

Accredited Environmental Technologies, Inc.

CLIENT: MARATHON DESIGN & CONSTRUCTION, LLC
LOCATION: 1002 - 1052 FRANKFORD AVENUE, PHILADELPHIA, PA
AET PROJECT #: 12-05-Q553
SITE ACTIVITY: PRELIMINARY SOIL SAMPLING ASSESSMENT **DATE:** 1/09/06

| <u>SOIL SAMPLE RESULTS</u> | | | | |
|---|--------------------|--------------------------|---|---|
| <u>VOLATILE ORGANIC COMPOUNDS (VOCs), SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) AND RCRA METALS</u> | | | | |
| Sample # | Parameter Detected | Soil Sample Result (ppm) | Direct Soil Contact PA DEP - MSCs Residential 0 - 15' (ppm) | Soil to Groundwater PA DEP - MSCs TDS ≤ 2,500 Residential (ppm) |
| Q553-1 | Isopropyl Benzene | 7.12 | 7,300 | 780 |
| | Acenaphthene | 1.1 (J) | 13,000 | 2,700 |
| | Fluorene | 1.55 (J) | 8,800 | 3,000 |
| | Phenanthrene | 2.17 (J) | 66,000 | 10,000 |
| | Arsenic | 8.39 | 12 | 5,000 |
| | Barium | 37.2 | 15,000 | 8,200 |
| | Chromium | 10.7 | 94 | 190 |
| | Lead | 70.1 | 500 | 450 |
| | Mercury | 0.412 | 66 | 10 |

*Samples were analyzed by QC Laboratories located in Southampton, PA
 (J) - concentration detected below the laboratory reporting limit.

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| <u>SOIL SAMPLE RESULTS</u> | | | | |
|---|--------------------|--------------------------|---|---|
| <u>VOLATILE ORGANIC COMPOUNDS (VOCs), SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) AND RCRA METALS</u> | | | | |
| Sample # | Parameter Detected | Soil Sample Result (ppm) | Direct Soil Contact PA DEP - MSCs Residential 0 - 15' (ppm) | Soil to Groundwater PA DEP - MSCs TDS ≤ 2,500 Residential (ppm) |
| Q553-2 | Benzene | 0.256 (J) | 41 | 0.5 |
| | Toluene | 0.571 (J) | 7,600 | 100 |
| | Ethyl Benzene | 0.468 (J) | 10,000 | 70 |
| | Xylenes (Total) | 1.041 (J) | 8,000 | 1,000 |
| | Arsenic | 15.2 | 12 | 150 |
| | Barium | 37.5 | 15,000 | 8,200 |
| | Cadmium | 51.7 | 47 | 38 |
| | Chromium | 11.3 | 94 | 190 |
| | Lead | 3,060 | 500 | 450 |
| | Mercury | 2.34 | 66 | 10 |

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| <u>SOIL SAMPLE RESULTS</u> | | | | |
|--|-------------------------|--------------------------|---|---|
| <u>SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) AND RCRA METALS</u> | | | | |
| Sample # | Parameter Detected | Soil Sample Result (ppm) | Direct Soil Contact PA DEP - MSCs Residential 0 - 15' (ppm) | Soil to Groundwater PA DEP - MSCs TDS ≤ 2,500 Residential (ppm) |
| Q553-3 | Acenaphthene | 1.62 (J) | 13,000 | 2,700 |
| | Fluorene | 1.69 (J) | 8,800 | 3,000 |
| | Phenanthrene | 10 | 66,000 | 10,000 |
| | Anthracene | 2.55 (J) | 66,000 | 350 |
| | Fluoranthene | 11.0 | 8,800 | 3,200 |
| | Pyrene | 10.9 | 6,600 | 2,200 |
| | Butylbenzylphthalate | 2.80 (J) | 10,000 | 10,000 |
| | Benzo (A) Anthracene | 5.05 | 25 | 79 |
| | Chrysene | 4.89 | 2,500 | 230 |
| | Benzo (B) Fluoranthene | 4.78 | 25 | 120 |
| | Benzo (K) Fluoranthene | 4.71 | 250 | 610 |
| | Benzo (A) Pyrene | 4.80 | 2.5 | 46 |
| | Ideno (1,2,3-CD) Pyrene | 1.74 (J) | 25 | 7,000 |
| | Benzo (G,H,I) Perylene | 1.66 (J) | 13,000 | 180 |
| | Arsenic | 5.9 | 12 | 150 |
| | Barium | 214 | 15,000 | 8,200 |
| | Cadmium | 0.625 | 47 | 38 |
| | Chromium | 22.5 | 94 | 190 |
| | Lead | 291 | 500 | 450 |
| Mercury | 0.702 | 66 | 10 | |

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| <u>SOIL SAMPLE RESULTS</u> | | | | |
|--|------------------------|--------------------------|---|---|
| <u>SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) AND RCRA METALS</u> | | | | |
| Sample # | Parameter Detected | Soil Sample Result (ppm) | Direct Soil Contact PA DEP - MSCs Residential 0 - 15' (ppm) | Soil to Groundwater PA DEP - MSCs TDS ≤ 2,500 Residential (ppm) |
| Q553-4 | Phenanthrene | 69.2 | 66,000 | 10,000 |
| | Fluoranthene | 100 | 8,800 | 3,200 |
| | Pyrene | 93 | 6,600 | 2,200 |
| | Benzo (A) Anthracene | 50.4 (J) | 25 | 79 |
| | Chrysene | 49.7 (J) | 2,500 | 230 |
| | Benzo (B) Fluoranthene | 45.4 (J) | 25 | 120 |
| | Benzo (K) Fluoranthene | 39.4 (J) | 250 | 610 |
| | Benzo (A) Pyrene | 44.3 (J) | 2.5 | 46 |
| | Benzo (G,H,I) Perylene | 18.9 (J) | 13,000 | 180 |
| | Arsenic | 7.35 | 12 | 150 |
| | Barium | 258 | 15,000 | 8,200 |
| | Cadmium | 0.507 | 47 | 38 |
| | Chromium | 22.1 | 94 | 190 |
| | Lead | 678 | 500 | 450 |
| | Mercury | 0.183 | 66 | 10 |

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| <u>VOLATILE ORGANIC COMPOUNDS (VOCs), SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) AND RCRA METALS</u> | | | | |
| Sample # | Parameter Detected | Soil Sample Result (ppm) | Direct Soil Contact PA DEP - MSCs Residential 0 - 15' (ppm) | Soil to Groundwater PA DEP - MSCs TDS ≤ 2,500 Residential (ppm) |
| Q553-5 | Acetone | 0.0681 | 10,000 | 370 |
| | Carbon Disulfide | 0.00885 | 10,000 | 190 |
| | Benzene | 0.00064 (J) | 41 | 0.5 |
| | Toluene | 0.00245 (J) | 7600 | 100 |
| | Ethyl Benzene | 0.00321 (J) | 10,000 | 70 |
| | Xylenes (Total) | 0.00699 | 8,000 | 1,000 |
| | Isopropylbenzene | 0.119 | 7,300 | 780 |
| | Naphthalene | 0.798 (J) | 4,400 | 25 |
| | 2-Methylnaphthalene | 3.33 | 4,400 | 2,900 |
| | Acenaphthene | 5.68 | 13,000 | 2,700 |
| | Fluorene | 6.45 | 8,800 | 3,000 |
| | Phenanthrene | 11.1 | 66,000 | 10,000 |
| | Anthracene | 3.12 (J) | 66,000 | 350 |
| | Fluoranthene | 1.27 (J) | 8,800 | 3,200 |
| | Pyrene | 3.27 | 6,600 | 2,200 |
| | Arsenic | 6.47 | 12 | 150 |
| | Barium | 71.0 | 15,000 | 8,200 |
| | Chromium | 27.0 | 94 | 190 |
| | Lead | 246 | 500 | 450 |
| Mercury | 2.99 | 66 | 10 | |

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| Sample # | Parameter Detected | Soil Sample Result (ppm) | Direct Soil Contact PA DEP - MSCs Residential 0 - 15' (ppm) | Soil to Groundwater PA DEP - MSCs TDS ≤ 2,500 Residential (ppm) |
| Q553-6 | Isopropylbenzene | 2.07 (J) | 7,300 | 780 |
| | Acenaphthene | 5.14 | 13,000 | 2,700 |
| | Fluorene | 7.0 | 8,800 | 3,000 |
| | Phenanthrene | 9.61 | 66,000 | 10,000 |
| | Anthracene | 2.66 (J) | 66,000 | 350 |
| | Pyrene | 1.85 (J) | 6,600 | 2,200 |
| | Arsenic | 11.4 | 12 | 150 |
| | Barium | 152 | 15,000 | 8,200 |
| | Chromium | 24.3 | 94 | 190 |
| | Lead | 374 | 500 | 450 |
| | Mercury | 0.612 | 66 | 10 |

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| <u>VOLATILE ORGANIC COMPOUNDS (VOCs), SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) AND RCRA METALS</u> | | | | |
| Sample # | Parameter Detected | Soil Sample Result (ppm) | Direct Soil Contact PA DEP - MSCs Residential 0 - 15' (ppm) | Soil to Groundwater PA DEP - MSCs TDS ≤ 2,500 Residential (ppm) |
| Q553-7 | Fluorene | 0.316 (J) | 8,800 | 3,000 |
| | Phenanthrene | 0.346 (J) | 66,000 | 10,000 |
| | Arsenic | 14.3 | 12 | 150 |
| | Barium | 208 | 15,000 | 8,200 |
| | Cadmium | 0.590 | 47 | 38 |
| | Chromium | 80.2 | 94 | 190 |
| | Lead | 433 | 500 | 450 |
| | Mercury | 0.590 | 66 | 10 |

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| <u>SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) AND RCRA METALS</u> | | | | |
| Sample # | Parameter Detected | Soil Sample Result (ppm) | Direct Soil Contact PA DEP - MSCs Residential 0 - 15' (ppm) | Soil to Groundwater PA DEP - MSCs TDS ≤ 2,500 Residential (ppm) |
| Q553-8 | Fluoranthene | 0.379 (J) | 8,800 | 3,200 |
| | Benzo (A) Anthracene | 0.605 (J) | 25 | 79 |
| | Chrysene | 0.483 (J) | 2,500 | 230 |
| | Benzo (B) Fluoranthene | 0.461 (J) | 25 | 120 |
| | Benzo (K) Fluoranthene | 0.649 (J) | 250 | 610 |
| | Benzo (A) Pyrene | 0.783 (J) | 2.5 | 46 |
| | Indeno(1,2,3-CD)Pyrene | 0.325 (J) | 25 | 7,000 |
| | Benzo (G,H,I) Perylene | 0.311 (J) | 13,000 | 180 |
| | Arsenic | 8.04 | 12 | 150 |
| | Barium | 93.5 | 15,000 | 8,200 |
| | Chromium | 30.6 | 94 | 190 |
| | Lead | 116 | 500 | 450 |
| | Mercury | 9.86 | 66 | 10 |

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| <u>SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) AND RCRA METALS</u> | | | | |
| Sample # | Parameter Detected | Soil Sample Result (ppm) | Direct Soil Contact PA DEP - MSCs Residential 0 - 15' (ppm) | Soil to Groundwater PA DEP - MSCs TDS \leq 2,500 Residential (ppm) |
| Q553-9 | Arsenic | 4.23 | 12 | 150 |
| | Barium | 26.1 | 15,000 | 8,200 |
| | Chromium | 14.6 | 94 | 190 |
| | Lead | 8.53 | 500 | 450 |

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| Sample # | Parameter Detected | Soil Sample Result (ppm) | Direct Soil Contact PA DEP - MSCs Residential 0 - 15' (ppm) | Soil to Groundwater PA DEP - MSCs TDS ≤ 2,500 Residential (ppm) |
| Q553-10 | Naphthalene | 1.42 (J) | 4,400 | 25 |
| | Acenaphthene | 3.06 (J) | 13,000 | 2,700 |
| | Fluorene | 2.61 (J) | 8,800 | 3,000 |
| | Phenanthrene | 28.1 | 66,000 | 10,000 |
| | Anthracene | 28.3 | 66,000 | 350 |
| | Carbazole | 3.63 | 900 | 21 |
| | Fluoranthene | 24.7 | 8,800 | 3,200 |
| | Pyrene | 24.2 | 6,600 | 2,200 |
| | Benzo (A) Anthracene | 13.3 | 25 | 79 |
| | Chrysene | 11.8 | 2,500 | 230 |
| | Benzo (B) Fluoranthene | 8.81 | 25 | 120 |
| | Benzo (K) Fluoranthene | 10.8 | 250 | 610 |
| | Benzo (A) Pyrene | 9.98 | 2.5 | 46 |
| | Ideno (1,2,3-CD) Pyrene | 3.15 (J) | 25 | 7,000 |
| | Benzo (G,H,I) Perylene | 2.67 (J) | 13,000 | 180 |
| | Silver | 11.0 | 1,100 | 84 |
| | Arsenic | 18.7 | 12 | 150 |
| | Barium | 65.5 | 15,000 | 8,200 |
| | Cadmium | 6.55 | 47 | 38 |
| | Chromium | 14.3 | 94 | 190 |
| Lead | 3060 | 500 | 450 | |
| Mercury | 0.618 | 66 | 10 | |

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| Sample # | Parameter Detected | Soil Sample Result (ppm) | Direct Soil Contact PA DEP - MSCs Residential 0 - 15' (ppm) | Soil to Groundwater PA DEP - MSCs TDS \leq 2,500 Residential (ppm) |
| Q553-11 | Arsenic | 4.01 | 12 | 150 |
| | Barium | 21.4 | 15,000 | 8,200 |
| | Chromium | 9.58 | 94 | 190 |
| | Lead | 6.20 | 500 | 450 |

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| Sample # | Parameter Detected | Soil Sample Result (ppm) | Direct Soil Contact PA DEP - MSCs Residential 0 - 15' (ppm) | Soil to Groundwater PA DEP - MSCs TDS ≤ 2,500 Residential (ppm) |
| Q553-12 | Phenanthrene | 0.903 | 66,000 | 10,000 |
| | Fluoranthene | 1.50 | 8,800 | 3,200 |
| | Pyrene | 1.36 | 6,600 | 2,200 |
| | Benzo (A) Anthracene | 0.935 | 25 | 79 |
| | Chrysene | 0.928 | 2,500 | 230 |
| | Benzo (B) Fluoranthene | 0.915 | 25 | 120 |
| | Benzo (K) Fluoranthene | 0.803 (J) | 250 | 610 |
| | Benzo (A) Pyrene | 1.09 | 2.5 | 46 |
| | Ideno (1,2,3-CD) Pyrene | 0.651 (J) | 25 | 7,000 |
| | Benzo (G,H,I) Perylene | 0.673 (J) | 13,000 | 180 |
| | Arsenic | 7.57 | 12 | 150 |
| | Barium | 102 | 15,000 | 8,200 |
| | Cadmium | 0.513 | 47 | 38 |
| | Chromium | 16.4 | 94 | 190 |
| | Lead | 333 | 500 | 450 |
| Mercury | 0.678 | 66 | 10 | |

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