Detrex
CHEMICALS DIVISION

US EPA RECORDS CENTER REGION 5
467814

September 11, 2009

Ms. Leah Evison
United States Environmental Protection Agency
Office of Superfund, Region 5
SR-6J
77 West Jackson Blvd.
Chicago, IL 60604-3590

Certified Mail, Return Receipt: 7004 1160 0003 4669 0630

Subject: Monthly Status Report-August 2009
Fields Brook Superfund Site
Detrex Source Area-Ashtabula, Ohio

Dear Ms. Evison,

Detrex is submitting the enclosed monthly status report for the month of August 2009, for the Detrex Source Area Project.

If you have any questions, please contact me at (440) 997-6131, ext. 201.

Sincerely,

Thomas W. Steib
Operations Manager

cc: T. Doll, D. Church, R. Currie, J. Vence, K. Buell, URS, R. Williams

Detrex
CHEMICALS DIVISION

August 24, 2009

Ms. Leah Evison
United States Environmental Protection Agency
Office of Superfund, Region 5
SR-6J
77 West Jackson Blvd.
Chicago, IL 60604-3590

Certified Mail, Return Receipt: 7004 1160 0003 4669 0623

Subject: Monthly Status Report-July 2009
Fields Brook Superfund Site
Detrex Source Area-Ashtabula, Ohio

Dear Ms. Evison,

Detrex is submitting the enclosed monthly status report for the month of July 2009, for the Detrex Source Area Project.

If you have any questions, please contact me at (440) 997-6131, ext. 201.

Sincerely,

Thomas W. Steib
Operations Manager

cc: T. Doll, D. Church, R. Currie, J. Vence, K. Buell, URS, R. Williams

## Detrex Ashtabula, OH DNAPL Well VOC Analyses

September 17, 2009

| Date Sampled | 07/16/09 | 07/16/09 | 07/16/09 | 07/16/09 | 07/16/09 | 07/16/09 | 07/16/09 | 07/16/09 | 07/16/09 |
|---|---|---|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S | RMI-N | RMI-S | Trip Blank |
| VOC | | | | | | | | | |
| 1,1,1-Trichloroethane, ug/l | <5.0 | <5.0 | <250 | <2,500 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,1,2,2-Tetrachloroethane, ug/l | <5.0 | <5.0 | <250 | <2,500 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,1,2-Trichloroethane, ug/l | <5.0 | <5.0 | <250 | <2,500 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,1-Dichloroethene, ug/l | <5.0 | <5.0 | <250 | <2,500 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Choroform, ug/l | <5.0 | <5.0 | <250 | <2,500 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Methylene Chloride, ug/l | <5.0 | <5.0 | <250 | <2,500 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Trichloroethene, ug/l | <5.0 | <5.0 | 31,700 | 55,400 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |

| Date Sampled | 05/11/09 | 04/23/09 | 04/23/09 | 04/23/09 | 04/23/09 | 04/23/09 | 04/23/09 | 04/23/09 | 04/23/09 |
|---|---|---|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S | RMI-N | RMI-S | Trip Blank |
| VOC | | | | | | | | | |
| 1,1,1-Trichloroethane, ug/l | <1.0 | <5.0 | <250 | <500 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,1,2,2-Tetrachloroethane, ug/l | <1.0 | <5.0 | <250 | 808 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,1,2-Trichloroethane, ug/l | <1.0 | <5.0 | <250 | <500 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,1-Dichloroethene, ug/l | <1.0 | <5.0 | 1,140 | <500 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Choroform, ug/l | <1.0 | <5.0 | <250 | <500 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Methylene Chloride, ug/l | <5.0 | <5.0 | <250 | 505 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Trichloroethene, ug/l | <1.0 | 6.92 | 35,500 | 44,800 | <5.0 | <5.0 | <5.0 | 28.8 | <5.0 |

| Date Sampled | 01/29/09 | 01/29/09 | 01/29/09 | 01/29/09 | 01/29/09 | 01/29/09 | 01/29/09 | 01/29/09 | 01/29/09 |
|---|---|---|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S | RMI-N | RMI-S | Trip Blank |
| VOC | | | | | | | | | |
| 1,1,1-Trichloroethane, ug/l | <5.0 | <1.0 | <100 | <100 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 |
| 1,1,2,2-Tetrachloroethane, ug/l | <1.0 | <1.0 | <100 | 1,780 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane, ug/l | <1.0 | <1.0 | <100 | <100 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethene, ug/l | <1.0 | <1.0 | 949 | <100 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Choroform, ug/l | <1.0 | <1.0 | <100 | <100 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Methylene Chloride, ug/l | <4.0 | <4.0 | <400 | <400 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 |
| Trichloroethene, ug/l | <5.0 | <1.0 | 40,500 | 58,200 | <1.0 | <1.0 | 3.8 | <1.0 | <1.0 |

| Date Sampled | 02/21/08 | 02/21/08 | 02/21/08 | 02/21/08 | 02/21/08 | 02/21/08 | 02/21/08 | 02/21/08 | 02/21/08 |
|---|---|---|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S | RMI-N | RMI-S | Trip Blank |
| VOC | | | | | | | | | |
| 1,1,1-Trichloroethane, ug/l | <1.0 | <1.0 | <250 | <250 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2,2-Tetrachloroethane, ug/l | <1.0 | <1.0 | <250 | 1,900 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane, ug/l | <1.0 | <1.0 | <250 | <250 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethene, ug/l | <1.0 | <1.0 | 943 | <250 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Choroform, ug/l | <1.0 | <1.0 | <250 | <250 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Methylene Chloride, ug/l | <4.0 | <4.0 | <1000 | <1000 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 |
| Trichloroethene, ug/l | <1.0 | <1.0 | 38,400 | 66,400 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

| Date Sampled | 11/26/07 | 11/26/07 | 11/26/07 | 11/26/07 | 11/26/07 | 11/26/07 | 11/26/07 | 11/26/07 | 11/26/07 |
|---|---|---|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S | RMI-N | RMI-S | Trip Blank |
| VOC | | | | | | | | | |
| 1,1,1-Trichloroethane, ug/l | <5.0 | <1.0 | <25.0 | <50.0 | <1.0 | <1.0 | <5.0 | <5.0 | ND |
| 1,1,2,2-Tetrachloroethane, ug/l | <5.0 | <1.0 | <25.0 | 3,073 | <1.0 | <1.0 | <5.0 | <5.0 | ND |
| 1,1,2-Trichloroethane, ug/l | <5.0 | <1.0 | 57 | <50.0 | <1.0 | <1.0 | <5.0 | <5.0 | ND |
| 1,1-Dichloroethene, ug/l | <5.0 | <1.0 | 1,240 | 333 | <1.0 | <1.0 | <5.0 | <5.0 | ND |
| 1,3-Dichlorobenzene, ug/l | NA | NA | NA | NA | NA | NA | NA | NA | ND |
| Choroform, ug/l | <5.0 | <1.0 | <25.0 | 447 | <1.0 | <1.0 | <5.0 | <5.0 | ND |
| Methylene Chloride, ug/l | <10.0 | <4.0 | <100 | <200 | <4.0 | <4.0 | <10.0 | <10.0 | ND |
| Trichloroethene, ug/l | <5.0 | <1.0 | 41,100 | 63,160 | <1.0 | <1.0 | <5.0 | <5.0 | ND |

| Date Sampled | 09/13/07 | 09/13/07 | 09/13/07 | 09/13/07 | 09/13/07 | 09/13/07 | 09/13/07 | 09/13/07 | 09/13/07 |
|---|---|---|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S | RMI-N | RMI-S | Trip Blank |
| VOC | | | | | | | | | |
| 1,1,1-Trichloroethane, ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane, ug/l | ND | ND | 36 | 2380 | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane, ug/l | ND | ND | 62 | 32 | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene, ug/l | ND | ND | 1,160 | 185 | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene, ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Choroform, ug/l | ND | ND | ND | 298 | ND | ND | ND | ND | ND |
| Methylene Chloride, ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichloroethene, ug/l | ND | ND | 40,900 | 57,560 | ND | 3.83 | ND | 1.02 | ND |

| Date Sampled | 09/15/06 | 08/10/06 | 08/10/06 | 08/10/06 | 08/10/06 | 08/10/06 | 08/10/06 |
|---|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S | Trip Blank |
| VOC | | | | | | | |
| 1,1,1-Trichloroethane, ug/l | ND | ND | ND | 6.56 | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane, ug/l | ND | ND | ND | 3320 | ND | ND | ND |
| 1,1,2-Trichloroethane, ug/l | ND | ND | 58.5 | 31.3 | ND | ND | ND |
| 1,1-Dichloroethene, ug/l | ND | ND | 798 | ND | ND | ND | ND |
| 1,3-Dichlorobenzene, ug/l | ND | ND | ND | ND | ND | ND | ND |
| Choroform, ug/l | ND | ND | ND | 334 | ND | ND | ND |
| Methylene Chloride, ug/l | ND | ND | ND | ND | ND | ND | ND |
| Trichloroethene, ug/l | ND | ND | 33,200 | 45,300 | ND | ND | ND |

| Date Sampled | 05/19/06 | 05/19/06 | 05/19/06 | 05/19/06 | 05/19/06 | 05/19/06 | 05/19/06 |
|---|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S | Trip Blank |
| VOC | | | | | | | |
| 1,1,1-Trichloroethane, ug/l | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane, ug/l | ND | ND | ND | 2060 | ND | ND | ND |
| 1,1,2-Trichloroethane, ug/l | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene, ug/l | ND | ND | 736 | ND | ND | ND | ND |
| 1,3-Dichlorobenzene, ug/l | ND | ND | ND | ND | ND | ND | ND |
| Choroform, ug/l | ND | ND | ND | ND | ND | ND | ND |
| Methylene Chloride, ug/l | ND | ND | ND | ND | ND | ND | 1.02 |
| Trichloroethene, ug/l | ND | ND | 50,300 | 77,500 | ND | 1.15 | 5.27 |

| Date Sampled | 03/13/06 | 03/13/06 | 03/13/06 | 03/13/06 | 03/13/06 | 03/13/06 |
|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S |
| VOC | | | | | | |
| 1,1,1-Trichloroethane, ug/l | ND | ND | ND | NA | ND | ND |
| 1,1,2,2-Tetrachloroethane, ug/l | ND | ND | ND | NA | ND | ND |
| 1,1,2-Trichloroethane, ug/l | ND | ND | 53 | NA | ND | ND |
| 1,1-Dichloroethene, ug/l | ND | ND | 1,060 | NA | ND | ND |
| 1,3-Dichlorobenzene, ug/l | ND | ND | ND | NA | ND | ND |
| Choroform, ug/l | ND | ND | ND | NA | ND | ND |
| Methylene Chloride, ug/l | ND | ND | ND | NA | ND | ND |
| Trichloroethene, ug/l | ND | ND | 84,000 | NA | ND | ND |

| Date Sampled | 06/15/05 | 06/15/05 | 06/15/05 | 06/15/05 | 07/08/05 | 06/15/05 |
|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-17S | MW-17S | MW-18S |
| VOC | | | | | | |
| 1,1,1-Trichloroethane, ug/l | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane, ug/l | ND | ND | ND | 1.39* | 1.39* | ND |
| 1,1,2-Trichloroethane, ug/l | ND | ND | 40.8 | ND | ND | ND |
| 1,1-Dichloroethene, ug/l | ND | ND | 912 | ND | ND | ND |
| 1,3-Dichlorobenzene, ug/l | ND | ND | ND | ND | ND | ND |
| Choroform, ug/l | ND | ND | ND | ND | ND | ND |
| Methylene Chloride, ug/l | ND | ND | 2.51 | ND | ND | ND |
| Trichloroethene, ug/l | ND | ND | 27,100 | 1.6* | 1.26* | ND |
| *Well 17S is suspected of being contaminated by the oil/water phase sample tape. | | | | | | |

| Well Number | MW-21 | MW-02S | MW-04S | MW-17S | MW-18S |
|---|---|---|---|---|---|
| VOC | | | | | |
| 1,1,1-Trichloroethane, ug/l | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane, ug/l | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane, ug/l | ND | ND | 21.1 | ND | ND |
| 1,1-Dichloroethene, ug/l | ND | ND | 1,030 | ND | ND |
| 1,3-Dichlorobenzene, ug/l | ND | ND | ND | ND | ND |
| Choroform, ug/l | ND | ND | ND | ND | ND |
| Methylene Chloride, ug/l | ND | ND | ND | ND | ND |
| Trichloroethene, ug/l | ND | ND | 26,300 | ND | ND |

9/17/2009 14:42

Detrex Collection Trench Analyses

Note: Collection Trench #1 is the middle sump.
Collection Trench #2 is the eastern sump.
Collection Trench #3 is the western sump. Sump #3 pumps into Sump #1.

Sump #1 was used to treat the frac tanks from State Road bridge repair water resulting in contamination.

| Date Sampled | 7/9/2009 | 7/9/2009 | 7/9/2009 |
|---|---|---|---|
| Sump Number | 1 | 2 | 3 |
| | | | |
| VOC | | | |
| 1,1,1-Trichloroethane, ug/l | <5.0 | <5.0 | <5.0 |
| 1,1,2,2-Tetrachloroethane, ug/l | 5.35 | <5.0 | <5.0 |
| 1,1,2-Trichloroethane, ug/l | <5.0 | <5.0 | <5.0 |
| 1,1-Dichloroethane, ug/l | <5.0 | <5.0 | <5.0 |
| 1,1-Dichloroethene, ug/l | <5.0 | <5.0 | <5.0 |
| 1,2-Dichloroethane, ug/l | <5.0 | <5.0 | <5.0 |
| Choroform, ug/l | <5.0 | <5.0 | <5.0 |
| cis-1,2-Dichloroethene, ug/l | 6.82 | 178 | <5.0 |
| Methylene Chloride, ug/l | <5.0 | <5.0 | <5.0 |
| Tetrachloroethene, ug/l | 135 | 12.6 | <5.0 |
| trans-1,2-Dichloroethene, ug/l | <10.0 | <10.0 | <5.0 |
| Trichloroethene, ug/l | 106 | 5.39 | <5.0 |
| SVOC | | | |
| Date Sampled | 7/9/2009 | 7/9/2009 | 7/9/2009 |
| 1,2,4-Trichlorobenzene, ug/l | <10.0 | <10.0 | <10.0 |
| 1,2-Dichlorobenzene, ug/l | <10.0 | <10.0 | <10.0 |
| 1,3-Dichlorobenzene, ug/l | <10.0 | <10.0 | <10.0 |
| 1,4-Dichlorobenzene, ug/l | <10.0 | <10.0 | <10.0 |
| Hexachlorobenzene, ug/l | <10.0 | <10.0 | <10.0 |
| Hexachlorobutadiene, ug/l | <10.0 | <10.0 | <10.0 |
| Hexachloroethane,ug/l | <10.0 | <10.0 | <10.0 |

Sump #1 was used to treat the frac tanks from State Road bridge repair water resulting in contamination.

| Date Sampled | 4/16/2009 | 4/16/2009 | 4/16/2009 |
|---|---|---|---|
| Sump Number | 1 | 2 | 3 |
| | | | |
| VOC | | | |
| 1,1,1-Trichloroethane, ug/l | <5.0 | <5.0 | <5.0 |
| 1,1,2,2-Tetrachloroethane, ug/l | 6.48 | <5.0 | <5.0 |
| 1,1,2-Trichloroethane, ug/l | 6.72 | <5.0 | <5.0 |
| 1,1-Dichloroethane, ug/l | <5.0 | <5.0 | <5.0 |
| 1,1-Dichloroethene, ug/l | <5.0 | <5.0 | <5.0 |
| 1,2-Dichloroethane, ug/l | <5.0 | <5.0 | <5.0 |
| Choroform, ug/l | <5.0 | <5.0 | <5.0 |

| | | | | |
|---|---|---|---|---|
| 1,1-Dichloroethane, ug/l | <2.0 | <2.0 | <2.0 | <2.0 |
| 1,1-Dichloroethene, ug/l | <4.0 | 120 | <4.0 | 9.7 |
| 1,2-Dichloroethane, ug/l | <2.0 | <2.0 | <2.0 | <2.0 |
| Choroform, ug/l | <2.0 | <2.0 | <2.0 | <2.0 |
| cis-1,2-Dichloroethene, ug/l | <2.0 | 120 | <2.0 | 94 |
| Methylene Chloride, ug/l | <2.0 | <2.0 | <2.0 | <2.0 |
| Tetrachloroethene, ug/l | <2.0 | 4.9 | <2.0 | 6.6 |
| trans-1,2-Dichloroethene, ug/l | <2.0 | 2.7 | <2.0 | 2.8 |
| Trichloroethene, ug/l | 2.6 | 20 | 2.6 | 86 |
| SVOC | | | | |
| Date Sampled | 12/23/2008 | 12/23/2008 | 12/23/2008 | 12/23/2008 |
| 1,2,4-Trichlorobenzene, ug/l | <2.0 | <2.0 | <2.0 | <2.0 |
| 1,2-Dichlorobenzene, ug/l | <2.0 | <2.0 | <2.0 | <2.0 |
| 1,4-Dichlorobenzene, ug/l | <5.0 | <5.0 | <5.1 | <2.0 |
| 1,3-Dichlorobenzene, ug/l | <2.0 | <2.0 | <2.0 | <2.0 |
| Hexachlorobenzene, ug/l | <2.0 | <2.0 | <2.0 | <2.0 |
| Hexachlorobutadiene, ug/l | <5.0 | <5.0 | <5.1 | 2.5 |
| Hexachloroethane,ug/l | <2.0 | <2.0 | <2.0 | <2.0 |

The data from November 13, 2008, sample date is suspect due to the similarity of the results of all three sumps. The probability of this occurring is extremely small.

| | | | | |
|---|---|---|---|---|
| Date Sampled | 11/13/2008 | 11/13/2008 | 11/13/2008 | |
| Sump Number | 1 | 2 | 3 | |
| VOC | | | | |
| 1,1,1-Trichloroethane, ug/l | <5.0 | <5.0 | <5.0 | |
| 1,1,2,2-Tetrachloroethane, ug/l | <5.0 | <5.0 | <5.0 | |
| 1,1,2-Trichloroethane, ug/l | <5.0 | <5.0 | <5.0 | |
| 1,1-Dichloroethane, ug/l | <5.0 | <5.0 | <5.0 | |
| 1,1-Dichloroethene, ug/l | <5.0 | <5.0 | <5.0 | |
| 1,2-Dichloroethane, ug/l | <5.0 | <5.0 | <5.0 | |
| Choroform, ug/l | <5.0 | <5.0 | <5.0 | |
| cis-1,2-Dichloroethene, ug/l | 88.4 | 96.6 | 98.3 | |
| Methylene Chloride, ug/l | <5.0 | <5.0 | <5.0 | |
| Tetrachloroethene, ug/l | <5.0 | <5.0 | <5.0 | |
| trans-1,2-Dichloroethene, ug/l | <10.0 | <10.0 | <10.0 | |
| Trichloroethene, ug/l | 15.8 | 17.3 | 17.3 | |
| SVOC | | | | |
| Date Sampled | 11/13/2008 | 11/13/2008 | 11/13/2008 | |
| 1,2,4-Trichlorobenzene, ug/l | <10 | <10 | <10 | |
| 1,2-Dichlorobenzene, ug/l | <10 | <10 | <10 | |
| 1,4-Dichlorobenzene, ug/l | <10 | <10 | <10 | |
| 1,3-Dichlorobenzene, ug/l | <10 | <10 | <10 | |
| Hexachlorobenzene, ug/l | <10 | <10 | <10 | |
| Hexachlorobutadiene, ug/l | <10 | <10 | <10 | |
| Hexachloroethane,ug/l | <10 | <10 | <10 | |

| | | | | |
|---|---|---|---|---|
| Date Sampled | 8/1/2008 | 8/1/2008 | 8/1/2008 | |
| Sump Number | 1 | 2 | 3 | |
| VOC | | | | |
| 1,1,1-Trichloroethane, ug/l | <1.0 | <1.0 | <1.0 | |
| 1,1,2,2-Tetrachloroethane, ug/l | <1.0 | 5.99 | <1.0 | |

| | | | | |
|---|---|---|---|---|
| 1,1-Dichloroethane, ug/l | <1.0 | <1.0 | <1.0 | |
| 1,1-Dichloroethene, ug/l | <1.0 | <1.0 | <1.0 | |
| 1,2-Dichloroethane, ug/l | <1.0 | <1.0 | <1.0 | |
| Choroform, ug/l | <1.0 | <1.0 | <1.0 | |
| cis-1,2-Dichloroethene, ug/l | <1.0 | 88.7 | <1.0 | |
| Methylene Chloride, ug/l | <4.0 | <4.0 | <4.0 | |
| Tetrachloroethene, ug/l | 1.13 | 3.65 | 1.08 | |
| trans-1,2-Dichloroethene, ug/l | <1.0 | 2.00 | <1.0 | |
| Trichloroethene, ug/l | 1.57 | 26.6 | 1.50 | |
| SVOC | | | | |
| Date Sampled | 2/8/2008 | 2/8/2008 | 2/8/2008 | |
| 1,2,4-Trichlorobenzene, ug/l | <20 | <20 | <20 UJ | |
| 1,2-Dichlorobenzene, ug/l | <10 | <10 | <10 UJ | |
| 1,4-Dichlorobenzene, ug/l | <10 | <10 | <10 UJ | |
| 1,3-Dichlorobenzene, ug/l | <10 | <10 | <10 UJ | |
| Hexachlorobenzene, ug/l | <10 | <10 | <10 UJ | |
| Hexachlorobutadiene, ug/l | <10 | <10 | <10 UJ | |
| Hexachloroethane,ug/l | <10 | <10 | <10 UJ | |
| UJ=Results are estimated due to low surrogate recovery. | | | | |

| | | | | |
|---|---|---|---|---|
| Date Sampled | 1/3/2008 | 1/3/2008 | 1/3/2008 | |
| Sump Number | 1 | 2 | 3 | |
| VOC | | | | |
| 1,1,1-Trichloroethane, ug/l | <1.0 | <5.0 | <1.0 | |
| 1,1,2,2-Tetrachloroethane, ug/l | <1.0 | <5.0 | <1.0 | |
| 1,1,2-Trichloroethane, ug/l | <1.0 | <5.0 | <1.0 | |
| 1,1-Dichloroethane, ug/l | <1.0 | <5.0 | <1.0 | |
| 1,1-Dichloroethene, ug/l | <1.0 | <5.0 | <1.0 | |
| 1,2-Dichloroethane, ug/l | <1.0 | <5.0 | <1.0 | |
| Choroform, ug/l | <1.0 | <5.0 | <1.0 | |
| cis-1,2-Dichloroethene, ug/l | <1.0 | 92.8 | <1.0 | |
| Methylene Chloride, ug/l | <4.0 | <20.0 | <4.0 | |
| Tetrachloroethene, ug/l | 1.96 | <5.0 | 1.28 | |
| trans-1,2-Dichloroethene, ug/l | <1.0 | <5.0 | <1.0 | |
| Trichloroethene, ug/l | 2.80 | 21.3 | 1.53 | |
| SVOC | | | | |
| Date Sampled | 1/3/2008 | 1/3/2008 | 1/3/2008 | |
| 1,2,4-Trichlorobenzene, ug/l | NA | NA | NA | |
| 1,2-Dichlorobenzene, ug/l | NA | NA | NA | |
| 1,4-Dichlorobenzene, ug/l | NA | NA | NA | |
| 1,3-Dichlorobenzene, ug/l | NA | NA | NA | |
| Hexachlorobenzene, ug/l | NA | NA | NA | |
| Hexachlorobutadiene, ug/l | NA | NA | NA | |
| Hexachloroethane,ug/l | NA | NA | NA | |
| | | | | |
| Date Sampled | 11/26/2007 | 11/26/2007 | 11/26/2007 | |
| Sump Number | 1 | 2 | 3 | |
| VOC | | | | |
| 1,1,1-Trichloroethane, ug/l | <5.0 | <5.0 | <5.0 | |
| 1,1,2,2-Tetrachloroethane, ug/l | <5.0 | <5.0 | <5.0 | |
| 1,1,2-Trichloroethane, ug/l | <5.0 | <5.0 | <5.0 | |
| 1,1-Dichloroethane, ug/l | <5.0 | <5.0 | <5.0 | |

Detrex
CHEMICALS DIVISION

July 13, 2009

Ms. Leah Evison
United States Environmental Protection Agency
Office of Superfund, Region 5
SR-6J
77 West Jackson Blvd.
Chicago, IL 60604-3590

Certified Mail, Return Receipt: 7004 1160 0003 4669 0616

Subject: Monthly Status Report-June 2009
Fields Brook Superfund Site
Detrex Source Area-Ashtabula, Ohio

Dear Ms. Evison,

Detrex is submitting the enclosed monthly status report for the month of June 2009, for the Detrex Source Area Project.

If you have any questions, please contact me at (440) 997-6131, ext. 201.

Sincerely,

Thomas W. Steib
Operations Manager

cc: T. Doll, D. Church, R. Currie, J. Vence, K. Buell, URS, R. Williams

Detrex
CHEMICALS DIVISION

June 10, 2009

Ms. Leah Evison
United States Environmental Protection Agency
Office of Superfund, Region 5
SR-6J
77 West Jackson Blvd.
Chicago, IL 60604-3590

Certified Mail, Return Receipt: 7004 1160 0003 4669 0586

Subject: Monthly Status Report-May 2009
Fields Brook Superfund Site
Detrex Source Area-Ashtabula, Ohio

Dear Ms. Van Donsel,

Detrex is submitting the enclosed monthly status report for the month of May 2009, for the Detrex Source Area Project.

If you have any questions, please contact me at (440) 997-6131, ext. 201.

Sincerely,

Thomas W. Steib
Operations Manager

cc: T. Doll, D. Church, R. Currie, J. Vence, K. Buell, URS, R. Williams

Detrex
CHEMICALS DIVISION
1100 State Road, Ashtabula, Ohio 44004 Phone: (440) 997-6131 • Fax: (440) 992-2904

May 5, 2009

Keith R. Buell
Detrex Corp.
1100 State Rd.
Ashtabula, Ohio 44004

Ms. Terese Van Donsel
U.S. EPA
Office of Superfund, Region 5
SR-6J
77 West Jackson Blvd.
Chicago, Il. 60604-3590

Dear Ms. Van Donsel,

Enclosed please find the e-DMR report for April 2009 for Detrex Corp. in Ashtabula, Ohio.

> I certify that he information contained in or accompanying this submission is true, accurate and complete. This certification is based on my personal preparation, review, or analysis of the submission, and/or supervision of persons who, acting on my direct instructions, made the verification that the submitted information is true, accurate and complete.

Sincerely,

Keith R. Buell
Detrex Corp.
440-997-6131
kbuell@elcocorp.com

Document: policy ltr

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

| | | | |
|---|---|---|---|
| FACILITY: | Detrex Corporation * | PERMIT NUMBER: | *3IF00017*ND* |
| LOCATION: | 1100 State Rd<br>Ashtabula, 44004 | STATION CODE:<br>MONITORING PERIOD : | 002<br>2009-04-01 To: 2009-04-30 |
| COUNTY: | Ashtabula | REPORTING LAB: | Precision Analytical, Inc. |
| DISTRICT: | NEDO | ANALYST: | LG, DR, CAM, MES, DC, STB, WSS |
| | | NO DISCHARGE INDICATOR: | |

| PARAMETER | Water Temperature | Flow Rate | pH, Maximum | pH, Minimum | Biochemical Oxygen Demand, 5 Day | Residue, Total Dissolved | Total Suspended Solids |
|---|---|---|---|---|---|---|---|
| PARAMETER CODE | 00010 | 50050 | 61941 | 61942 | 00310 | 00515 | 00530 |
| UNITS | 4102 | 4108 | 6653 | 6653 | 4106 | 4106 | 4106 |
| FREQUENCY | 1/Day | 1/Day | 1/Day | 1/Day | 1/Week | 1/Week | 1/Week |
| SAMPLING TYPE | Maximum Indicating Thermometer | 24hr Total | Continuous | Continuous | 24hr Composite | 24hr Composite | 24hr Composite |
| 2009-04-01 | 8 | 0.476 | 7.8 | 6.9 | | | |
| 2009-04-02 | 8 | 0.396 | 7.8 | 7.5 | | | |
| 2009-04-03 | 10 | 0.498 | 7.8 | 7.4 | 10.7 | 216 | AA 6.0 |
| 2009-04-04 | 8 | 0.279 | 7.8 | 7.4 | | | |
| 2009-04-05 | 8 | 0.195 | 7.8 | 7.7 | | | |
| 2009-04-06 | 14 | 0.419 | 7.8 | 7.2 | | | |
| 2009-04-07 | 12 | 0.527 | 7.8 | 7.5 | | | |
| 2009-04-08 | 13 | 0.460 | 7.8 | 7.7 | | | |
| 2009-04-09 | 13 | 0.397 | 7.8 | 7.6 | AA 2.0 | 180 | 16.0 |
| 2009-04-10 | 8 | 0.176 | 7.8 | 7.7 | AN | AN | AN |
| 2009-04-11 | 8 | 0.175 | 7.8 | 7.7 | | | |
| 2009-04-12 | 8 | 0.169 | 7.8 | 7.6 | | | |
| 2009-04-13 | 9 | 0.519 | 7.7 | 6.9 | | | |
| 2009-04-14 | 12 | 0.499 | 7.8 | 7.5 | | | |
| 2009-04-15 | 17 | 0.418 | 7.8 | 7.7 | | | |
| 2009-04-16 | 14 | 0.557 | 7.8 | 7.3 | | | |
| 2009-04-17 | 15 | 0.502 | 7.9 | 7.6 | AA 2.0 | 422 | AA 6.0 |
| 2009-04-18 | 9 | 0.193 | 7.8 | 7.8 | | | |
| 2009-04-19 | 10 | 0.190 | 7.9 | 7.8 | | | |
| 2009-04-20 | 11 | 0.506 | 7.8 | 7.2 | | | |
| 2009-04-21 | 10 | 0.431 | 7.8 | 7.6 | | | |
| 2009-04-22 | 9 | 0.327 | 7.8 | 7.6 | | | |
| 2009-04-23 | 10 | 0.422 | 7.8 | 7.1 | | | AA 6.0 |
| 2009-04-24 | 11 | 0.447 | 7.7 | 7.5 | AA 2.0 | 418 | AA 6.0 |
| 2009-04-25 | 11 | 0.161 | 7.7 | 7.5 | | | |
| 2009-04-26 | 12 | 0.153 | 7.7 | 7.6 | | | |
| 2009-04-27 | 15 | 0.335 | 7.7 | 7.5 | | | |
| 2009-04-28 | 18 | 0.405 | 7.7 | 7.5 | | | |
| 2009-04-29 | 20 | 0.389 | 7.8 | 7.6 | | | |
| 2009-04-30 | 21 | 0.490 | 8.0 | 7.4 | | | |

| Name/Title of Responsible Official or Authorized Representative | I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. | Signature of Responsible Official or Authorized Representative | Date (MM/DD/YY) |
|---|---|---|---|
| KEITH BUELL / ENV. | | Keith Buell | 05/05/09 |

**When completed mail this report to:** EDMR Administrator, EDMR Administrator, , , OH,

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

| | | | |
|---|---|---|---|
| FACILITY: | Detrex Corporation * | PERMIT NUMBER: | *3IF00017*ND* |
| LOCATION: | 1100 State Rd<br>Ashtabula, 44004 | STATION CODE:<br>MONITORING PERIOD : | 002<br>2009-04-01 To: 2009-04-30 |
| COUNTY: | Ashtabula | REPORTING LAB: | Precision Analytical, Inc. |
| DISTRICT: | NEDO | ANALYST:<br>NO DISCHARGE INDICATOR: | LG, DR, CAM, MES, DC, STB, WSS |

| PARAMETER | Oil and Grease, Total | Phosphorus, Total (P) | Silver, Total Recoverable | Strontium, Total (Sr) | Zinc, Total Recoverable | Cadmium, Total Recoverable | Copper, Total Recoverable |
|---|---|---|---|---|---|---|---|
| PARAMETER CODE | 00550 | 00665 | 01079 | 01082 | 01094 | 01113 | 01119 |
| UNITS | 4106 | 4106 | 4107 | 4107 | 4107 | 4107 | 4107 |
| FREQUENCY | 1/Week | 1/Week | 1/Week | 1/Week | 1/Week | 1/Week | 1/Week |
| SAMPLING TYPE | Grab | 24hr Composite | 24hr Composite | 24hr Composite | 24hr Composite | 24hr Composite | 24hr Composite |
| 2009-04-01 | | | | | | | |
| 2009-04-02 | | | | | | | |
| 2009-04-03 | AA 1.2 | 0.0470 | AA 1.0 | 194 | AA 10.0 | AA 10.0 | AA 10.0 |
| 2009-04-04 | | | | | | | |
| 2009-04-05 | | | | | | | |
| 2009-04-06 | | | | | | | |
| 2009-04-07 | | | | | | | |
| 2009-04-08 | | | | | | | |
| 2009-04-09 | AA 1.2 | 0.0340 | AA 1.0 | 178 | 13.5 | AA 10.0 | AA 10.0 |
| 2009-04-10 | AN | AN | AN | AN | AN | AN | AN |
| 2009-04-11 | | | | | | | |
| 2009-04-12 | | | | | | | |
| 2009-04-13 | | | | | | | |
| 2009-04-14 | | | | | | | |
| 2009-04-15 | | | | | | | |
| 2009-04-16 | | | | | | | |
| 2009-04-17 | AA 1.2 | 0.0500 | AA 1.0 | 248 | AA 10.0 | AA 10.0 | AA 10.0 |
| 2009-04-18 | | | | | | | |
| 2009-04-19 | | | | | | | |
| 2009-04-20 | | | | | | | |
| 2009-04-21 | | | | | | | |
| 2009-04-22 | | | | | | | |
| 2009-04-23 | | | | | | | |
| 2009-04-24 | AA 1.2 | 0.0520 | AA 1.0 | 240 | AA 10.0 | AA 10.0 | AA 10.0 |
| 2009-04-25 | | | | | | | |
| 2009-04-26 | | | | | | | |
| 2009-04-27 | | | | | | | |
| 2009-04-28 | | | | | | | |
| 2009-04-29 | | | | | | | |
| 2009-04-30 | | | | | | | |

| Name/Title of Responsible Official or Authorized Representative | I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. | Signature of Responsible Official or Authorized Representative | Date (MM/DD/YY) |
|---|---|---|---|
| KEITH BUELL / ENV. | | Keith Buell | 05/05/09 |

**When completed mail this report to:** EDMR Administrator, EDMR Administrator, , , OH,

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

| | | | |
|---|---|---|---|
| FACILITY: | Detrex Corporation * | PERMIT NUMBER: | *3IF00017*ND* |
| LOCATION: | 1100 State Rd<br>Ashtabula, 44004 | STATION CODE:<br>MONITORING PERIOD : | 002<br>2009-04-01 To: 2009-04-30 |
| COUNTY: | Ashtabula | REPORTING LAB: | Precision Analytical, Inc. |
| DISTRICT: | NEDO | ANALYST:<br>NO DISCHARGE INDICATOR: | LG, DR, CAM, MES, DC, STB, WSS |

| PARAMETER | Chlorine, Total Residual | Cyanide, Free | Mercury, Total (Low Level) | | | | |
|---|---|---|---|---|---|---|---|
| PARAMETER CODE | 50060 | 00719 | 50092 | | | | |
| UNITS | 4106 | 4106 | 24258381 | | | | |
| FREQUENCY | 1/Week | 1/Month | 1/Month | | | | |
| SAMPLING TYPE | Grab | Grab | Grab | | | | |
| 2009-04-01 | | | | | | | |
| 2009-04-02 | | | | | | | |
| 2009-04-03 | AA 0.01 | AA 0.01 | 1.50 | | | | |
| 2009-04-04 | | | | | | | |
| 2009-04-05 | | | | | | | |
| 2009-04-06 | | | | | | | |
| 2009-04-07 | | | | | | | |
| 2009-04-08 | | | | | | | |
| 2009-04-09 | AA 0.01 | | | | | | |
| 2009-04-10 | AN | | | | | | |
| 2009-04-11 | | | | | | | |
| 2009-04-12 | | | | | | | |
| 2009-04-13 | | | | | | | |
| 2009-04-14 | | | | | | | |
| 2009-04-15 | | | | | | | |
| 2009-04-16 | | | | | | | |
| 2009-04-17 | AA 0.01 | | | | | | |
| 2009-04-18 | | | | | | | |
| 2009-04-19 | | | | | | | |
| 2009-04-20 | | | | | | | |
| 2009-04-21 | | | | | | | |
| 2009-04-22 | | | | | | | |
| 2009-04-23 | | | | | | | |
| 2009-04-24 | AA 0.01 | | | | | | |
| 2009-04-25 | | | | | | | |
| 2009-04-26 | | | | | | | |
| 2009-04-27 | | | | | | | |
| 2009-04-28 | | | | | | | |
| 2009-04-29 | | | | | | | |
| 2009-04-30 | | | | | | | |

| Name/Title of Responsible Official or Authorized Representative | I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. | Signature of Responsible Official or Authorized Representative | Date (MM/DD/YY) |
|---|---|---|---|
| KEITH BUELL / ESV. | | Keith Buell | 05/05/09 |

When completed mail this report to: EDMR Administrator, EDMR Administrator, , , OH,

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

| | | | |
|---|---|---|---|
| **FACILITY:** | Detrex Corporation * | PERMIT NUMBER: | ***3IF00017*ND*** |
| **LOCATION:** | 1100 State Rd<br>Ashtabula, 44004 | STATION CODE:<br>MONITORING PERIOD : | 601<br>**2009-04-01** To: **2009-04-30** |
| **COUNTY:** | Ashtabula | REPORTING LAB: | Precision Analytical, Inc. |
| **DISTRICT:** | NEDO | ANALYST:<br>NO DISCHARGE INDICATOR: | DC, DR, CAM, MES |

| PARAMETER | Flow Rate | Color, Severity | Odor, Severity | Turbidity, Severity | pH | Total Suspended Solids | Nitrogen, Ammonia (NH3) |
|---|---|---|---|---|---|---|---|
| PARAMETER CODE | 00056 | 00083 | 01330 | 01350 | 00400 | 00530 | 00610 |
| UNITS | 4109 | 4105 | 4105 | 4105 | 6653 | 4106 | 4106 |
| FREQUENCY | 1/Day | 1/Day | 1/Day | 1/Day | 1/Month | 1/Month | 1/Month |
| SAMPLING TYPE | 24hr Total Estimate | Estimate | Estimate | Estimate | Grab | Grab | Grab |
| 2009-04-01 | 624 | 1 | 1 | 1 | | | |
| 2009-04-02 | 564 | 1 | 1 | 1 | | | |
| 2009-04-03 | 522 | 1 | 1 | 1 | 6.89 | AA 6.0 | AA 0.2 |
| 2009-04-04 | AC | AC | AC | AC | | | |
| 2009-04-05 | AC | AC | AC | AC | | | |
| 2009-04-06 | 348 | 1 | 1 | 1 | | | |
| 2009-04-07 | 621 | 1 | 1 | 1 | | | |
| 2009-04-08 | 640 | 1 | 1 | 1 | | | |
| 2009-04-09 | 394 | 1 | 1 | 1 | | | |
| 2009-04-10 | AC | AC | AC | AC | | | |
| 2009-04-11 | AC | AC | AC | AC | | | |
| 2009-04-12 | AC | AC | AC | AC | | | |
| 2009-04-13 | 405 | 1 | 1 | 1 | | | |
| 2009-04-14 | 574 | 1 | 1 | 1 | | | |
| 2009-04-15 | 731 | 1 | 1 | 1 | | | |
| 2009-04-16 | 496 | 1 | 1 | 1 | | | |
| 2009-04-17 | 477 | 1 | 1 | 1 | | | |
| 2009-04-18 | AC | AC | AC | AC | | | |
| 2009-04-19 | AC | AC | AC | AC | | | |
| 2009-04-20 | 913 | 1 | 1 | 1 | | | |
| 2009-04-21 | 851 | 1 | 1 | 1 | | | |
| 2009-04-22 | 819 | 1 | 1 | 1 | | | |
| 2009-04-23 | 772 | 1 | 1 | 1 | | | |
| 2009-04-24 | 692 | 1 | 1 | 1 | | | |
| 2009-04-25 | AC | AC | AC | AC | | | |
| 2009-04-26 | AC | AC | AC | AC | | | |
| 2009-04-27 | 760 | 1 | 1 | 1 | | | |
| 2009-04-28 | 839 | 1 | 1 | 1 | | | |
| 2009-04-29 | 677 | 1 | 1 | 1 | | | |
| 2009-04-30 | 465 | 1 | 1 | 1 | | | |

| Name/Title of Responsible Official or Authorized Representative | I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. | Signature of Responsible Official or Authorized Representative | Date (MM/DD/YY) |
|---|---|---|---|
| Keith Bull/Env. | | Keith Bull | 05/05/09 |

**When completed mail this report to:** EDMR Administrator, EDMR Administrator, , , OH,

# Ohio EPA - Daily Discharge Monitoring Report - Form 4500

| | | | |
|---|---|---|---|
| **FACILITY:** | Detrex Corporation * | PERMIT NUMBER: | ***3IF00017*ND*** |
| **LOCATION:** | 1100 State Rd<br>Ashtabula, 44004 | STATION CODE:<br>MONITORING PERIOD : | 601<br>**2009-04-01** To: **2009-04-30** |
| **COUNTY:** | Ashtabula | REPORTING LAB: | Precision Analytical, Inc. |
| **DISTRICT:** | NEDO | ANALYST:<br>NO DISCHARGE INDICATOR: | DC, DR, CAM, MES |

| PARAMETER | CBOD 5 day | | | | | | |
|---|---|---|---|---|---|---|---|
| PARAMETER CODE | 80082 | | | | | | |
| UNITS | 4106 | | | | | | |
| FREQUENCY | 1/Month | | | | | | |
| SAMPLING TYPE | Grab | | | | | | |
| 2009-04-01 | | | | | | | |
| 2009-04-02 | | | | | | | |
| 2009-04-03 | 2.0 | | | | | | |
| 2009-04-04 | | | | | | | |
| 2009-04-05 | | | | | | | |
| 2009-04-06 | | | | | | | |
| 2009-04-07 | | | | | | | |
| 2009-04-08 | | | | | | | |
| 2009-04-09 | | | | | | | |
| 2009-04-10 | | | | | | | |
| 2009-04-11 | | | | | | | |
| 2009-04-12 | | | | | | | |
| 2009-04-13 | | | | | | | |
| 2009-04-14 | | | | | | | |
| 2009-04-15 | | | | | | | |
| 2009-04-16 | | | | | | | |
| 2009-04-17 | | | | | | | |
| 2009-04-18 | | | | | | | |
| 2009-04-19 | | | | | | | |
| 2009-04-20 | | | | | | | |
| 2009-04-21 | | | | | | | |
| 2009-04-22 | | | | | | | |
| 2009-04-23 | | | | | | | |
| 2009-04-24 | | | | | | | |
| 2009-04-25 | | | | | | | |
| 2009-04-26 | | | | | | | |
| 2009-04-27 | | | | | | | |
| 2009-04-28 | | | | | | | |
| 2009-04-29 | | | | | | | |
| 2009-04-30 | | | | | | | |

| Name/Title of Responsible Official or Authorized Representative | I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. | Signature of Responsible Official or Authorized Representative | Date (MM/DD/YY) |
|---|---|---|---|
| KEITH BUELL/ENV. | | Keith Buell | 05/05/09 |

**When completed mail this report to:** EDMR Administrator, EDMR Administrator, , , OH,



**Ohio EPA - Daily Discharge Monitoring Report - Form 4500**

| | | | |
|---|---|---|---|
| FACILITY: | Detrex Corporation * | PERMIT NUMBER: | *3IF00017*ND* |
| LOCATION: | 1100 State Rd<br>Ashtabula, 44004 | STATION CODE:<br>MONITORING PERIOD : | 602<br>2009-04-01 To: 2009-04-30 |
| COUNTY: | Ashtabula | REPORTING LAB: | Precision Analytical, Inc. |
| DISTRICT: | NEDO | ANALYST:<br>NO DISCHARGE INDICATOR: | AC |

| PARAMETER | pH | Flow Rate | Chloroform | Methylene Chloride | 1,1-Dichloroethylene | 1,1,1-Trichloroethane | 1,1,2-Trichloroethane |
|---|---|---|---|---|---|---|---|
| PARAMETER CODE | 00400 | 50050 | 32106 | 34423 | 34501 | 34506 | 34511 |
| UNITS | 6653 | 4108 | 4107 | 4107 | 4107 | 4107 | 4107 |
| FREQUENCY | 1/Day | 1/Day | 1/Month | 1/Month | 1/Month | 1/Month | 1/Month |
| SAMPLING TYPE | Grab | 24hr Total | Grab | Grab | Grab | Grab | Grab |
| 2009-04-01 | 7.1 | 0.102 | | | | | |
| 2009-04-02 | 7.4 | 0.038 | | | | | |
| 2009-04-03 | 7.4 | 0.213 | AA 1.0 | AA 4.0 | AA 1.0 | AA 1.0 | AA 1.0 |
| 2009-04-04 | 7.5 | 0.102 | | | | | |
| 2009-04-05 | AC | AC | | | | | |
| 2009-04-06 | AC | AC | | | | | |
| 2009-04-07 | 7.2 | 0.086 | | | | | |
| 2009-04-08 | 7.6 | 0.155 | | | | | |
| 2009-04-09 | AC | AC | | | | | |
| 2009-04-10 | AC | AC | | | | | |
| 2009-04-11 | AC | AC | | | | | |
| 2009-04-12 | AC | AC | | | | | |
| 2009-04-13 | 7.2 | 0.137 | | | | | |
| 2009-04-14 | 7.6 | 0.074 | | | | | |
| 2009-04-15 | AC | AC | | | | | |
| 2009-04-16 | 7.5 | 0.168 | | | | | |
| 2009-04-17 | 7.6 | 0.149 | | | | | |
| 2009-04-18 | AC | AC | | | | | |
| 2009-04-19 | AC | AC | | | | | |
| 2009-04-20 | 7.3 | 0.129 | | | | | |
| 2009-04-21 | 7.5 | 0.132 | | | | | |
| 2009-04-22 | AC | AC | | | | | |
| 2009-04-23 | 7.4 | 0.131 | | | | | |
| 2009-04-24 | 7.6 | 0.165 | | | | | |
| 2009-04-25 | AC | AC | | | | | |
| 2009-04-26 | AC | AC | | | | | |
| 2009-04-27 | AC | AC | | | | | |
| 2009-04-28 | AC | AC | | | | | |
| 2009-04-29 | AC | AC | | | | | |
| 2009-04-30 | 7.4 | 0.082 | | | | | |

| Name/Title of Responsible Official or Authorized Representative | I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. | Signature of Responsible Official or Authorized Representative | Date (MM/DD/YY) |
|---|---|---|---|
| KEITH BUELL/ENV. | | Keith Buell | 05/05/09 |

When completed mail this report to: EDMR Administrator, EDMR Administrator, , , OH,



**Ohio EPA - Daily Discharge Monitoring Report - Form 4500**

| | | | |
|---|---|---|---|
| FACILITY: | Detrex Corporation * | PERMIT NUMBER: | *3IF00017*ND* |
| LOCATION: | 1100 State Rd<br>Ashtabula, 44004 | STATION CODE: | 602 |
| | | MONITORING PERIOD : | 2009-04-01 To: 2009-04-30 |
| COUNTY: | Ashtabula | REPORTING LAB: | Precision Analytical, Inc. |
| DISTRICT: | NEDO | ANALYST: | AC |
| | | NO DISCHARGE INDICATOR: | |

| PARAMETER | 1,1,2,2-Tetrachloroethane | 1,3-Dichlorobenzene | Trichloroethylene | | | | |
|---|---|---|---|---|---|---|---|
| PARAMETER CODE | 34516 | 34566 | 39180 | | | | |
| UNITS | 4107 | 4107 | 4107 | | | | |
| FREQUENCY | 1/Month | 1/Month | 1/Month | | | | |
| SAMPLING TYPE | Grab | Grab | Grab | | | | |
| 2009-04-01 | | | | | | | |
| 2009-04-02 | | | | | | | |
| 2009-04-03 | AA 1.0 | AA 1.0 | AA 1.0 | | | | |
| 2009-04-04 | | | | | | | |
| 2009-04-05 | | | | | | | |
| 2009-04-06 | | | | | | | |
| 2009-04-07 | | | | | | | |
| 2009-04-08 | | | | | | | |
| 2009-04-09 | | | | | | | |
| 2009-04-10 | | | | | | | |
| 2009-04-11 | | | | | | | |
| 2009-04-12 | | | | | | | |
| 2009-04-13 | | | | | | | |
| 2009-04-14 | | | | | | | |
| 2009-04-15 | | | | | | | |
| 2009-04-16 | | | | | | | |
| 2009-04-17 | | | | | | | |
| 2009-04-18 | | | | | | | |
| 2009-04-19 | | | | | | | |
| 2009-04-20 | | | | | | | |
| 2009-04-21 | | | | | | | |
| 2009-04-22 | | | | | | | |
| 2009-04-23 | | | | | | | |
| 2009-04-24 | | | | | | | |
| 2009-04-25 | | | | | | | |
| 2009-04-26 | | | | | | | |
| 2009-04-27 | | | | | | | |
| 2009-04-28 | | | | | | | |
| 2009-04-29 | | | | | | | |
| 2009-04-30 | | | | | | | |

| Name/Title of Responsible Official or Authorized Representative | I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. | Signature of Responsible Official or Authorized Representative | Date (MM/DD/YY) |
|---|---|---|---|
| KEITH BUELL/ENV. | | Keith Buell | 05/05/09 |

**When completed mail this report to:** EDMR Administrator, EDMR Administrator, , , OH,



**Ohio EPA - Daily Discharge Monitoring Report - Form 4500**

| | | | |
|---|---|---|---|
| **FACILITY:** | Detrex Corporation * | **PERMIT NUMBER:** | ***3IF00017*ND*** |
| **LOCATION:** | 1100 State Rd<br>Ashtabula, 44004 | **STATION CODE:** | 800 |
| | | **MONITORING PERIOD :** | **2009-04-01** To: **2009-04-30** |
| **COUNTY:** | Ashtabula | **REPORTING LAB:** | Precision Analytical, Inc. |
| **DISTRICT:** | NEDO | **ANALYST:** | MES, STB, WSS |
| | | **NO DISCHARGE INDICATOR:** | |

| PARAMETER | Flow Rate | Total Suspended Solids | Oil and Grease, Total | Mercury, Total (Low Level) | | | |
|---|---|---|---|---|---|---|---|
| PARAMETER CODE | 50050 | 00530 | 00550 | 50092 | | | |
| UNITS | 4108 | 4106 | 4106 | 24258381 | | | |
| FREQUENCY | 1/Day | 1/Week | 1/Week | 1/Month | | | |
| SAMPLING TYPE | Continuous | 24hr Composite | Grab | Grab | | | |
| 2009-04-01 | 0.392 | | | | | | |
| 2009-04-02 | 0.364 | | | | | | |
| 2009-04-03 | 0.279 | AA 6.0 | AA 1.2 | 0.980 | | | |
| 2009-04-04 | 0.120 | | | | | | |
| 2009-04-05 | 0.120 | | | | | | |
| 2009-04-06 | 0.331 | | | | | | |
| 2009-04-07 | 0.406 | | | | | | |
| 2009-04-08 | 0.457 | | | | | | |
| 2009-04-09 | 0.369 | 9.0 | AA 1.2 | | | | |
| 2009-04-10 | 0.096 | AN | AN | | | | |
| 2009-04-11 | 0.096 | | | | | | |
| 2009-04-12 | 0.096 | | | | | | |
| 2009-04-13 | 0.399 | | | | | | |
| 2009-04-14 | 0.433 | | | | | | |
| 2009-04-15 | 0.407 | | | | | | |
| 2009-04-16 | 0.408 | | | | | | |
| 2009-04-17 | 0.364 | AA 6.0 | AA 1.2 | | | | |
| 2009-04-18 | 0.120 | | | | | | |
| 2009-04-19 | 0.120 | | | | | | |
| 2009-04-20 | 0.384 | | | | | | |
| 2009-04-21 | 0.259 | | | | | | |
| 2009-04-22 | 0.298 | | | | | | |
| 2009-04-23 | 0.249 | AA 6.0 | | | | | |
| 2009-04-24 | 0.234 | AA 6.0 | AA 1.2 | | | | |
| 2009-04-25 | 0.094 | | | | | | |
| 2009-04-26 | 0.096 | | | | | | |
| 2009-04-27 | 0.279 | | | | | | |
| 2009-04-28 | 0.390 | | | | | | |
| 2009-04-29 | 0.374 | | | | | | |
| 2009-04-30 | 0.423 | | | | | | |

| Name/Title of Responsible Official or Authorized Representative | I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. | Signature of Responsible Official or Authorized Representative | Date (MM/DD/YY) |
|---|---|---|---|
| KEITH BUELL/ENV. | | Keith Buell | 05/05/09 |

**When completed mail this report to:** EDMR Administrator, EDMR Administrator, , , OH,



**Ohio EPA - Daily Discharge Monitoring Report - Form 4500**

**FACILITY:** Detrex Corporation *
**LOCATION:** 1100 State Rd
Ashtabula, 44004

PERMIT NUMBER: ***3IF00017*ND***
MONITORING PERIOD : **2009-04-01** To: **2009-04-30**

**PARAMETER COMMENTS:**

| Station Code | Parameter Name | Parameter Code | Date | Unit | Comment |
|---|---|---|---|---|---|
| 002 | Biochemical Oxygen Demand, 5 Day | 00310 | 2009-04-10 | 4106 | Holiday, Water samples collected on Thursday, 4/09/09 |
| 002 | Residue, Total Dissolved | 00515 | 2009-04-10 | 4106 | Holiday, Water samples collected on Thursday, 4/09/09 |
| 002 | Total Suspended Solids | 00530 | 2009-04-10 | 4106 | Holiday, Water samples collected on Thursday, 4/09/09 |
| 002 | Total Suspended Solids | 00530 | 2009-04-23 | 4106 | Investigate possible sources for elevated suspended solids. |
| 002 | Oil and Grease, Total | 00550 | 2009-04-10 | 4106 | Holiday, Water samples collected on Thursday, 4/09/09 |
| 002 | Phosphorus, Total (P) | 00665 | 2009-04-10 | 4106 | Holiday, Water samples collected on Thursday, 4/09/09 |
| 002 | Silver, Total Recoverable | 01079 | 2009-04-10 | 4107 | Holiday, Water samples collected on Thursday, 4/09/09 |
| 002 | Strontium, Total (Sr) | 01082 | 2009-04-10 | 4107 | Holiday, Water samples collected on Thursday, 4/09/09 |
| 002 | Zinc, Total Recoverable | 01094 | 2009-04-10 | 4107 | Holiday, Water samples collected on Thursday, 4/09/09 |
| 002 | Cadmium, Total Recoverable | 01113 | 2009-04-10 | 4107 | Holiday, Water samples collected on Thursday, 4/09/09 |
| 002 | Copper, Total Recoverable | 01119 | 2009-04-10 | 4107 | Holiday, Water samples collected on Thursday, 4/09/09 |
| 002 | Chlorine, Total Residual | 50060 | 2009-04-10 | 4106 | Holiday, Water samples collected on Thursday, 4/09/09 |
| 800 | Total Suspended Solids | 00530 | 2009-04-10 | 4106 | Holiday, Water samples collected on Thursday, 4/09/09 |
| 800 | Total Suspended Solids | 00530 | 2009-04-23 | 4106 | Investigate possible sources for elevated suspended solids. |
| 800 | Oil and Grease, Total | 00550 | 2009-04-10 | 4106 | Holiday, Water samples collected on Thursday, 4/09/09 |

Detrex
CHEMICALS DIVISION

April 14, 2009

Ms. Terese Van Donsel
United States Environmental Protection Agency
Office of Superfund, Region 5
SR-6J
77 West Jackson Blvd.
Chicago, IL 60604-3590

Certified Mail, Return Receipt: 7004 1160 0003 4669 0388

Subject: Monthly Status Report-March 2009
Fields Brook Superfund Site
Detrex Source Area-Ashtabula, Ohio

Dear Ms. Van Donsel,

Detrex is submitting the enclosed monthly status report for the month of March 2009, for the Detrex Source Area Project.

If you have any questions, please contact me at (440) 997-6131, ext. 201.

Sincerely,

Thomas W. Steib

Thomas W. Steib
Operations Manager

cc: T. Doll, D. Church, R. Currie, J. Vence, K. Buell, URS, R. Williams, L. Evison

FIELDS BROOK SUPERFUND SITE, OPERABLE UNIT #2
DETREX SOURCE AREA
MONTHLY TECHNICAL STATUS REPORT

Project Phase: Remedial Design and Remedial Action.

Prepared by: Tom Steib of Detrex Corporation.

Period: Month of March 2009.

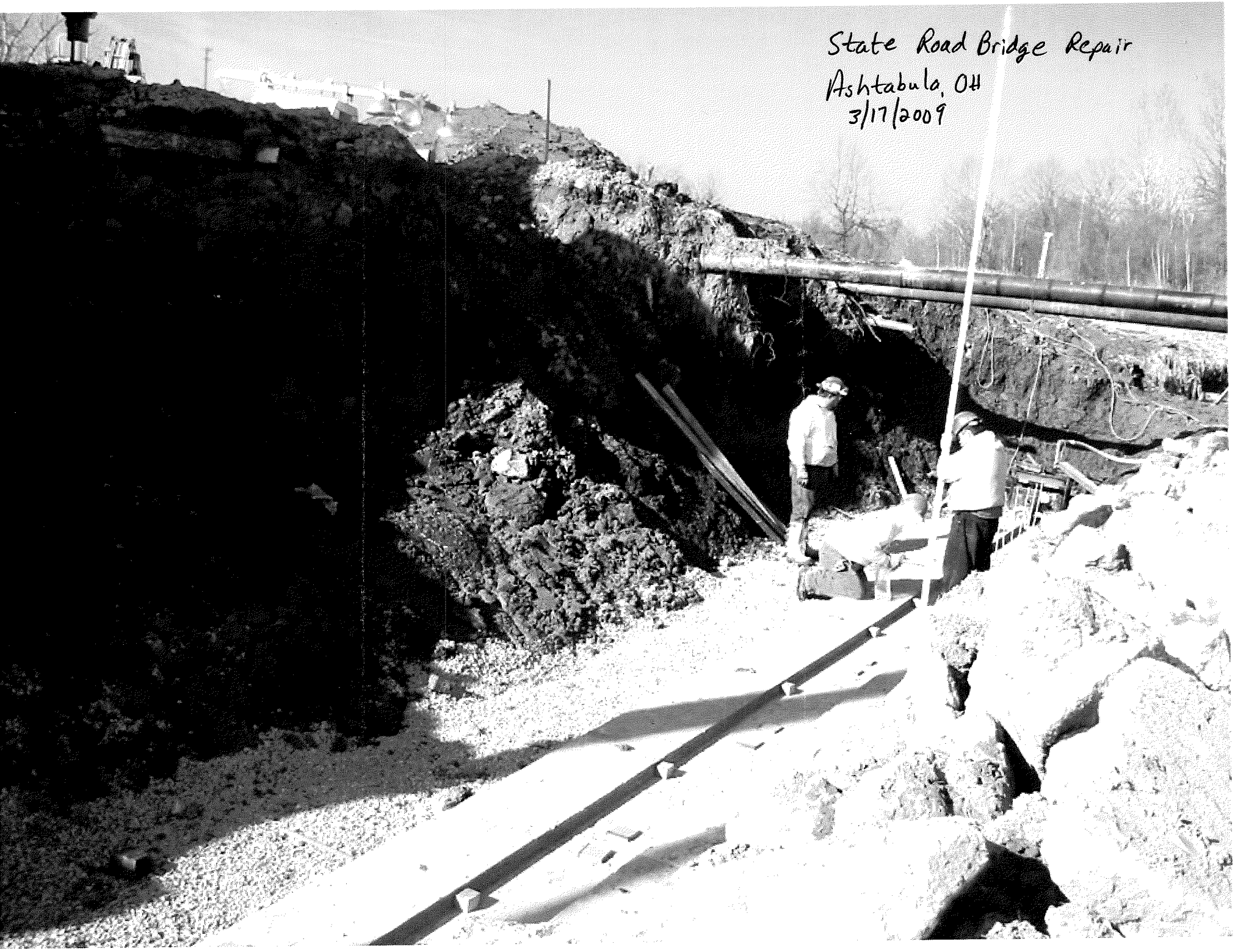
1. Progress Made This Reporting Period:

| ACTIVITY | THIS PERIOD GALLONS | YEAR TO DATE GALLONS | TOTAL GALLONS |
|---|---|---|---|
| **Estimated DNAPL Recovered** | **-0- (Does not include volume in settling tank)** | **-0-** | **15,680** |
| **DNAPL Disposed** | **-0-** | **-0-** | **13,980** |

A. There were -0- gallons of DNAPL pumped from the inside settling tank to the outside settling tank during March 2009.
B. Vacuum is at 20 inches.
C. Wells 1, 2, 4, 5, 6, 9, 10, 11, and 12 are being pumped on a regular basis.
D. Well 3, 7, and 8 are not pumpable and will be repaired.
E. Wells 13 and 14 do not pump.
F. All pumpable wells have to be flushed with water frequently to get the sediment out of the well insert to be able to pump.
G. Generating excessive amount of silt with the northern wells showing more silt than the east wells. Some of this silt causes difficulty in phase separation. Some of the silt settles to the bottom, while some silt gets caught in the rag layer between the DNAPL and the water, making the phase separation more difficult.
H. The State Road bridge repair is not complete. The site remains open with no DNAPL seeping into either side of the area. Notice the workers in the stream channel working with no respirators or other PPE other than hard hats and safety glasses. See pictures attached.

2. Work Planned During the Next 90 Days.

A. Continue re-developing the wells due to excessive silt build up.
B. All wells that are not pumpable will be attempted to be brought back on line.
C. Continue general repair.


State Road Bridge Repair
Ashtabula, OH
3/17/2009

State Road Bridge Repair
Ashtabula, OH
3/17/2009

State Road Bridge Repair
Ashtabula, OH
3/17/2009

Ashtabula, OH
State Road Bridge
Repair
3/17/2009

Detrex
CHEMICALS DIVISION

March 20, 2009

RECEIVED
MAR 26 2009
REMEDIAL RESPONSE BR. 2
FEDERAL FACILITIES

Ms. Terese Van Donsel
United States Environmental Protection Agency
Office of Superfund, Region 5
SR-6J
77 West Jackson Blvd.
Chicago, IL 60604-3590

Certified Mail, Return Receipt: 7004 1160 0003 4669 0364

Subject: Monthly Status Report-February 2009
Fields Brook Superfund Site
Detrex Source Area-Ashtabula, Ohio

Dear Ms. Van Donsel,

Detrex is submitting the enclosed monthly status report for the month of February 2009, for the Detrex Source Area Project.

If you have any questions, please contact me at (440) 997-6131, ext. 201.

Sincerely,

Thomas W. Steib

Thomas W. Steib
Operations Manager

cc: T. Doll, D. Church, R. Currie, J. Vence, K. Buell, URS, R. Williams, L. Evison

FIELDS BROOK SUPERFUND SITE, OPERABLE UNIT #2
DETREX SOURCE AREA
MONTHLY TECHNICAL STATUS REPORT

Project Phase: Remedial Design and Remedial Action.

Prepared by: Tom Steib of Detrex Corporation.

Period: Month of February 2009.

1. Progress Made This Reporting Period:

| ACTIVITY | THIS PERIOD GALLONS | YEAR TO DATE GALLONS | TOTAL GALLONS |
|---|---|---|---|
| **Estimated DNAPL Recovered** | **-0- (Does not include volume in settling tank)** | **-0-** | **15,680** |
| **DNAPL Disposed** | **-0-** | **-0-** | **13,980** |

A. There were -0- gallons of DNAPL pumped from the inside settling tank to the outside settling tank during February 2009.
B. Vacuum is at 20 inches.
C. Wells 1, 2, 4, 5, 6, 9, 10, 11, and 12 are being pumped on a regular basis.
D. Well 3, 7, and 8 are not pumpable and will be repaired.
E. Wells 13 and 14 do not pump.
F. All pumpable wells have to be flushed with water frequently to get the sediment out of the well insert to be able to pump.
G. Generating excessive amount of silt with the northern wells showing more silt than the east wells. Some of this silt causes difficulty in phase separation. Some of the silt settles to the bottom, while some silt gets caught in the rag layer between the DNAPL and the water, making the phase separation more difficult.
H. Attached are results of collection trench sump samples, monitoring well samples, and DNAPL levels in monitoring wells.

2. Work Planned During the Next 90 Days.

A. Continue re-developing the wells due to excessive silt build up.
B. All wells that are not pumpable will be attempted to be brought back on line.
C. Continue winterization and other repair.

3/20/2009 9:07

Detrex Collection Trench Analyses

Note: Collection Trench #1 is the middle sump.
Collection Trench #2 is the eastern sump.
Collection Trench #3 is the western sump. Sump #3 pumps into Sump #1.
Sump #1 was used to treat the frac tanks from State Road bridge repair water resulting in contamination.

| Date Sampled | 2/12/2009 | 2/12/2009 | 2/12/2009 | 2/12/2009 |
|---|---|---|---|---|
| Sump Number | 1 | 2 | 3 | Retention |
| | | | | Pond |
| VOC | | | | |
| 1,1,1-Trichloroethane, ug/l | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,1,2,2-Tetrachloroethane, ug/l | <5.0 | <5.0 | <5.0 | 484 |
| 1,1,2-Trichloroethane, ug/l | <5.0 | <5.0 | <5.0 | 18.6 |
| 1,1-Dichloroethane, ug/l | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,1-Dichloroethene, ug/l | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,2-Dichloroethane, ug/l | <5.0 | <5.0 | <5.0 | <5.0 |
| Choroform, ug/l | <5.0 | <5.0 | <5.0 | <5.0 |
| cis-1,2-Dichloroethene, ug/l | 14.7 | 84.7 | <5.0 | 10.6 |
| Methylene Chloride, ug/l | <5.0 | <5.0 | <5.0 | <5.0 |
| Tetrachloroethene, ug/l | 117 | 5.19 | <5.0 | 6.76 |
| trans-1,2-Dichloroethene, ug/l | <10.0 | <10.0 | <5.0 | <10.0 |
| Trichloroethene, ug/l | 121 | 20.9 | <5.0 | 139 |
| SVOC | | | | |
| Date Sampled | 2/12/2009 | 2/12/2009 | 2/12/2009 | 2/12/2009 |
| 1,2,4-Trichlorobenzene, ug/l | <10.0 | <10.2 | <10.0 | <10.0 |
| 1,2-Dichlorobenzene, ug/l | <10.0 | <10.2 | <10.0 | <10.0 |
| 1,4-Dichlorobenzene, ug/l | <10.0 | <10.2 | <10.0 | <10.0 |
| 1,3-Dichlorobenzene, ug/l | <10.0 | <10.2 | <10.0 | <10.0 |
| Hexachlorobenzene, ug/l | <10.0 | <10.2 | <10.0 | <10.0 |
| Hexachlorobutadiene, ug/l | <10.0 | <10.2 | <10.0 | <10.0 |
| Hexachloroethane,ug/l | <10.0 | <10.2 | <10.0 | <10.0 |

| Date Sampled | 12/23/2008 | 12/23/2008 | 12/23/2008 | 12/23/2008 |
|---|---|---|---|---|
| Sump Number | 1 | 2 | 3 | Retention |
| | | | | Pond |
| VOC | | | | |
| 1,1,1-Trichloroethane, ug/l | <2.0 | <2.0 | <2.0 | <2.0 |
| 1,1,2,2-Tetrachloroethane, ug/l | <2.0 | 3 | <2.0 | 300 |
| 1,1,2-Trichloroethane, ug/l | <2.0 | <2.0 | <2.0 | 7.2 |
| 1,1-Dichloroethane, ug/l | <2.0 | <2.0 | <2.0 | <2.0 |
| 1,1-Dichloroethene, ug/l | <4.0 | 120 | <4.0 | 9.7 |
| 1,2-Dichloroethane, ug/l | <2.0 | <2.0 | <2.0 | <2.0 |
| Choroform, ug/l | <2.0 | <2.0 | <2.0 | <2.0 |
| cis-1,2-Dichloroethene, ug/l | <2.0 | 120 | <2.0 | 94 |
| Methylene Chloride, ug/l | <2.0 | <2.0 | <2.0 | <2.0 |
| Tetrachloroethene, ug/l | <2.0 | 4.9 | <2.0 | 6.6 |
| trans-1,2-Dichloroethene, ug/l | <2.0 | 2.7 | <2.0 | 2.8 |

| | | | | |
|---|---|---|---|---|
| Trichloroethene, ug/l | 2.6 | 20 | 2.6 | 86 |
| SVOC | | | | |
| Date Sampled | 12/23/2008 | 12/23/2008 | 12/23/2008 | 12/23/2008 |
| 1,2,4-Trichlorobenzene, ug/l | <2.0 | <2.0 | <2.0 | <2.0 |
| 1,2-Dichlorobenzene, ug/l | <2.0 | <2.0 | <2.0 | <2.0 |
| 1,4-Dichlorobenzene, ug/l | <5.0 | <5.0 | <5.1 | <2.0 |
| 1,3-Dichlorobenzene, ug/l | <2.0 | <2.0 | <2.0 | <2.0 |
| Hexachlorobenzene, ug/l | <2.0 | <2.0 | <2.0 | <2.0 |
| Hexachlorobutadiene, ug/l | <5.0 | <5.0 | <5.1 | 2.5 |
| Hexachloroethane,ug/l | <2.0 | <2.0 | <2.0 | <2.0 |

The data from November 13, 2008, sample date is suspect due to the similarity of the results of all three sumps. The probability of this occurring is extremely small.

| | | | | |
|---|---|---|---|---|
| Date Sampled | 11/13/2008 | 11/13/2008 | 11/13/2008 | |
| Sump Number | 1 | 2 | 3 | |
| VOC | | | | |
| 1,1,1-Trichloroethane, ug/l | <5.0 | <5.0 | <5.0 | |
| 1,1,2,2-Tetrachloroethane, ug/l | <5.0 | <5.0 | <5.0 | |
| 1,1,2-Trichloroethane, ug/l | <5.0 | <5.0 | <5.0 | |
| 1,1-Dichloroethane, ug/l | <5.0 | <5.0 | <5.0 | |
| 1,1-Dichloroethene, ug/l | <5.0 | <5.0 | <5.0 | |
| 1,2-Dichloroethane, ug/l | <5.0 | <5.0 | <5.0 | |
| Choroform, ug/l | <5.0 | <5.0 | <5.0 | |
| cis-1,2-Dichloroethene, ug/l | 88.4 | 96.6 | 98.3 | |
| Methylene Chloride, ug/l | <5.0 | <5.0 | <5.0 | |
| Tetrachloroethene, ug/l | <5.0 | <5.0 | <5.0 | |
| trans-1,2-Dichloroethene, ug/l | <10.0 | <10.0 | <10.0 | |
| Trichloroethene, ug/l | 15.8 | 17.3 | 17.3 | |
| SVOC | | | | |
| Date Sampled | 11/13/2008 | 11/13/2008 | 11/13/2008 | |
| 1,2,4-Trichlorobenzene, ug/l | <10 | <10 | <10 | |
| 1,2-Dichlorobenzene, ug/l | <10 | <10 | <10 | |
| 1,4-Dichlorobenzene, ug/l | <10 | <10 | <10 | |
| 1,3-Dichlorobenzene, ug/l | <10 | <10 | <10 | |
| Hexachlorobenzene, ug/l | <10 | <10 | <10 | |
| Hexachlorobutadiene, ug/l | <10 | <10 | <10 | |
| Hexachloroethane,ug/l | <10 | <10 | <10 | |

| | | | | |
|---|---|---|---|---|
| Date Sampled | 8/1/2008 | 8/1/2008 | 8/1/2008 | |
| Sump Number | 1 | 2 | 3 | |
| VOC | | | | |
| 1,1,1-Trichloroethane, ug/l | <1.0 | <1.0 | <1.0 | |
| 1,1,2,2-Tetrachloroethane, ug/l | <1.0 | 5.99 | <1.0 | |
| 1,1,2-Trichloroethane, ug/l | <1.0 | <1.0 | <1.0 | |
| 1,1-Dichloroethane, ug/l | <1.0 | <1.0 | <1.0 | |
| 1,1-Dichloroethene, ug/l | <1.0 | 6.2 | <1.0 | |
| 1,2-Dichloroethane, ug/l | <1.0 | <1.0 | <1.0 | |
| Choroform, ug/l | <2.0 | <2.0 | <2.0 | |
| cis-1,2-Dichloroethene, ug/l | 1.1 | 188 | <1.0 | |
| Methylene Chloride, ug/l | <5.0 | <5.0 | <5.0 | |
| Tetrachloroethene, ug/l | 2.53 | 11.7 | 2.16 | |

| | | | | |
|---|---|---|---|---|
| trans-1,2-Dichloroethene, ug/l | <1.0 | 6.06 | <1.0 | |
| Trichloroethene, ug/l | 3.39 | 49.7 | 2.27 | |
| SVOC | | | | |
| Date Sampled | 8/1/2008 | 8/1/2008 | 8/1/2008 | |
| 1,2,4-Trichlorobenzene, ug/l | <10 | <10 | <10 | |
| 1,2-Dichlorobenzene, ug/l | <10 | <10 | <10 | |
| 1,4-Dichlorobenzene, ug/l | <10 | <10 | <10 | |
| 1,3-Dichlorobenzene, ug/l | <10 | <10 | <10 | |
| Hexachlorobenzene, ug/l | <10 | <10 | <10 | |
| Hexachlorobutadiene, ug/l | <10 | <10 | <10 | |
| Hexachloroethane,ug/l | <10 | <10 | <10 | |

| | | | | |
|---|---|---|---|---|
| Date Sampled | 5/8/2008 | 5/8/2008 | 5/8/2008 | |
| Sump Number | 1 | 2 | 3 | |
| VOC | | | | |
| 1,1,1-Trichloroethane, ug/l | <1.0 | <1.0 | <1.0 | |
| 1,1,2,2-Tetrachloroethane, ug/l | <1.0 | 6.33 | <1.0 | |
| 1,1,2-Trichloroethane, ug/l | <1.0 | <1.0 | <1.0 | |
| 1,1-Dichloroethane, ug/l | <1.0 | <1.0 | <1.0 | |
| 1,1-Dichloroethene, ug/l | <1.0 | <1.0 | <1.0 | |
| 1,2-Dichloroethane, ug/l | <1.0 | <1.0 | <1.0 | |
| Choroform, ug/l | <1.0 | <1.0 | <1.0 | |
| cis-1,2-Dichloroethene, ug/l | <1.0 | 174 | <1.0 | |
| Methylene Chloride, ug/l | <4.0 | <4.0 | <4.0 | |
| Tetrachloroethene, ug/l | <1.0 | 7.58 | <1.0 | |
| trans-1,2-Dichloroethene, ug/l | <1.0 | 11.60 | <1.0 | |
| Trichloroethene, ug/l | 3.01 | 77.2 | 2.48 | |
| SVOC | | | | |
| Date Sampled | 5/8/2008 | 5/8/2008 | 5/8/2008 | |
| 1,2,4-Trichlorobenzene, ug/l | <10 | <10 | <10 | |
| 1,2-Dichlorobenzene, ug/l | <10 | <10 | <10 | |
| 1,4-Dichlorobenzene, ug/l | <10 | <10 | <10 | |
| 1,3-Dichlorobenzene, ug/l | <10 | <10 | <10 | |
| Hexachlorobenzene, ug/l | <10 | <10 | <10 | |
| Hexachlorobutadiene, ug/l | <10 | <10 | <10 | |
| Hexachloroethane,ug/l | <10 | <10 | <10 | |
| | | | | |
| | | | | |
| Date Sampled | 2/8/2008 | 2/8/2008 | 2/8/2008 | |
| Sump Number | 1 | 2 | 3 | |
| VOC | | | | |
| 1,1,1-Trichloroethane, ug/l | <1.0 | <1.0 | <1.0 | |
| 1,1,2,2-Tetrachloroethane, ug/l | <1.0 | 1.81 | <1.0 | |
| 1,1,2-Trichloroethane, ug/l | <1.0 | <1.0 | <1.0 | |
| 1,1-Dichloroethane, ug/l | <1.0 | <1.0 | <1.0 | |
| 1,1-Dichloroethene, ug/l | <1.0 | <1.0 | <1.0 | |
| 1,2-Dichloroethane, ug/l | <1.0 | <1.0 | <1.0 | |
| Choroform, ug/l | <1.0 | <1.0 | <1.0 | |
| cis-1,2-Dichloroethene, ug/l | <1.0 | 88.7 | <1.0 | |
| Methylene Chloride, ug/l | <4.0 | <4.0 | <4.0 | |
| Tetrachloroethene, ug/l | 1.13 | 3.65 | 1.08 | |
| trans-1,2-Dichloroethene, ug/l | <1.0 | 2.00 | <1.0 | |

| | | | | |
|---|---|---|---|---|
| Trichloroethene, ug/l | 1.57 | 26.6 | 1.50 | |
| SVOC | | | | |
| Date Sampled | 2/8/2008 | 2/8/2008 | 2/8/2008 | |
| 1,2,4-Trichlorobenzene, ug/l | <20 | <20 | <20 UJ | |
| 1,2-Dichlorobenzene, ug/l | <10 | <10 | <10 UJ | |
| 1,4-Dichlorobenzene, ug/l | <10 | <10 | <10 UJ | |
| 1,3-Dichlorobenzene, ug/l | <10 | <10 | <10 UJ | |
| Hexachlorobenzene, ug/l | <10 | <10 | <10 UJ | |
| Hexachlorobutadiene, ug/l | <10 | <10 | <10 UJ | |
| Hexachloroethane,ug/l | <10 | <10 | <10 UJ | |
| UJ=Results are estimated due to low surrogate recovery. | | | | |

| | | | | |
|---|---|---|---|---|
| Date Sampled | 1/3/2008 | 1/3/2008 | 1/3/2008 | |
| Sump Number | 1 | 2 | 3 | |
| VOC | | | | |
| 1,1,1-Trichloroethane, ug/l | <1.0 | <5.0 | <1.0 | |
| 1,1,2,2-Tetrachloroethane, ug/l | <1.0 | <5.0 | <1.0 | |
| 1,1,2-Trichloroethane, ug/l | <1.0 | <5.0 | <1.0 | |
| 1,1-Dichloroethane, ug/l | <1.0 | <5.0 | <1.0 | |
| 1,1-Dichloroethene, ug/l | <1.0 | <5.0 | <1.0 | |
| 1,2-Dichloroethane, ug/l | <1.0 | <5.0 | <1.0 | |
| Choroform, ug/l | <1.0 | <5.0 | <1.0 | |
| cis-1,2-Dichloroethene, ug/l | <1.0 | 92.8 | <1.0 | |
| Methylene Chloride, ug/l | <4.0 | <20.0 | <4.0 | |
| Tetrachloroethene, ug/l | 1.96 | <5.0 | 1.28 | |
| trans-1,2-Dichloroethene, ug/l | <1.0 | <5.0 | <1.0 | |
| Trichloroethene, ug/l | 2.80 | 21.3 | 1.53 | |
| SVOC | | | | |
| Date Sampled | 1/3/2008 | 1/3/2008 | 1/3/2008 | |
| 1,2,4-Trichlorobenzene, ug/l | NA | NA | NA | |
| 1,2-Dichlorobenzene, ug/l | NA | NA | NA | |
| 1,4-Dichlorobenzene, ug/l | NA | NA | NA | |
| 1,3-Dichlorobenzene, ug/l | NA | NA | NA | |
| Hexachlorobenzene, ug/l | NA | NA | NA | |
| Hexachlorobutadiene, ug/l | NA | NA | NA | |
| Hexachloroethane,ug/l | NA | NA | NA | |
| | | | | |
| Date Sampled | 11/26/2007 | 11/26/2007 | 11/26/2007 | |
| Sump Number | 1 | 2 | 3 | |
| VOC | | | | |
| 1,1,1-Trichloroethane, ug/l | <5.0 | <5.0 | <5.0 | |
| 1,1,2,2-Tetrachloroethane, ug/l | <5.0 | <5.0 | <5.0 | |
| 1,1,2-Trichloroethane, ug/l | <5.0 | <5.0 | <5.0 | |
| 1,1-Dichloroethane, ug/l | <5.0 | <5.0 | <5.0 | |
| 1,1-Dichloroethene, ug/l | <5.0 | <5.0 | <5.0 | |
| 1,2-Dichloroethane, ug/l | <5.0 | <5.0 | <5.0 | |
| Choroform, ug/l | <5.0 | <5.0 | <5.0 | |
| cis-1,2-Dichloroethene, ug/l | <5.0 | 58 | <5.0 | |
| Methylene Chloride, ug/l | <10.0 | <10.0 | <10.0 | |
| Tetrachloroethene, ug/l | <5.0 | <5.0 | <5.0 | |
| trans-1,3-Dichloroethene, ug/l | <5.0 | <5.0 | <5.0 | |
| Trichloroethene, ug/l | <5.0 | 17.8 | <5.0 | |

| | | | | |
|---|---|---|---|---|
| SVOC | | | | |
| Date Sampled | 12/7/2007 | 12/7/2007 | 12/7/2007 | |
| 1,2,4-Trichlorobenzene, ug/l | <20 | <20 | <20 | |
| 1,2-Dichlorobenzene, ug/l | <10 | <10 | <10 | |
| 1,4-Dichlorobenzene, ug/l | <10 | <10 | <10 | |
| 1,3-Dichlorobenzene, ug/l | <10 | <10 | <10 | |
| Hexachlorobenzene, ug/l | <10 | <10 | <10 | |
| Hexachlorobutadiene, ug/l | <10 | <10 | <10 | |
| Hexachloroethane,ug/l | <10 | <10 | <10 | |
| | | | | |
| Date Sampled | 9/21/2007 | 9/21/2007 | 9/21/2007 | 9/21/2007 |
| Sump Number | 1 | 2 | 3 | Field Blank |
| VOC | | | | |
| 1,1,1-Trichloroethane, ug/l | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2,2-Tetrachloroethane, ug/l | <1.0 | 3.45 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane, ug/l | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethane, ug/l | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethene, ug/l | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,2-Dichloroethane, ug/l | <1.0 | <1.0 | <1.0 | <1.0 |
| Choroform, ug/l | <1.0 | <1.0 | <1.0 | <1.0 |
| cis-1,2-Dichloroethene, ug/l | <1.0 | 199 | <1.0 | <1.0 |
| Methylene Chloride, ug/l | <1.0 | <1.0 | <1.0 | <1.0 |
| Tetrachloroethene, ug/l | 5.85 | 25.1 | <1.0 | <1.0 |
| trans-1,3-Dichloroethene, ug/l | <1.0 | 6.90 | <1.0 | <1.0 |
| Trichloroethene, ug/l | 7.22 | 72.1 | <1.0 | <1.0 |
| SVOC | | | | |
| 1,2,4-Trichlorobenzene, ug/l | <10 | <10 | <10 | <10 |
| 1,2-Dichlorobenzene, ug/l | <10 | <10 | <10 | <10 |
| 1,4-Dichlorobenzene, ug/l | <10 | <10 | <10 | <10 |
| 1,3-Dichlorobenzene, ug/l | <10 | <10 | <10 | <10 |
| Hexachlorobenzene, ug/l | <10 | <10 | <10 | <10 |
| Hexachlorobutadiene, ug/l | <10 | <10 | <10 | <10 |
| Hexachloroethane,ug/l | <10 | <10 | <10 | <10 |

## Detrex Ashtabula, OH DNAPL Well VOC Analyses

March 20, 2009

| Date Sampled | 01/29/09 | 01/29/09 | 01/29/09 | 01/29/09 | 01/29/09 | 01/29/09 | 01/29/09 | 01/29/09 | 01/29/09 |
|---|---|---|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S | RMI-N | RMI-S | Trip Blank |
| VOC | | | | | | | | | |
| 1,1,1-Trichloroethane, ug/l | <5.0 | <1.0 | <100 | <100 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 |
| 1,1,2,2-Tetrachloroethane, ug/l | <1.0 | <1.0 | <100 | 1,780 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane, ug/l | <1.0 | <1.0 | <100 | <100 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethene, ug/l | <1.0 | <1.0 | 949 | <100 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Choroform, ug/l | <1.0 | <1.0 | <100 | <100 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Methylene Chloride, ug/l | <4.0 | <4.0 | <400 | <400 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 |
| Trichloroethene, ug/l | <5.0 | <1.0 | 40,500 | 58,200 | <1.0 | <1.0 | 3.8 | <1.0 | <1.0 |

| Date Sampled | 11/12/08 | 11/12/08 | 11/12/08 | 11/12/08 | 11/12/08 | 11/12/08 | 11/12/08 | 11/12/08 | 11/12/08 |
|---|---|---|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S | RMI-N | RMI-S | Trip Blank |
| VOC | | | | | | | | | |
| 1,1,1-Trichloroethane, ug/l | <5.0 | <5.0 | <1,250 | <2,500 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,1,2,2-Tetrachloroethane, ug/l | <5.0 | <5.0 | <1,250 | 2,600 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,1,2-Trichloroethane, ug/l | <5.0 | <5.0 | <1,250 | <2,500 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,1-Dichloroethene, ug/l | <5.0 | <5.0 | 1,270 | <2,500 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Choroform, ug/l | <5.0 | <5.0 | <1,250 | <2,500 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Methylene Chloride, ug/l | <5.0 | <5.0 | <1,250 | <2,500 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Trichloroethene, ug/l | <5.0 | <5.0 | 39,400 | 63,600 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |

| Date Sampled | 08/07/08 | 08/07/08 | 08/07/08 | 08/07/08 | 08/07/08 | 08/07/08 | 08/07/08 | 08/07/08 | 08/07/08 |
|---|---|---|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S | RMI-N | RMI-S | Trip Blank |
| VOC | | | | | | | | | |
| 1,1,1-Trichloroethane, ug/l | <1.0 | <1.0 | <10 | <50 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2,2-Tetrachloroethane, ug/l | <1.0 | <1.0 | <10 | 2,470 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane, ug/l | <1.0 | <1.0 | 24.2 | <50 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethene, ug/l | <1.0 | <1.0 | 216 | <50 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Choroform, ug/l | <2.0 | <2.0 | <20 | 296 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Methylene Chloride, ug/l | <5.0 | <5.0 | <50 | <250 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Trichloroethene, ug/l | <2.0 | <2.0 | 24,500 | 49,060 | 9.04 | <2.0 | 9.46 | 5.89 | <2.0 |

| Date Sampled | 05/08/08 | 05/08/08 | 05/08/08 | 05/08/08 | 05/08/08 | 05/08/08 | 05/08/08 | 05/08/08 | 05/08/08 |
|---|---|---|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S | RMI-N | RMI-S | Trip Blank |
| VOC | | | | | | | | | |
| 1,1,1-Trichloroethane, ug/l | <1.0 | <1.0 | <250 | <250 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2,2-Tetrachloroethane, ug/l | <1.0 | <1.0 | <250 | 3,010 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane, ug/l | <1.0 | <1.0 | <250 | <250 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethene, ug/l | <1.0 | <1.0 | 940 | <250 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Choroform, ug/l | <1.0 | <1.0 | <250 | 346 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Methylene Chloride, ug/l | <4.0 | <4.0 | <2500 | <2500 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 |
| Trichloroethene, ug/l | <1.0 | <1.0 | 45,900 | 66,100 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

| Date Sampled | 02/21/08 | 02/21/08 | 02/21/08 | 02/21/08 | 02/21/08 | 02/21/08 | 02/21/08 | 02/21/08 | 02/21/08 |
|---|---|---|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S | RMI-N | RMI-S | Trip Blank |
| VOC | | | | | | | | | |
| 1,1,1-Trichloroethane, ug/l | <1.0 | <1.0 | <250 | <250 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2,2-Tetrachloroethane, ug/l | <1.0 | <1.0 | <250 | 1,900 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane, ug/l | <1.0 | <1.0 | <250 | <250 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethene, ug/l | <1.0 | <1.0 | 943 | <250 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Choroform, ug/l | <1.0 | <1.0 | <250 | <250 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Methylene Chloride, ug/l | <4.0 | <4.0 | <1000 | <1000 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 |
| Trichloroethene, ug/l | <1.0 | <1.0 | 38,400 | 66,400 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

| Date Sampled | 11/26/07 | 11/26/07 | 11/26/07 | 11/26/07 | 11/26/07 | 11/26/07 | 11/26/07 | 11/26/07 | 11/26/07 |
|---|---|---|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S | RMI-N | RMI-S | Trip Blank |
| VOC | | | | | | | | | |
| 1,1,1-Trichloroethane, ug/l | <5.0 | <1.0 | <25.0 | <50.0 | <1.0 | <1.0 | <5.0 | <5.0 | ND |
| 1,1,2,2-Tetrachloroethane, ug/l | <5.0 | <1.0 | <25.0 | 3,073 | <1.0 | <1.0 | <5.0 | <5.0 | ND |
| 1,1,2-Trichloroethane, ug/l | <5.0 | <1.0 | 57 | <50.0 | <1.0 | <1.0 | <5.0 | <5.0 | ND |
| 1,1-Dichloroethene, ug/l | <5.0 | <1.0 | 1,240 | 333 | <1.0 | <1.0 | <5.0 | <5.0 | ND |
| 1,3-Dichlorobenzene, ug/l | NA | NA | NA | NA | NA | NA | NA | NA | ND |
| Choroform, ug/l | <5.0 | <1.0 | <25.0 | 447 | <1.0 | <1.0 | <5.0 | <5.0 | ND |
| Methylene Chloride, ug/l | <10.0 | <4.0 | <100 | <200 | <4.0 | <4.0 | <10.0 | <10.0 | ND |
| Trichloroethene, ug/l | <5.0 | <1.0 | 41,100 | 63,160 | <1.0 | <1.0 | <5.0 | <5.0 | ND |

| Date Sampled | 09/13/07 | 09/13/07 | 09/13/07 | 09/13/07 | 09/13/07 | 09/13/07 | 09/13/07 | 09/13/07 | 09/13/07 |
|---|---|---|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S | RMI-N | RMI-S | Trip Blank |
| VOC | | | | | | | | | |
| 1,1,1-Trichloroethane, ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane, ug/l | ND | ND | 36 | 2380 | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane, ug/l | ND | ND | 62 | 32 | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene, ug/l | ND | ND | 1,160 | 185 | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene, ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Choroform, ug/l | ND | ND | ND | 298 | ND | ND | ND | ND | ND |
| Methylene Chloride, ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichloroethene, ug/l | ND | ND | 40,900 | 57,560 | ND | 3.83 | ND | 1.02 | ND |

| Date Sampled | 06/01/07 | 06/01/07 | 06/01/07 | 06/01/07 | 06/01/07 | 06/01/07 | 06/01/07 | 06/01/07 | 06/01/07 |
|---|---|---|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S | RMI-N | RMI-S | Trip Blank |
| VOC | | | | | | | | | |
| 1,1,1-Trichloroethane, ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane, ug/l | ND | ND | ND | 1910 | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane, ug/l | ND | ND | 47 | 34 | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene, ug/l | ND | ND | 890 | 186 | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene, ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Choroform, ug/l | ND | ND | ND | 330 | ND | ND | ND | ND | ND |
| Methylene Chloride, ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichloroethene, ug/l | ND | ND | 39,300 | 66,600 | ND | ND | ND | 8.93 | ND |

| Date Sampled | 03/15/07 | 03/15/07 | 03/15/07 | 03/15/07 | 03/15/07 | 03/15/07 | 03/15/07 |
|---|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S | Trip Blank |
| VOC | | | | | | | |
| 1,1,1-Trichloroethane, ug/l | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane, ug/l | ND | ND | ND | 1920 | ND | ND | ND |
| 1,1,2-Trichloroethane, ug/l | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene, ug/l | ND | ND | 771 | ND | ND | ND | ND |
| 1,3-Dichlorobenzene, ug/l | ND | ND | ND | ND | ND | ND | ND |
| Choroform, ug/l | ND | ND | ND | 287 | ND | ND | ND |
| Methylene Chloride, ug/l | ND | ND | ND | ND | ND | ND | ND |
| Trichloroethene, ug/l | ND | ND | 35,400 | 59,400 | 2.61 | ND | ND |

| Date Sampled | 11/03/06 | 11/03/06 | 11/03/06 | 11/03/06 | 11/03/06 | 11/03/06 | 11/03/06 |
|---|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S | Trip Blank |
| VOC | | | | | | | |
| 1,1,1-Trichloroethane, ug/l | ND | ND | ND | 9.64 | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane, ug/l | ND | ND | ND | 2620 | ND | ND | ND |
| 1,1,2-Trichloroethane, ug/l | ND | ND | 61.6 | 80 | ND | ND | ND |
| 1,1-Dichloroethene, ug/l | ND | ND | 806 | ND | ND | ND | ND |
| 1,3-Dichlorobenzene, ug/l | ND | ND | ND | ND | ND | ND | ND |
| Choroform, ug/l | ND | ND | ND | 405 | ND | ND | ND |
| Methylene Chloride, ug/l | ND | ND | ND | ND | ND | ND | ND |
| Trichloroethene, ug/l | ND | ND | 40,500 | 77,000 | ND | ND | ND |

| Date Sampled | 09/15/06 | 08/10/06 | 08/10/06 | 08/10/06 | 08/10/06 | 08/10/06 | 08/10/06 |
|---|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S | Trip Blank |
| VOC | | | | | | | |
| 1,1,1-Trichloroethane, ug/l | ND | ND | ND | 6.56 | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane, ug/l | ND | ND | ND | 3320 | ND | ND | ND |
| 1,1,2-Trichloroethane, ug/l | ND | ND | 58.5 | 31.3 | ND | ND | ND |
| 1,1-Dichloroethene, ug/l | ND | ND | 798 | ND | ND | ND | ND |
| 1,3-Dichlorobenzene, ug/l | ND | ND | ND | ND | ND | ND | ND |
| Choroform, ug/l | ND | ND | ND | 334 | ND | ND | ND |
| Methylene Chloride, ug/l | ND | ND | ND | ND | ND | ND | ND |
| Trichloroethene, ug/l | ND | ND | 33,200 | 45,300 | ND | ND | ND |

| Date Sampled | 05/19/06 | 05/19/06 | 05/19/06 | 05/19/06 | 05/19/06 | 05/19/06 | 05/19/06 |
|---|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S | Trip Blank |
| VOC | | | | | | | |
| 1,1,1-Trichloroethane, ug/l | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane, ug/l | ND | ND | ND | 2060 | ND | ND | ND |
| 1,1,2-Trichloroethane, ug/l | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene, ug/l | ND | ND | 736 | ND | ND | ND | ND |
| 1,3-Dichlorobenzene, ug/l | ND | ND | ND | ND | ND | ND | ND |
| Choroform, ug/l | ND | ND | ND | ND | ND | ND | ND |
| Methylene Chloride, ug/l | ND | ND | ND | ND | ND | ND | 1.02 |
| Trichloroethene, ug/l | ND | ND | 50,300 | 77,500 | ND | 1.15 | 5.27 |
| | | | | | | | |
| Date Sampled | 03/13/06 | 03/13/06 | 03/13/06 | 03/13/06 | 03/13/06 | 03/13/06 | |

| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S |
|---|---|---|---|---|---|---|
| VOC | | | | | | |
| 1,1,1-Trichloroethane, ug/l | ND | ND | ND | NA | ND | ND |
| 1,1,2,2-Tetrachloroethane, ug/l | ND | ND | ND | NA | ND | ND |
| 1,1,2-Trichloroethane, ug/l | ND | ND | 53 | NA | ND | ND |
| 1,1-Dichloroethene, ug/l | ND | ND | 1,060 | NA | ND | ND |
| 1,3-Dichlorobenzene, ug/l | ND | ND | ND | NA | ND | ND |
| Choroform, ug/l | ND | ND | ND | NA | ND | ND |
| Methylene Chloride, ug/l | ND | ND | ND | NA | ND | ND |
| Trichloroethene, ug/l | ND | ND | 84,000 | NA | ND | ND |

| Date Sampled | 01/10/06 | 01/10/06 | 01/10/06 | 01/10/06 | 01/10/06 | 01/10/06 |
|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S |
| VOC | | | | | | |
| 1,1,1-Trichloroethane, ug/l | ND | ND | ND | 15.4 | ND | ND |
| 1,1,2,2-Tetrachloroethane, ug/l | ND | ND | ND | 1790 | ND | ND |
| 1,1,2-Trichloroethane, ug/l | ND | ND | 64.4 | 21.2 | ND | ND |
| 1,1-Dichloroethene, ug/l | ND | ND | 733 | 209 | ND | ND |
| 1,3-Dichlorobenzene, ug/l | ND | ND | ND | ND | ND | ND |
| Choroform, ug/l | ND | ND | ND | 431 | ND | ND |
| Methylene Chloride, ug/l | ND | ND | 2.57 | ND | ND | ND |
| Trichloroethene, ug/l | 3.43 est. | 1.36 est. | 44,400 | 87,100 | 1.49 est. | 1.79 est. |

Note: Est. means results are estimated. Trichloroethene was detected in the 1/13/06 method blank at 1.02 ug/l, which applies to samples above marked est. For the samples analyzed on 1/13/06, Trichloroethene was flagged as estimated. Results my be biased high due to presence in the method blank. No other quality control irregularities were identified.

| Date Sampled | 09/29/05 | 09/29/05 | 09/29/05 | 09/29/05 | 09/29/05 | 09/29/05 |
|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-10 | MW-17S | MW-18S |
| VOC | | | | | | |
| 1,1,1-Trichloroethane, ug/l | ND | ND | ND | 15 | ND | ND |
| 1,1,2,2-Tetrachloroethane, ug/l | ND | ND | ND | 1190 | ND | ND |
| 1,1,2-Trichloroethane, ug/l | ND | ND | 29.3 | 24.9 | ND | ND |
| 1,1-Dichloroethene, ug/l | ND | ND | 753 | 237 | ND | ND |
| 1,3-Dichlorobenzene, ug/l | ND | ND | ND | 2.07 | ND | ND |
| Choroform, ug/l | ND | ND | ND | 199 | ND | ND |
| Methylene Chloride, ug/l | ND | ND | 2.57 | 6.44 | ND | ND |

| | | | | | | |
|---|---|---|---|---|---|---|
| Trichloroethene, ug/l | ND | ND | 31,700 | 71,500 | 1.38 | ND |

| Date Sampled | 06/15/05 | 06/15/05 | 06/15/05 | 06/15/05 | 07/08/05 | 06/15/05 |
|---|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-17S | MW-17S | MW-18S |
| VOC | | | | | | |
| 1,1,1-Trichloroethane, ug/l | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane, ug/l | ND | ND | ND | 1.39* | 1.39* | ND |
| 1,1,2-Trichloroethane, ug/l | ND | ND | 40.8 | ND | ND | ND |
| 1,1-Dichloroethene, ug/l | ND | ND | 912 | ND | ND | ND |
| 1,3-Dichlorobenzene, ug/l | ND | ND | ND | ND | ND | ND |
| Choroform, ug/l | ND | ND | ND | ND | ND | ND |
| Methylene Chloride, ug/l | ND | ND | 2.51 | ND | ND | ND |
| Trichloroethene, ug/l | ND | ND | 27,100 | 1.6* | 1.26* | ND |
| *Well 17S is suspected of being contaminated by the oil/water phase sample tape. | | | | | | |

| Date Sampled | 03/18/05 | 04/22/05 | 03/31/05 | 03/31/05 | 04/22/05 |
|---|---|---|---|---|---|
| Well Number | MW-21 | MW-02S | MW-04S | MW-17S | MW-18S |
| VOC | | | | | |
| 1,1,1-Trichloroethane, ug/l | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane, ug/l | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane, ug/l | ND | ND | 21.1 | ND | ND |
| 1,1-Dichloroethene, ug/l | ND | ND | 1,030 | ND | ND |
| 1,3-Dichlorobenzene, ug/l | ND | ND | ND | ND | ND |
| Choroform, ug/l | ND | ND | ND | ND | ND |
| Methylene Chloride, ug/l | ND | ND | ND | ND | ND |
| Trichloroethene, ug/l | ND | ND | 26,300 | ND | ND |

## Detrex Ashtabula, OH Well Water and DNAPL Levels

March 20, 2009

| January 8, 2009 | | | | |
|---|---|---|---|---|
| Well Number | Depth To Water | Depth to DNAPL | Depth to Bottom | Depth of DNAPL |
| RMW-1 | 3.60 | 19.40 | 26.80 | 7.40 |
| RMW-2 | 5.70 | 20.70 | 23.90 | 3.20 |
| RMW-3 | 5.30 | 19.50 | 24.80 | 5.30 |
| MW-7 | 3.90 | 12.00 | 12.80 | 0.80 |
| MW-10 | 5.40 | None | 20.00 | None |
| MW-02S | 3.50 | None | 14.90 | None |
| MW-02D | 5.70 | None | 52.20 | None |
| MW-04S | 6.80 | None | 16.60 | None |
| MW-17D | 5.30 | None | 50.30 | None |
| MW-17S | 3.90 | None | 17.20 | None |
| MW-18D | 6.20 | None | 52.50 | None |
| MW-18S | 2.10 | None | 17.00 | None |
| MW-21 | 4.00 | None | 28.20 | None |
| SLURRY NORTH | 8.90 | None | 18.40 | None |
| SLURRY SOUTH | 9.10 | None | 22.30 | None |

Note: Depths measured in feet from top of outer protective casing.

| November 5, 2008 | | | | |
|---|---|---|---|---|
| Well Number | Depth To Water | Depth to DNAPL | Depth to Bottom | Depth of DNAPL |
| RMW-1 | 5.90 | 18.60 | 27.00 | 8.40 |
| RMW-2 | 6.80 | 22.00 | 24.30 | 2.30 |
| RMW-3 | 9.40 | 17.10 | 25.20 | 8.10 |
| MW-7 | 5.50 | 12.90 | 12.90 | 0.00 |
| MW-10 | 12.90 | None | 19.90 | None |
| MW-02S | 14.30 | None | 14.90 | None |
| MW-02D | 6.20 | None | 52.30 | None |
| MW-04S | 6.40 | None | 16.70 | None |
| MW-17D | 5.30 | None | 50.30 | None |
| MW-17S | 15.60 | None | 17.20 | None |
| MW-18D | 5.40 | None | 52.50 | None |
| MW-18S | 12.20 | None | 17.10 | None |
| MW-21 | 6.70 | None | 28.10 | None |
| SLURRY NORTH | 9.20 | None | 18.50 | None |
| SLURRY SOUTH | 9.70 | None | 22.30 | None |

Note: Depths measured in feet from top of outer protective casing.

| June 11, 2008 | | | | |
|---|---|---|---|---|
| **Well Number** | **Depth To Water** | **Depth to DNAPL** | **Depth to Bottom** | **Depth of DNAPL** |
| RMW-1 | 4.30 | 18.80 | 26.70 | 7.90 |
| RMW-2 | 5.40 | 21.90 | 23.80 | 1.90 |
| RMW-3 | 8.90 | 13.90 | 24.70 | 10.80 |
| MW-7 | 5.50 | 12.90 | 13.30 | 0.40 |
| MW-10 | 8.10 | None | 19.70 | None |
| MW-02S | 7.00 | None | 15.00 | None |
| MW-02D | 5.70 | None | 52.00 | None |
| MW-04S | 6.30 | None | 16.70 | None |
| MW-17D | 4.20 | None | 50.30 | None |
| MW-17S | 9.50 | None | 17.20 | None |
| MW-18D | 4.60 | None | 52.50 | None |
| MW-18S | 7.40 | None | 17.00 | None |
| MW-21 | 5.50 | None | 28.20 | None |
| SLURRY NORTH | 8.90 | None | 18.30 | None |
| SLURRY SOUTH | 9.80 | None | 22.20 | None |

Note: Depths measured in feet from top of outer protective casing.

| March 24, 2008 | | | | |
|---|---|---|---|---|
| **Well Number** | **Depth To Water** | **Depth to DNAPL** | **Depth to Bottom** | **Depth of DNAPL** |
| RMW-1 | 4.30 | 18.40 | 26.80 | 8.40 |
| RMW-2 | 5.60 | 20.60 | 23.90 | 3.30 |
| RMW-3 | 6.10 | 15.10 | 24.90 | 9.80 |
| MW-7 | 6.60 | 6.90 | 14.60 | 7.70 |
| MW-10 | 7.90 | None | 19.90 | None |
| MW-02S | 4.10 | None | 15.10 | None |
| MW-02D | 6.20 | None | 52.30 | None |
| MW-04S | 6.90 | None | 16.60 | None |
| MW-17D | 6.50 | None | 50.30 | None |
| MW-17S | 6.30 | None | 17.20 | None |
| MW-18D | 6.60 | None | 52.60 | None |
| MW-18S | 3.50 | None | 17.20 | None |
| MW-21 | 4.60 | None | 28.30 | None |
| SLURRY NORTH | 8.40 | None | 18.40 | None |
| SLURRY SOUTH | 9.30 | None | 22.20 | None |

Note: Depths measured in feet from top of outer protective casing.

| December 18, 2007 | | | | |
|---|---|---|---|---|
| **Well Number** | **Depth To Water** | **Depth to DNAPL** | **Depth to Bottom** | **Depth of DNAPL** |

| | | | | |
|---|---|---|---|---|
| RMW-1 | 4.30 | 18.40 | 26.80 | 8.40 |
| RMW-2 | 5.60 | 20.60 | 23.90 | 3.30 |
| RMW-3 | 6.10 | 15.10 | 24.90 | 9.80 |
| MW-7 | 6.10 | 6.80 | 14.50 | 7.70 |
| MW-10 | 7.10 | None | 19.90 | None |
| MW-02S | 3.90 | None | 15.10 | None |
| MW-02D | 5.80 | None | 52.20 | None |
| MW-04S | 6.50 | None | 16.70 | None |
| MW-17D | 6.20 | None | 50.30 | None |
| MW-17S | 5.90 | None | 17.20 | None |
| MW-18D | 6.10 | None | 52.60 | None |
| MW-18S | 2.70 | None | 17.20 | None |
| MW-21 | 3.20 | None | 28.30 | None |
| SLURRY NORTH | 8.10 | None | 18.40 | None |
| SLURRY SOUTH | 9.00 | None | 22.20 | None |

Note: Depths measured in feet from top of outer protective casing.

September 12, 2007

| Well Number | Depth To Water | Depth to DNAPL | Depth to Bottom | Depth of DNAPL |
|---|---|---|---|---|
| RMW-1 | 5.10 | 18.50 | 26.80 | 8.30 |
| RMW-2 | 5.70 | 20.60 | 23.70 | 3.10 |
| RMW-3 | 10.00 | 12.70 | 24.80 | 12.10 |
| MW-7 | 6.60 | 9.20 | 14.20 | 5.00 |
| MW-10 | 5.00 | 18.60 | 20.10 | 1.50 |
| MW-02S | 9.10 | None | 15.10 | None |
| MW-02D | 6.20 | None | 52.50 | None |
| MW-04S | 6.30 | None | 16.60 | None |
| MW-17D | 4.90 | None | 50.80 | None |
| MW-17S | 15.40 | None | 17.20 | None |
| MW-18D | 5.90 | None | 52.60 | None |
| MW-18S | 12.00 | None | 17.10 | None |
| MW-21 | 5.90 | None | 28.30 | None |
| SLURRY NORTH | 8.60 | None | 18.40 | None |
| SLURRY SOUTH | 9.60 | None | 22.20 | None |

Note: Depths measured in feet from top of outer protective casing.

May 21, 2007

| Well Number | Depth To Water | Depth to DNAPL | Depth to Bottom | Depth of DNAPL |
|---|---|---|---|---|
| RMW-1 | 4.20 | 19.40 | 26.80 | 7.40 |
| RMW-2 | 6.10 | 20.90 | 23.80 | 2.90 |
| RMW-3 | 7.40 | 14.70 | 24.80 | 10.10 |
| MW-7 | 6.60 | 9.20 | 14.20 | 5.00 |

| | | | | |
|---|---|---|---|---|
| MW-10 | 5.00 | 18.60 | 20.10 | 1.50 |
| MW-01S | Well no longer exists. | | | |
| MW-02S | 4.20 | None | 15.10 | None |
| MW-02D | 37.00 | None | 52.80 | None |
| MW-04S | 7.00 | None | 16.80 | None |
| MW-17D | 3.50 | None | 50.50 | None |
| MW-17S | 4.60 | None | 17.20 | None |
| MW-18D | 7.00 | None | 53.10 | None |
| MW-18S | 2.80 | None | 17.20 | None |
| MW-20S | | | | |
| MW-21 | 5.20 | None | 28.20 | None |
| SLURRY NORTH | 8.70 | None | 18.90 | None |
| SLURRY SOUTH | 10.60 | None | 22.40 | None |
| RMIMW-05S | Well no longer exists. | | | |

Note: Depths measured in feet from top of outer protective casing.

| February 2, 2007 | | | | |
|---|---|---|---|---|
| **Well Number** | **Depth To Water** | **Depth to DNAPL** | **Depth to Bottom** | **Depth of DNAPL** |
| RMW-1 | 4.10 | 18.00 | 26.70 | 8.70 |
| RMW-2 | 6.00 | 20.30 | 23.80 | 3.50 |
| RMW-3 | 6.00 | 15.50 | 24.80 | 9.30 |
| MW-7 | 6.00 | 6.60 | 14.40 | 7.80 |
| MW-10 | 5.00 | 18.70 | 20.30 | 1.60 |
| MW-01S | Well no longer exists. | | | |
| MW-02S | 2.80 | None | 14.90 | None |
| MW-02D | 37.60 | None | 52.90 | None |
| MW-04S | 7.00 | None | 16.70 | None |
| MW-17D | 5.80 | None | 50.70 | None |
| MW-17S | 3.10 | None | 17.20 | None |
| MW-18D | 14.60 | None | 51.00 | None |
| MW-18S | 2.60 | None | 17.00 | None |
| MW-20S | | | | |
| MW-21 | 3.50 | None | 28.20 | None |
| SLURRY NORTH | Access | Blocked | | |
| SLURRY SOUTH | Access | Blocked | | |
| RMIMW-05S | Well no longer exists. | | | |

Note: Depths measured in feet from top of outer protective casing.

| November 7, 2006 | | | | |
|---|---|---|---|---|
| **Well Number** | **Depth To Water** | **Depth to DNAPL** | **Depth to Bottom** | **Depth of DNAPL** |
| RMW-1 | 4.50 | 18.00 | 26.60 | 8.60 |

| | | | | |
|---|---|---|---|---|
| RMW-2 | 6.10 | 20.40 | 23.80 | 3.40 |
| RMW-3 | 6.30 | 15.50 | 24.80 | 9.30 |
| MW-7 | 6.60 | 6.70 | 14.40 | 7.70 |
| MW-10 | 5.10 | 18.80 | 20.20 | 1.40 |
| MW-01S | Well no longer exists. | | | |
| MW-02S | 3.10 | None | 15.00 | None |
| MW-02D | 38.50 | None | 52.90 | None |
| MW-04S | 6.40 | None | 16.70 | None |
| MW-17D | 10.40 | None | 50.40 | None |
| MW-17S | 3.20 | None | 17.20 | None |
| MW-18D | 14.20 | None | 52.50 | None |
| MW-18S | 1.80 | None | 17.20 | None |
| MW-20S | | | | |
| MW-21 | 3.50 | None | 28.20 | None |
| SLURRY NORTH | Access | Blocked | | |
| SLURRY SOUTH | Access | Blocked | | |
| RMIMW-05S | Well no longer exists. | | | |

Note: Depths measured in feet from top of outer protective casing.

August 9, 2006

| Well Number | Depth To Water | Depth to DNAPL | Depth to Bottom | Depth of DNAPL |
|---|---|---|---|---|
| RMW-1 | 4.60 | 19.70 | 26.80 | 7.10 |
| RMW-2 | 5.70 | 21.40 | 23.90 | 2.50 |
| RMW-3 | 7.70 | 16.60 | 24.90 | 8.30 |
| MW-7 | NA | NA | NA | NA |
| MW-10 | 5.10 | 18.80 | 20.00 | 1.20 |
| MW-01S | Well no longer exists. | | | |
| MW-02S | 3.80 | None | 15.10 | None |
| MW-02D | 16.70 | None | 52.90 | None |
| MW-04S | 6.70 | None | 16.70 | None |
| MW-17D | 15.50 | None | 50.80 | None |
| MW-17S | 7.20 | None | 17.10 | None |
| MW-18D | 19.90 | None | 53.10 | None |
| MW-18S | 4.70 | None | 17.00 | None |
| MW-20S | | | | |
| MW-21 | 4.80 | None | 28.30 | None |
| SLURRY NORTH | Access | Blocked | | |
| SLURRY SOUTH | Access | Blocked | | |
| RMIMW-05S | Well no longer exists. | | | |

Note: Depths measured in feet from top of outer protective casing.

May 18, 2006

| Well Number | Depth To Water | Depth to DNAPL | Depth to Bottom | Depth of DNAPL |
|---|---|---|---|---|
| RMW-1 | 4.20 | 19.40 | 26.80 | 7.40 |
| RMW-2 | 5.30 | 21.00 | 23.80 | 2.80 |
| RMW-3 | 6.40 | 14.60 | 18.20 | 3.60 |
| MW-7 | NA | NA | NA | NA |
| MW-10 | 5.00 | None | 20.10 | None |
| MW-01S | Well no longer exists. | | | |
| MW-02S | 2.90 | None | 14.90 | None |
| MW-02D | 24.80 | None | 52.20 | None |
| MW-04S | 5.50 | None | 16.80 | None |
| MW-17D | 26.30 | None | 50.30 | None |
| MW-17S | 3.30 | None | 17.20 | None |
| MW-18D | 30.00 | None | 52.60 | None |
| MW-18S | 1.90 | None | 17.20 | None |
| MW-20S | | | | |
| MW-21 | 4.00 | None | 28.30 | None |
| SLURRY NORTH | 7.50 | None | 18.80 | None |
| SLURRY SOUTH | 9.00 | None | 22.40 | None |
| RMIMW-05S | Well no longer exists. | | | |

Note: Depths measured in feet from top of outer protective casing.

| March 16, 2006 | | | | | |
|---|---|---|---|---|---|
| Well Number | Depth To Water | Depth to DNAPL | Depth to Bottom | Depth of DNAPL | |
| RMW-1 | 3.90 | 19.90 | 26.80 | 6.90 | |
| RMW-2 | 5.10 | 21.70 | 23.80 | 2.10 | |
| RMW-3 | 5.00 | 15.80 | 18.20 | 2.40 | |
| MW-7 | 6.50 | 6.90 | 14.50 | 7.60 | |
| MW-10 | 5.30 | 19.00 | 21.10 | 2.10 | |
| MW-01S | Well no longer exists. | | | | |
| MW-02S | 3.00 | None | 15.00 | None | |
| MW-02D | 38.60 | None | 53.00 | None | |
| MW-04S | 6.90 | None | 16.60 | None | |
| MW-17D | 37.50 | None | 50.70 | None | |
| MW-17S | 3.40 | None | 17.20 | None | |
| MW-18D | 38.70 | None | 52.60 | None | |
| MW-18S | 2.00 | None | 17.20 | None | |
| MW-20S | | | | | |
| MW-21 | 3.40 | None | 28.20 | None | |
| SLURRY NORTH | 7.80 | None | 20.20 | None | 3/22/2006 |
| SLURRY SOUTH | 8.80 | None | 22.30 | None | 3/22/2006 |
| RMIMW-05S | Well no longer exists. | | | | |

Note: Depths measured in feet from top of outer protective casing.

| December 14, 2005 | | | | |
|---|---|---|---|---|
| Well Number | Depth To Water | Depth to DNAPL | Depth to Bottom | Depth of DNAPL |
| RMW-1 | 4.20 | 19.70 | 26.80 | 7.10 |
| RMW-2 | 5.40 | 21.80 | 23.90 | 2.10 |
| RMW-3 | 6.10 | 14.80 | 18.30 | 3.50 |
| MW-7 | 7.30 | 7.80 | 14.70 | 6.90 |
| MW-10 | 7.00 | 19.00 | 20.20 | 1.20 |
| MW-01S | Well no longer exists. | | | |
| MW-02S | 3.50 | None | 15.10 | None |
| MW-04S | 6.90 | None | 16.90 | None |
| MW-17D | 7.30 | None | 50.40 | None |
| MW-17S | 10.20 | None | 17.20 | None |
| MW-18D | 7.30 | None | 52.60 | None |
| MW-18S | 2.60 | None | 17.30 | None |
| MW-20S | | | | |
| MW-21 | 3.80 | None | 28.30 | None |
| RMIMW-05S | Well no longer exists. | | | |

Note: Depths measured in feet from top of outer protective casing.

| September 29, 2005 | | | | |
|---|---|---|---|---|
| Well Number | Depth To Water | Depth to DNAPL | Depth to Bottom | Depth of DNAPL |
| RMW-1 | 5.70 | 19.10 | 27.20 | 8.10 |
| RMW-2 | 6.10 | 21.50 | 24.40 | 2.90 |
| RMW-3 | 10.20 | 12.90 | 18.80 | 5.90 |
| MW-7 | 8.00 | 8.30 | 14.80 | 6.50 |
| MW-10 | 11.60 | 19.00 | 20.10 | 1.10 |
| MW-01S | Well no longer exists. | | | |
| MW-02S | 7.00 | None | 15.10 | None |
| MW-04S | 6.80 | None | 16.90 | None |
| MW-17D | 6.00 | None | 50.20 | None |
| MW-17S | 15.20 | None | 17.20 | None |
| MW-18D | 5.80 | None | 52.60 | None |
| MW-18S | 8.40 | None | 17.20 | None |
| MW-20S | | | | |
| MW-21 | 4.80 | None | 28.30 | None |
| RMIMW-05S | Well no longer exists. | | | |

Note: Depths measured in feet from top of outer protective casing.

| June 5, 2005 | |
|---|---|

| Well Number | Depth To Water | Depth to DNAPL | Depth to Bottom | Depth of DNAPL |
|---|---|---|---|---|
| RMW-1 | 5.20 | 19.80 | 23.80 | 4.00 |
| RMW-2 | 6.50 | 21.80 | 26.00 | 4.20 |
| RMW-3 | 8.80 | 13.80 | 17.80 | 4.00 |
| MW-01S | Well no longer exists. | | | |
| MW-02S | 6.10 | None | 15.05 | None |
| MW-04S | 7.30 | None | 17.10 | None |
| MW-17D | 3.80 | None | 50.40 | None |
| MW-17S | 7.50 | None | 17.30 | None |
| MW-18D | 3.60 | None | 52.60 | None |
| MW-18S | 5.10 | None | 17.30 | None |
| MW-20S | | | | |
| MW-21 | 5.80 | None | 28.30 | None |
| RMIMW-05S | Well no longer exists. | | | |

Note: Depths measured in feet from top of outer protective casing.

| March 31, 2005 | | | | |
|---|---|---|---|---|
| Well Number | Depth To Water | Depth to DNAPL | Depth to Bottom | Depth of DNAPL |
| RMW-1 | 5.20 | 21.70 | 23.80 | 2.10 |
| RMW-2 | 4.23 | 22.40 | 26.00 | 3.60 |
| RMW-3 | 6.06 | 16.50 | 17.80 | 1.30 |
| MW-01S | Well no longer exists. | | | |
| MW-02S | 2.79 | | 15.10 | None |
| MW-04S | 7.31 | | 16.20 | None |
| MW-17D | 3.32 | | 50.30 | None |
| MW-17S | 3.37 | | 16.70 | None |
| MW-18D | 4.12 | | 52.65 | None |
| MW-18S | 1.93 | | 17.20 | None |
| MW-20S | 8.90 | | 20.70 | None |
| MW-21 | 4.08 | | 28.20 | None |
| RMIMW-05S | Well no longer exists. | | | |

Note: Depths measured in feet from top of outer protective casing.

| September 1, 2004 | | |
|---|---|---|
| Well Number | Water Depth | DNAPL Depth |
| RMW-1 | 14.5 | 3.1 |
| RMW-2 | 8.0 | 12.2 |
| RMW-3 | 4.2 | 5.0 |

| June 7, 2004 | | |
|---|---|---|
| Well Number | Water Depth | DNAPL Depth |

| | | |
|---|---|---|
| RMW-1 | 14.9 | 3.1 |
| RMW-2 | 14.3 | 7.1 |
| RMW-3 | 6.3 | 4.6 |

Detrex
CHEMICALS DIVISION

February 13, 2009

Ms. Terese Van Donsel
United States Environmental Protection Agency
Office of Superfund, Region 5
SR-6J
77 West Jackson Blvd.
Chicago, IL 60604-3590

Certified Mail, Return Receipt: 7004 1160 0003 4669 0319

Subject: Monthly Status Report-January 2009
Fields Brook Superfund Site
Detrex Source Area-Ashtabula, Ohio

Dear Ms. Van Donsel,

Detrex is submitting the enclosed monthly status report for the month of January 2009, for the Detrex Source Area Project.

If you have any questions, please contact me at (440) 997-6131, ext. 201.

Sincerely,

Thomas W. Steib

Thomas W. Steib
Operations Manager

cc: T. Doll, D. Church, R. Currie, J. Vence, K. Buell, URS, R. Williams, L. Evison

FIELDS BROOK SUPERFUND SITE, OPERABLE UNIT #2
DETREX SOURCE AREA
MONTHLY TECHNICAL STATUS REPORT

Project Phase: Remedial Design and Remedial Action.

Prepared by: Tom Steib of Detrex Corporation.

Period: Month of January 2009.

1. Progress Made This Reporting Period:

| ACTIVITY | THIS PERIOD GALLONS | YEAR TO DATE GALLONS | TOTAL GALLONS |
|---|---|---|---|
| **Estimated DNAPL Recovered** | **-0- (Does not include volume in settling tank)** | **-0-** | **15,680** |
| **DNAPL Disposed** | **-0-** | **-0-** | **13,980** |

A. There were -0- gallons of DNAPL pumped from the inside settling tank to the outside settling tank during January 2009.
B. Vacuum is at 20 inches.
C. Wells 1, 2, 4, 5, 6, 9, 10, 11, and 12 are being pumped on a regular basis.
D. Well 3, 7, and 8 are not pumpable and will be repaired.
E. Wells 13 and 14 do not pump.
F. All pumpable wells have to be flushed with water frequently to get the sediment out of the well insert to be able to pump.
G. Generating excessive amount of silt with the northern wells showing more silt than the east wells. Some of this silt causes difficulty in phase separation. Some of the silt settles to the bottom, while some silt gets caught in the rag layer between the DNAPL and the water, making the phase separation more difficult.
H. See attached report dated December 8, 2006, describing results of trenching along North Sewer in late 2006.

2. Work Planned During the Next 90 Days.

A. Continue re-developing the wells due to excessive silt build up.
B. All wells that are not pumpable will be attempted to be brought back on line.
C. Continue winterization.

**URS**

December 8, 2006

North Sewer Investigation
December 2006

Ms. Terese VanDonsel
United States Environmental Protection Agency
Office of Superfund, Region 5
SR-6J
77 West Jackson
Chicago, IL 60604-3590

Subject: Interim Response Action Work Scope
Detrex Source Control Area – Fields Brook Superfund Site
Detrex Corporation, Ashtabula, Ohio
Docket No. V-W-98-C-450

Dear Ms. VanDonsel:

On behalf of Detrex Corporation (Detrex), URS Corporation (URS) is providing this Interim Response Action (IRA) Work Scope to address the sheen that has been periodically observed in Fields Brook at the location of the former North Sewer discharge area. This letter also provides a summary of observations made during excavation of test trenches along the North Sewer alignment and discussion of proposed actions that Detrex will implement to address the sheen in this area.

## Interim Response Action Work Scope

On Wednesday, December 6, 2006 Detrex, URS and personnel from U.S. EPA met on site to observe the excavation of the North Sewer test trenches and installation of the groundwater interceptor trench. On Tuesday, December 5, 2006, U.S. EPA observed a sheen emanating from beneath riprap located adjacent to the former North Sewer outfall. This former outfall has been plugged. During the day on Wednesday, December 6, 2006 a sheen was occasionally observed at this location. The sheen was not observed on a continuous basis. In response to this issue, and the request from the U.S. EPA, the following Interim Actions will be implemented.

## Placement of Absorbent Boom

An oil absorbent boom was positioned on the north side of Fields Brook along the stream bank in the vicinity of the former North Sewer outfall where the sheen was observed. Approximately, 50 feet of boom material was secured to the State Road bridge and stream bank on Wednesday evening, December 6, 2006. It will be replaced on an as needed basis.

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Cleveland, OH 44115-1808
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Fax: 216.622.2428

## *Limited Excavation of Sediment in Fields Brook*

Based on the results of excavating seven (7) test trenches along State Road, there is no field evidence to indicate that DNAPL is migrating beneath the abandoned sewer pipe. One of the test trenches (TP-5) excavated adjacent to the former North Sewer bulkhead in the floodplain indicated the presence of organic vapors and a sheen was observed on the water that entered the excavation. The location of the various test trenches is provided as **Figure 1**. Based on these results (described in later section), the area of impacted soil/sediment is located in the floodplain adjacent to former outfall of the North Sewer.

In order to address the source of the sheen, Detrex has agreed to perform a limited excavation of the sediment in this area. The following IRA work scope is proposed:

- Prior to excavation, Detrex will identify all utilities and secure a permit from Ashtabula County to work adjacent to the State Road bridge. The abandoned water line will be removed and East Ohio gas will be notified of work near the existing gas line.
- An access agreement is in place with Lyondell Chemical, and further notification will be made.
- A temporary coffer dam consisting of either steel barricades with a synthetic liner or synthetic fabridams will be placed adjacent to the area to contain surface water and control disturbed sediment during excavation.
- The excavation will be dewatered and any water collected will be transported to the Detrex facility for treatment. If DNAPL is encountered it will be placed in drums and transported to the Detrex facility for disposal.
- The area to be excavated will be restricted to the area immediately adjacent to the North Sewer bulkhead structure. An area approximately 15 feet x 10 feet will be considered for removal. The depth of excavation will not exceed 3 feet. Field observations will be used to define actual limits of excavation.
- The volume of excavated material will be limited to 40 cubic yards or two roll off containers.
- Excavation of the sediment will likely involve a small trackhoe along with hand excavation beneath the gas line.
- Workers will use the existing HASP that has been prepared for the North Sewer Investigation.

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- Upon completion of the prescribed excavation area, the excavation will be backfilled with clay and compacted. Any disturbed riprap in the area will be restored to original conditions.
- Upon completion of excavation, the excavated material stored in roll of boxes will be sampled and characterized to identify proper disposal options.
- A letter report will be prepared to describe field activities.

## Preliminary Results of North Sewer Investigation

In accordance with the Work Plan that was submitted to U.S. EPA on July 26, 2006 and approved on October 25, 2006, field work was performed on December 5 and 6, 2006. **Figure 1** provides locations of the seven test trenches that were excavated and sampled. The following observations were made during this work:

- Test Trench 1:
  - North Sewer not encountered due to location of active gas line and depth. Test trench depth was approximately 10 feet. No elevated PID readings. No DNAPL.
- Test Trench 2:
  - North Sewer encountered. Test trench depth was approximately 10 feet. No elevated PID readings. No DNAPL. Water seepage noted along clay backfill near former North Sewer. No sheen on water.
- Test Trench 3:
  - North Sewer encountered. Test trench depth was approximately 10 feet. No elevated PID readings. No DNAPL. Water seepage along clay backfill near former North Sewer. No sheen on water.
- Test Trench 4:
  - North Sewer encountered. Test trench depth was approximately 10 feet. No elevated PID readings. No DNAPL. Water seepage along clay backfill near North Sewer. No sheen on water.
- Test Trench 5:
  - Based of bulkhead encountered. Test trench depth was approximately 10 feet. Elevated PID readings at depth of 6-8 feet below ground beneath fill (1,300 ppmv). Water seepage and sheen on water near base of bulkhead, sheen dissipated over time.

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- Test Trench 6:
  - North Sewer encountered. Test trench depth was approximately 6 feet. No elevated PID readings. No DNAPL. Water seepage along clay backfill near North Sewer. No sheen on water.
- Two (2) soil samples were collected from each excavation at highest PID and beneath the sewer pipe.

Based on these field observations, the North Sewer alignment area did not show presence of elevated PID readings in soil or DNAPL in the subsurface soils. As a result, the North Sewer does not represent a complete pathway for DNAPL migration to Fields Brook and EU-6.

During the excavation of these trenches, a representative of de maximis, Stan Baker, witnessed the excavation and results. Also, a request was made of Stan to furnish cut lines from the 2002 sediment remediation of the area to show what specific area was excavated.

## Additional Subsurface Investigation

During a conversation with U.S. EPA on December 7, 2006, a request was made to Detrex to further investigate the North Sewer area. In particular, the area between State Road and the east side of the North Sewer, which could not be excavated due to the presence of utilities. In response to this request, Detrex will drill approximately 8-10 geoprobe locations along the alignment. Sampling procedures will be in accordance with the current RD/RA Work Plan. Two (2) locations will be installed as temporary groundwater monitoring wells. Utilities will be located prior to sampling. Figure 2 provides locations of the proposed geoprobe sampling location.

## Schedule

At this time, Detrex anticipates the limited excavation work and additional geoprobe work will be conducted before December 22, 2006. Currently we are coordinating with Sun Pro to define work scope and plans for dewatering. As soon as all utility companies and Ashtabula County are notified and permit conditions are identified for working in the highway right-of-way, we will advise you of actual timing.

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**URS**



If you have any questions regarding this submittal, please do not hesitate to contact me at your convenience.

Sincerely,

**URS Corporation - Ohio**

Martin L. Schmidt, Ph.D.
Vice President
Enclosure

cc: R. Currie – Detrex Corporation
T. Steib – Detrex Corporation
T. Doll - Detrex Corporation
T. Johnson – USEPA, Las Vegas
R. Williams – Ohio EPA
D. Gray – URS
F. Coll – URS

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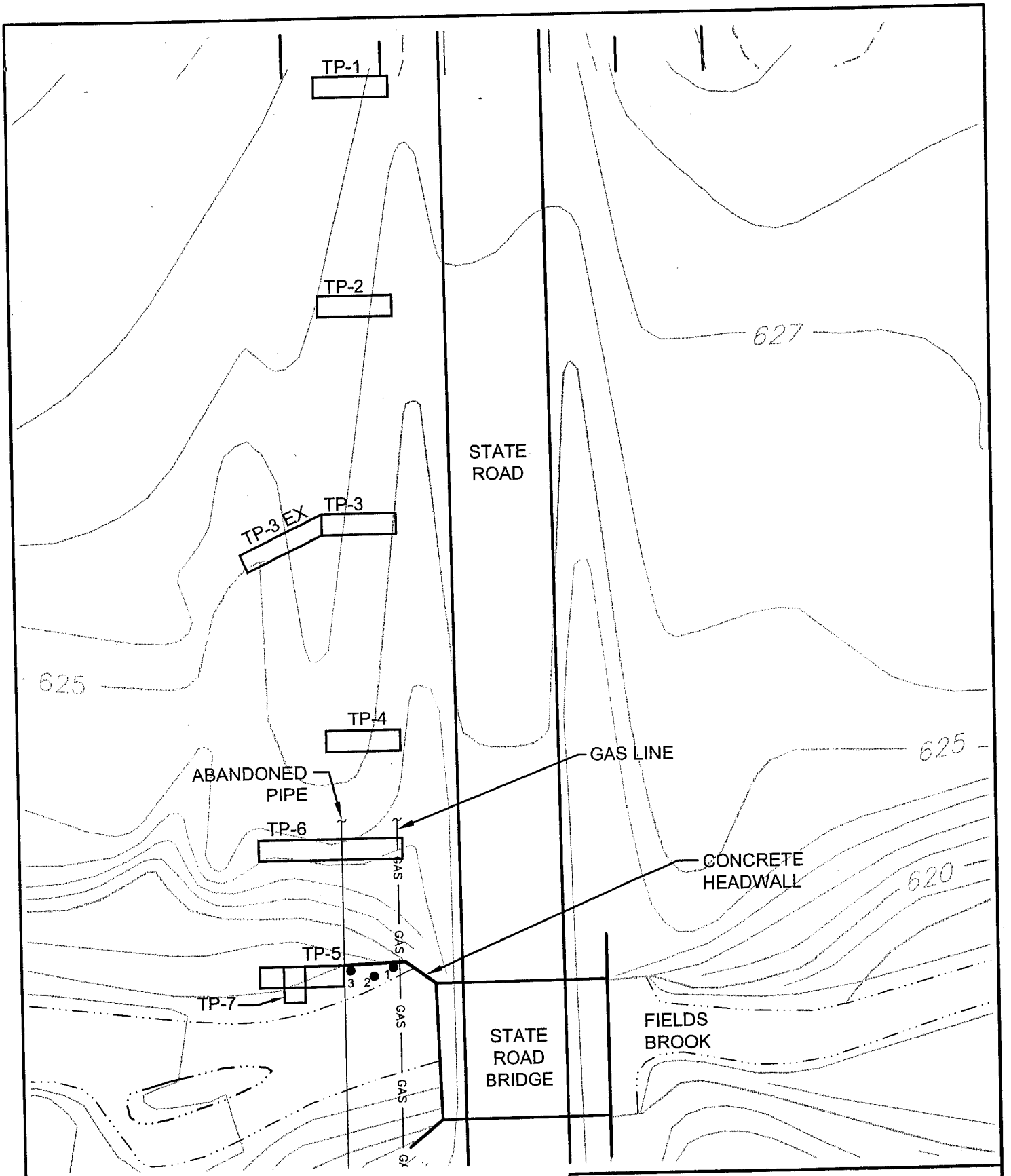


LEGEND

| | |
|---|---|
| ● | SAMPLE POINT SS1 |
| TP-3 | TEST PIT # |

0 30
SCALE 1" = 30'

N

DETREX CORPORATION

**FIGURE 1**
**TEST PIT LOCATION MAP**

URS

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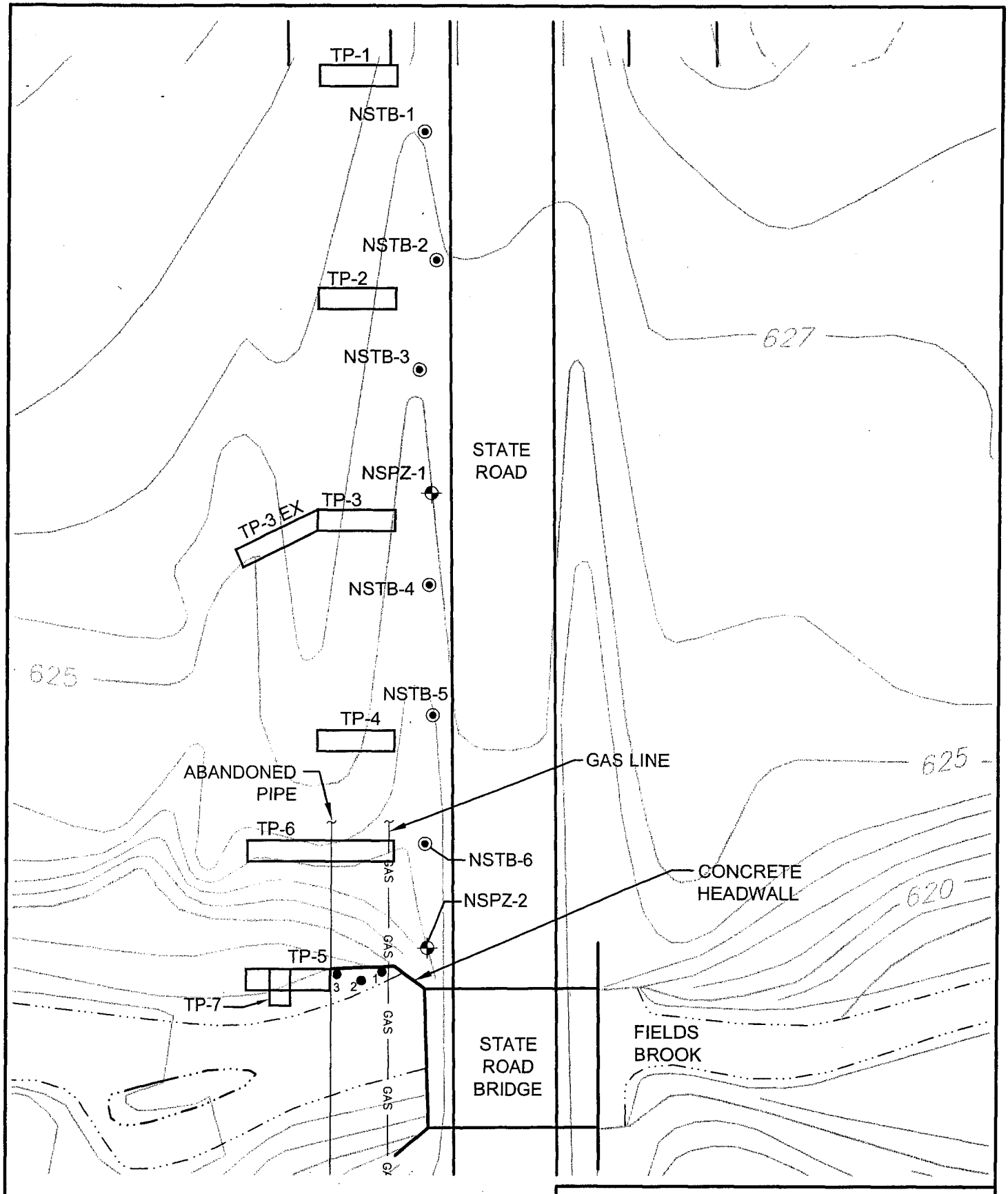


LEGEND

- ● SAMPLE POINT SS1
- TP-3 TEST PIT #
- PROPOSED PIEZOMETER
- PROPOSED BORING

0 30
SCALE 1" = 30'

N

# DETREX CORPORATION

**FIGURE 2**
**PROPOSED DPT LOCATIONS**

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