromomethane | <0.025 | <0.025 | 0.093 | 0.100 |
| 25 | Bromodichloromethane | <0.025 | <0.025 | 0.083 | 0.100 |
| 26 | (2-Chloroethoxy)ethene | <0.025 | <0.025 | 0.074 | 0.100 |
| 27 | trans-1,3-Dichloropropene | <0.025 | <0.025 | 0.112 | 0.100 |
| 28 | 4-methyl-2-pentanone | <0.250 | <0.250 | 0.084 | 0.100 |
| 29 | 1,2-Dichloropropane | <0.025 | <0.025 | 0.089 | 0.100 |
| 30 | cis-1,3-Dichloropropene | <0.025 | <0.025 | 0.117 | 0.100 |
| 31 | Toluene | 0.209 | <0.025 | 0.107 | 0.100 |

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, #103
HOBBS, NM 88240
FAX TO: (505) 393-4388

Receiving Date: 03/04/03
Reporting Date: 03/17/03
Project Number: NAV-03-001
Project Name: PIG STATION
Project Location: U BAR RANCH
Lab Number: H7514-6
Sample ID: BH-3, 3-4'

Analysis Date: 03/06/03
Sampling Date: 03/04/03
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

ADDITIONAL ANALYSIS

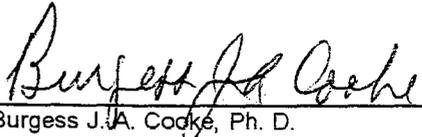
| VOLATILES - 8260 (ppm) | Sample Result H7514-6 | Method Blank | QC | %Recov. | True Value QC |
|---------------------------|--------------------------|-----------------|-------|---------|------------------|
| 63 Hexachlorobutadiene | <0.025 | <0.025 | 0.106 | 106 | 0.100 |
| 64 Naphthalene | 1.31 | <0.025 | 0.082 | 82 | 0.100 |
| 65 1,2,4-Trichlorobenzene | <0.025 | <0.025 | 0.088 | 88 | 0.100 |

% Recovery

| | |
|-------------------------|-----|
| 66 Dibromofluoromethane | 94 |
| 67 Toluene-d8 | 94 |
| 68 4-Bromofluorobenzene | 107 |

METHODS: EPA SW-846-8260.

NOTE: The three highest BTEX samples were reprocessed using the daily 8260 calibration in order to check for halocarbon pollutants. None were detected.


Burgess J.A. Cooke, Ph. D.

3/17/03
Date.



ARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, #103
HOBBS, NM 88240
FAX TO: (505) 393-4388

Receiving Date: 03/04/03
Reporting Date: 03/17/03
Project Number: NAV-03-001
Project Name: PIG STATION
Project Location: U BAR RANCH
Lab Number: H7514-7
Sample ID: BH-3, 8-9'

Analysis Date: 03/06/03
Sampling Date: 03/04/03
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

ADDITIONAL ANALYSIS

VOLATILES - 8260 (ppm) Sample Result Method True Value
H7514-7 Blank QC %Recov: QC

| | Sample Result | Method | QC | %Recov: | True Value | |
|----|---------------------------|-------------|------------------|---------|------------|-------|
| | H7514-7 | Blank | | | QC | |
| 1 | Dichlorodifluoromethane | <0.050 | <0.050 | 0.101 | 101 | 0.100 |
| 2 | Chloromethane | <0.050 | <0.050 | 0.119 | 119 | 0.100 |
| 3 | Vinyl chloride | <0.050 | <0.050 | 0.085 | 85 | 0.100 |
| 4 | Bromomethane | <0.050 | <0.050 | 0.087 | 87 | 0.100 |
| 5 | Chloroethane | <0.050 | <0.050 | 0.084 | 84 | 0.100 |
| 6 | Iodomethane | <0.050 | <0.050 | 0.097 | 97 | 0.100 |
| 7 | 1,1-Dichloroethene | <0.050 | <0.050 | 0.114 | 114 | 0.100 |
| 8 | Trichlorofluoromethane | <0.050 | <0.050 | 0.088 | 88 | 0.100 |
| 9 | Carbon Disulfide | <0.050 | <0.050 | 0.112 | 112 | 0.100 |
| 10 | Methylene chloride | <0.050 | <0.050 | 0.114 | 114 | 0.100 |
| 11 | trans-1,2-Dichloroethene | <0.050 | <0.050 | 0.107 | 107 | 0.100 |
| 12 | 1,1-Dichloroethane | <0.050 | <0.050 | 0.114 | 114 | 0.100 |
| 13 | 2-Butanone | 14.4 | <0.050 | 0.094 | 94 | 0.100 |
| 14 | cis-1,2-Dichloroethene | <0.050 | <0.050 | 0.098 | 98 | 0.100 |
| 15 | 2,2-Dichloropropane | <0.050 | <0.050 | 0.114 | 114 | 0.100 |
| 16 | Chloroform | <0.050 | <0.050 | 0.112 | 112 | 0.100 |
| 17 | Bromochloromethane | <0.050 | <0.050 | 0.082 | 82 | 0.100 |
| 18 | 1,1,1-Trichloroethane | <0.050 | <0.050 | 0.117 | 117 | 0.100 |
| 19 | 1,2-Dichloroethane | <0.050 | <0.050 | 0.106 | 106 | 0.100 |
| 20 | 1,1-Dichloropropene | <0.050 | <0.050 | 0.084 | 84 | 0.100 |
| 21 | Benzene | <0.050 | <0.050 | 0.102 | 102 | 0.100 |
| 22 | Carbon tetrachloride | <0.050 | <0.050 | 0.099 | 99 | 0.100 |
| 23 | Trichloroethene | <0.050 | <0.050 | 0.095 | 95 | 0.100 |
| 24 | Dibromomethane | <0.050 | <0.050 | 0.093 | 93 | 0.100 |
| 25 | Bromodichloromethane | <0.050 | <0.050 | 0.083 | 83 | 0.100 |
| 26 | (2-Chloroethoxy)ethene | <0.050 | <0.050 | 0.074 | 74 | 0.100 |
| 27 | trans-1,3-Dichloropropene | <0.050 | <0.050 | 0.112 | 112 | 0.100 |
| 28 | 4-methyl-2-pentanone | <0.050 | <0.050 | 0.084 | 84 | 0.100 |
| 29 | 1,2-Dichloropropane | <0.050 | <0.050 | 0.089 | 89 | 0.100 |
| 30 | cis-1,3-Dichloropropene | <0.050 | <0.050 | 0.117 | 117 | 0.100 |
| 31 | Toluene | <0.050 | <0.050 | 0.107 | 107 | 0.100 |

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN
703 E. CLINTON, #103
HOBBS, NM 88240
FAX TO: (505) 393-4388

Receiving Date: 03/04/03
Reporting Date: 03/17/03
Project Number: NAV-03-001
Project Name: PIG STATION
Project Location: U BAR RANCH
Lab Number: H7514-7
Sample ID: BH-3, 8-9'

Analysis Date: 03/06/03
Sampling Date: 03/04/03
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

ADDITIONAL ANALYSIS

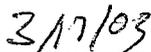
| VOLATILES - 8260 (ppm) | Sample Result H7514-7 | Method Blank | QC %Recov. | True Value QC | |
|---------------------------|--------------------------|-----------------|------------|------------------|-------|
| 63 Hexachlorobutadiene | <0.050 | <0.050 | 0.106 | 106 | 0.100 |
| 64 Naphthalene | 0.445 | <0.050 | 0.082 | 82 | 0.100 |
| 65 1,2,4-Trichlorobenzene | <0.050 | <0.050 | 0.088 | 88 | 0.100 |

| | % Recovery |
|-------------------------|------------|
| 66 Dibromofluoromethane | 94 |
| 67 Toluene-d8 | 94 |
| 68 4-Bromofluorobenzene | 107 |

METHODS: EPA SW-846-8260.

NOTE: The three highest BTEX samples were reprocessed using the daily 8260 calibration in order to check for halocarbon pollutants. None were detected.


Burgess J. A. Cooke, Ph. D.


Date.



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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN
703 E. CLINTON, #103
HOBBS, NM 88240
FAX TO: (505) 393-4388

Receiving Date: 03/04/03
Reporting Date: 03/17/03
Project Number: NAV-03-001
Project Name: PIG STATION
Project Location: U BAR RANCH
Lab Number: H7514-12
Sample ID: BH-4, 3-4"

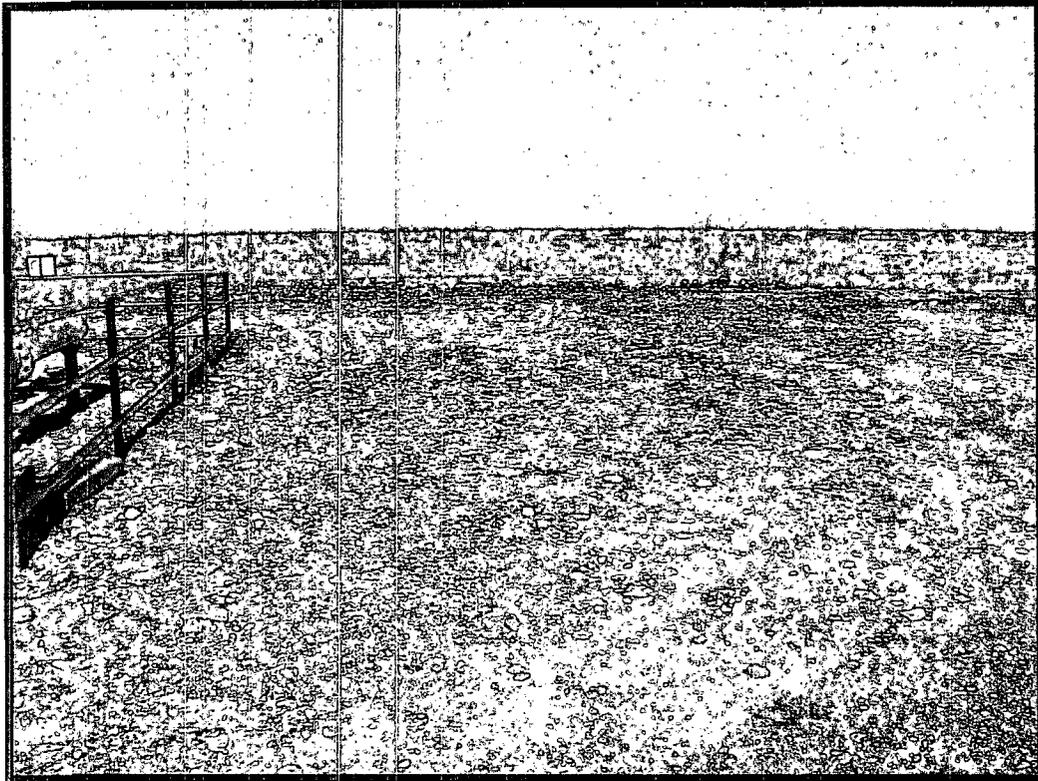
Analysis Date: 03/06/03
Sampling Date: 03/04/03
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

ADDITIONAL ANALYSIS

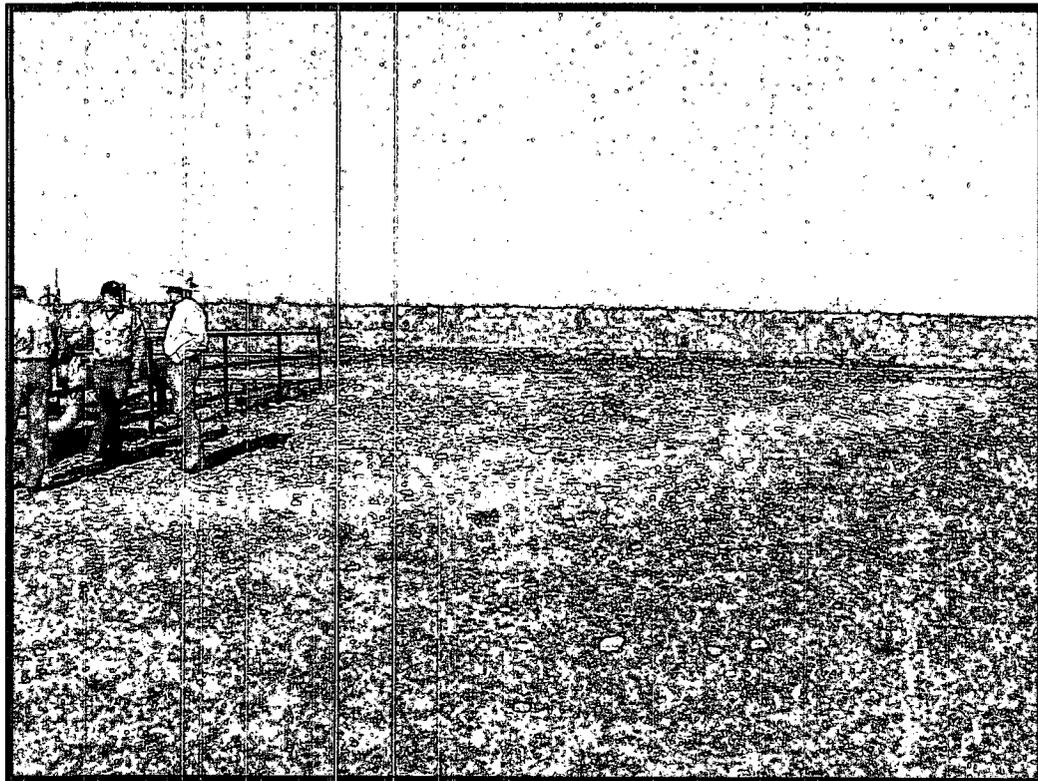
| VOLATILES - 8260 (ppm) | Sample Result H7514-12 | Method Blank | QC | %Recov. | True Value QC |
|------------------------------|---------------------------|------------------|-------|---------|------------------|
| 1 Dichlorodifluoromethane | <0.025 | <0.025 | 0.101 | 101 | 0.100 |
| 2 Chloromethane | <0.025 | <0.025 | 0.119 | 119 | 0.100 |
| 3 Vinyl chloride | <0.025 | <0.025 | 0.085 | 85 | 0.100 |
| 4 Bromomethane | <0.025 | <0.025 | 0.087 | 87 | 0.100 |
| 5 Chloroethane | <0.025 | <0.025 | 0.084 | 84 | 0.100 |
| 6 Iodomethane | <0.025 | <0.025 | 0.097 | 97 | 0.100 |
| 7 1,1-Dichloroethene | <0.025 | <0.025 | 0.114 | 114 | 0.100 |
| 8 Trichlorofluoromethane | <0.025 | <0.025 | 0.088 | 88 | 0.100 |
| 9 Carbon Disulfide | <0.025 | <0.025 | 0.112 | 112 | 0.100 |
| 10 Methylene chloride | <0.025 | <0.025 | 0.114 | 114 | 0.100 |
| 11 trans-1,2-Dichloroethene | <0.025 | <0.025 | 0.107 | 107 | 0.100 |
| 12 1,1-Dichloroethane | <0.025 | <0.025 | 0.114 | 114 | 0.100 |
| 13 2-Butanone | 1.09 | <0.250 | 0.094 | 94 | 0.100 |
| 14 cis-1,2-Dichloroethene | <0.025 | <0.025 | 0.098 | 98 | 0.100 |
| 15 2,2-Dichloropropane | <0.025 | <0.025 | 0.114 | 114 | 0.100 |
| 16 Chloroform | <0.025 | <0.025 | 0.112 | 112 | 0.100 |
| 17 Bromochloromethane | <0.025 | <0.025 | 0.082 | 82 | 0.100 |
| 18 1,1,1-Trichloroethane | <0.025 | <0.025 | 0.117 | 117 | 0.100 |
| 19 1,2-Dichloroethane | <0.025 | <0.025 | 0.106 | 106 | 0.100 |
| 20 1,1-Dichloropropene | <0.025 | <0.025 | 0.084 | 84 | 0.100 |
| 21 Benzene | 0.045 | <0.025 | 0.102 | 102 | 0.100 |
| 22 Carbon tetrachloride | <0.025 | <0.025 | 0.099 | 99 | 0.100 |
| 23 Trichloroethene | <0.025 | <0.025 | 0.095 | 95 | 0.100 |
| 24 Dibromomethane | <0.025 | <0.025 | 0.093 | 93 | 0.100 |
| 25 Bromodichloromethane | <0.025 | <0.025 | 0.083 | 83 | 0.100 |
| 26 (2-Chloroethoxy)ethene | <0.025 | <0.025 | 0.074 | 74 | 0.100 |
| 27 trans-1,3-Dichloropropene | <0.025 | <0.025 | 0.112 | 112 | 0.100 |
| 28 4-methyl-2-pentanone | <0.250 | <0.250 | 0.084 | 84 | 0.100 |
| 29 1,2-Dichloropropane | <0.025 | <0.025 | 0.089 | 89 | 0.100 |
| 30 cis-1,3-Dichloropropene | <0.025 | <0.025 | 0.117 | 117 | 0.100 |
| 31 Toluene | 12.1 | <0.025 | 0.107 | 107 | 0.100 |

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**Appendix B
Site Photos**



Subject Area Looking North



Subject Area Looking Northwest