



Memorandum

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John DeBack, DAIM-ODB

From: John Sperry
Tom Holmes

Date: 29 December 2010

Re: **October 2010 Long-term Monitoring
Main Installation - Defense Depot Memphis, Tennessee
FA8903-08-D-8771-0069**

HDR has prepared this report to present the results of the October 2010 Long-term Monitoring (LTM) for the Main Installation (MI) at Defense Depot Memphis, Tennessee (DDMT). This work was performed under Contract FA8903-08-D-8771, Task Order 0069 to the Air Force Center for Engineering and the Environment.

Remedial action objectives for groundwater on the MI include restoration of groundwater quality to levels at or less than maximum contaminant levels (MCLs) and prevention of off-site migration (horizontally or vertically) of groundwater contaminants in excess of MCLs. The selected groundwater remedy for the MI was enhanced bioremediation, land use controls and LTM. Enhanced bioremediation treatment (EBT) was conducted in the most contaminated parts of the plume and untreated parts of the plume were allowed to degrade under natural attenuation processes. EBT was completed in February 2009; LTM will continue until MCLs are met.

LTM is being performed in accordance with the LTM plan in Appendix B of *Main Installation Final Remedial Design, Rev. 1* (CH2MHILL, 2004). Recommendations for changes to LTM wells and sample frequency were made in the *Annual Long-Term Monitoring Report-2009, Main Installation Rev.0* (HDR, 2010a) and were approved by United States Environmental Protection Agency and Tennessee Department of Environment and Conservation.

Additional deep monitoring wells were recommended in the *Main Installation Interim Remedial Action Completion Report* (HDR, 2010b) to support groundwater modeling results, which indicated the identified groundwater plumes in the Fluvial aquifer on the MI would not significantly impact groundwater quality in the deeper Memphis aquifer (MAQ). Three intermediate aquifer (IAQ) wells (MW-252, MW-253 and MW-256) and two MAQ wells (MW-254 and MW-255) were installed from June to August 2010. Well installation and groundwater sample results were described in two memoranda, *Deep Well Installation-Intermediate Aquifer* (HDR, 2010c) and *Deep Well Installation-Memphis Aquifer* (HDR, 2010d). The hydrogeologic data supported the conceptual model of a connection between the fluvial and deeper aquifers and indicated the IAQ and MAQ wells were appropriately located to serve as sentinel wells for vertical migration of contaminants.

Including the new deep wells, there are 110 wells used for MI LTM: 7 background wells, 7 boundary wells, 72 performance wells and 24 sentinel wells. The new, deep wells will be sampled in four quarterly events, after which a sample frequency will be selected in accordance with the LTM plan. The remaining wells have the following sample frequency: biennial (13 wells), annual (33 wells) and semiannual (59 wells). The current well classification, sample frequency, and 2010 sampling events for all LTM wells are shown on [Table 1](#).

FIELD ACTIVITIES

The field activities consisted of water level measurements in all LTM wells and biennial sampling of designated LTM wells (107 wells). The three new IAQ wells were sampled at the same time under a separate task order and are reported separately; the water level measurements and analytical results are included in the report figures for completeness. Activities were performed in accordance with the *Work Plan for Deep Wells and 2010 Long Term Monitoring* (HDR, 2010e) and the *Remedial Action Sampling and Analysis Plan* (MACTEC, 2005). The LTM well locations are shown on [Figure 1](#).

Water Level Measurements

Groundwater levels were measured on 4 October 2010. Measurements were made using Solinst Model 101 water level meters with electronic sensors and tapes graduated in 0.01-foot increments. Water levels were not collected at one well; MW-213 was dry. The water level measurements are shown on [Table 2](#).

Groundwater Sampling

HDR collected groundwater samples from 106 of the 107 designated monitoring wells on 4 October to 15 October 2010. MW-213 was dry and a sample could not be collected. There were 108 samples collected from the 106 wells; samples were collected from two screened intervals in both MW-101 and MW-107.

Groundwater samples were collected from 102 wells using low-flow purging methods. Dedicated Teflon® bladders and Teflon®-lined polyethylene tubing were used for each well. The pumping rate at each well was set such that the water levels would not decline more than 1.2 inches (0.1 foot). Two monitoring wells (MW-62 and MW-212) and two piezometers (PZ-3 and PZ-6) were sampled with a Teflon® bailer. Pumps could not be used in these wells due to the slow recharge, small diameter of casing and/or thin saturated layer.

Water quality parameters were measured at 5 to 10 minute intervals during purging using a flow-through cell with a YSI 6550. Wells MW-62 and MW-212 and piezometers PZ-3 and PZ-6, which were sampled with a bailer, had stabilization parameters collected using the same instrumentation; a sampling cup was filled from the bailer and a set of stabilization parameters were collected for every well volume. The YSI 6550 was calibrated each morning prior to sampling and, if abnormal readings were observed during the day, the instruments were recalibrated in the field. All measurements were recorded on the field sampling forms.

Purging continued at each well for up to two hours in order to meet the stabilization criteria: three successive readings within 0.1 for pH, 10 millivolts for oxygen reduction potential, 5 percent for specific conductance, 10 percent for dissolved oxygen and <20 nephelometric turbidity units for turbidity. Temperature was also measured and recorded but was not used as a stabilization parameter. Samples were collected when stabilization criteria were met or the field team leader approved the variance from the

criteria. The final stabilization measurements are shown on [Table 3](#). The following samples were collected without meeting the stabilization criteria:

- Samples were collected from MW-62 and MW-212 with turbidity values of 170 and 196 NTUs, respectively. Both wells were purged and sampled with bailers after three well volumes had been drawn from the well.
- Samples were collected from PZ-03 and PZ-06 with turbidity values of 1436 and 5603 NTUs, respectively. Both piezometers were bailed dry and sampled with bailers later in the day after water levels had recovered.
- Samples were collected from MW-19, MW-99, MW-103, and MW-255 with turbidity ranging from 22.0 to 45.1 NTUs. The wells were sampled after 2 hrs of purging.
- Well DR2-2 was purged dry and sampled the next day. The turbidity prior to sampling was 32.2 NTUs.

Samples were sent to Microbac Laboratories in Marietta, Ohio for laboratory analysis. The samples were analyzed for volatile organic compounds (VOCs) by method 8260B.

IDW Management

The waste generated during groundwater sampling in October 2010 was classified as either non-investigative waste or investigative derived waste (IDW). Non-investigative waste, such as packaging materials, personal protective equipment, disposable sampling supplies, and other inert refuse, was collected, containerized, and transported to a designated collection bin for disposal at a municipal landfill.

The groundwater from purging was collected in five gallon buckets with lids and added to the fluvial SVE condensate waste water fractionation tank. When the storage tank nears capacity, a waste water sample will be collected and a discharge request submitted to the City of Memphis.

SUMMARY OF FINDINGS

Water Level Measurements

Groundwater elevations are shown on [Figure 2](#) for all LTM wells, with contours for the fluvial aquifer and the IAQ within the window. Groundwater elevations for IAQ and MAQ wells are also shown on [Figure 3](#) with more extensive contours.

The groundwater elevation contour map ([Figure 2](#)) is similar to previous groundwater maps. Groundwater flow near TTA-1 is to the east and northeast, with an approximate gradient of 0.003 (DR1-5A to MW-197B). The groundwater flow near TTA-2 is to the west-southwest, with an approximate gradient of 0.02 (DR2-1 to MW-26). The gradient in the 'window' is to the northwest, with an approximate gradient of 0.029 (MW-90 to MW-140).

Analytical Results

The complete analytical results for the 108 groundwater samples collected in October 2010 are presented in [Appendix A](#). [Table 4](#) lists the analytical results for the primary chlorinated volatile organic compounds (CVOCs) [carbon tetrachloride (CT), chloroform (CF), cis-1,2-dichloroethene (cDCE), tetrachloroethene (PCE), trans-1,2-dichloroethene, trichloroethene (TCE) and vinyl chloride (VC)] and for all other VOCs detected above the reporting limit (RL) in one or more samples. A summary of analytical results for the

primary CVOCs is provided on [Table 5](#). Data quality evaluation of the analytical results will be presented in the 2010 annual LTM report.

A total of 15 VOCs were detected above RLs in the October 2010 samples. The numbers of wells listed below includes only those with concentrations above the RL.

The analytical results for the primary CVOCs are summarized below:

- CT was reported in 20 wells with a maximum concentration of 121 micrograms per liter (µg/L) in MW-85. The MCL (5 µg/L) was exceeded in 11 wells.
- CF was reported in 35 wells with a maximum concentration of 41.1 µg/L in PMW-92-06. The MCL (80 µg/L for total trihalomethanes) was not exceeded.
- cDCE was reported in 35 wells with a maximum concentration of 119 µg/L in MW-92. The MCL (70 µg/L) was exceeded in three wells.
- PCE was reported in 75 wells with a maximum concentration of 239 µg/L in DR1-6. The MCL (5 µg/L) was exceeded in 60 wells.
- TCE was reported in 75 wells with a maximum concentration of 149 µg/L in DR1-6A. The MCL (5 µg/L) was exceeded in 45 wells.
- VC was reported in 5 wells with a maximum concentration of 132 µg/L in MW100B.

The analytical results for other contaminants are summarized as follows:

- 1,1,2,2-Tetrachloroethane was reported in three wells with a maximum concentration of 1.52 µg/L in MW-204B.
- 1,1-Dichloroethane was reported in three wells with a maximum concentration of 2.68 µg/L in MW-103.
- 1,1-Dichloroethene was reported in two wells with a maximum concentration of 1.98 µg/L in MW-103.
- 1,2 Dichloroethane was reported in six wells with a maximum of 0.671 µg/L in MW-21.
- 1,2,3-Trichloropropane was reported in five wells with a maximum concentration of 105 µg/L in PMW92-06.
- Acetone was detected in PZ-03 at a concentration of 10.6 µg/L.
- Carbon disulfide was detected in MW-229 at 1.09 µg/L.
- Chloromethane was detected in MW-100B at 1.04 µg/L.
- Methyl t-butyl ether was reported in five wells with a maximum concentration of 60.1 µg/L in MW-100B.

CONCLUSIONS

Isoconcentration maps were created for PCE ([Figure 4](#)) and TCE ([Figure 5](#)). The isopleths, indicating plume extent, were based on reported PCE or TCE concentrations in adjacent wells with limited consideration of groundwater gradient. Concentrations in adjacent wells were generally assumed to have the same source even with distances of a few hundred feet between the wells. In particular, the PCE and TCE isopleths for TTA-2 in the southeast MI indicate the plume has migrated west-northwest when the groundwater gradient is west-southwest. This interpretation is considered reasonable based on the reported concentrations and the limited groundwater elevation measurements in the eastern half of the MI, except in the immediate area of TTA-2. Additional wells to improve groundwater gradient data are not warranted based on the low concentrations and the trend in concentrations.

The isopleths and concentrations at individual wells are generally similar to those from recent LTM sampling events. Well MW-100B, located in the central portion of the TTA-1 southern EBT area, contained VC at 132 µg/L, which is similar to the concentration reported in April 2010. The four other wells with VC above the RL (MW-197B, MW-203B, MW-205A and MW-205B) had concentrations of 1.2 to 5.11 µg/L. A detailed review of the trends in analytical results for the primary CVOCs, including Mann-Kendall analysis and trend plots for all wells with CVOCs above the MCL, will be presented in the 2010 annual LTM report.

The extent of the PCE plume in the IAQ, based on the 5 µg/L isopleth in [Figure 4](#), was extended to the northwest property boundary based on the concentration of 9.44 µg/L in IAQ well MW-256. The PCE concentrations in nearby MAQ wells MW-254 and MW-255 were below the RL of 1 µg/L. The PCE concentrations in the new IAQ and MAQ wells were similar to the initial sample results and are consistent with the groundwater modeling, which indicated the potential for low CVOC concentrations in the IAQ and MAQ at the MI. The results do not indicate significant impact to the MAQ.

The next LTM events are quarterly sampling of the new IAQ and MAQ wells in December 2010 and semiannual sampling of designated LTM wells in April 2011.

TABLES

- 1 LTM Sample Schedule
- 2 Water Level Measurements
- 3 Final Well Stabilization Measurements
- 4 Analytical Results Summary
- 5 Primary CVOC Results

TABLE 1
LTM SAMPLE SCHEDULE
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

Well ID	Well Type	Current Sample Frequency	Semiannual Apr-2010	Biennial Oct-2010
MW-16	Background	Biennial	-	X
MW-19	Background	Biennial	-	X
MW-21	Performance	Semiannual	X	X
MW-22	Boundary	Biennial	-	X
MW-23	Boundary	Biennial	-	X
MW-24	Boundary	Biennial	-	X
MW-25A	Performance	Annual	-	X
MW-26	Performance	Semiannual	X	X
MW-34	Sentinel	Annual	-	X
MW-38	Sentinel	Annual	-	X
MW-39	Performance	Semiannual	X	X
MW-39A	Performance	Semiannual	X	X
MW-50	Boundary	Biennial	-	X
MW-52	Performance	Annual	-	X
MW-53	Background	Biennial	-	X
MW-55	Background	Biennial	-	X
MW-62	Performance	Semiannual	X	X
MW-63A	Sentinel	Annual	-	X
MW-63B	Sentinel	Annual	-	X
MW-64	Performance	Semiannual	X	X
MW-66A	Background	Biennial	-	X
MW-85	Performance	Semiannual	X	X
MW-88	Performance	Semiannual	X	X
MW-89	Sentinel	Annual	-	X
MW-90	Sentinel	Semiannual	X	X
MW-92	Performance	Semiannual	X	X
MW-93	Boundary	Biennial	-	X
MW-94A	Performance	Semiannual	X	X
MW-96	Performance	Annual	-	X
MW-97	Performance	Semiannual	X	X
MW-98	Performance	Semiannual	X	X
MW-99	Background	Biennial	-	X
MW-100B	Performance	Semiannual	X	X
MW-101 ¹	Performance	Semiannual	X	X
MW-102B	Boundary	Biennial	-	X
MW-103	Performance	Annual	-	X
MW-104	Performance	Annual	-	X
MW-107 ¹	Sentinel	Annual	-	X
MW-108	Sentinel	Semiannual	X	X
MW-113	Performance	Semiannual	X	X
MW-140	Sentinel	Annual	-	X
MW-141	Sentinel	Semiannual	X	X
MW-142	Performance	Annual	-	X

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Well ID	Well Type	Current Sample Frequency	Semiannual Apr-2010	Biennial Oct-2010
MW-143	Background	Biennial	-	X
MW-197A	Performance	Semiannual	X	X
MW-197B	Performance	Semiannual	X	X
MW-198	Performance	Annual	-	X
MW-199A	Sentinel	Annual	-	X
MW-199B	Performance	Semiannual	X	X
MW-200	Performance	Semiannual	X	X
MW-202A	Sentinel	Annual	-	X
MW-202B	Sentinel	Semiannual	X	X
MW-203A	Performance	Semiannual	X	X
MW-203B	Performance	Semiannual	X	X
MW-204A	Performance	Semiannual	X	X
MW-204B	Performance	Semiannual	X	X
MW-205A	Performance	Semiannual	X	X
MW-205B	Performance	Semiannual	X	X
MW-206A	Performance	Semiannual	X	X
MW-206B	Performance	Semiannual	X	X
MW-207A	Sentinel	Semiannual	X	X
MW-207B	Sentinel	Semiannual	X	X
MW-208A	Performance	Semiannual	X	X
MW-208B	Performance	Semiannual	X	X
MW-209A	Sentinel	Annual	-	X
MW-209B	Performance	Semiannual	X	X
MW-210A	Sentinel	Semiannual	X	X
MW-210B	Performance	Semiannual	X	X
MW-211	Sentinel	Annual	-	X
MW-212	Performance	Semiannual	X	X
MW-213	Performance	Semiannual	NS	NS
MW-214A	Performance	Annual	-	X
MW-214B	Performance	Annual	-	X
MW-215A	Performance	Annual	-	X
MW-215B	Performance	Annual	-	X
MW-216	Performance	Annual	-	X
MW-217	Performance	Semiannual	X	X
MW-218	Performance	Semiannual	X	X
MW-219	Boundary	Semiannual	X	X
MW-229	Sentinel	Annual	-	X
MW-252	Sentinel	Quarterly	-	I
MW-253	Sentinel	Quarterly	-	I
MW-254	Sentinel	Quarterly	-	X
MW-255	Sentinel	Quarterly	-	X
MW-256	Sentinel	Quarterly	-	I
PMW21-03	Performance	Semiannual	X	X

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Well ID	Well Type	Current Sample Frequency	Semiannual Apr-2010	Biennial Oct-2010
PMW21-05	Performance	Semiannual	X	X
PMW92-03	Performance	Semiannual	X	X
PMW92-06	Performance	Semiannual	X	X
PMW101-04A	Performance	Semiannual	X	X
PMW101-04B	Performance	Semiannual	X	X
PZ-03	Performance	Annual	-	X
PZ-06	Performance	Annual	-	X
DR1-1	Performance	Annual	-	X
DR1-1A	Performance	Annual	-	X
DR1-2	Performance	Annual	-	X
DR1-3	Performance	Semiannual	X	X
DR1-4	Performance	Annual	-	X
DR1-5	Performance	Semiannual	X	X
DR1-5A	Performance	Semiannual	X	X
DR1-6	Performance	Semiannual	X	X
DR1-6A	Performance	Semiannual	X	X
DR1-7	Performance	Annual	-	X
DR1-8	Performance	Annual	-	X
DR2-1	Performance	Semiannual	X	X
DR2-2	Performance	Semiannual	X	X
DR2-3	Performance	Semiannual	X	X
DR2-4	Performance	Annual	-	X
DR2-5	Performance	Semiannual	X	X
DR2-6	Performance	Semiannual	X	X

Notes:

- 1) Samples collected from two screened intervals in MW-101 and MW-108
- X Sample Collected
- NS Sample planned but not collected
- P Sample planned
- I IAQ well sampled under separate task order
- Sample not planned or collected

TABLE 2
WATER LEVEL MEASUREMENTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

Well ID	Aquifer	Top of Casing	Top of Screen	Depth to	Groundwater
		Elevation (ft, msl)	Elevation (ft, msl)	Water (ft, btoc) 4-Oct-10	Elevation (ft, msl)
MW-16	Fluvial	299.86	242.26	56.18	243.68
MW-19	Fluvial	290.57	207.47	84.51	206.06
MW-21	Fluvial	295.00	202.90	90.36	204.64
MW-22	Fluvial	298.04	202.64	93.14	204.90
MW-23	Fluvial	298.99	197.79	95.45	203.54
MW-24	Fluvial	299.51	202.21	101.77	197.74
MW-25A	Fluvial	269.88	196.88	68.75	201.13
MW-26	Fluvial	303.69	206.09	97.05	206.64
MW-34	Intermediate	299.97	163.37	134.12	165.85
MW-38	Intermediate	307.45	167.55	127.69	179.76
MW-39	Fluvial	296.28	200.78	99.91	196.37
MW-39A	Fluvial	298.45	150.53	100.27	198.18
MW-50	Fluvial	298.82	183.82	83.63	215.19
MW-52	Fluvial	279.26	185.26	76.57	202.69
MW-53	Fluvial	306.38	233.88	72.37	234.01
MW-55	Fluvial	292.08	228.08	70.29	221.79
MW-62	Fluvial	293.65	207.65	92.50	201.15
MW-63A	Fluvial/Intermediate	305.96	165.96	100.49	205.47
MW-63B	Fluvial/Intermediate	305.78	190.78	100.26	205.52
MW-64	Fluvial	304.21	202.21	104.66	199.55
MW-66A	Fluvial	284.22	209.60	76.30	207.92
MW-85	Fluvial	304.13	208.23	96.40	207.73
MW-88	Fluvial	305.15	223.15	77.88	227.27
MW-89	Intermediate	303.98	156.98	112.05	191.93
MW-90	Intermediate	304.19	189.19	112.51	191.68
MW-92	Fluvial	304.41	211.41	93.51	210.90
MW-93	Fluvial	294.08	202.08	79.30	214.78
MW-94A	Fluvial	303.00	193.38	105.31	197.69
MW-96	Fluvial	289.02	213.52	79.86	209.16
MW-97	Fluvial	297.44	199.94	95.65	201.79
MW-98	Fluvial	294.43	157.43	95.79	198.64
MW-99	Fluvial	285.33	193.83	84.41	200.92
MW-100B	Fluvial	291.06	183.56	87.75	203.31
MW-101T	Fluvial	291.70	202.70	88.16	203.54
MW-102B	Fluvial	311.40	190.90	105.82	205.58
MW-103	Fluvial	301.35	231.35	68.35	233.00
MW-104	Fluvial	295.76	225.26	58.07	237.69
MW-107	Fluvial/Intermediate	304.92	176.92	105.16	199.76
MW-108	Fluvial/Intermediate	303.07	143.07	105.61	197.46
MW-113	Fluvial	304.81	208.81	94.77	210.04
MW-140	Intermediate	298.12	73.52	139.75	158.37

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Well ID	Aquifer	Top of Casing	Top of Screen	Depth to	Groundwater
		Elevation (ft, msl)	Elevation (ft, msl)	Water (ft, btoc) 4-Oct-10	Elevation (ft, msl)
MW-141	Intermediate	303.71	155.01	109.94	193.77
MW-142	Fluvial	291.18	206.18	90.76	200.42
MW-143	Fluvial	290.56	212.06	88.92	201.64
MW-197A	Fluvial	291.26	129.30	92.16	199.10
MW-197B	Fluvial	291.03	196.88	92.10	198.93
MW-198	Fluvial	291.50	201.47	92.76	198.74
MW-199A	Intermediate	301.53	155.45	106.79	194.74
MW-199B	Fluvial	301.73	197.12	103.59	198.14
MW-200	Fluvial	300.18	196.98	102.46	197.72
MW-202A	Intermediate	299.23	122.73	121.37	177.86
MW-202B	Intermediate	299.51	180.42	120.41	179.10
MW-203A	Fluvial	290.59	147.65	90.66	199.93
MW-203B	Fluvial	290.51	197.68	90.57	199.94
MW-204A	Fluvial	292.21	158.95	93.25	198.96
MW-204B	Fluvial	292.32	197.83	93.26	199.06
MW-205A	Fluvial	291.93	150.96	93.61	198.32
MW-205B	Fluvial	291.82	194.82	93.37	198.45
MW-206A	Fluvial	299.92	172.58	102.30	197.62
MW-206B	Fluvial	299.90	203.18	102.25	197.65
MW-207A	Fluvial	303.78	154.13	106.29	197.49
MW-207B	Fluvial	303.83	195.58	106.16	197.67
MW-208A	Fluvial	301.50	118.05	104.21	197.29
MW-208B	Fluvial	301.79	195.13	104.22	197.57
MW-209A	Fluvial	298.05	109.07	102.60	195.45
MW-209B	Fluvial	298.49	196.17	100.38	198.11
MW-210A	Intermediate	289.66	112.60	97.88	191.78
MW-210B	Fluvial	289.29	192.33	90.43	198.86
MW-211	Intermediate	303.74	137.48	106.92	196.82
MW-212	Fluvial	295.34	209.69	96.41	198.93
MW-213	Fluvial	293.83	216.92	DRY	--
MW-214A	Fluvial	303.61	184.53	100.47	203.14
MW-214B	Fluvial	303.70	202.13	100.01	203.69
MW-215A	Fluvial	304.50	175.75	106.70	197.80
MW-215B	Fluvial	304.56	199.15	106.81	197.75
MW-216	Fluvial	297.34	197.41	95.39	201.95
MW-217	Fluvial	304.18	202.39	104.78	199.40
MW-218	Fluvial	305.60	206.69	101.08	204.52
MW-219	Fluvial	294.90	197.16	89.75	205.15
MW-229	Intermediate	311.77	123.34	152.65	159.12
MW-252	Intermediate	294.16	168.36	134.28	159.88
MW-253	Intermediate	290.47	172.47	109.21	181.26

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Well ID	Aquifer	Top of Casing	Top of Screen	Depth to	Groundwater
		Elevation	Elevation	Water	Elevation
		(ft, msl)	(ft, msl)	4-Oct-10	(ft, msl)
MW-254	Memphis	292.84	7.24	136.01	156.83
MW-255	Memphis	291.84	7.34	134.42	157.42
MW-256	Intermediate	292.68	166.68	133.29	159.39
PMW21-03	Fluvial	292.11	201.80	88.51	203.60
PMW21-05	Fluvial	288.53	194.28	86.61	201.92
PMW92-03	Fluvial	303.91	211.42	92.21	211.70
PMW92-06	Fluvial	304.65	213.02	93.22	211.43
PMW101-04A	Fluvial	291.07	173.13	88.25	202.82
PMW101-04B	Fluvial	291.75	192.91	88.80	202.95
DR1-1	Fluvial	293.09	171.42	89.57	203.52
DR1-1A	Fluvial	293.13	203.79	89.48	203.65
DR1-2	Fluvial	290.08	192.28	87.69	202.39
DR1-3	Fluvial	290.93	181.26	89.58	201.35
DR1-4	Fluvial	292.78	186.50	89.74	203.04
DR1-5	Fluvial	294.50	169.28	90.71	203.79
DR1-5A	Fluvial	294.61	204.88	90.79	203.82
DR1-6	Fluvial	292.98	177.14	89.41	203.57
DR1-6A	Fluvial	293.14	202.32	89.49	203.65
DR1-7	Fluvial	289.15	180.86	88.12	201.03
DR1-8	Fluvial	290.02	197.37	86.91	203.11
DR2-1	Fluvial	304.90	231.00	86.26	218.64
DR2-2	Fluvial	304.37	225.37	80.65	223.72
DR2-3	Fluvial	303.44	210.44	95.07	208.37
DR2-4	Fluvial	303.47	215.47	92.41	211.06
DR2-5	Fluvial	305.44	220.44	94.10	211.34
DR2-6	Fluvial	304.70	210.10	98.85	205.85
PZ-03	Fluvial	298.51	189.61	100.46	198.05
PZ-06	Fluvial	302.74	213.34	74.01	228.73

Notes:

ft, msl: feet above mean sea level
ft, btoc: feet below top of casing
-: Not measured

TABLE 3
FINAL WELL STABILIZATION MEASUREMENTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

Well ID	Sample Date	Method	Time Sampled	Sample Pump Depth (ft, btoc)	Water Depth (ft, btoc)	Purge Rate (mL/min)	Volume Purged (Liters)	pH	Temp (°C)	Specific Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTUs)
MW-16	10/13/2010	low flow	14:15	65.1	55.36	150	3.3	6.1	22.1	0.294	6.89	-22.5	5.5
MW-19	10/11/2010	low flow	12:55	88.1	84.00	80	10.8	7.0	22.7	0.246	9.20	-108.1	33.7
MW-21	10/6/2010	low flow	10:25	92.2	90.04	100	3.1	6.0	19.2	0.274	6.09	192.3	1.8
MW-22	10/12/2010	low flow	9:40	100.4	92.85	80	7.5	6.3	19.5	0.498	3.89	8.7	14.4
MW-23	10/12/2010	low flow	12:16	106.2	95.14	80	3.4	6.4	22.4	0.512	2.08	-2.3	14.0
MW-24	10/14/2010	low flow	9:39	102.3	101.85	350	11.8	5.9	19.0	0.284	8.40	206.2	18.0
MW-25A	10/7/2010	low flow	10:27	79.0	68.74	310	6.0	5.9	18.0	0.386	6.09	228.3	1.3
MW-26	10/7/2010	low flow	9:27	104.1	96.97	300	5.3	5.9	20.0	0.297	6.94	213.6	3.3
MW-34	10/6/2010	low flow	13:49	148.9	134	140	4.0	5.4	20.5	0.242	3.96	-109.9	3.4
MW-38	10/9/2010	low flow	13:22	147.0	127.27	160	6.3	6.0	22.0	0.314	1.20	-242.3	1.6
MW-39	10/9/2010	low flow	9:45	110.1	99.61	190	5.9	6.0	20.4	0.416	0.94	-253.4	9.5
MW-39A	10/9/2010	low flow	10:32	161.6	99.94	350	12.7	6.0	19.6	0.414	1.40	-232.6	5.3
MW-50	10/13/2010	low flow	12:26	120.0	83.69	300	7.8	5.9	20.4	0.655	6.59	184.9	14.9
MW-52	10/7/2010	low flow	11:07	97.4	76.55	300	5.0	5.9	19.2	1.022	4.78	214.0	4.9
MW-53	10/13/2010	low flow	10:37	77.5	72.32	290	12.9	6.0	20.4	0.424	4.36	196.2	4.4
MW-55	10/11/2010	low flow	10:20	69.0	69.87	200	8.4	5.9	21.0	0.202	8.90	4.5	16.6
MW-62	10/15/2010	bailed	10:34	na	92.53	na	7.6	6.2	18.3	0.114	9.71	147.1	170.0
MW-63A	10/7/2010	low flow	13:15	136.1	100.2	100	4.0	5.8	22.9	0.537	3.11	-187.5	0.7
MW-63B	10/7/2010	low flow	13:57	120.8	99.95	170	4.0	5.6	21.7	0.799	3.34	-181.6	1.2
MW-64	10/7/2010	low flow	8:37	110.4	104.45	350	6.9	6.0	19.9	0.302	5.92	212.6	2.9
MW-66A	10/12/2010	low flow	12:45	84.5	76.34	100	3.5	6.0	22.8	0.340	1.34	30.1	18.0
MW-85	10/14/2010	low flow	12:51	105.1	96.41	60	3.3	5.6	22.4	0.260	5.28	122.2	5.3
MW-88	8/4/2010	low flow	15:57	87.0	77.75	80	3.3	5.9	22.4	0.340	6.91	-16.2	1.7
MW-89	10/8/2010	low flow	14:51	164.3	111.56	320	7.5	5.7	20.1	0.287	5.21	-175.8	9.7
MW-90	10/8/2010	low flow	14:19	130.6	112	340	6.8	5.8	20.2	0.705	4.18	181.0	5.6
MW-92	10/9/2010	low flow	15:44	102.1	93.41	68	3.2	6.4	25.8	0.521	0.67	-131.4	3.0
MW-93	10/14/2010	low flow	8:35	103.0	97.37	80	3.4	5.7	16.3	0.277	8.20	97.9	17.2
MW-94A	10/11/2010	low flow	8:14	117.5	104.67	180	6.0	5.8	20.3	0.418	1.40	-20.1	7.6
MW-96	10/7/2010	low flow	12:04	89.2	79.72	270	9.2	6.0	20.0	0.297	6.71	189.1	1.8
MW-97	10/9/2010	low flow	15:35	109.2	95.2	200	5.2	5.7	21.3	0.140	9.10	219.5	18.7
MW-98	10/9/2010	low flow	11:36	142.6	95.51	330	17.0	5.9	20.6	0.357	4.05	-142.3	19.4
MW-99	10/12/2010	low flow	16:27	102.0	83.78	50	5.6	6.1	21.7	0.322	1.10	8.5	45.1
MW-100B	10/6/2010	low flow	8:15	118.5	87.43	100	3.2	6.7	19.8	1.020	1.20	-137.0	5.5
MW-101T	10/13/2010	low flow	10:55	98.5	87.99	50	3.5	5.9	21.3	0.453	10.47	48.0	3.3
MW-101B	10/13/2010	low flow	9:45	127.6	87.99	40	3.0	5.9	22.1	0.460	8.50	42.4	2.8
MW-102B	10/11/2010	low flow	15:30	131.0	109.38	100	5.2	6.2	25.5	0.532	5.99	-115.8	19.9
MW-103	10/7/2010	low flow	11:10	80.0	67.99	120	5.2	5.7	22.9	0.964	1.42	-203.1	28.5
MW-104	10/7/2010	low flow	12:15	77.2	57.68	90	3.4	5.7	21.2	0.812	1.32	-222.3	7.5
MW-107T	10/13/2010	low flow	8:30	136.0	104.85	280	8.0	5.9	18.3	0.233	6.82	197.8	1.8
MW-107B	10/13/2010	low flow	9:07	153.0	104.91	350	10.7	5.9	18.6	0.232	6.89	211.7	16.6
MW-108	10/12/2010	low flow	12:20	167.9	105.12	350	7.4	5.7	19.1	0.567	3.60	192.8	14.1

TABLE 3
FINAL WELL STABILIZATION MEASUREMENTS
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Main Installation - Defense Depot Memphis, Tennessee

Well ID	Sample Date	Method	Time Sampled	Sample Pump Depth (ft, btoc)	Water Depth (ft, btoc)	Purge Rate (mL/min)	Volume Purged (Liters)	pH	Temp (°C)	Specific Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTUs)
MW-113	10/14/2010	low flow	12:34	103.2	94.98	175	4.7	5.7	23.1	0.184	1.61	202.7	1.5
MW-140	10/13/2010	low flow	13:53	238.5	139.05	200	8.3	5.8	20.2	0.235	6.50	163.4	0.7
MW-141	10/8/2010	low flow	13:45	161.0	109.58	330	7.3	5.8	20.3	0.619	1.66	-217.0	3.3
MW-142	10/9/2010	low flow	11:09	96.9	90.3	100	3.1	5.9	21.5	0.241	10.43	224.9	1.0
MW-143	10/12/2010	low flow	11:00	86.0	87.53	100	4.6	6.0	20.6	0.258	3.20	29.7	10.3
MW-197A	10/11/2010	low flow	8:47	170.4	91.65	340	6.2	6.1	18.4	0.357	4.57	196.5	12.1
MW-197B	10/11/2010	low flow	9:42	102.6	91.55	210	10.2	6.3	19.3	0.437	2.21	132.8	0.9
MW-198	10/8/2010	low flow	11:57	100.5	92.34	90	3.0	5.9	24.7	0.162	8.77	177.5	3.1
MW-199A	10/7/2010	low flow	15:25	154.6	106.34	80	3.2	5.8	22.8	0.266	5.24	-165.8	13.2
MW-199B	10/8/2010	low flow	13:11	113.3	103.22	250	5.6	5.8	21.3	0.203	7.71	-169.8	7.0
MW-200	10/11/2010	low flow	9:00	112.0	101.89	200	6.6	6.0	19.1	0.420	0.98	-32.3	2.4
MW-202A	10/9/2010	low flow	13:56	185.0	120.95	330	6.5	5.5	20.5	0.312	4.69	-138.6	3.6
MW-202B	10/9/2010	low flow	14:43	129.9	120.61	265	10.7	5.8	21.3	0.627	3.97	-134.1	12.2
MW-203A	10/9/2010	low flow	13:02	150.5	92.28	80	3.2	6.0	22.5	0.343	3.29	211.0	2.0
MW-203B	10/11/2010	low flow	13:02	100.3	90.13	150	3.7	6.3	21.6	0.427	2.57	84.7	5.9
MW-204A	10/8/2010	low flow	14:00	139.0	92.76	100	3.2	6.2	22.3	0.460	2.73	176.5	2.0
MW-204B	10/11/2010	low flow	13:57	100.5	92.72	200	4.5	6.1	22.1	0.378	7.47	181.0	3.9
MW-205A	10/8/2010	low flow	15:40	147.0	93	90	3.5	6.1	23.4	0.371	2.81	117.0	1.1
MW-205B	10/11/2010	low flow	14:46	103.1	92.77	140	3.4	6.3	23.0	0.454	2.54	137.7	8.1
MW-206A	10/8/2010	low flow	9:10	134.8	101.78	60	3.0	6.2	20.0	0.333	2.55	165.9	6.2
MW-206B	10/8/2010	low flow	11:18	107.9	101.87	210	10.6	6.0	20.8	0.345	2.25	-206.6	5.5
MW-207A	10/14/2010	low flow	8:32	157.2	106.16	390	7.9	5.7	19.1	0.576	3.52	206.2	15.6
MW-207B	10/12/2010	low flow	11:01	115.6	105.7	150	3.7	5.8	22.4	0.373	6.67	188.6	9.9
MW-208A	10/8/2010	low flow	10:50	191.0	103.69	100	3.5	6.1	21.0	0.342	2.63	68.4	10.8
MW-208B	10/8/2010	low flow	9:45	114.2	103.77	170	4.8	5.7	20.5	0.244	6.39	-173.7	7.6
MW-209A	10/9/2010	low flow	8:35	195.3	102.28	210	5.2	5.6	20.0	0.286	8.36	-60.7	5.4
MW-209B	10/8/2010	low flow	12:31	108.3	100	140	3.0	5.6	23.3	0.156	7.18	-160.0	13.8
MW-210A	10/11/2010	low flow	10:29	184.5	97.48	180	3.9	6.2	19.9	0.315	6.96	187.2	6.9
MW-210B	10/11/2010	low flow	11:02	104.5	90.1	190	3.8	6.0	20.3	0.249	9.44	203.4	4.8
MW-211	10/13/2010	low flow	15:10	174.0	106.58	380	9.7	5.9	19.8	0.415	3.89	178.3	8.0
MW-212	10/15/2010	bailed	11:05	na	96.24	na	9.2	5.9	18.2	0.131	10.11	110.4	196.0
MW-213	10/15/2010	--	--	DRY	DRY	--	--	--	--	--	--	--	--
MW-214A	10/7/2010	low flow	8:45	126.6	100.01	125	3.0	5.7	21.8	0.363	4.78	-130.6	16.6
MW-214B	10/12/2010	low flow	9:58	109.6	99.65	190	3.5	5.9	21.8	0.314	4.63	188.0	1.1
MW-215A	10/6/2010	low flow	15:32	136.3	106.29	80	3.0	5.9	24.6	0.337	5.90	191.5	2.6
MW-215B	10/12/2010	low flow	9:19	114.4	106.41	230	4.5	5.9	21.4	0.323	6.43	209.3	15.2
MW-216	10/9/2010	low flow	14:50	107.4	90.05	100	5.1	6.2	24.3	0.555	8.91	200.4	18.7
MW-217	10/7/2010	low flow	14:40	111.0	104.68	125	3.0	5.8	23.5	0.208	5.93	189.5	8.4
MW-218	10/14/2010	low flow	10:28	108.2	101.05	280	5.5	6.0	20.8	0.249	10.57	198.8	9.5
MW-219	10/6/2010	low flow	10:37	105.2	89.8	360	6.5	5.8	18.5	0.338	6.01	-35.7	3.7
MW-229	10/6/2010	low flow	12:08	200.0	152.68	200	10.0	6.3	19.8	0.287	0.82	-193.2	2.8

TABLE 3
FINAL WELL STABILIZATION MEASUREMENTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

Well ID	Sample Date	Method	Time Sampled	Sample Pump Depth (ft, btoc)	Water Depth (ft, btoc)	Purge Rate (mL/min)	Volume Purged (Liters)	pH	Temp (°C)	Specific Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTUs)
MW-254	10/5/2010	low flow	12:59	295.6	136.14	380	27.9	5.7	19.7	0.261	3.22	44.7	19.7
MW-255	10/5/2010	low flow	11:11	294.5	134.52	350	36.0	5.8	19.6	0.291	2.59	6.5	22.0
DR1-1	10/9/2010	low flow	10:15	133.8	89.19	100	3.1	6.1	23.0	0.366	7.00	210.3	2.8
DR1-1A	10/9/2010	low flow	8:54	101.3	89.11	100	3.1	6.2	21.6	0.343	8.78	204.3	1.8
DR1-2	10/5/2010	low flow	9:55	109.1	87.59	100	3.4	6.2	20.9	0.360	6.34	176.8	0.5
DR1-3	10/6/2010	low flow	12:00	121.6	89.31	100	3.2	6.3	20.6	0.375	1.77	-26.9	0.6
DR1-4	10/6/2010	low flow	12:50	117.6	89.47	120	3.5	6.3	20.5	0.447	1.90	37.5	2.2
DR1-5	10/5/2010	low flow	16:40	136.3	90.45	60	3.0	5.9	22.3	0.314	6.01	212.3	0.6
DR1-5A	10/5/2010	low flow	15:20	102.3	90.52	100	3.4	5.9	21.9	0.149	9.36	210.3	3.0
DR1-6	10/5/2010	low flow	14:29	126.6	89.2	100	3.2	6.1	22.2	0.405	6.19	190.9	1.2
DR1-6A	10/5/2010	low flow	13:30	102.8	89.34	150	3.6	5.9	21.1	0.154	7.58	194.0	1.8
DR1-7	10/5/2010	low flow	11:00	120.3	88.01	80	3.1	6.2	19.4	0.337	5.69	187.2	12.8
DR1-8	10/6/2010	low flow	9:10	103.5	86.68	100	3.3	6.1	20.8	0.307	7.62	164.3	1.7
DR2-1	10/14/2010	low flow	14:00	92.3	86.28	80	4.2	6.2	23.2	0.295	8.89	92.1	5.7
DR2-2	10/12/2010	low flow	8:31	88.6	80.65	150	16.0	5.9	25.4	0.263	7.55	212.3	32.2
DR2-3	10/6/2010	low flow	13:49	102.6	94.95	300	5.4	5.4	21.4	0.395	5.94	-123.3	2.0
DR2-4	10/13/2010	low flow	13:00	102.0	92.35	120	3.5	5.5	21.9	0.376	6.45	126.6	4.6
DR2-5	10/13/2010	low flow	12:05	98.6	94.12	100	3.3	6.0	23.7	0.368	0.89	-63.4	2.4
DR2-6	10/7/2010	low flow	13:47	109.2	98.7	80	3.3	5.9	24.6	0.223	2.01	166.1	1.6
PMW21-03	10/5/2010	low flow	8:50	101.2	88.4	100	3.8	6.1	17.8	0.263	2.68	145.6	0.6
PMW21-05	10/6/2010	low flow	13:50	105.1	86.28	150	3.4	6.0	21.8	0.264	1.23	119.2	2.8
PMW92-03	10/4/2010	low flow	15:26	98.6	92.19	100	3.1	6.7	23.0	0.631	2.50	-56.9	4.8
PMW92-06	10/4/2010	low flow	16:33	98.9	93.2	150	4.7	5.8	23.1	0.172	2.27	179.2	0.5
PMW101-04A	10/14/2010	low flow	10:20	128.8	88.19	140	5.9	6.5	19.6	0.599	1.90	-63.8	17.8
PMW101-04B	10/5/2010	low flow	12:00	109.5	88.71	120	3.4	6.1	20.0	0.288	1.48	24.1	17.2
PZ-03	10/15/2010	bailed	15:05	na	100.19	na	8.5	6.8	19.9	0.339	10.37	155.0	1436.0
PZ-06	10/15/2010	bailed	11:30	na	74.33	na	8.5	6.5	18.6	0.252	6.96	101.3	5603.0

Notes:

°C: degrees Celsius

DO : Dissolved Oxygen

ft, btoc: feet below top of casing

L : liters

mg/L : milligrams per liter

mL/min: milliliters per minute

mS/cm : milliSiemens per centimeter

mV :millivolts

na : not available

NTUs: nephelometric turbidity units

ORP : Oxidation Reduction Potential

TABLE 4
ANALYTICAL RESULTS SUMMARY
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID Lab ID Date	Maximum Contaminant Level	DR1-1 L10100302-01 10/9/2010	DR1-1A L10100302-17 10/9/2010	DR1-2 L10100199-11 10/5/2010	DR1-3 L10100199-33 10/6/2010	DR1-4 L10100199-34 10/6/2010	DR1-5 L10100199-14 10/5/2010
Analyte	Units							
Carbon tetrachloride	µg/L	5	<1	<1	<1 Q	<1	<1	<1 Q
Chloroform	µg/L	80	<0.3	0.348	0.179 F	<0.3	<0.3	<0.3
cis-1,2-Dichloroethene	µg/L	70	1.26	0.42 F	0.805 F	<1	<1	<1
Tetrachloroethene	µg/L	5	2.56	1.33	2.1	9.13	0.435 F	18.3
trans-1,2-Dichloroethene	µg/L	100	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	5	0.304 F	3.6	<1	1.75	0.543 F	<1
Vinyl chloride	µg/L	2	<1	<1	<1	<1	<1	<1
Additional VOCs*								
1,1,2,2-Tetrachloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	µg/L	--	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	µg/L	--	<1	<1	<1	<1	<1	<1
Acetone	µg/L	--	<10	<10	<10	<10	<10	<10
Carbon disulfide	µg/L	--	<1	<1	<1	<1	<1	<1
Chloromethane	µg/L	--	0.532 F	0.617 F	<1	0.759 F	<1	<1
Methyl t-butyl ether (MTBE)	µg/L	--	<5	<5	<5	<5	<5	4.06 F

Notes:

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

RL: reporting limit

<: Not detected above RL

Results detected at or above RL shown in bold

DQE FLAGS:

F: Concentration estimated below RL and above MDL

M: Concentration estimated due to matrix effect

Q: One or more quality control criteria failed.

TABLE 4
ANALYTICAL RESULTS SUMMARY
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID Lab ID Date	Maximum Contaminant Level	DR1-5A L10100199-15 10/5/2010	DR1-6 L10100199-16 10/5/2010	DR1-6A L10100199-17 10/5/2010	DR1-7 L10100199-18 10/5/2010	DR1-8 L10100199-35 10/6/2010	DR2-1 L10100482-03 10/14/2010
Analyte	Units							
Carbon tetrachloride	µg/L	5	<1 Q	<1 Q	<1 Q	<1 Q	<1 Q	13.2
Chloroform	µg/L	80	0.197 F	<0.3	0.271 F	0.169 F	<0.3	6.9
cis-1,2-Dichloroethene	µg/L	70	3.88	1.69	5.08	0.525 F	<1	14.3
Tetrachloroethene	µg/L	5	70.4	239	60.1	3.81	<1	106
trans-1,2-Dichloroethene	µg/L	100	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	5	110	1.89	149	0.549 F	<1	5.23
Vinyl chloride	µg/L	2	<1	<1	<1	<1	<1	<1
Additional VOCs*								
1,1,2,2-Tetrachloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	µg/L	--	0.176 F	<1	0.207 F	<1	<1	<1
1,1-Dichloroethene	µg/L	5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	0.416 F	<0.5 Q
1,2,3-Trichloropropane	µg/L	--	<1	<1	<1	<1	<1	<1
Acetone	µg/L	--	<10	<10	<10	<10	<10	<10
Carbon disulfide	µg/L	--	<1	<1	<1	<1	<1	<1
Chloromethane	µg/L	--	<1	<1	<1	<1	<1	<1
Methyl t-butyl ether (MTBE)	µg/L	--	5.64	<5	<5	<5	<5	<5

Notes:

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

RL: reporting limit

<: Not detected above RL

Results detected at or above RL shown in bold

DQE FLAGS:

F: Concentration estimated below RL and above MDL

M: Concentration estimated due to matrix effect

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TABLE 4
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Main Installation - Defense Depot Memphis, Tennessee

	Well ID	Maximum	DR2-2	DR2-3	DR2-4	DR2-5	DR2-6	MW-16
	Lab ID	Contaminant	L10100407-19	L10100199-29	L10100407-27	L10100407-28	L10100252-14	L10100407-22
	Date	Level	10/12/2010	10/6/2010	10/13/2010	10/13/2010	10/7/2010	10/13/2010
Analyte	Units							
Carbon tetrachloride	µg/L	5	4.87 Q	5.81 Q	4.56 Q	25 Q	74.4	<1
Chloroform	µg/L	80	0.63	0.828	0.716	21.5	16.1	<0.3
cis-1,2-Dichloroethene	µg/L	70	1.06	0.674 F	0.373 F	105	18.5	<1
Tetrachloroethene	µg/L	5	25.6	31.6	19.8	21.1	52.9	<1
trans-1,2-Dichloroethene	µg/L	100	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	5	2.45	2.07	1.7	12.1	10.1	<1
Vinyl chloride	µg/L	2	<1	<1	<1	<1	<1	<1
Additional VOCs*								
1,1,2,2-Tetrachloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	µg/L	--	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	µg/L	--	<1	<1	<1	19.7	9.15	<1
Acetone	µg/L	--	<10	<10	<10	6.7 F	<10	3.13 F
Carbon disulfide	µg/L	--	<1	<1	<1	0.689 F	<1	<1
Chloromethane	µg/L	--	<1 Q	<1	<1	<1	<1	<1 Q
Methyl t-butyl ether (MTBE)	µg/L	--	<5	<5	<5	<5	<5	<5

Notes:

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

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TABLE 4
ANALYTICAL RESULTS SUMMARY
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID Lab ID Date	Maximum Contaminant Level	MW-19 L10100302-18 10/11/2010	MW-21 L10100199-30 10/6/2010	MW-22 L10100407-01 10/12/2010	MW-23 L10100407-02 10/12/2010	MW-24 L10100482-05 10/14/2010	MW-25A L10100252-01 10/7/2010
Analyte	Units							
Carbon tetrachloride	µg/L	5	<1	<1	<1	<1	<1	2.74
Chloroform	µg/L	80	<0.3	<0.3	<0.3	<0.3	<0.3	0.411
cis-1,2-Dichloroethene	µg/L	70	<1	2.39	<1	<1	<1	<1
Tetrachloroethene	µg/L	5	<1	83.5	<1	<1	<1	13.6
trans-1,2-Dichloroethene	µg/L	100	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	5	<1	5.67	<1	<1	<1	0.386 F
Vinyl chloride	µg/L	2	<1	<1	<1	<1	<1	<1
Additional VOCs*								
1,1,2,2-Tetrachloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	µg/L	--	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	--	<0.5	0.671	<0.5	<0.5	<0.5 Q	<0.5
1,2,3-Trichloropropane	µg/L	--	<1	<1	<1	<1	<1	<1
Acetone	µg/L	--	<10	<10	<10	<10	<10	<10
Carbon disulfide	µg/L	--	<1	<1	<1	<1	<1	<1
Chloromethane	µg/L	--	<1	<1	<1	<1	<1	<1
Methyl t-butyl ether (MTBE)	µg/L	--	<5	<5	<5	<5	<5	0.506 F

Notes:
VOC samples analyzed using method 8260B
µg/L : micrograms per liter
RL: reporting limit
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Results detected at or above RL shown in bold

DQE FLAGS:
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TABLE 4
ANALYTICAL RESULTS SUMMARY
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Main Installation - Defense Depot Memphis, Tennessee

	Well ID Lab ID Date	Maximum Contaminant Level	MW-26 L10100252-02 10/7/2010	MW-34 L10100199-26 10/6/2010	MW-38 L10100302-02 10/9/2010	MW-39 L10100302-03 10/9/2010	MW-39A L10100302-04 10/9/2010	MW-50 L10100407-07 10/13/2010
Analyte	Units							
Carbon tetrachloride	µg/L	5	9.18	0.572 Q	<1	<1	<1	<1 Q
Chloroform	µg/L	80	1.79	0.325	0.141 F	<0.3	<0.3	0.281 F
cis-1,2-Dichloroethene	µg/L	70	0.606 F	<1	<1	18.3	36	0.297 F
Tetrachloroethene	µg/L	5	46.4	0.269 F	<1	29.1	25.6	0.46 F
trans-1,2-Dichloroethene	µg/L	100	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	5	1.98	0.756 F	0.717 F	13.6	10.9	1.24
Vinyl chloride	µg/L	2	<1	<1	<1	0.414 F	<1	<1
Additional VOCs*								
1,1,2,2-Tetrachloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	µg/L	--	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	µg/L	--	<1	<1	<1	<1	<1	<1
Acetone	µg/L	--	<10	<10	<10	<10	<10	<10
Carbon disulfide	µg/L	--	<1	<1	<1	<1	<1	<1
Chloromethane	µg/L	--	<1	<1	<1	<1	<1	<1 Q
Methyl t-butyl ether (MTBE)	µg/L	--	<5	<5	<5	<5	<5	1.88 F

Notes:

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

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TABLE 4
ANALYTICAL RESULTS SUMMARY
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID Lab ID Date	Maximum Contaminant Level	MW-52 L10100252-03 10/7/2010	MW-53 L10100407-08 10/13/2010	MW-55 L10100302-19 10/11/2010	MW-62 L10100482-06 10/14/2010	MW-63A L10100252-18 10/7/2010	MW-63B L10100252-19 10/7/2010
Analyte	Units							
Carbon tetrachloride	µg/L	5	<1	<1	<1	0.577 F	<1	<1
Chloroform	µg/L	80	0.893	<0.3	<0.3	0.291 F	<0.3	1.71
cis-1,2-Dichloroethene	µg/L	70	0.608 F	<1	<1	<1	<1	0.372 F
Tetrachloroethene	µg/L	5	5.25	1.39	<1	0.447 F	1.69	7.47
trans-1,2-Dichloroethene	µg/L	100	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	5	0.838 F	<1	<1	119	1.37	3.55
Vinyl chloride	µg/L	2	<1	<1	<1	<1	<1	<1
Additional VOCs*								
1,1,2,2-Tetrachloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	µg/L	--	<1	<1	<1	<1	<1	0.992 F
1,1-Dichloroethene	µg/L	5	<1	<1	<1	0.557 F	<1	0.628 F
1,2-Dichloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5 Q	<0.5	<0.5
1,2,3-Trichloropropane	µg/L	--	<1	<1	<1	<1	<1	<1
Acetone	µg/L	--	<10	<10 Q	<10	<10	<10	<10
Carbon disulfide	µg/L	--	<1	<1	<1	<1	<1	<1
Chloromethane	µg/L	--	<1	<1 Q	<1	<1	0.641 F	<1
Methyl t-butyl ether (MTBE)	µg/L	--	<5	0.533 F	<5	<5	0.794 F	<5

Notes:

VOC samples analyzed using method 8260B

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OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID Lab ID Date	Maximum Contaminant Level	MW-64 L10100252-04 10/7/2010	MW-66A L10100407-03 10/12/2010	MW-85 L10100482-01 10/14/2010	MW-88 L10100199-05 10/4/2010	MW-89 L10100252-05 10/8/2010	MW-90 L10100252-06 10/8/2010
Analyte	Units							
Carbon tetrachloride	µg/L	5	3.08	<1	121	10.5	0.261 F	<1
Chloroform	µg/L	80	1.17	<0.3	27.1	1.85	0.212 F	4.07
cis-1,2-Dichloroethene	µg/L	70	0.423 F	<1	9.47	2.54	<1	0.483 F
Tetrachloroethene	µg/L	5	20.8	3.31	39.2	56.1	1.43	47.9
trans-1,2-Dichloroethene	µg/L	100	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	5	34.1	<1	12.3	4.11	1.63	8.17
Vinyl chloride	µg/L	2	<1	<1	<1	<1	<1	<1
Additional VOCs*								
1,1,2,2-Tetrachloroethane	µg/L	--	1.11	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	µg/L	--	<1	<1	<1	<1	<1	1.03
1,1-Dichloroethene	µg/L	5	0.682 F	<1	<1	<1	<1	0.834 F
1,2-Dichloroethane	µg/L	--	0.529	0.574	<0.5 Q	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	µg/L	--	<1	<1	7.28	<1	<1	<1
Acetone	µg/L	--	<10	<10	<10	<10	<10	<10
Carbon disulfide	µg/L	--	<1	<1	<1	<1	<1	<1
Chloromethane	µg/L	--	<1	<1	<1	<1	<1	<1
Methyl t-butyl ether (MTBE)	µg/L	--	<5	<5	<5	<5	<5	<5

Notes:

VOC samples analyzed using method 8260B

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OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID Lab ID Date	Maximum Contaminant Level	MW-92 L10100302-05 10/9/2010	MW-93 L10100482-02 10/14/2010	MW-94A L10100302-20 10/11/2010	MW-96 L10100252-07 10/7/2010	MW-97 L10100302-13 10/9/2010	MW-98 L10100302-06 10/9/2010
Analyte	Units							
Carbon tetrachloride	µg/L	5	<1	<1	<1	2.45	<1	<1
Chloroform	µg/L	80	<0.3	<0.3	<0.3	0.557	0.368	0.127 F
cis-1,2-Dichloroethene	µg/L	70	119	<1	3.17	0.34 F	<1	0.502 F
Tetrachloroethene	µg/L	5	20.7	<1	30	3.99	<1	35.4
trans-1,2-Dichloroethene	µg/L	100	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	5	8.64	<1	6.89	<1	49.8	2.85
Vinyl chloride	µg/L	2	0.314 F	<1	<1	<1	<1	<1
Additional VOCs*								
1,1,2,2-Tetrachloroethane	µg/L	--	<0.5	<0.5	0.365 F	<0.5	<0.5	<0.5
1,1-Dichloroethane	µg/L	--	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	µg/L	--	<1	<1	<1	<1	<1	<1
Acetone	µg/L	--	5.46 F	<10	<10	<10	<10	<10
Carbon disulfide	µg/L	--	<1	<1	<1	<1	<1	<1
Chloromethane	µg/L	--	<1	<1	<1	<1	<1	<1
Methyl t-butyl ether (MTBE)	µg/L	--	<5	<5	<5	<5	<5	<5

Notes:
VOC samples analyzed using method 8260B
µg/L : micrograms per liter
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OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID Lab ID Date	Maximum Contaminant Level	MW-99 L10100407-04 10/12/2010	MW-100B L10100199-31 10/6/2010	MW-101T L10100407-23 10/13/2010	MW-101B L10100407-26 10/13/2010	MW-102B L10100302-21 10/11/2010	MW-103 L10100252-20 10/7/2010
Analyte	Units							
Carbon tetrachloride	µg/L	5	<1	<1 Q	<1	<1 Q	<1	<1
Chloroform	µg/L	80	0.252 F	<0.3	<0.3	<0.3	<0.3	7.78
cis-1,2-Dichloroethene	µg/L	70	<1	11	<1	0.264 F	<1	0.386 F
Tetrachloroethene	µg/L	5	<1	<1	75.6 M	66.4	<1	<1
trans-1,2-Dichloroethene	µg/L	100	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	5	<1	<1	<1	<1	<1	3.98
Vinyl chloride	µg/L	2	<1	132	<1	<1	<1	<1
Additional VOCs*								
1,1,2,2-Tetrachloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	µg/L	--	<1	<1	<1	<1	<1	2.68
1,1-Dichloroethene	µg/L	5	<1	<1	<1	<1	<1	1.98
1,2-Dichloroethane	µg/L	--	<0.5	<0.5	<0.5 Q	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	µg/L	--	<1	<1	<1	<1	<1	<1
Acetone	µg/L	--	<10	<10	<10	2.66 F	<10	<10
Carbon disulfide	µg/L	--	<1	<1	<1		<1	<1
Chloromethane	µg/L	--	<1	1.04	<1	<1	<1	<1
Methyl t-butyl ether (MTBE)	µg/L	--	<5	60.1	2.76 F	2.41 F	<5	<5

Notes:

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

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Results detected at or above RL shown in bold

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ANALYTICAL RESULTS SUMMARY
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Main Installation - Defense Depot Memphis, Tennessee

	Well ID Lab ID Date	Maximum Contaminant Level	MW-104 L10100252-21 10/7/2010	MW-107T L10100407-11 10/13/2010	MW-107B L10100407-12 10/13/2010	MW-108 L10100407-13 10/12/2010	MW-A1113 L10100482-07 10/14/2010	MW-140 L10100407-14 10/13/2010
Analyte	Units							
Carbon tetrachloride	µg/L	5	<1	0.6 Q	0.629 Q	<1 Q	77.3	<1 Q
Chloroform	µg/L	80	10.2	0.357	0.375	11.9	24.3	0.242 F
cis-1,2-Dichloroethene	µg/L	70	0.477 F	<1	0.252 F	0.744 F	29.7	<1
Tetrachloroethene	µg/L	5	<1	4.26	4.22	5.23	149	1.18
trans-1,2-Dichloroethene	µg/L	100	<1	<1	<1	<1	0.358 F	<1
Trichloroethene	µg/L	5	14.4	2.17	2.2	37.7	19.9	0.971 F
Vinyl chloride	µg/L	2	<1	<1	<1	<1	<1	<1
Additional VOCs*								
1,1,2,2-Tetrachloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	µg/L	--	1.15	<1	<1	0.55 F	<1	<1
1,1-Dichloroethene	µg/L	5	1.96	<1	<1	0.779 F	<1	<1
1,2-Dichloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	<0.5 Q	<0.5
1,2,3-Trichloropropane	µg/L	--	<1	<1	<1	<1	7.27	<1
Acetone	µg/L	--	<10	<10	<10	<10	<10	<10
Carbon disulfide	µg/L	--	<1	<1	<1	<1	<1	<1
Chloromethane	µg/L	--	<1	0.718 Q	0.743 F	<1 Q	<1	<1
Methyl t-butyl ether (MTBE)	µg/L	--	<5	<5	<5	<5	<5	0.532 F

Notes:

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

RL: reporting limit

<: Not detected above RL

Results detected at or above RL shown in bold

DQE FLAGS:

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M: Concentration estimated due to matrix effect

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TABLE 4
ANALYTICAL RESULTS SUMMARY
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID Lab ID Date	Maximum Contaminant Level	MW-141 L10100252-08 10/8/2010	MW-142 L10100302-14 10/9/2010	MW-143 L10100407-05 10/12/2010	MW-197A L10100302-24 10/11/2010	MW-197B L10100302-25 10/11/2010	MW-198 L10100252-27 10/8/2010
Analyte	Units							
Carbon tetrachloride	µg/L	5	<1	<1	<1	<1	<1	<1
Chloroform	µg/L	80	2.06	<0.3	<0.3	<0.3	<0.3	<0.3
cis-1,2-Dichloroethene	µg/L	70	<1	<1	<1	1.84	9.66	<1
Tetrachloroethene	µg/L	5	19.6	<1	<1	35	34.1	<1
trans-1,2-Dichloroethene	µg/L	100	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	5	3.18	6.71	8.83	1.72	10.2	3.14
Vinyl chloride	µg/L	2	<1	<1	<1	<1	3.99	<1
Additional VOCs*								
1,1,2,2-Tetrachloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	µg/L	--	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	µg/L	--	<1	<1	<1	<1	<1	<1
Acetone	µg/L	--	<10	<10	<10	<10	<10	<10
Carbon disulfide	µg/L	--	<1	<1	<1	<1	<1	<1
Chloromethane	µg/L	--	<1	<1	<1	<1	<1	<1
Methyl t-butyl ether (MTBE)	µg/L	--	<5	6.93	6.4	<5	<5	<5

Notes:

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

RL: reporting limit

<: Not detected above RL

Results detected at or above RL shown in bold

DQE FLAGS:

F: Concentration estimated below RL and above MDL

M: Concentration estimated due to matrix effect

Q: One or more quality control criteria failed.

TABLE 4
ANALYTICAL RESULTS SUMMARY
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID Lab ID Date	Maximum Contaminant Level	MW-199A L10100252-22 10/7/2010	MW-199B L10100252-09 10/8/2010	MW-200 L10100302-22 10/11/2010	MW-202A L10100302-07 10/9/2010	MW-202B L10100302-08 10/9/2010	MW-203A L10100302-15 10/9/2010
Analyte	Units							
Carbon tetrachloride	µg/L	5	<1	0.287 F	<1	<1	<1	<1
Chloroform	µg/L	80	<0.3	<0.3	<0.3	0.21 F	1.46	<0.3
cis-1,2-Dichloroethene	µg/L	70	<1	<1	16.7	<1	0.299 F	5.32
Tetrachloroethene	µg/L	5	<1	0.707 F	31.5	1	23.1	143
trans-1,2-Dichloroethene	µg/L	100	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	5	0.968 F	53.8	7.24	1.43	3.43	2.55
Vinyl chloride	µg/L	2	<1	<1	<1	<1	<1	<1
Additional VOCs*								
1,1,2,2-Tetrachloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	µg/L	--	<1	<1	<1	<1	0.589 F	<1
1,1-Dichloroethene	µg/L	5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	µg/L	--	<1	<1	<1	<1	<1	<1
Acetone	µg/L	--	<10	<10	<10	<10	<10	<10
Carbon disulfide	µg/L	--	<1	<1	<1	<1	<1	<1
Chloromethane	µg/L	--	<1	<1	<1	<1	<1	<1
Methyl t-butyl ether (MTBE)	µg/L	--	2.82 F	<5	<5	<5	<5	<5

Notes:

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

RL: reporting limit

<: Not detected above RL

Results detected at or above RL shown in bold

DQE FLAGS:

F: Concentration estimated below RL and above MDL

M: Concentration estimated due to matrix effect

Q: One or more quality control criteria failed.

TABLE 4
ANALYTICAL RESULTS SUMMARY
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID Lab ID Date	Maximum Contaminant Level	MW-203B L10100302-26 10/11/2010	MW-204A L10100252-28 10/8/2010	MW-204B L10100302-27 10/11/2010	MW-205A L10100252-29 10/8/2010	MW-205B L10100302-28 10/11/2010	MW-206A L10100252-30 10/8/2010
Analyte	Units							
Carbon tetrachloride	µg/L	5	<1	<1	<1	<1	<1	<1
Chloroform	µg/L	80	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
cis-1,2-Dichloroethene	µg/L	70	6.65	4.36	1.11	25.2	13.5	13.5
Tetrachloroethene	µg/L	5	31.9	47.2	15.7	39.1	30.8	15.6
trans-1,2-Dichloroethene	µg/L	100	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	5	6.76	1.83	5.35	9.03	10.7	12.2
Vinyl chloride	µg/L	2	5.11	<1	<1	1.2	4.59	<1
Additional VOCs*								
1,1,2,2-Tetrachloroethane	µg/L	--	<0.5	<0.5	1.52	<0.5	<0.5	<0.5
1,1-Dichloroethane	µg/L	--	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	µg/L	--	<1	<1	<1	<1	<1	<1
Acetone	µg/L	--	<10	<10	<10	<10	<10	<10
Carbon disulfide	µg/L	--	<1	<1	<1	<1	<1	<1
Chloromethane	µg/L	--	<1	<1	<1	0.516 F	<1	<1
Methyl t-butyl ether (MTBE)	µg/L	--	0.789 F	<5	<5	<5	<5	<5

Notes:

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

RL: reporting limit

<: Not detected above RL

Results detected at or above RL shown in bold

DQE FLAGS:

F: Concentration estimated below RL and above MDL

M: Concentration estimated due to matrix effect

Q: One or more quality control criteria failed.

TABLE 4
ANALYTICAL RESULTS SUMMARY
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID Lab ID Date	Maximum Contaminant Level	MW-206B L10100252-10 10/8/2010	MW-207A L10100482-08 10/14/2010	MW-207B L10100407-15 10/12/2010	MW-208A L10100252-31 10/8/2010	MW-208B L10100252-11 10/8/2010	MW-209A L10100302-09 10/9/2010
Analyte	Units							
Carbon tetrachloride	µg/L	5	<1	<1	1.85	<1	<1	<1
Chloroform	µg/L	80	<0.3	12.1	6.99	<0.3	0.262 F	0.134 F
cis-1,2-Dichloroethene	µg/L	70	6.68	0.768 F	0.9 F	25.7	1.45	<1
Tetrachloroethene	µg/L	5	12.3	18.1	113	38	16.5	<1
trans-1,2-Dichloroethene	µg/L	100	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	5	8.81	36.2	53.6	12.2	42.9	0.659 F
Vinyl chloride	µg/L	2	<1	<1	<1	<1	<1	<1
Additional VOCs*								
1,1,2,2-Tetrachloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	µg/L	--	<1	0.68 F	0.205 F	<1	<1	<1
1,1-Dichloroethene	µg/L	5	<1	0.849 F	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	--	<0.5	<0.5 Q	0.462 F	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	µg/L	--	<1	<1	<1	<1	<1	<1
Acetone	µg/L	--	<10	<10	<10 Q	<10	<10	<10
Carbon disulfide	µg/L	--	<1	<1	<1	<1	<1	<1
Chloromethane	µg/L	--	<1	<1	<1 Q	<1	<1	<1
Methyl t-butyl ether (MTBE)	µg/L	--	<5	<5	0.772 F	<5	<5	2.7 F

Notes:

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

RL: reporting limit

<: Not detected above RL

Results detected at or above RL shown in bold

DQE FLAGS:

F: Concentration estimated below RL and above MDL

M: Concentration estimated due to matrix effect

Q: One or more quality control criteria failed.

TABLE 4
ANALYTICAL RESULTS SUMMARY
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID Lab ID Date	Maximum Contaminant Level	MW-209B L10100252-12 10/8/2010	MW-210A L10100302-29 10/11/2010	MW-210B L10100302-30 10/11/2010	MW-211 L10100407-16 10/13/2010	MW-212 L10100482-09 10/15/2010	MW-214A L10100252-25 10/7/2010
Analyte	Units							
Carbon tetrachloride	µg/L	5	0.659 F	<1	<1	0.344 Q	0.323 F	1.12 J
Chloroform	µg/L	80	0.217 F	0.13 F	<0.3	0.218 F	<0.3	5.01 J
cis-1,2-Dichloroethene	µg/L	70	<1	2.25	1.1	<1	<1	<1
Tetrachloroethene	µg/L	5	0.479 F	13.6	9.27	0.745 F	0.407 F	10.5 J
trans-1,2-Dichloroethene	µg/L	100	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	5	31.8	6.16	7.77	1.3	23.8	7.88 J
Vinyl chloride	µg/L	2	<1	<1	<1 M	<1	<1	<1
Additional VOCs*								
1,1,2,2-Tetrachloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	µg/L	--	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	µg/L	--	<1	<1	<1	<1	<1	<1
Acetone	µg/L	--	<10	<10	<10	<10	<10	<10
Carbon disulfide	µg/L	--	<1	<1	<1	<1	<1	<1
Chloromethane	µg/L	--	<1	<1	<1 M	<1	<1	<1
Methyl t-butyl ether (MTBE)	µg/L	--	<5	0.681 F	<5	<5	<5	3.87 F

Notes:

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

RL: reporting limit

<: Not detected above RL

Results detected at or above RL shown in bold

DQE FLAGS:

F: Concentration estimated below RL and above MDL

M: Concentration estimated due to matrix effect

Q: One or more quality control criteria failed.

TABLE 4
ANALYTICAL RESULTS SUMMARY
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID Lab ID Date	Maximum Contaminant Level	MW-214B L10100407-17 10/12/2010	MW-215A L10100199-32 10/6/2010	MW-215B L10100407-18 10/12/2010	MW-216 L10100302-16 10/9/2010	MW-217 L10100252-13 10/7/2010	MW-218 L10100482-10 10/14/2010
Analyte	Units							
Carbon tetrachloride	µg/L	5	1.08 Q	0.747 F	1.23	<1	48.8	8.81
Chloroform	µg/L	80	3.79	1.03	0.63	<0.3	3.73	2.98
cis-1,2-Dichloroethene	µg/L	70	<1	<1	<1	<1	0.819 F	0.373 F
Tetrachloroethene	µg/L	5	10	4.19	5.81	0.285 F	27.4	13.7
trans-1,2-Dichloroethene	µg/L	100	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	5	5.65	2.72	1.5	<1	37.9	37.6
Vinyl chloride	µg/L	2	<1	<1	<1	<1	<1	<1
Additional VOCs*								
1,1,2,2-Tetrachloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	0.403 F	1.18
1,1-Dichloroethane	µg/L	--	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	0.316 F	0.536 Q
1,2,3-Trichloropropane	µg/L	--	<1	<1	<1	<1	<1	<1
Acetone	µg/L	--	<10	<10	<10 Q	<10	<10	<10
Carbon disulfide	µg/L	--	<1	<1	<1	<1	<1	<1
Chloromethane	µg/L	--	<1 Q	<1	<1 Q	<1	<1	<1
Methyl t-butyl ether (MTBE)	µg/L	--	2.36 F	0.971 F	1.27 F	<5	<5	<5

Notes:
VOC samples analyzed using method 8260B
µg/L : micrograms per liter
RL: reporting limit
<: Not detected above RL
Results detected at or above RL shown in bold

DQE FLAGS:
F: Concentration estimated below RL and above MDL
M: Concentration estimated due to matrix effect
Q: One or more quality control criteria failed.

TABLE 4
ANALYTICAL RESULTS SUMMARY
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID Lab ID Date	Maximum Contaminant Level	MW-219 L10100199-27 10/6/2010	MW-229 L10100199-28 10/6/2010	MW-254 L10100199-23 10/5/2010	MW-255 L10100199-24 10/5/2010	PMW21-03 L10100199-19 10/5/2010	PMW21-05 L10100199-36 10/6/2010
Analyte	Units							
Carbon tetrachloride	µg/L	5	<1 Q	<1 Q	0.872 F	<1	<1 Q	<1
Chloroform	µg/L	80	<0.3	<0.3	0.223 F	<0.3	<0.3	<0.3
cis-1,2-Dichloroethene	µg/L	70	<1	<1	<1	<1	0.687 F	0.798 F
Tetrachloroethene	µg/L	5	5.57	<1	0.623 F	<1	45.9	43.1
trans-1,2-Dichloroethene	µg/L	100	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	5	0.575 F	<1	2.07	0.297 F	11.4	4.24
Vinyl chloride	µg/L	2	<1	<1	<1	<1	<1	<1
Additional VOCs*								
1,1,2,2-Tetrachloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	µg/L	--	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	--	0.645	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	µg/L	--	<1	<1	<1	<1	<1	<1
Acetone	µg/L	--	<10	<10	<10	<10	3.89 F	<10
Carbon disulfide	µg/L	--	<1	1.09	<1	<1	<1	<1
Chloromethane	µg/L	--	<1	<1	<1	<1	<1	<1
Methyl t-butyl ether (MTBE)	µg/L	--	<5	<5	<5	<5	15.1	<5

Notes:

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

RL: reporting limit

<: Not detected above RL

Results detected at or above RL shown in bold

DQE FLAGS:

F: Concentration estimated below RL and above MDL

M: Concentration estimated due to matrix effect

Q: One or more quality control criteria failed.

TABLE 4
ANALYTICAL RESULTS SUMMARY
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID Lab ID Date	Maximum Contaminant Level	PMW92-03 L10100199-06 10/4/2010	PMW92-06 L10100199-07 10/4/2010	PMW101-04A L10100482-04 10/14/2010	PMW101-04B L10100199-20 10/5/2010	PZ-03 L10100482-11 10/15/2010	PZ-06 L10100482-12 10/15/2010
Analyte	Units							
Carbon tetrachloride	µg/L	5	<1	110 M	<1	<1 Q	<1	<1
Chloroform	µg/L	80	0.26 F	41.1	<0.3	<0.3	0.203 F	<0.3
cis-1,2-Dichloroethene	µg/L	70	83	68.5 M	13.5 J	<1	0.287 F	<1
Tetrachloroethene	µg/L	5	104	141 M	44.6 J	28.7	2.04	<1
trans-1,2-Dichloroethene	µg/L	100	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	5	19	33 M	7.89 J	3.09	1.23	<1
Vinyl chloride	µg/L	2	0.528 F	0.379 F	<1	<1	<1	<1
Additional VOCs*								
1,1,2,2-Tetrachloroethane	µg/L	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	µg/L	--	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	--	<0.5	0.577	<0.5	<0.5	<0.5 Q	<0.5 Q
1,2,3-Trichloropropane	µg/L	--	<1	105	<1	<1	<1	<1
Acetone	µg/L	--	7.14 F	<10	3.44 F	<10	10.6	7.13 F
Carbon disulfide	µg/L	--	<1	<1 M	<1	<1	<1	<1
Chloromethane	µg/L	--	<1	<1	0.612 F	<1	0.604 F	<1
Methyl t-butyl ether (MTBE)	µg/L	--	<5	<5	1.07 F	1.12 F	<5	<5

Notes:

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

RL: reporting limit

<: Not detected above RL

Results detected at or above RL shown in bold

DQE FLAGS:

F: Concentration estimated below RL and above MDL

M: Concentration estimated due to matrix effect

Q: One or more quality control criteria failed.

TABLE 5
PRIMARY CVOC RESULTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

VOC Analyte	MCL (µg/L)	Number of Locations with Analyte Above RL	Maximum Concentration (µg/L)	Location of Maximum Concentration	Number of Locations with Analyte Above MCL
Carbon tetrachloride	5	20	121	MW-85	11
Chloroform	80	35	41.1	PMW92-06	0
cis-1,2-Dichloroethene	70	35	119	MW-92	3
Tetrachloroethene	5	75	239	DR1-6	60
trans-1,2-Dichloroethene	100	0	0.358	MW-113	0
Trichloroethene	5	75	149	DR1-6A	45
Vinyl chloride	2	5	132	MW-100B	4

Notes:

µg/L: micrograms per liter

--: not listed

RL: reporting limit

MCL: maximum Contaminant Level

Figures

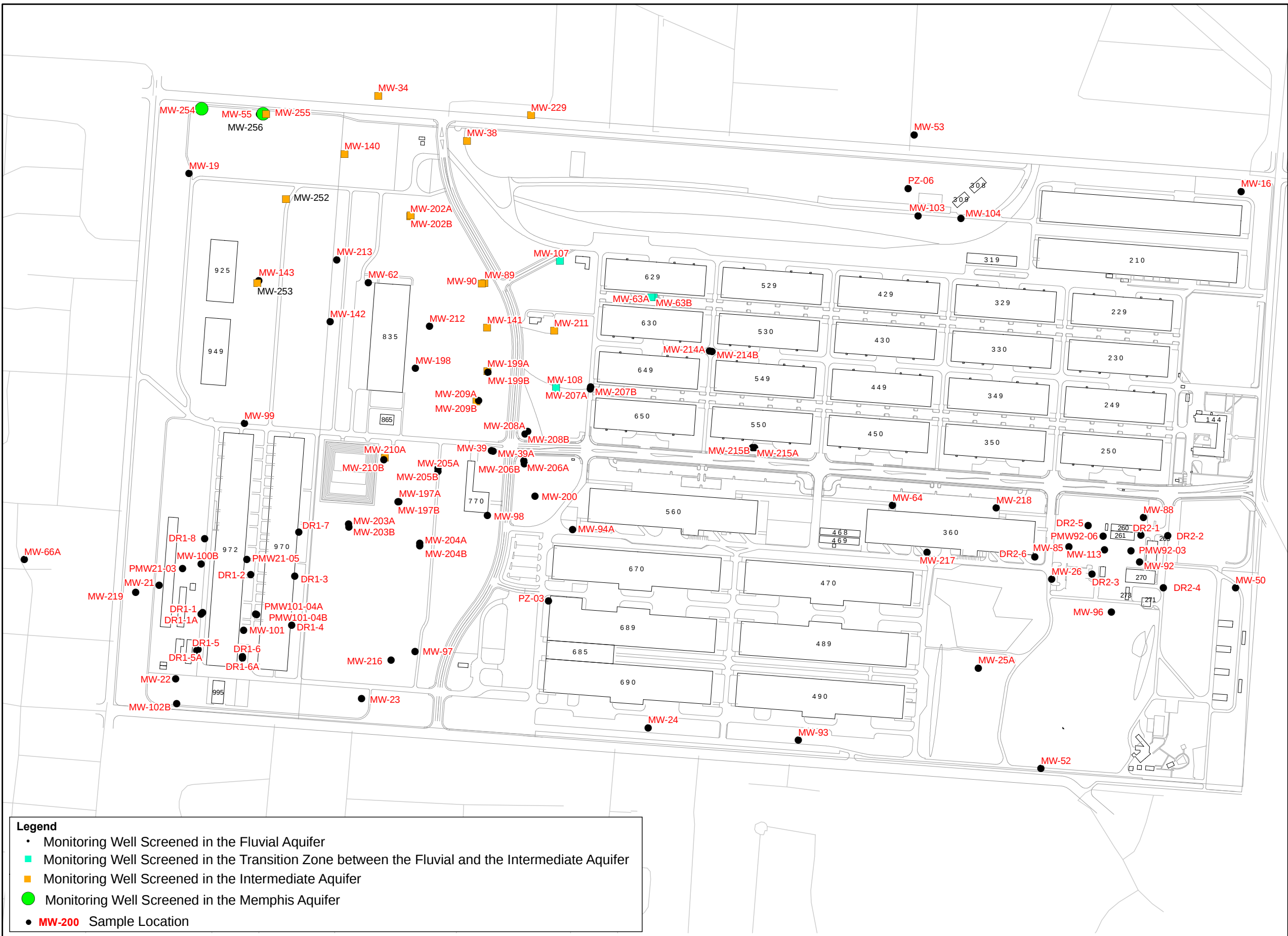
- 1 Well Location Map
- 2 Groundwater Elevations
- 3 Intermediate and Memphis Aquifer Groundwater Elevations
- 4 PCE Isopleth Map
- 5 TCE Isopleth Map



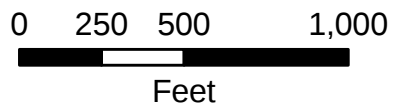
WELL LOCATION MAP

OCTOBER 2010 LONG-TERM MONITORING REPORT

MAIN INSTALLATION
DEFENSE DEPOT
MEMPHIS, TENNESSEE



Projection: NAD 1927 StatePlane Tennessee
Units: Feet

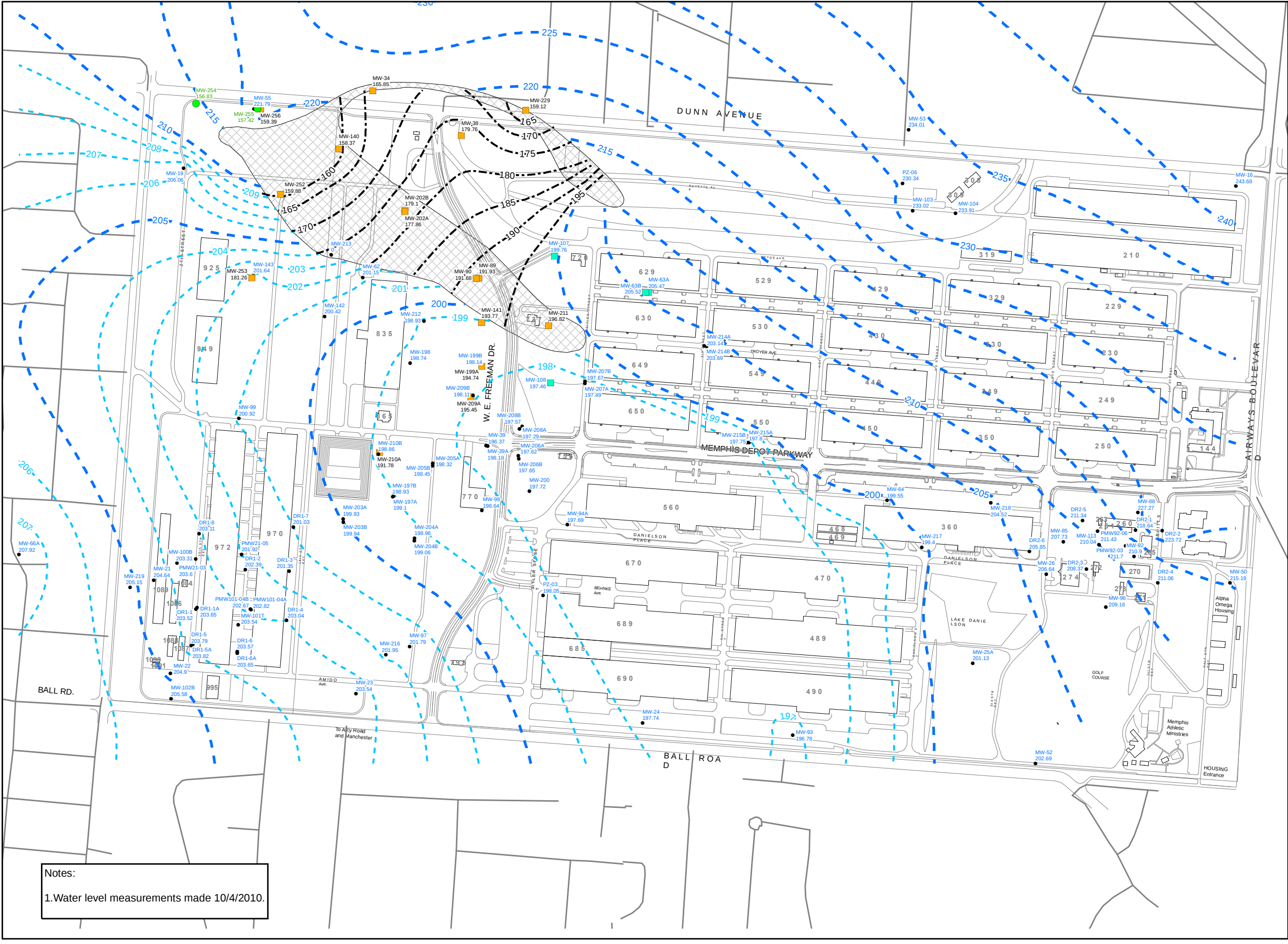


Date: October 2010
Edition: Rev 0

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Notes:
1. Water level measurements made 10/4/2010.



Figure 2

GROUNDWATER ELEVATIONS

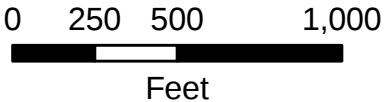
OCTOBER 2010 LONG-TERM MONITORING REPORT

MAIN INSTALLATION
DEFENSE DEPOT
MEMPHIS, TENNESSEE

Legend

- Monitoring Well Screened in the Fluvial Aquifer
- Monitoring Well Screened in the Intermediate Aquifer
- Monitoring Well Screened in the Transition Zone
- Potentiometric surface of the Fluvial Aquifer 1-ft. contour
- Potentiometric surface of the Fluvial Aquifer 5-ft. contour
- Potentiometric surface of the Intermediate Aquifer 5-ft. contour
- Clay Elevation Exceeds Groundwater Elevation
- MW-03 Blue: value used for Fluvial Aquifer groundwater contours
- MW-237 Black: value used for Intermediate Aquifer groundwater contours
- MW-254 Green: Memphis Aquifer, not contoured

Projection: NAD 1927 StatePlane Tennessee
Units: Feet



Date: December 2010
Edition: Rev 0



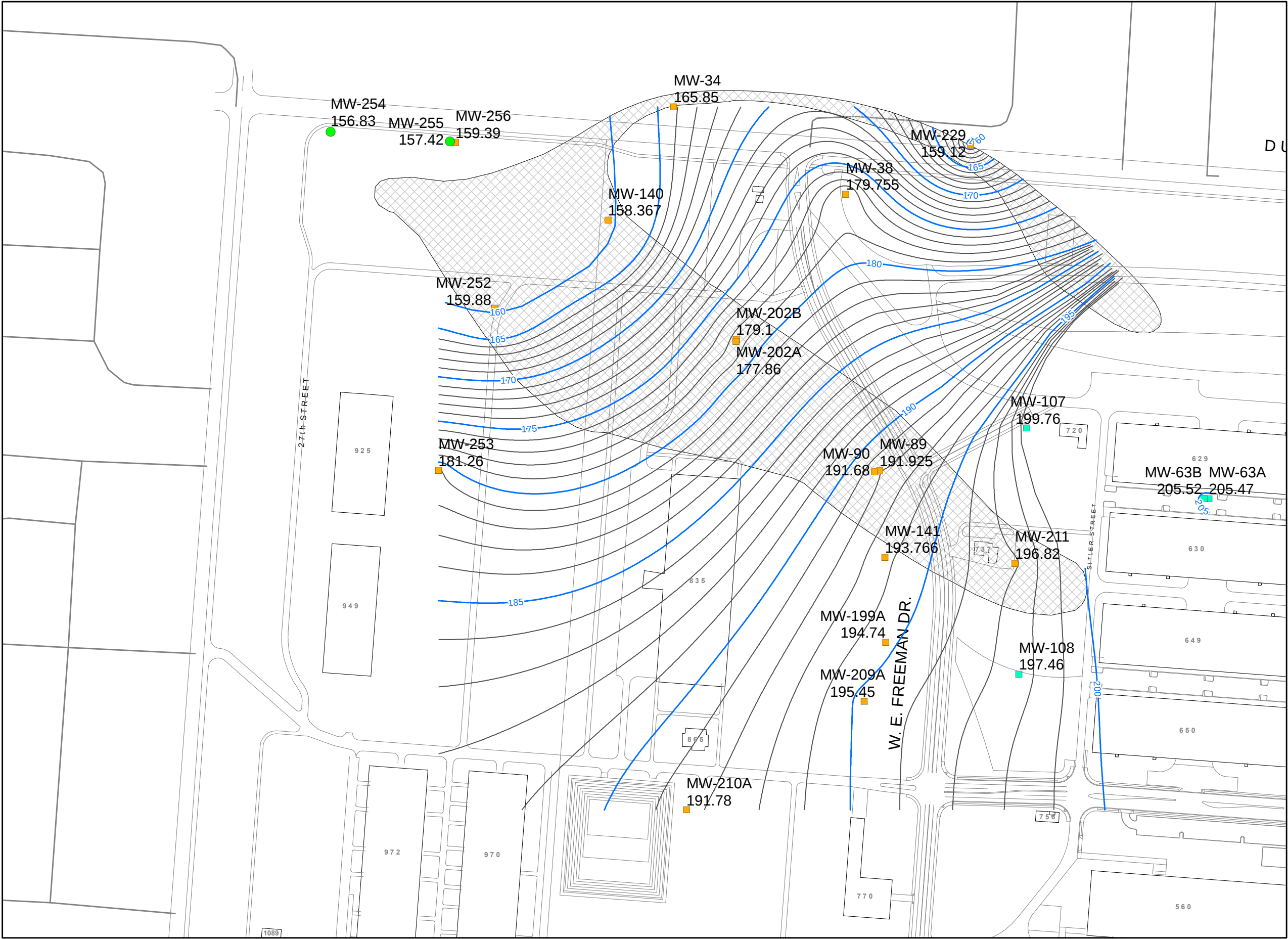


Figure 3
INTERMEDIATE AND
MEMPHIS AQUIFER
GROUNDWATER
ELEVATIONS

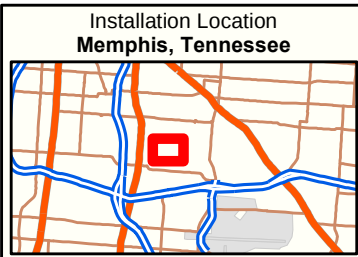
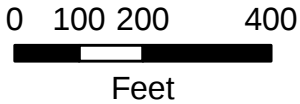
OCTOBER 2010 LONG-TERM
MONITORING REPORT

MAIN INSTALLATION
DEFENSE DEPOT
MEMPHIS, TENNESSEE

Legend

- Monitoring Well Screened in the Fluvial Aquifer
- Monitoring Well Screened in the Transition Zone
- Monitoring Well Screened in the Intermediate Aquifer
- Monitoring Well Screened in the Memphis Aquifer
- Potentiometric surface 1 - Ft. Contour
- Potentiometric surface 5 - Ft. Contour
- ▨ Clay Elevation Exceeds Fluvial Aquifer Groundwater Elevation
- MW-63 205.52 Groundwater Elevation (msl)

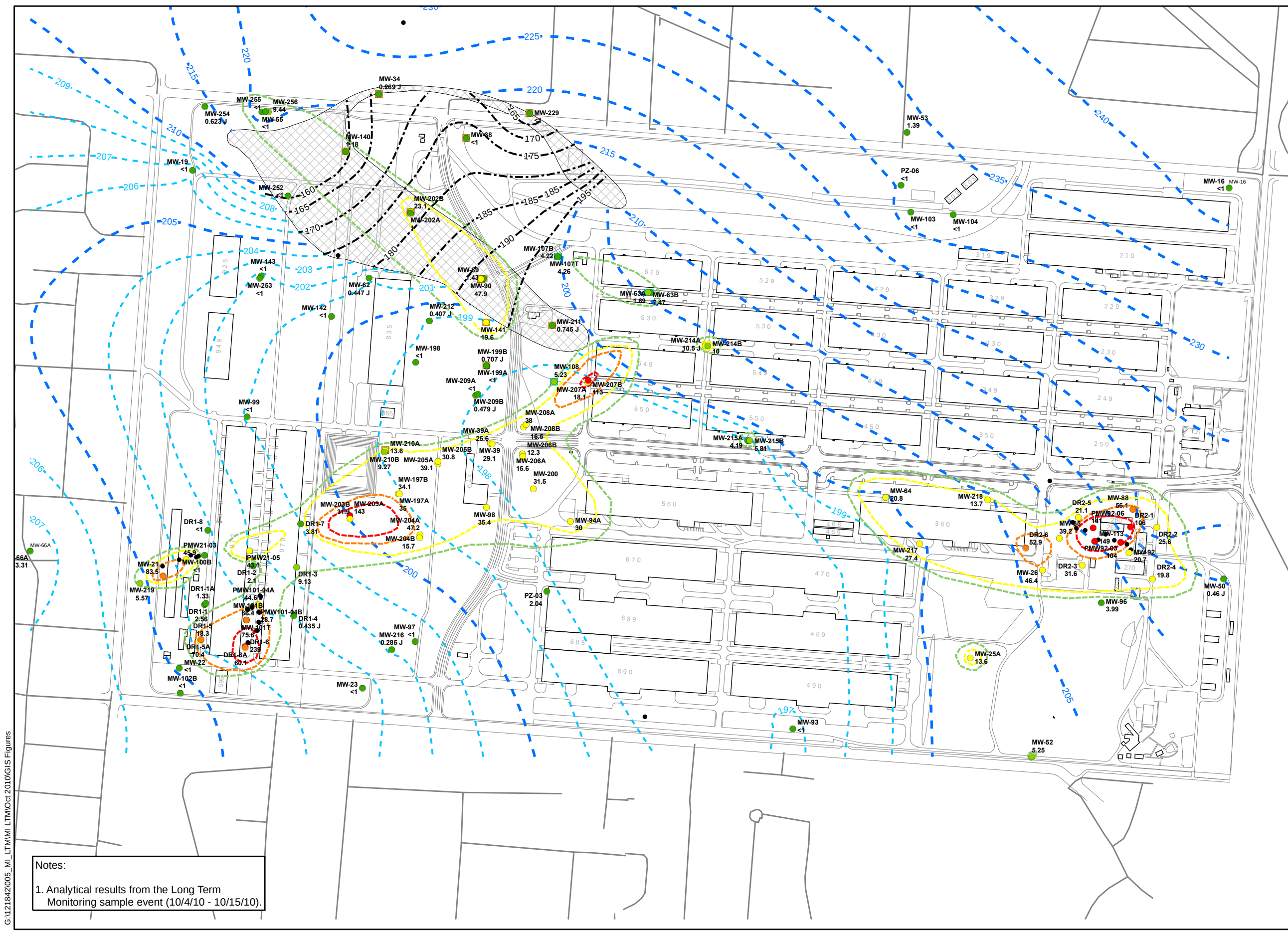
Projection: NAD 1927 StatePlane Tennessee
Units: Feet



Date: December 2010
Edition: Rev 0



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Notes:
1. Analytical results from the Long Term Monitoring sample event (10/4/10 - 10/15/10).

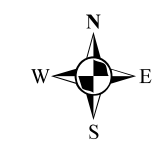
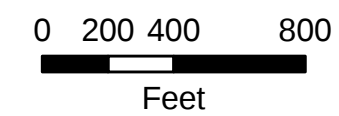


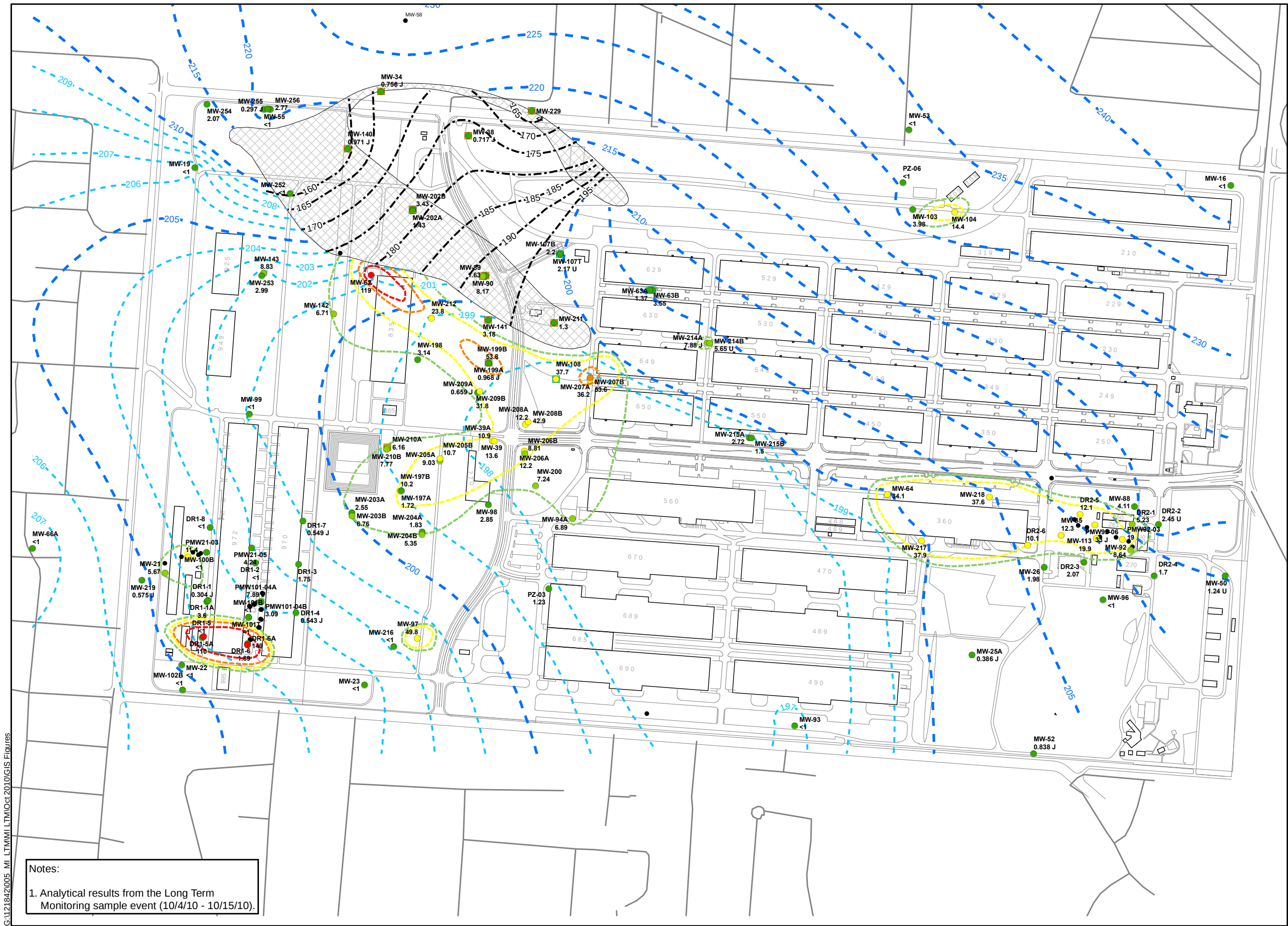
Figure 4
PCE ISOPLETH MAP
OCTOBER 2010 LONG-TERM MONITORING REPORT
MAIN INSTALLATION DEFENSE DEPOT
MEMPHIS, TENNESSEE

- Legend**
- PCE Ranges ug/L**
- 0 - 5
 - 5 - 10
 - 10 - 50
 - 50 - 100
 - 100 - 300
- PCE Isopleth ug/L**
- 5
 - 10
 - 50
 - 100
- Clay Elevation Exceeds Groundwater Elevation
- Potentiometric surface of the Fluvial Aquifer 1-ft. contour
- Potentiometric surface of the Fluvial Aquifer 5-ft. contour
- Potentiometric surface of the Intermediate Aquifer 5-ft. contour

Projection: NAD 1927 StatePlane Tennessee
Units: Feet



G:\121842\005 MI LTM\MI LTM\Oct 2010\GIS Figures



Notes:

1. Analytical results from the Long Term Monitoring sample event (10/4/10 - 10/15/10).



Figure 5

TCE ISOPLETH MAP

OCTOBER 2010 LONG-TERM MONITORING REPORT

MAIN INSTALLATION DEFENSE DEPOT
MEMPHIS, TENNESSEE

Legend

TCE Ranges
ug/L

- 0 - 5
- 5 - 10
- 10 - 50
- 50 - 100
- 100 - 300

TCE Isopleth
ug/L

- 5
- 10
- 50
- 100

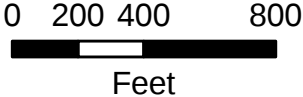
Clay Elevation Exceeds Groundwater Elevation

Potentiometric surface of the Fluvial Aquifer 1-ft. contour

Potentiometric surface of the Fluvial Aquifer 5-ft. contour

Potentiometric surface of the Intermediate Aquifer 5-ft. contour

Projection: NAD 1927 StatePlane Tennessee
Units: Feet



Date: December 2010
Edition: Rev 0



Appendix A

Results of Laboratory Analyses

TABLE A-1
ANALYTICAL RESULTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

Analyte	Well ID Date Lab ID Units	DR1-1	DR1-1A	DR1-2	DR1-3	DR1-4	DR1-5
		10/9/2010	10/9/2010	10/5/2010	10/6/2010	10/6/2010	10/5/2010
		L10100302-01	L10100302-17	L10100199-11	L10100199-33	L10100199-34	L10100199-14
1,1,1,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/L	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
1,4-Dichlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1-Chlorohexane	µg/L	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
2-Hexanone	µg/L	<10	<10	<10	<10	<10	<10
4-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
Acetone	µg/L	<10	<10	<10	<10	<10	<10
Benzene	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Bromobenzene	µg/L	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/L	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	µg/L	<1	<1	<1	<1	<1	<1
Bromomethane	µg/L	<1	<1 Q	<1	<1	<1	<1
Carbon disulfide	µg/L	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	µg/L	<1	<1	<1 Q	<1	<1	<1 Q
Chlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	µg/L	<1	<1	<1 M	<1	<1	<1 Q
Chloroform	µg/L	<0.3	0.348	0.179 F	<0.3	<0.3	<0.3
Chloromethane	µg/L	0.532 F	0.617 F	<1	0.759 F	<1	<1
cis-1,2-Dichloroethene	µg/L	1.26	0.42 F	0.805 F	<1	<1	<1
cis-1,3-Dichloropropene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/L	<1	<1	<1 Q	<1	<1	<1 Q
Ethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/L	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Isopropylbenzene	µg/L	<1	<1	<1	<1	<1	<1
m-, p-Xylene	µg/L	<2	<2	<2	<2	<2	<2
MEK (2-Butanone)	µg/L	<10	<10	<10	<10	<10	<10
Methyl t-butyl ether (MTBE)	µg/L	<5	<5	<5	<5	<5	4.06 F
Methylene chloride	µg/L	<1	<1	<1	<1	<1	<1
MIBK (methyl isobutyl ketone)	µg/L	<10	<10	<10	<10 Q	<10 Q	<10
Naphthalene	µg/L	<1	<1	<1	<1	<1	<1
n-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
n-Propylbenzene	µg/L	<1	<1	<1	<1	<1	<1
o-Xylene	µg/L	<1	<1	<1	<1	<1	<1
p-Isopropyltoluene	µg/L	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Styrene	µg/L	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Tetrachloroethene	µg/L	2.56	1.33	2.1	9.13	0.435 F	18.3
Toluene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	0.304 F	3.6	<1	1.75	0.543 F	<1
Trichlorofluoromethane	µg/L	<1	<1	<1 Q	<1	<1	<1 Q
Vinyl chloride	µg/L	<1	<1	<1	<1	<1	<1

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

<: Not detected at sample reporting limit

DQE FLAGS:

F: Concentration estimated below RL and above the MDL

M: Concentration estimated due to matrix effect

Q: One or more quality control criteria failed.

TABLE A-1
ANALYTICAL RESULTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

Analyte	Well ID Date Lab ID Units	DR1-5A	DR1-6	DR1-6A	DR1-7	DR1-7 DUP-10	DR1-8
		10/5/2010	10/5/2010	10/5/2010	10/5/2010	10/5/2010	10/6/2010
		L10100199-15	L10100199-16	L10100199-17	L10100199-18	L10100199-21	L10100199-35
1,1,1,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/L	0.176 F	<1	0.207 F	<1	<1	<1
1,1-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/L	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.416 F
1,2-Dichloropropane	µg/L	0.433 F	<1	0.476 F	<1	<1	<1
1,3,5-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
1,4-Dichlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1-Chlorohexane	µg/L	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
2-Hexanone	µg/L	<10	<10	<10	<10	<10	<10
4-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
Acetone	µg/L	<10	<10	<10	<10	<10	<10
Benzene	µg/L	<0.4	<0.4	0.149 F	<0.4	<0.4	<0.4
Bromobenzene	µg/L	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/L	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	µg/L	<1	<1	<1	<1	<1	<1
Bromomethane	µg/L	<1	<1	<1	<1	<1	<1
Carbon disulfide	µg/L	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	µg/L	<1 Q	<1 Q	<1 Q	<1 Q	<1 Q	<1 Q
Chlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	µg/L	<1 Q	<1 Q	<1 Q	<1 Q	<1 Q	<1 Q
Chloroform	µg/L	0.197 F	<0.3	0.271 F	0.169 F	0.15 F	<0.3
Chloromethane	µg/L	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	µg/L	3.88	1.69	5.08	0.525 F	0.501 F	<1
cis-1,3-Dichloropropene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/L	<1 Q	<1 Q	<1 Q	<1 Q	<1 Q	<1 Q
Ethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/L	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Isopropylbenzene	µg/L	<1	<1	<1	<1	<1	<1
m-, p-Xylene	µg/L	<2	<2	<2	<2	<2	<2
MEK (2-Butanone)	µg/L	<10	<10	<10	<10	<10	<10
Methyl t-butyl ether (MTBE)	µg/L	5.64	<5	<5	<5	<5	<5
Methylene chloride	µg/L	<1	<1	<1	<1	<1	<1
MIBK (methyl isobutyl ketone)	µg/L	<10	<10	<10	<10	<10	<10
Naphthalene	µg/L	<1	<1	<1	<1	<1	<1
n-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
n-Propylbenzene	µg/L	<1	<1	<1	<1	<1	<1
o-Xylene	µg/L	<1	<1	<1	<1	<1	<1
p-Isopropyltoluene	µg/L	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Styrene	µg/L	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Tetrachloroethene	µg/L	70.4	239	60.1	3.81	3.7	<1
Toluene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	110	1.89	149	0.549 F	0.408 F	<1
Trichlorofluoromethane	µg/L	<1 Q	<1 Q	<1 Q	<1 Q	<1 Q	<1 Q
Vinyl chloride	µg/L	<1	<1	<1	<1	<1	<1

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

<: Not detected at sample reporting limit

DQE FLAGS:

F: Concentration estimated below RL and above the

M: Concentration estimated due to matrix effect

Q: One or more quality control criteria failed.

TABLE A-1
ANALYTICAL RESULTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

Analyte	Well ID Date Lab ID Units	DR2-1	DR2-2	DR2-3	DR2-4	DR2-5	DR2-6
		10/14/2010	10/12/2010	10/6/2010	10/13/2010	10/13/2010	10/7/2010
		L10100482-03	L10100407-19	L10100199-29	L10100407-27	L10100407-28	L10100252-14
1,1,1,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	µg/L	<1	<1	<1	<1	19.7	9.15
1,2,4-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/L	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/L	<1	<1	<1	<1	0.241 F	<1
1,2-Dichloroethane	µg/L	<0.5 Q	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	µg/L	<1	<1	<1	<1	0.456 F	<1
1,3,5-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
1,4-Dichlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1-Chlorohexane	µg/L	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/L	<1 Q	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
2-Hexanone	µg/L	<10	<10	<10	<10	<10	<10
4-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
Acetone	µg/L	<10	<10	<10	<10	6.7 F	<10
Benzene	µg/L	<0.4	<0.4	<0.4	<0.4	0.169 F	<0.4
Bromobenzene	µg/L	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/L	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	µg/L	<1	<1	<1	<1	<1	<1
Bromomethane	µg/L	<1	<1	<1	<1	<1	<1
Carbon disulfide	µg/L	<1	<1	<1	<1	0.689 F	<1
Carbon tetrachloride	µg/L	13.2	4.87 Q	5.81 Q	4.56 Q	25 Q	74.4
Chlorobenzene	µg/L	0.171 F	<0.5	<0.5	<0.5	0.407 F	<0.5
Chloroethane	µg/L	<1	<1 Q	<1 Q	<1 Q	<1 Q	<1
Chloroform	µg/L	6.9	0.63	0.828	0.716	21.5	16.1
Chloromethane	µg/L	<1	<1 Q	<1	<1	<1	<1
cis-1,2-Dichloroethene	µg/L	14.3	1.06	0.674 F	0.373 F	105	18.5
cis-1,3-Dichloropropene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/L	<1	<1	<1 Q	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/L	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Isopropylbenzene	µg/L	<1	<1	<1	<1	<1	<1
m-, p-Xylene	µg/L	<2	<2	<2	<2	<2	<2
MEK (2-Butanone)	µg/L	<10	<10	<10	<10	<10	<10
Methyl t-butyl ether (MTBE)	µg/L	<5	<5	<5	<5	<5	<5
Methylene chloride	µg/L	<1	<1	<1	<1	<1	<1
MIBK (methyl isobutyl ketone)	µg/L	<10	<10	<10	<10	<10	<10 Q
Naphthalene	µg/L	<1	<1	<1	<1	<1	<1
n-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
n-Propylbenzene	µg/L	<1	<1	<1	<1	<1	<1
o-Xylene	µg/L	<1	<1	<1	<1	<1	<1
p-Isopropyltoluene	µg/L	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Styrene	µg/L	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Tetrachloroethene	µg/L	106	25.6	31.6	19.8	21.1	52.9
Toluene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	5.23	2.45	2.07	1.7	12.1	10.1
Trichlorofluoromethane	µg/L	<1 Q	<1 Q	<1 Q	<1	<1	<1
Vinyl chloride	µg/L	<1	<1	<1	<1	<1	<1

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

<: Not detected at sample reporting limit

DQE FLAGS:

F: Concentration estimated below RL and above the

M: Concentration estimated due to matrix effect

Q: One or more quality control criteria failed.

TABLE A-1
ANALYTICAL RESULTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

Analyte	Well ID Date Lab ID Units	PMW21-03 10/5/2010 L10100199-19	PMW21-03 DUP-1 10/5/2010 L10100199-22	PMW21-05 10/6/2010 L10100199-36	PMW92-03 10/4/2010 L10100199-06	PMW92-06 10/4/2010 L10100199-07	PMW101-04A 10/14/2010 L10100482-04
1,1,1,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	µg/L	<1	<1	<1	<1	105	<1
1,2,4-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/L	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/L	<1	<1	<1	<1	0.305 F	<1
1,2-Dichloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	0.577	<0.5
1,2-Dichloropropane	µg/L	<1	<1	<1	0.232 F	0.736 F	<1
1,3,5-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
1,4-Dichlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1-Chlorohexane	µg/L	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
2-Hexanone	µg/L	<10	<10	<10	<10	<10	<10
4-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
Acetone	µg/L	3.89 F	3.55 F	<10	7.14 F	<10	3.44 F
Benzene	µg/L	<0.4	<0.4	<0.4	<0.4	0.131 F	<0.4
Bromobenzene	µg/L	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/L	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	µg/L	<1	<1	<1	<1	<1	<1
Bromomethane	µg/L	<1	<1	<1	<1	<1	<1
Carbon disulfide	µg/L	<1	<1	<1	<1	<1 M	<1
Carbon tetrachloride	µg/L	<1 Q	<1 Q	<1	<1	110 M	<1
Chlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	0.216 F	<0.5
Chloroethane	µg/L	<1 Q	<1 Q	<1	<1	<1	<1
Chloroform	µg/L	<0.3	<0.3	<0.3	0.26 F	41.1	<0.3
Chloromethane	µg/L	<1	<1	<1	<1	<1	0.612 F
cis-1,2-Dichloroethene	µg/L	0.687 F	0.727 F	0.798 F	83	68.5 M	13.5 J
cis-1,3-Dichloropropene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/L	<1 Q	<1 Q	<1	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/L	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Isopropylbenzene	µg/L	<1	<1	<1	<1	<1	<1
m-, p-Xylene	µg/L	<2	<2	<2	<2	<2	<2
MEK (2-Butanone)	µg/L	<10	<10	<10	<10	<10	<10
Methyl t-butyl ether (MTBE)	µg/L	15.1	14.7	<5	<5	<5	1.07 F
Methylene chloride	µg/L	<1	<1	<1	<1	<1	0.366 F
MIBK (methyl isobutyl ketone)	µg/L	<10	<10	<10 Q	<10	<10	<10
Naphthalene	µg/L	<1	<1	<1	<1	<1	<1
n-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
n-Propylbenzene	µg/L	<1	<1	<1	<1	<1	<1
o-Xylene	µg/L	<1	<1	<1	<1	<1	<1
p-Isopropyltoluene	µg/L	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Styrene	µg/L	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Tetrachloroethene	µg/L	45.9	44.7	43.1	104	141 M	44.6 J
Toluene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	11.4	11	4.24	19	33 M	7.89 J
Trichlorofluoromethane	µg/L	<1 Q	<1 Q	<1	<1	<1	<1
Vinyl chloride	µg/L	<1	<1	<1	0.528 F	0.379 F	<1

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

<: Not detected at sample reporting limit

DQE FLAGS:

F: Concentration estimated below RL and above the

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Q: One or more quality control criteria failed.

TABLE A-1
ANALYTICAL RESULTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID Date Lab ID Units	PMW101-04B 10/5/2010 L10100199-20	PZ-03 10/15/2010 L10100482-11	PZ-06 10/15/2010 L10100482-12	PZ-06 DUP-12 10/15/2010 L10100482-13	MW-16 10/13/2010 L10100407-22	MW-19 10/11/2010 L10100302-18
Analyte							
1,1,1,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/L	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	<0.5	<0.5 Q	<0.5 Q	<0.5 Q	<0.5	<0.5
1,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
1,4-Dichlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1-Chlorohexane	µg/L	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/L	<1	<1 Q	<1 Q	<1 Q	<1	<1
2-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
2-Hexanone	µg/L	<10	<10	<10	<10	<10	<10
4-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
Acetone	µg/L	<10	10.6	7.13 F	4.36 F	3.13 F	<10
Benzene	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Bromobenzene	µg/L	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/L	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	µg/L	<1	<1	<1	<1	<1	<1
Bromomethane	µg/L	<1	<1	<1	<1	<1	<1 Q
Carbon disulfide	µg/L	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	µg/L	<1 Q	<1	<1	<1	<1	<1
Chlorobenzene	µg/L	<0.5	0.133 F	<0.5	0.133 F	<0.5	<0.5
Chloroethane	µg/L	<1 Q	<1	<1	<1	<1 Q	<1
Chloroform	µg/L	<0.3	0.203 F	<0.3	<0.3	<0.3	<0.3
Chloromethane	µg/L	<1	0.604 F	<1	<1	<1 Q	<1
cis-1,2-Dichloroethene	µg/L	<1	0.287 F	<1	<1	<1	<1
cis-1,3-Dichloropropene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/L	<1 Q	<1	<1	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/L	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Isopropylbenzene	µg/L	<1	<1	<1	<1	<1	<1
m-, p-Xylene	µg/L	<2	<2	<2	<2	<2	<2
MEK (2-Butanone)	µg/L	<10	<10	<10	<10	<10	<10
Methyl t-butyl ether (MTBE)	µg/L	1.12 F	<5	<5	<5	<5	<5
Methylene chloride	µg/L	<1	<1	<1	<1	<1	<1
MIBK (methyl isobutyl ketone)	µg/L	<10	<10	<10	<10	<10	<10
Naphthalene	µg/L	<1	<1	<1	<1	<1	<1
n-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
n-Propylbenzene	µg/L	<1	<1	<1	<1	<1	<1
o-Xylene	µg/L	<1	<1	<1	<1	<1	<1
p-Isopropyltoluene	µg/L	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Styrene	µg/L	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Tetrachloroethene	µg/L	28.7	2.04	<1	<1	<1	<1
Toluene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	3.09	1.23	<1	<1	<1	<1
Trichlorofluoromethane	µg/L	<1 Q	<1 Q	<1 Q	<1 Q	<1	<1
Vinyl chloride	µg/L	<1	<1	<1	<1	<1	<1

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

<: Not detected at sample reporting limit

DQE FLAGS:

F: Concentration estimated below RL and above the

M: Concentration estimated due to matrix effect

Q: One or more quality control criteria failed.

TABLE A-1
ANALYTICAL RESULTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

Analyte	Well ID Date Lab ID Units	MW-21	MW-22	MW-23	MW-24	MW-25A	MW-26
		10/6/2010	10/12/2010	10/12/2010	10/14/2010	10/7/2010	10/7/2010
		L10100199-30	L10100407-01	L10100407-02	L10100482-05	L10100252-01	L10100252-02
1,1,1,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/L	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	0.671	<0.5	<0.5	<0.5 Q	<0.5	<0.5
1,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
1,4-Dichlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1-Chlorohexane	µg/L	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/L	<1	<1	<1	<1 Q	<1	<1
2-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
2-Hexanone	µg/L	<10	<10	<10	<10	<10	<10
4-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
Acetone	µg/L	<10	<10	<10	<10	<10	<10
Benzene	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Bromobenzene	µg/L	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/L	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	µg/L	<1	<1	<1	<1	<1	<1
Bromomethane	µg/L	<1	<1	<1	<1	<1	<1
Carbon disulfide	µg/L	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	µg/L	<1	<1	<1	<1	2.74	9.18
Chlorobenzene	µg/L	<0.5	<0.5	<0.5	0.128 F	<0.5	<0.5
Chloroethane	µg/L	<1	<1	<1	<1	<1	<1
Chloroform	µg/L	<0.3	<0.3	<0.3	<0.3	0.411	1.79
Chloromethane	µg/L	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	µg/L	2.39	<1	<1	<1	<1	0.606 F
cis-1,3-Dichloropropene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/L	<1	<1	<1	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/L	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Isopropylbenzene	µg/L	<1	<1	<1	<1	<1	<1
m-, p-Xylene	µg/L	<2	<2	<2	<2	<2	<2
MEK (2-Butanone)	µg/L	<10	<10	<10	<10	<10	<10
Methyl t-butyl ether (MTBE)	µg/L	<5	<5	<5	<5	0.506 F	<5
Methylene chloride	µg/L	<1	<1	<1	<1	<1	<1
MIBK (methyl isobutyl ketone)	µg/L	<10 Q	<10	<10	<10	<10	<10
Naphthalene	µg/L	<1	<1	<1	<1	<1	<1
n-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
n-Propylbenzene	µg/L	<1	<1	<1	<1	<1	<1
o-Xylene	µg/L	<1	<1	<1	<1	<1	<1
p-Isopropyltoluene	µg/L	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Styrene	µg/L	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Tetrachloroethene	µg/L	83.5	<1	<1	<1	13.6	46.4
Toluene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	5.67	<1	<1	<1	0.386 F	1.98
Trichlorofluoromethane	µg/L	<1	<1	<1	<1 Q	<1	<1
Vinyl chloride	µg/L	<1	<1	<1	<1	<1	<1

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

<: Not detected at sample reporting limit

DQE FLAGS:

F: Concentration estimated below RL and above the

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TABLE A-1
ANALYTICAL RESULTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID	MW-34	MW-38	MW-38 DUP-1	MW-39	MW-39A	MW-50
	Date	10/6/2010	10/9/2010	10/9/2010	10/9/2010	10/9/2010	10/13/2010
	Lab ID	L10100199-26	L10100302-02	L10100302-10	L10100302-03	L10100302-04	L10100407-07
Analyte	Units						
1,1,1,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/L	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
1,4-Dichlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1-Chlorohexane	µg/L	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
2-Hexanone	µg/L	<10	<10	<10	<10	<10	<10
4-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
Acetone	µg/L	<10	<10	<10	<10	<10	<10
Benzene	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Bromobenzene	µg/L	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/L	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	µg/L	<1	<1	<1	<1	<1	<1
Bromomethane	µg/L	<1	<1	<1	<1	<1	<1
Carbon disulfide	µg/L	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	µg/L	0.572 Q	<1	<1	<1	<1	<1 Q
Chlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	µg/L	<1 Q	<1	<1	<1	<1	<1 Q
Chloroform	µg/L	0.325	0.141 F	0.16 F	<0.3	<0.3	0.281 F
Chloromethane	µg/L	<1	<1	<1	<1	<1	<1 Q
cis-1,2-Dichloroethene	µg/L	<1	<1	<1	18.3	36	0.297 F
cis-1,3-Dichloropropene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/L	<1 Q	<1	<1	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/L	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Isopropylbenzene	µg/L	<1	<1	<1	<1	<1	<1
m-, p-Xylene	µg/L	<2	<2	<2	<2	<2	<2
MEK (2-Butanone)	µg/L	<10	<10	<10	<10	<10	<10
Methyl t-butyl ether (MTBE)	µg/L	<5	<5	<5	<5	<5	1.88 F
Methylene chloride	µg/L	<1	<1	<1	<1	<1	<1
MIBK (methyl isobutyl ketone)	µg/L	<10	<10	<10	<10	<10	<10
Naphthalene	µg/L	<1	<1	<1	<1	<1	<1
n-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
n-Propylbenzene	µg/L	<1	<1	<1	<1	<1	<1
o-Xylene	µg/L	<1	<1	<1	<1	<1	<1
p-Isopropyltoluene	µg/L	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Styrene	µg/L	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Tetrachloroethene	µg/L	0.269 F	<1	<1	29.1	25.6	0.46 F
Toluene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	0.756 F	0.717 F	0.637 F	13.6	10.9	1.24
Trichlorofluoromethane	µg/L	<1 Q	<1	<1	<1	<1	<1 Q
Vinyl chloride	µg/L	<1	<1	<1	0.414 F	<1	<1

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

<: Not detected at sample reporting limit

DQE FLAGS:

F: Concentration estimated below RL and above the

M: Concentration estimated due to matrix effect

Q: One or more quality control criteria failed.

TABLE A-1
ANALYTICAL RESULTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

Analyte	Well ID Date Lab ID Units	MW-52	MW-53	MW-55	MW-62	MW-63A	MW-63B
		10/7/2010	10/13/2010	10/11/2010	10/14/2010	10/7/2010	10/7/2010
		L10100252-03	L10100407-08	L10100302-19	L10100482-06	L10100252-18	L10100252-19
1,1,1,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/L	<1	<1	<1	<1	<1	0.992 F
1,1-Dichloroethene	µg/L	<1	<1	<1	0.557 F	<1	0.628 F
1,1-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/L	<1	<1 Q	<1	<1	<1	<1
1,2,3-Trichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/L	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	<0.5	<0.5	<0.5	<0.5 Q	<0.5	<0.5
1,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
1,4-Dichlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1-Chlorohexane	µg/L	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/L	<1	<1	<1	<1 Q	<1	<1
2-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
2-Hexanone	µg/L	<10	<10	<10	<10	<10	<10
4-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
Acetone	µg/L	<10	<10 Q	<10	<10	<10	<10
Benzene	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Bromobenzene	µg/L	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/L	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/L	<0.5	<0.5 M	<0.5	<0.5	<0.5	<0.5
Bromoform	µg/L	<1	<1	<1	<1	<1	<1
Bromomethane	µg/L	<1	<1 Q	<1 Q	<1	<1	<1
Carbon disulfide	µg/L	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	µg/L	<1	<1	<1	0.577 F	<1	<1
Chlorobenzene	µg/L	<0.5	<0.5	<0.5	0.147 F	<0.5	<0.5
Chloroethane	µg/L	<1	<1	<1	<1	<1	<1
Chloroform	µg/L	0.893	<0.3	<0.3	0.291 F	<0.3	1.71
Chloromethane	µg/L	<1	<1 Q	<1	<1	0.641 F	<1
cis-1,2-Dichloroethene	µg/L	0.608 F	<1	<1	<1	<1	0.372 F
cis-1,3-Dichloropropene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/L	<1	<1	<1	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/L	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Isopropylbenzene	µg/L	<1	<1	<1	<1	<1	<1
m-, p-Xylene	µg/L	<2	<2	<2	<2	<2	<2
MEK (2-Butanone)	µg/L	<10	<10	<10	<10	<10	<10
Methyl t-butyl ether (MTBE)	µg/L	<5	0.533 F	<5	<5	0.794 F	<5
Methylene chloride	µg/L	<1	<1	<1	<1	<1	<1
MIBK (methyl isobutyl ketone)	µg/L	<10	<10	<10	<10	<10 Q	<10 Q
Naphthalene	µg/L	<1	<1	<1	<1	<1	<1
n-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
n-Propylbenzene	µg/L	<1	<1	<1	<1	<1	<1
o-Xylene	µg/L	<1	<1	<1	<1	<1	<1
p-Isopropyltoluene	µg/L	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Styrene	µg/L	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Tetrachloroethene	µg/L	5.25	1.39	<1	0.447 F	1.69	7.47
Toluene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	0.838 F	<1	<1	119	1.37	3.55
Trichlorofluoromethane	µg/L	<1	<1	<1	<1 Q	<1	<1
Vinyl chloride	µg/L	<1	<1	<1	<1	<1	<1

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

<: Not detected at sample reporting limit

DQE FLAGS:

F: Concentration estimated below RL and above the

M: Concentration estimated due to matrix effect

Q: One or more quality control criteria failed.

TABLE A-1
ANALYTICAL RESULTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

Analyte	Well ID Date Lab ID Units	MW-64 10/7/2010 L10100252-04	MW-64 DUP-2 10/7/2010 L10100252-15	MW-66A 10/12/2010 L10100407-03	MW-85 10/14/2010 L10100482-01	MW-88 10/4/2010 L10100199-05	MW-89 10/8/2010 L10100252-05
1,1,1,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/L	1.11	0.98	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	0.682 F	0.707 F	<1	<1	<1	<1
1,1-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	µg/L	<1	<1	<1	7.28	<1	<1
1,2,4-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/L	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	0.529	0.494 F	0.574	<0.5 Q	<0.5	<0.5
1,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
1,4-Dichlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1-Chlorohexane	µg/L	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/L	<1	<1	<1	<1 Q	<1	<1
2-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
2-Hexanone	µg/L	<10	<10	<10	<10	<10	<10
4-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
Acetone	µg/L	<10	<10	<10	<10	<10	<10
Benzene	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Bromobenzene	µg/L	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/L	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	µg/L	<1	<1	<1	<1	<1	<1
Bromomethane	µg/L	<1	<1	<1 Q	<1	<1	<1 Q
Carbon disulfide	µg/L	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	µg/L	3.08	3.17	<1	121	10.5	0.261 F
Chlorobenzene	µg/L	<0.5	<0.5	<0.5	0.243 F	<0.5	<0.5
Chloroethane	µg/L	<1	<1	<1	<1	<1	<1
Chloroform	µg/L	1.17	1.2	<0.3	27.1	1.85	0.212 F
Chloromethane	µg/L	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	µg/L	0.423 F	0.453 F	<1	9.47	2.54	<1
cis-1,3-Dichloropropene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	<0.5	<0.5	<0.5 Q	<0.5	<0.5	<0.5
Dibromomethane	µg/L	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/L	<1	<1	<1	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/L	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Isopropylbenzene	µg/L	<1	<1	<1	<1	<1	<1
m-, p-Xylene	µg/L	<2	<2	<2	<2	<2	<2
MEK (2-Butanone)	µg/L	<10	<10	<10	<10	<10	<10
Methyl t-butyl ether (MTBE)	µg/L	<5	<5	<5	<5	<5	<5
Methylene chloride	µg/L	<1	<1	<1	<1	<1	<1
MIBK (methyl isobutyl ketone)	µg/L	<10	<10 Q	<10	<10	<10	<10
Naphthalene	µg/L	<1	<1	<1	<1	<1	<1
n-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
n-Propylbenzene	µg/L	<1	<1	<1	<1	<1	<1
o-Xylene	µg/L	<1	<1	<1	<1	<1	<1
p-Isopropyltoluene	µg/L	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Styrene	µg/L	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Tetrachloroethene	µg/L	20.8	20.9	3.31	39.2	56.1	1.43
Toluene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	34.1	34.8	<1	12.3	4.11	1.63
Trichlorofluoromethane	µg/L	<1	<1	<1	<1 Q	<1	<1
Vinyl chloride	µg/L	<1	<1	<1	<1	<1	<1

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

<: Not detected at sample reporting limit

DQE FLAGS:

F: Concentration estimated below RL and above the

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TABLE A-1
ANALYTICAL RESULTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID Date Lab ID Units	MW-A190 10/8/2010 L10100252-06	MW-92 10/9/2010 L10100302-05	MW-93 10/14/2010 L10100482-02	MW-94A 10/11/2010 L10100302-20	MW-96 10/7/2010 L10100252-07	MW-96 DUP-3 10/7/2010 L10100252-16
Analyte							
1,1,1,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	0.365 F	<0.5	<0.5
1,1,2-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/L	1.03	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	0.834 F	<1	<1	<1	<1	<1
1,1-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/L	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
1,4-Dichlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1-Chlorohexane	µg/L	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
2-Hexanone	µg/L	<10	<10	<10	<10	<10	<10
4-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
Acetone	µg/L	<10	5.46 F	<10	<10	<10	<10
Benzene	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Bromobenzene	µg/L	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/L	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	µg/L	<1	<1	<1	<1	<1	<1
Bromomethane	µg/L	<1 Q	<1	<1	<1 Q	<1	<1
Carbon disulfide	µg/L	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	µg/L	<1	<1	<1	<1	2.45	2.94
Chlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	µg/L	<1	<1	<1	<1	<1	<1
Chloroform	µg/L	4.07	<0.3	<0.3	<0.3	0.557	0.572
Chloromethane	µg/L	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	µg/L	0.483 F	119	<1	3.17	0.34 F	0.381 F
cis-1,3-Dichloropropene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/L	<1	<1	<1	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/L	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Isopropylbenzene	µg/L	<1	<1	<1	<1	<1	<1
m-, p-Xylene	µg/L	<2	<2	<2	<2	<2	<2
MEK (2-Butanone)	µg/L	<10	<10	<10	<10	<10	<10
Methyl t-butyl ether (MTBE)	µg/L	<5	<5	<5	<5	<5	<5
Methylene chloride	µg/L	<1	<1	<1	<1	<1	<1
MIBK (methyl isobutyl ketone)	µg/L	<10	<10	<10	<10	<10	<10 Q
Naphthalene	µg/L	<1	<1	<1	<1	<1	<1
n-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
n-Propylbenzene	µg/L	<1	<1	<1	<1	<1	<1
o-Xylene	µg/L	<1	<1	<1	<1	<1	<1
p-Isopropyltoluene	µg/L	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Styrene	µg/L	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Tetrachloroethene	µg/L	47.9	20.7	<1	30	3.99	4.13
Toluene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	8.17	8.64	<1	6.89	<1	<1
Trichlorofluoromethane	µg/L	<1	<1	<1	<1	<1	<1
Vinyl chloride	µg/L	<1	0.314 F	<1	<1	<1	<1

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

<: Not detected at sample reporting limit

DQE FLAGS:

F: Concentration estimated below RL and above the

M: Concentration estimated due to matrix effect

Q: One or more quality control criteria failed.

TABLE A-1
ANALYTICAL RESULTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

Analyte	Well ID Date Lab ID Units	MW-97	MW-98	MW-99	MW-100B	MW-101T	MW-101B
		10/9/2010	10/9/2010	10/12/2010	10/6/2010	10/13/2010	10/13/2010
		L10100302-13	L10100302-06	L10100407-04	L10100199-31	L10100407-23	L10100407-26
1,1,1,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/L	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5 Q	<0.5
1,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
1,4-Dichlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1-Chlorohexane	µg/L	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1 Q	<1
2-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
2-Hexanone	µg/L	<10	<10	<10	<10	<10	<10
4-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
Acetone	µg/L	<10	<10	<10	<10	<10	2.66 F
Benzene	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Bromobenzene	µg/L	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/L	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	µg/L	<1	<1	<1	<1	<1	<1
Bromomethane	µg/L	<1 Q	<1	<1	<1	<1	<1
Carbon disulfide	µg/L	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	µg/L	<1	<1	<1	<1 Q	<1	<1 Q
Chlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	0.126 F	<0.5
Chloroethane	µg/L	<1	<1	<1	<1 Q	<1	<1 Q
Chloroform	µg/L	0.368	0.127 F	0.252 F	<0.3	<0.3	<0.3
Chloromethane	µg/L	<1	<1	<1	1.04	<1	<1
cis-1,2-Dichloroethene	µg/L	<1	0.502 F	<1	11	<1	0.264 F
cis-1,3-Dichloropropene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/L	<1	<1	<1	<1 Q	<1 M	<1
Ethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/L	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Isopropylbenzene	µg/L	<1	<1	<1	<1	<1	<1
m-, p-Xylene	µg/L	<2	<2	<2	<2	<2	<2
MEK (2-Butanone)	µg/L	<10	<10	<10	<10	<10	<10
Methyl t-butyl ether (MTBE)	µg/L	<5	<5	<5	60.1	2.76 F	2.41 F
Methylene chloride	µg/L	<1	<1	<1	<1	<1	<1
MIBK (methyl isobutyl ketone)	µg/L	<10	<10	<10	<10	<10	<10
Naphthalene	µg/L	<1	<1	<1	<1	<1	<1
n-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
n-Propylbenzene	µg/L	<1	<1	<1	<1	<1	<1
o-Xylene	µg/L	<1	<1	<1	<1	<1	<1
p-Isopropyltoluene	µg/L	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Styrene	µg/L	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Tetrachloroethene	µg/L	<1	35.4	<1	<1	75.6 M	66.4
Toluene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	49.8	2.85	<1	<1	<1	<1
Trichlorofluoromethane	µg/L	<1	<1	<1	<1 Q	<1 Q	<1
Vinyl chloride	µg/L	<1	<1	<1	132	<1	<1

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

<: Not detected at sample reporting limit

DQE FLAGS:

F: Concentration estimated below RL and above the

M: Concentration estimated due to matrix effect

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TABLE A-1
ANALYTICAL RESULTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID	MW-102B	MW-103	MW-104	MW-104 DUP-4	MW-107T	MW-107B
	Date	10/11/2010	10/7/2010	10/7/2010	10/7/2010	10/13/2010	10/13/2010
	Lab ID	L10100302-21	L10100252-20	L10100252-21	L10100252-26	L10100407-11	L10100407-12
Analyte	Units						
1,1,1,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/L	<1	2.68	1.15	0.936 F	<1	<1
1,1-Dichloroethene	µg/L	<1	1.98	1.96	1.54	<1	<1
1,1-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/L	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
1,4-Dichlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1-Chlorohexane	µg/L	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
2-Hexanone	µg/L	<10	<10	<10	<10	<10	<10
4-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
Acetone	µg/L	<10	<10	<10	<10	<10	<10
Benzene	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Bromobenzene	µg/L	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/L	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	µg/L	<1	<1	<1	<1	<1	<1
Bromomethane	µg/L	<1 Q	<1	<1	<1	<1	<1
Carbon disulfide	µg/L	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	µg/L	<1	<1	<1	<1	0.6 Q	0.629 Q
Chlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	µg/L	<1	<1	<1	<1	<1 Q	<1 Q
Chloroform	µg/L	<0.3	7.78	10.2	7.98	0.357	0.375
Chloromethane	µg/L	<1	<1	<1	<1	0.718 Q	0.743 F
cis-1,2-Dichloroethene	µg/L	<1	0.386 F	0.477 F	0.399 F	<1	0.252 F
cis-1,3-Dichloropropene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/L	<1	<1	<1	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/L	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Isopropylbenzene	µg/L	<1	<1	<1	<1	<1	<1
m-, p-Xylene	µg/L	<2	<2	<2	<2	<2	<2
MEK (2-Butanone)	µg/L	<10	<10	<10	<10	<10	<10
Methyl t-butyl ether (MTBE)	µg/L	<5	<5	<5	<5	<5	<5
Methylene chloride	µg/L	<1	<1	<1	<1	<1	<1
MIBK (methyl isobutyl ketone)	µg/L	<10	<10 Q	<10	<10	<10	<10
Naphthalene	µg/L	<1	<1	<1	<1	<1	<1
n-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
n-Propylbenzene	µg/L	<1	<1	<1	<1	<1	<1
o-Xylene	µg/L	<1	<1	<1	<1	<1	<1
p-Isopropyltoluene	µg/L	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Styrene	µg/L	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Tetrachloroethene	µg/L	<1	<1	<1	<1	4.26	4.22
Toluene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	<1	3.98	14.4	11.1	2.17	2.2
Trichlorofluoromethane	µg/L	<1	<1	<1	<1	<1 Q	<1
Vinyl chloride	µg/L	<1	<1	<1	<1	<1	<1

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

<: Not detected at sample reporting limit

DQE FLAGS:

F: Concentration estimated below RL and above the

M: Concentration estimated due to matrix effect

Q: One or more quality control criteria failed.

TABLE A-1
ANALYTICAL RESULTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID	MW-108	MW-113	MW-140	MW-141	MW-142	MW-143
	Date	10/12/2010	10/14/2010	10/13/2010	10/8/2010	10/9/2010	10/12/2010
	Lab ID	L10100407-13	L10100482-07	L10100407-14	L10100252-08	L10100302-14	L10100407-05
Analyte	Units						
1,1,1,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/L	0.55 F	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	0.779 F	<1	<1	<1	<1	<1
1,1-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	µg/L	<1	7.27	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/L	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	<0.5	<0.5 Q	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	µg/L	<1	0.333 F	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
1,4-Dichlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1-Chlorohexane	µg/L	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/L	<1	<1 Q	<1	<1	<1	<1
2-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
2-Hexanone	µg/L	<10	<10	<10	<10	<10	<10
4-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
Acetone	µg/L	<10	<10	<10	<10	<10	<10
Benzene	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Bromobenzene	µg/L	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/L	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	µg/L	<1	<1	<1	<1	<1	<1
Bromomethane	µg/L	<1	<1	<1	<1 Q	<1 Q	<1
Carbon disulfide	µg/L	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	µg/L	<1 Q	77.3	<1 Q	<1	<1	<1
Chlorobenzene	µg/L	<0.5	0.205 F	<0.5	<0.5	<0.5	<0.5
Chloroethane	µg/L	<1 Q	<1	<1 Q	<1	<1	<1
Chloroform	µg/L	11.9	24.3	0.242 F	2.06	<0.3	<0.3
Chloromethane	µg/L	<1 Q	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	µg/L	0.744 F	29.7	<1	<1	<1	<1
cis-1,3-Dichloropropene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/L	<1	<1	<1	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/L	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Isopropylbenzene	µg/L	<1	<1	<1	<1	<1	<1
m-, p-Xylene	µg/L	<2	<2	<2	<2	<2	<2
MEK (2-Butanone)	µg/L	<10	<10	<10	<10	<10	<10
Methyl t-butyl ether (MTBE)	µg/L	<5	<5	0.532 F	<5	6.93	6.4
Methylene chloride	µg/L	<1	<1	<1	<1	<1	<1
MIBK (methyl isobutyl ketone)	µg/L	<10	<10	<10	<10	<10	<10
Naphthalene	µg/L	<1	<1	<1	<1	<1	<1
n-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
n-Propylbenzene	µg/L	<1	<1	<1	<1	<1	<1
o-Xylene	µg/L	<1	<1	<1	<1	<1	<1
p-Isopropyltoluene	µg/L	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Styrene	µg/L	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Tetrachloroethene	µg/L	5.23	149	1.18	19.6	<1	<1
Toluene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	µg/L	<1	0.358 F	<1	<1	<1	<1
trans-1,3-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	37.7	19.9	0.971 F	3.18	6.71	8.83
Trichlorofluoromethane	µg/L	<1 Q	<1 Q	<1	<1	<1	<1
Vinyl chloride	µg/L	<1	<1	<1	<1	<1	<1

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

<: Not detected at sample reporting limit

DQE FLAGS:

F: Concentration estimated below RL and above the

M: Concentration estimated due to matrix effect

Q: One or more quality control criteria failed.

TABLE A-1
ANALYTICAL RESULTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID Date Lab ID Units	MW-197A 10/11/2010 L10100302-24	MW-197A DUP-5 10/11/2010 L10100302-34	MW-197B 10/11/2010 L10100302-25	MW-198 10/8/2010 L10100252-27	MW-199A 10/7/2010 L10100252-22	MW-199B 10/8/2010 L10100252-09
Analyte							
1,1,1,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/L	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
1,4-Dichlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1-Chlorohexane	µg/L	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
2-Hexanone	µg/L	<10	<10	<10	<10	<10	<10
4-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
Acetone	µg/L	<10	<10	<10	<10	<10	<10
Benzene	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Bromobenzene	µg/L	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/L	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	µg/L	<1	<1	<1	<1	<1	<1
Bromomethane	µg/L	<1 Q	<1 Q	<1 Q	<1 Q	<1	<1 Q
Carbon disulfide	µg/L	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	µg/L	<1	<1	<1	<1	<1	0.287 F
Chlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	µg/L	<1	<1	<1	<1	<1	<1
Chloroform	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chloromethane	µg/L	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	µg/L	1.84	1.84	9.66	<1	<1	<1
cis-1,3-Dichloropropene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/L	<1	<1	<1	<1	<1 M	<1
Ethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/L	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Isopropylbenzene	µg/L	<1	<1	<1	<1	<1	<1
m-, p-Xylene	µg/L	<2	<2	<2	<2	<2	<2
MEK (2-Butanone)	µg/L	<10	<10	<10	<10	<10	<10
Methyl t-butyl ether (MTBE)	µg/L	<5	<5	<5	<5	2.82 F	<5
Methylene chloride	µg/L	<1	<1	<1	<1	<1	<1
MIBK (methyl isobutyl ketone)	µg/L	<10	<10	<10	<10	<10	<10
Naphthalene	µg/L	<1	<1	<1	<1	<1	<1
n-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
n-Propylbenzene	µg/L	<1	<1	<1	<1	<1	<1
o-Xylene	µg/L	<1	<1	<1	<1	<1	<1
p-Isopropyltoluene	µg/L	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Styrene	µg/L	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Tetrachloroethene	µg/L	35	35.2	34.1	<1	<1	0.707 F
Toluene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	1.72	1.61	10.2	3.14	0.968 F	53.8
Trichlorofluoromethane	µg/L	<1	<1	<1	<1	<1	<1
Vinyl chloride	µg/L	<1	<1	3.99	<1	<1	<1

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

<: Not detected at sample reporting limit

DQE FLAGS:

F: Concentration estimated below RL and above the

M: Concentration estimated due to matrix effect

Q: One or more quality control criteria failed.

TABLE A-1
ANALYTICAL RESULTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID	MW-200	MW-202A	MW-202B	MW-203A	MW-203B	MW-204A
	Date	10/11/2010	10/9/2010	10/9/2010	10/9/2010	10/11/2010	10/8/2010
	Lab ID	L10100302-22	L10100302-07	L10100302-08	L10100302-15	L10100302-26	L10100252-28
Analyte	Units						
1,1,1,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/L	<1	<1	0.589 F	<1	<1	<1
1,1-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/L	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
1,4-Dichlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1-Chlorohexane	µg/L	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
2-Hexanone	µg/L	<10	<10	<10	<10	<10	<10
4-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
Acetone	µg/L	<10	<10	<10	<10	<10	<10
Benzene	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Bromobenzene	µg/L	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/L	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	µg/L	<1	<1	<1	<1	<1	<1
Bromomethane	µg/L	<1	<1	<1	<1 Q	<1 Q	<1 Q
Carbon disulfide	µg/L	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	µg/L	<1	<1	<1	<1	<1	<1
Chlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	µg/L	<1	<1	<1	<1	<1	<1
Chloroform	µg/L	<0.3	0.21 F	1.46	<0.3	<0.3	<0.3
Chloromethane	µg/L	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	µg/L	16.7	<1	0.299 F	5.32	6.65	4.36
cis-1,3-Dichloropropene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/L	<1	<1	<1	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/L	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Isopropylbenzene	µg/L	<1	<1	<1	<1	<1	<1
m-, p-Xylene	µg/L	<2	<2	<2	<2	<2	<2
MEK (2-Butanone)	µg/L	<10	<10	<10	<10	<10	<10
Methyl t-butyl ether (MTBE)	µg/L	<5	<5	<5	<5	0.789 F	<5
Methylene chloride	µg/L	<1	<1	<1	<1	<1	<1
MIBK (methyl isobutyl ketone)	µg/L	<10	<10	<10	<10	<10	<10
Naphthalene	µg/L	<1	<1	<1	<1	<1	<1
n-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
n-Propylbenzene	µg/L	<1	<1	<1	<1	<1	<1
o-Xylene	µg/L	<1	<1	<1	<1	<1	<1
p-Isopropyltoluene	µg/L	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Styrene	µg/L	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Tetrachloroethene	µg/L	31.5	1	23.1	143	31.9	47.2
Toluene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	7.24	1.43	3.43	2.55	6.76	1.83
Trichlorofluoromethane	µg/L	<1	<1	<1	<1	<1	<1
Vinyl chloride	µg/L	<1	<1	<1	<1	5.11	<1

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

<: Not detected at sample reporting limit

DQE FLAGS:

F: Concentration estimated below RL and above the

M: Concentration estimated due to matrix effect

Q: One or more quality control criteria failed.

TABLE A-1
ANALYTICAL RESULTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID Date Lab ID Units	MW-204A DUP-6 10/8/2010 L10100252-32	MW-204B 10/11/2010 L10100302-27	MW-205A 10/8/2010 L10100252-29	MW-205B 10/11/2010 L10100302-28	MW-206A 10/8/2010 L10100252-30	MW-206B 10/8/2010 L10100252-10
Analyte							
1,1,1,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/L	<0.5	1.52	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/L	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
1,4-Dichlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1-Chlorohexane	µg/L	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
2-Hexanone	µg/L	<10	<10	<10	<10	<10	<10
4-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
Acetone	µg/L	<10	<10	<10	<10	<10	<10
Benzene	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Bromobenzene	µg/L	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/L	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	µg/L	<1	<1	<1	<1	<1	<1
Bromomethane	µg/L	<1 Q	<1 Q	<1 Q	<1 Q	<1 Q	<1 Q
Carbon disulfide	µg/L	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	µg/L	<1	<1	<1	<1	<1	<1
Chlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	µg/L	<1	<1	<1	<1	<1	<1
Chloroform	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chloromethane	µg/L	<1	<1	0.516 F	<1	<1	<1
cis-1,2-Dichloroethene	µg/L	4.14	1.11	25.2	13.5	13.5	6.68
cis-1,3-Dichloropropene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/L	<1	<1	<1	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/L	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Isopropylbenzene	µg/L	<1	<1	<1	<1	<1	<1
m-, p-Xylene	µg/L	<2	<2	<2	<2	<2	<2
MEK (2-Butanone)	µg/L	<10	<10	<10	<10	<10	<10
Methyl t-butyl ether (MTBE)	µg/L	<5	<5	<5	<5	<5	<5
Methylene chloride	µg/L	<1	<1	<1	<1	<1	<1
MIBK (methyl isobutyl ketone)	µg/L	<10	<10	<10	<10	<10	<10
Naphthalene	µg/L	<1	<1	<1	<1	<1	<1
n-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
n-Propylbenzene	µg/L	<1	<1	<1	<1	<1	<1
o-Xylene	µg/L	<1	<1	<1	<1	<1	<1
p-Isopropyltoluene	µg/L	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Styrene	µg/L	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Tetrachloroethene	µg/L	43.8	15.7	39.1	30.8	15.6	12.3
Toluene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	1.58	5.35	9.03	10.7	12.2	8.81
Trichlorofluoromethane	µg/L	<1	<1	<1	<1	<1	<1
Vinyl chloride	µg/L	<1	<1	1.2	4.59	<1	<1

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

<: Not detected at sample reporting limit

DQE FLAGS:

F: Concentration estimated below RL and above the

M: Concentration estimated due to matrix effect

Q: One or more quality control criteria failed.

TABLE A-1
ANALYTICAL RESULTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID	MW-207A	MW-207B	MW-208A	MW-208B	MW-209A	MW-209A DUP-7
	Date	10/14/2010	10/12/2010	10/8/2010	10/8/2010	10/9/2010	10/9/2010
	Lab ID	L10100482-08	L10100407-15	L10100252-31	L10100252-11	L10100302-09	L10100302-11
Analyte	Units						
1,1,1,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/L	0.68 F	0.205 F	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	0.849 F	<1	<1	<1	<1	<1
1,1-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/L	<1	<1 Q	<1	<1	<1	<1
1,2,3-Trichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/L	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	<0.5 Q	0.462 F	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
1,4-Dichlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1-Chlorohexane	µg/L	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/L	<1 Q	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
2-Hexanone	µg/L	<10	<10	<10	<10	<10	<10
4-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
Acetone	µg/L	<10	<10 Q	<10	<10	<10	<10
Benzene	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Bromobenzene	µg/L	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/L	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	µg/L	<1	<1	<1	<1	<1	<1
Bromomethane	µg/L	<1	<1 Q	<1 Q	<1 Q	<1	<1 Q
Carbon disulfide	µg/L	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	µg/L	<1	1.85	<1	<1	<1	<1
Chlorobenzene	µg/L	0.163 F	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	µg/L	<1	<1	<1	<1	<1	<1
Chloroform	µg/L	12.1	6.99	<0.3	0.262 F	0.134 F	<0.3
Chloromethane	µg/L	<1	<1 Q	<1	<1	<1	<1
cis-1,2-Dichloroethene	µg/L	0.768 F	0.9 F	25.7	1.45	<1	<1
cis-1,3-Dichloropropene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/L	<1	<1	<1	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/L	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Isopropylbenzene	µg/L	<1	<1	<1	<1	<1	<1
m-, p-Xylene	µg/L	<2	<2	<2	<2	<2	<2
MEK (2-Butanone)	µg/L	<10	<10	<10	<10	<10	<10
Methyl t-butyl ether (MTBE)	µg/L	<5	0.772 F	<5	<5	2.7 F	2.12 F
Methylene chloride	µg/L	<1	<1	<1	<1	<1	<1
MIBK (methyl isobutyl ketone)	µg/L	<10	<10	<10	<10	<10	<10
Naphthalene	µg/L	<1	<1	<1	<1	<1	<1
n-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
n-Propylbenzene	µg/L	<1	<1	<1	<1	<1	<1
o-Xylene	µg/L	<1	<1	<1	<1	<1	<1
p-Isopropyltoluene	µg/L	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Styrene	µg/L	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Tetrachloroethene	µg/L	18.1	113	38	16.5	<1	<1
Toluene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	36.2	53.6	12.2	42.9	0.659 F	0.695 F
Trichlorofluoromethane	µg/L	<1 Q	<1	<1	<1	<1	<1
Vinyl chloride	µg/L	<1	<1	<1	<1	<1	<1

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

<: Not detected at sample reporting limit

DQE FLAGS:

F: Concentration estimated below RL and above the

M: Concentration estimated due to matrix effect

Q: One or more quality control criteria failed.

TABLE A-1
ANALYTICAL RESULTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

Analyte	Well ID	MW-209B	MW-210A	MW-210B	MW-211	MW-212	MW-214A
	Date	10/8/2010	10/11/2010	10/11/2010	10/13/2010	10/15/2010	10/7/2010
	Lab ID	L10100252-12	L10100302-29	L10100302-30	L10100407-16	L10100482-09	L10100252-25
Units							
1,1,1,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/L	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
1,4-Dichlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1-Chlorohexane	µg/L	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
2-Hexanone	µg/L	<10	<10	<10	<10	<10	<10
4-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
Acetone	µg/L	<10	<10	<10	<10	<10	<10
Benzene	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Bromobenzene	µg/L	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/L	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/L	<0.5	<0.5	<0.5 M	<0.5	<0.5	<0.5
Bromoform	µg/L	<1	<1	<1	<1	<1	<1
Bromomethane	µg/L	<1 Q	<1 Q	<1 Q	<1	<1	<1
Carbon disulfide	µg/L	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	µg/L	0.659 F	<1	<1	0.344 Q	0.323 F	1.12 J
Chlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	µg/L	<1	<1	<1	<1 Q	<1	<1
Chloroform	µg/L	0.217 F	0.13 F	<0.3	0.218 F	<0.3	5.01 J
Chloromethane	µg/L	<1	<1	<1 M	<1	<1	<1
cis-1,2-Dichloroethene	µg/L	<1	2.25	1.1	<1	<1	<1
cis-1,3-Dichloropropene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/L	<1	<1	<1	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/L	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Isopropylbenzene	µg/L	<1	<1	<1	<1	<1	<1
m-, p-Xylene	µg/L	<2	<2	<2	<2	<2	<2
MEK (2-Butanone)	µg/L	<10	<10	<10	<10	<10	<10
Methyl t-butyl ether (MTBE)	µg/L	<5	0.681 F	<5	<5	<5	3.87 F
Methylene chloride	µg/L	<1	<1	<1	<1	<1	<1
MIBK (methyl isobutyl ketone)	µg/L	<10	<10	<10	<10	<10	<10
Naphthalene	µg/L	<1	<1	<1	<1	<1	<1
n-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
n-Propylbenzene	µg/L	<1	<1	<1	<1	<1	<1
o-Xylene	µg/L	<1	<1	<1	<1	<1	<1
p-Isopropyltoluene	µg/L	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Styrene	µg/L	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Tetrachloroethene	µg/L	0.479 F	13.6	9.27	0.745 F	0.407 F	10.5 J
Toluene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	31.8	6.16	7.77	1.3	23.8	7.88 J
Trichlorofluoromethane	µg/L	<1	<1	<1	<1	<1	<1
Vinyl chloride	µg/L	<1	<1	<1 M	<1	<1	<1

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

<: Not detected at sample reporting limit

DQE FLAGS:

F: Concentration estimated below RL and above the

M: Concentration estimated due to matrix effect

Q: One or more quality control criteria failed.

TABLE A-1
ANALYTICAL RESULTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

	Well ID	MW-214B	MW-215A	MW-215B	MW-215B DUP-8	MW-216	MW-217
	Date	10/12/2010	10/6/2010	10/12/2010	10/12/2010	10/9/2010	10/7/2010
	Lab ID	L10100407-17	L10100199-32	L10100407-18	L10100407-21	L10100302-16	L10100252-13
Analyte	Units						
1,1,1,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.403 F
1,1,2-Trichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/L	<1	<1	<1 Q	<1	<1	<1
1,2,3-Trichloropropane	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/L	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.316 F
1,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	0.23 F
1,3,5-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
1,4-Dichlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1-Chlorohexane	µg/L	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/L	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
2-Hexanone	µg/L	<10	<10	<10	<10	<10	<10
4-Chlorotoluene	µg/L	<1	<1	<1	<1	<1	<1
Acetone	µg/L	<10	<10	<10 Q	<10	<10	<10
Benzene	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Bromobenzene	µg/L	<1	<1	<1	<1	<1	<1
Bromochloromethane	µg/L	<1	<1	<1	<1	<1	<1
Bromodichloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	µg/L	<1	<1	<1	<1	<1	<1
Bromomethane	µg/L	<1	<1	<1 Q	<1	<1 Q	<1
Carbon disulfide	µg/L	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	µg/L	1.08 Q	0.747 F	1.23	1.3 Q	<1	48.8
Chlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	µg/L	<1 Q	<1	<1	<1 Q	<1	<1
Chloroform	µg/L	3.79	1.03	0.63	0.569	<0.3	3.73
Chloromethane	µg/L	<1 Q	<1	<1 Q	<1 Q	<1	<1
cis-1,2-Dichloroethene	µg/L	<1	<1	<1	<1	<1	0.819 F
cis-1,3-Dichloropropene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/L	0.315 F	0.263 F	<1	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/L	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Isopropylbenzene	µg/L	<1	<1	<1	<1	<1	<1
m-, p-Xylene	µg/L	<2	<2	<2	<2	<2	<2
MEK (2-Butanone)	µg/L	<10	<10	<10	<10	<10	<10
Methyl t-butyl ether (MTBE)	µg/L	2.36 F	0.971 F	1.27 F	1.39 F	<5	<5
Methylene chloride	µg/L	<1	<1	<1	<1	<1	<1
MIBK (methyl isobutyl ketone)	µg/L	<10	<10 Q	<10	<10	<10	<10 Q
Naphthalene	µg/L	<1	<1	<1	<1	<1	<1
n-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
n-Propylbenzene	µg/L	<1	<1	<1	<1	<1	<1
o-Xylene	µg/L	<1	<1	<1	<1	<1	<1
p-Isopropyltoluene	µg/L	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Styrene	µg/L	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/L	<1	<1	<1	<1	<1	<1
Tetrachloroethene	µg/L	10	4.19	5.81	6.36	0.285 F	27.4
Toluene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	µg/L	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	µg/L	<1	<1	<1	<1	<1	<1
Trichloroethene	µg/L	5.65	2.72	1.5	1.45	<1	37.9
Trichlorofluoromethane	µg/L	<1 Q	<1	<1	<1 Q	<1	0.585 F
Vinyl chloride	µg/L	<1	<1	<1	<1	<1	<1

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

<: Not detected at sample reporting limit

DQE FLAGS:

F: Concentration estimated below RL and above the

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TABLE A-1
ANALYTICAL RESULTS
OCTOBER 2010 LONG TERM MONITORING REPORT
Main Installation - Defense Depot Memphis, Tennessee

Analyte	Well ID Date Lab ID Units	MW-218	MW-219	MW-229	MW-254	MW-255
		10/14/2010	10/6/2010	10/6/2010	10/5/2010	10/5/2010
		L10100482-10	L10100199-27	L10100199-28	L10100199-23	L10100199-24
1,1,1,2-Tetrachloroethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	µg/L	1.18	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	µg/L	<1	<1	<1	<1	<1
1,1-Dichloroethane	µg/L	<1	<1	<1	<1	<1
1,1-Dichloroethene	µg/L	<1	<1	<1	<1	<1
1,1-Dichloropropene	µg/L	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	µg/L	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	µg/L	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	µg/L	<2	<2	<2	<2	<2
1,2-Dibromoethane	µg/L	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1
1,2-Dichloroethane	µg/L	0.536 Q	0.645	<0.5	<0.5	<0.5
1,2-Dichloropropane	µg/L	0.534 F	<1	<1	<1	<1
1,3,5-Trimethylbenzene	µg/L	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	µg/L	<1	<1	<1	<1	<1
1,3-Dichloropropane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4
1,4-Dichlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
1-Chlorohexane	µg/L	<1	<1	<1	<1	<1
2,2-Dichloropropane	µg/L	<1 Q	<1	<1	<1	<1
2-Chlorotoluene	µg/L	<1	<1	<1	<1	<1
2-Hexanone	µg/L	<10	<10	<10	<10	<10
4-Chlorotoluene	µg/L	<1	<1	<1	<1	<1
Acetone	µg/L	<10	<10	<10	<10	<10
Benzene	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4
Bromobenzene	µg/L	<1	<1	<1	<1	<1
Bromochloromethane	µg/L	<1	<1	<1	<1	<1
Bromodichloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	µg/L	<1	<1	<1	<1	<1
Bromomethane	µg/L	<1	<1	<1	<1 Q	<1 Q
Carbon disulfide	µg/L	<1	<1	1.09	<1	<1
Carbon tetrachloride	µg/L	8.81	<1 Q	<1 Q	0.872 F	<1
Chlorobenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	µg/L	<1	<1 Q	<1 Q	<1	<1
Chloroform	µg/L	2.98	<0.3	<0.3	0.223 F	<0.3
Chloromethane	µg/L	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	µg/L	0.373 F	<1	<1	<1	<1
cis-1,3-Dichloropropene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	<1	<1	<1	<1	<1
Dichlorodifluoromethane	µg/L	<1	<1 Q	<1 Q	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/L	<0.6	<0.6	<0.6	<0.6	<0.6
Isopropylbenzene	µg/L	<1	<1	<1	<1	<1
m-, p-Xylene	µg/L	<2	<2	<2	<2	<2
MEK (2-Butanone)	µg/L	<10	<10	<10	<10	<10
Methyl t-butyl ether (MTBE)	µg/L	<5	<5	<5	<5	<5
Methylene chloride	µg/L	<1	<1	<1	<1	<1
MIBK (methyl isobutyl ketone)	µg/L	<10	<10	<10	<10	<10
Naphthalene	µg/L	<1	<1	<1	<1	<1
n-Butylbenzene	µg/L	<1	<1	<1	<1	<1
n-Propylbenzene	µg/L	<1	<1	<1	<1	<1
o-Xylene	µg/L	<1	<1	<1	<1	<1
p-Isopropyltoluene	µg/L	<1	<1	<1	<1	<1
sec-Butylbenzene	µg/L	<1	<1	<1	<1	<1
Styrene	µg/L	<1	<1	<1	<1	<1
tert-Butylbenzene	µg/L	<1	<1	<1	<1	<1
Tetrachloroethene	µg/L	13.7	5.57	<1	0.623 F	<1
Toluene	µg/L	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	µg/L	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	µg/L	<1	<1	<1	<1	<1
Trichloroethene	µg/L	37.6	0.575 F	<1	2.07	0.297 F
Trichlorofluoromethane	µg/L	0.786 Q	<1 Q	<1 Q	<1	<1
Vinyl chloride	µg/L	<1	<1	<1	<1	<1

VOC samples analyzed using method 8260B

µg/L : micrograms per liter

<: Not detected at sample reporting limit

DQE FLAGS:

F: Concentration estimated below RL and above the

M: Concentration estimated due to matrix effect

Q: One or more quality control criteria failed.