

TABLE 2
Summary of Perimeter Soil Gas Sampling
Former Tidewater Facility
Pawtucket, Rhode Island

Table with 23 columns for sampling locations (SG-1005 to SG-1100) and 10 rows of chemical data (Acetone, Benzene, Benzyl chloride, etc.) including concentrations in various units (µg/m³, mg/m³) and comparison to 2008 CT DEEP criteria.

Notes:
NE - Not Established
CTDEEP residential and industrial/commercial criteria is obtained from the 2008 Connecticut Remediation Criteria: Technical Support Document Appendix J published by the CTDEEP.
CTDEEP Criteria is presented in the 2008 Connecticut Remediation Criteria: Technical Support Document Appendix J - Table J6 and J8 in parts per million (ppmv) with adjustments presented for analytical capabilities and maximum values.

TABLE 4
Summary of QA/QC Sampling
 Former Tidewater Facility
 Pawtucket, Rhode Island

| | 2008 CT DEEP | | Units | SG-1005 | Duplicate #1 | SG-113D | Duplicate #2 | SG-118S | Duplicate #3 |
|---|----------------------|--------------------------------|-------------------|-------------------------------|-------------------------------|------------------------------|------------------------------|-------------------------------|-------------------------------|
| | Residential Criteria | Industrial/Commercial Criteria | | 13H0055-04 Soil Gas 7/29/2013 | 13H0055-05 Soil Gas 7/29/2013 | 13H0164-16 Soil Gas 8/1/2013 | 13H0164-03 Soil Gas 8/1/2013 | 13H0996-03 Soil Gas 8/23/2013 | 13H0996-04 Soil Gas 8/23/2013 |
| EPA TO-3C | | | | | | | | | |
| Helium | NE | NE | % | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 |
| EPA TO-15 Full List | | | | | | | | | |
| Acetone | 378,030 | 500,000 | µg/m ³ | 42 | 7.8 | 13 | 18 | 26 | 25 |
| Benzene | 2,456 | 4,501 | µg/m ³ | <0.16 | <0.16 | 0.29 | 0.32 | 1.5 | 1.5 |
| Benzyl chloride | NE | NE | µg/m ³ | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 |
| Bromodichloromethane | 1,340 | 1,340 | µg/m ³ | 0.37 | 0.36 | <0.17 | <0.17 | <0.17 | <0.17 |
| Bromoform | NE | NE | µg/m ³ | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 |
| Bromomethane | 780 | 6,930 | µg/m ³ | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 |
| 1,3-Butadiene | NE | NE | µg/m ³ | 0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 |
| 2-Butanone (MEK) | 377,771 | 500,000 | µg/m ³ | 6.7 | <5.9 | <5.9 | <5.9 | <5.9 | <5.9 |
| Carbon Disulfide | NE | NE | µg/m ³ | <1.6 | <1.6 | 2.4 | 2.1 | 3.3 | 3.2 |
| Carbon Tetrachloride | 1,300 | 1,300 | µg/m ³ | 0.54 | 0.52 | 2.2 | 2.1 | <0.16 | 0.32 |
| Chlorobenzene | 30,254 | 282,730 | µg/m ³ | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 |
| Chloroethane | 378,671 | 500,000 | µg/m ³ | <0.13 | <0.13 | <0.066 | <0.066 | <0.13 | <0.13 |
| Chloroform | 1,513 | 13,864 | µg/m ³ | 63 | 63 | 1.2 | 0.94 | 0.68 | 0.71 |
| Chloromethane | 3,926 | 37,362 | µg/m ³ | 0.33 | 0.21 | 0.52 | 0.63 | 0.22 | <0.21 |
| Cyclohexane | 378,242 | 500,000 | µg/m ³ | <0.17 | <0.17 | 0.34 | <0.17 | <0.17 | <0.17 |
| Dibromochloromethane | NE | NE | µg/m ³ | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 |
| 1,2-Dibromoethane (EDB) | NE | NE | µg/m ³ | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 | <0.19 |
| 1,2-Dichlorobenzene | 60,527 | 500,000 | µg/m ³ | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| 1,3-Dichlorobenzene | 1,515 | 13,865 | µg/m ³ | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| 1,4-Dichlorobenzene | 18,156 | 33,277 | µg/m ³ | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Dichlorodifluoromethane (Freon 12) | 75,770 | 500,000 | µg/m ³ | 1.9 | 1.7 | 1.4 | 1.4 | 1.8 | 1.8 |
| 1,1-Dichloroethane | 15,147 | 141,568 | µg/m ³ | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,2-Dichloroethane | 800 | 800 | µg/m ³ | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,1-Dichloroethylene | 7,560 | 70,654 | µg/m ³ | <0.099 | <0.099 | <0.099 | <0.099 | <0.099 | <0.099 |
| cis-1,2-Dichloroethylene | 15,119 | 141,301 | µg/m ³ | <0.099 | <0.099 | <0.099 | <0.099 | <0.099 | <0.099 |
| trans-1,2-Dichloroethylene | 15,119 | 141,305 | µg/m ³ | <0.099 | <0.099 | <0.099 | <0.099 | <0.099 | <0.099 |
| 1,2-Dichloropropane | 900 | 1,109 | µg/m ³ | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 |
| cis-1,3-Dichloropropene | 900 | 2,774 | µg/m ³ | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 |
| trans-1,3-Dichloropropene | 900 | 2,774 | µg/m ³ | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 | <0.11 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114) | NE | NE | µg/m ³ | <0.35 | <0.35 | <0.35 | <0.35 | <0.35 | <0.35 |
| 1,4-Dioxane | NE | NE | µg/m ³ | <1.8 | <1.8 | <1.8 | <1.8 | <1.8 | <1.8 |
| Ethanol | NE | NE | µg/m ³ | 5.5 | <3.8 | <3.8 | 9 | <3.8 | <3.8 |
| Ethyl Acetate | 377,762 | 500,000 | µg/m ³ | 1.1 | 1.2 | 1.5 | 1.8 | 21 | 20 |
| Ethylbenzene | 43,882 | 410,364 | µg/m ³ | <0.22 | <0.22 | 0.5 | 0.42 | 1.5 | 1.5 |
| 4-Ethyltoluene | NE | NE | µg/m ³ | <0.25 | <0.25 | 0.28 | <0.25 | 0.65 | 0.68 |
| Heptane | NE | NE | µg/m ³ | 0.26 | <0.20 | <0.20 | 0.36 | <0.20 | <0.20 |
| Hexachlorobutadiene | NE | NE | µg/m ³ | <0.53 | <0.53 | <0.53 | <0.53 | <0.53 | <0.53 |
| Hexane | 302,386 | 500,000 | µg/m ³ | <7.0 | <7.0 | <7.0 | 7.3 | <7.0 | <7.0 |
| 2-Hexanone (MBK) | NE | NE | µg/m ³ | 2.3 | <0.20 | 0.46 | <0.20 | 0.61 | 0.66 |
| Indane | NE | NE | µg/m ³ | <0.62 | <0.62 | <0.62 | <0.62 | 0.65 | 0.63 |
| Indene | NE | NE | µg/m ³ | <0.63 | <0.63 | <0.63 | <0.63 | 1.4 | 1.3 |
| Isopropanol | NE | NE | µg/m ³ | <4.9 | <4.9 | <4.9 | <4.9 | <4.9 | <4.9 |
| Isopropylbenzene (Cumene) | 29,545 | 54,140 | µg/m ³ | <0.62 | <0.62 | <0.62 | <0.62 | <0.62 | <0.62 |
| Methyl tert-Butyl Ether (MTBE) | 129,581 | 263,819 | µg/m ³ | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 |
| Methylene Chloride | 2,269 | 23,554 | µg/m ³ | <1.7 | <1.7 | 2.2 | 2.9 | 2.6 | <1.7 |
| 4-Methyl-2-pentanone (MIBK) | 378,459 | 500,000 | µg/m ³ | 1 | <0.20 | 0.27 | <0.20 | <0.20 | <0.20 |
| Naphthalene | 1,284 | 12,203 | µg/m ³ | 0.33 | <0.26 | 1.4 | 0.62 | 12 | 12 |
| Propene | NE | NE | µg/m ³ | 4.1 | <3.4 | <3.4 | <3.4 | <3.4 | <3.4 |
| Styrene | 45,420 | 425,838 | µg/m ³ | <0.21 | <0.21 | 1.4 | 1 | 0.98 | 0.98 |
| 1,1,2,2-Tetrachloroethane | 1,400 | 1,386 | µg/m ³ | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 |
| Tetrachloroethylene | 3,783 | 6,936 | µg/m ³ | 64 | 62 | 7.5 | 6 | 17 | 16 |
| Tetrahydrofuran | 605 | 5,814 | µg/m ³ | 0.25 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 |
| Toluene | 130,246 | 500,000 | µg/m ³ | <0.19 | <0.19 | 1 | 0.98 | 10 | 9.9 |
| 1,2,4-Trichlorobenzene | 1,135 | 11,093 | µg/m ³ | <0.37 | <0.37 | <0.37 | <0.37 | <0.37 | <0.37 |
| 1,1,1-Trichloroethane | 115,135 | 500,000 | µg/m ³ | 3.4 | 3.4 | 1 | 0.92 | <0.14 | <0.14 |
| 1,1,2-Trichloroethane | 1,100 | 1,100 | µg/m ³ | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 |
| Trichloroethylene | 1,100 | 1,385 | µg/m ³ | 25 | 24 | 0.47 | <0.13 | <0.13 | <0.13 |
| Trichlorofluoromethane (Freon 11) | 378,591 | 500,000 | µg/m ³ | 3.2 | 1.6 | 1.5 | 1.5 | 3.5 | 3.4 |
| 1,1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 378,304 | 500,000 | µg/m ³ | 5 | 0.77 | 0.92 | 0.74 | 0.72 | 0.72 |
| 1,2,4-Trimethylbenzene | 2,578 | 23,601 | µg/m ³ | <0.25 | <0.25 | 0.87 | 0.7 | 2.6 | 2.6 |
| 1,3,5-Trimethylbenzene | 2,578 | 23,601 | µg/m ³ | <0.25 | <0.25 | 0.28 | <0.25 | 0.65 | 0.65 |
| Vinyl Acetate | 86,247 | 500,000 | µg/m ³ | <3.5 | <3.5 | <3.5 | <3.5 | <3.5 | <3.5 |
| Vinyl Chloride | 500 | 1,249 | µg/m ³ | <0.064 | <0.064 | <0.064 | <0.064 | <0.064 | <0.064 |
| m&p-Xylene | 44,967 | 421,609 | µg/m ³ | <0.43 | <0.43 | 0.68 | 0.61 | 2.9 | 2.8 |
| o-Xylene | 44,967 | 421,609 | µg/m ³ | <0.22 | <0.22 | 0.35 | 0.3 | 1.3 | 1.2 |

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