Impact Area Groundwater Study Program

FINAL

Demolition Area 1

Technical Memorandum

Response Action Groundwater Treatment System Alternatives Analysis

Camp Edwards

Massachusetts Military Reservation

Cape Cod, Massachusetts

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DISCLAIMER

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ABBREVIATIONS, ACRONYMS, AND SYMBOLS

COC	contaminant of concern
DD	Decision Document
Demo 1	Demolition Area 1
EW	extraction well
ETR	Extraction, Treatment, and Recharge
ft/d	feet per day
ft/ft	feet per foot
FPR	Frank Perkins Road
GHB	General Head Boundary
gpm	gallons per minute
GVW	Groundwater Vistas
IAGWSP	Impact Area Groundwater Study Program
IX	ion exchange
LUC	Land Use Controls
msl	mean sea level
MCP	Massachusetts Contingency Plan
MTU	Modular Treatment Unit
MW	Monitoring well
ppb	parts per billion
RBC	risk based concentration
RDX	hexahydro-1,3,5-trinitro-1,3,5-triazine
RMS	root mean square
RRA	Rapid Response Action
RSS	residual sum of squares
TOM	top of mound
µg/L	micrograms per liter
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey

1.0 INTRODUCTION

1.1 Purpose

The purpose of this Technical Memorandum is to present an assessment of the entire Demolition Area 1 (Demo 1) groundwater plume (including the off-base, leading edge portion) through a range of cleanup alternatives, and to provide the basis for an update to the remedy for Demo 1 which will be documented in a Decision Document (DD) Addendum by September 30, 2013. The Technical Memorandum covers additional data collected, updates to the groundwater model, and an alternatives analysis.

1.2 Background

The investigation and cleanup at Demolition Area 1 is being conducted pursuant to United States Environmental Protection Agency (USEPA) Administrative Order SDWA 1-2000-0014 (AO3) and in consideration of the substantive cleanup standards of the Massachusetts Contingency Plan (MCP). The USEPA selected an enhanced Alternative 5 as the remedy in the November 1, 2006 Decision Document for Demolition Area 1 (USEPA, 2006). Alternative 5 includes the extraction of groundwater from five extraction wells at a total pumping rate of 906 gallons per minute (gpm) (continued operation of the two Rapid Response Action (RRA) Extraction, Treatment, and Recharge (ETR) systems and installation of three additional extraction wells); natural attenuation of the leading edge of the plume downgradient of Pew Road; and recharge of the treated groundwater into the aquifer using a total of four injection wells (three RRA wells, plus one new well). The enhancement to Alternative 5 included a contingency to add additional extraction wells if the plume was found to migrate further than expected.

The Alternative 5 remedy was expected to obtain risk-based levels of 0.6 parts per billion (ppb) for hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) in 11 years (2018) while reducing perchlorate concentrations to less than 2 ppb within the same timeframe. The remedy was also expected to achieve background levels in 19 years (2026).

The leading edge of the Demo 1 groundwater plume has been a concern since the finalization of the DD. Insight into the trajectory of the plume was gained in November 2009 when perchlorate was found over the detection limit in monitoring well 95-14, and in December 2010 when perchlorate was found at 12 ppb in MW-545, near the base boundary.

An off-site investigation consisting of 11 profile borings (DP-551 through DP-558, and MW-559, MW-560 and MW-565) were advanced beginning January 2011 and ending in September 2011. The profile samples obtained from DP-551 through DP-555 reached depths ranging from approximately negative 35 ft msl (DP-553) to negative 65 ft msl (DP-552). These borings were advanced using a direct push rig. The remainder of the borings were completed using a sonic drill rig with boring depths ranging from negative 130 ft msl (DP-558) to negative 170 ft msl (MW-565). Monitoring well couplets were subsequently completed at locations DP-554, DP-556, DP-558 and DP-559. Monitoring well MW-554M1/M2 was installed in April 2011 while wells MW-556M1/M2, MW-558M1/M2 and MW-559M1/M2 were installed in November 2011.

To further characterize the perchlorate plume west of Lily Pond, eight borings were advanced. This work was done in three separate mobilization efforts. The first effort involved advancing borings MW-568 through MW-571 in November 2011. Profile samples were collected over depths ranging from 6 ft msl to negative 179 ft msl. These borings were advanced approximately 850 feet to 1,000 feet west of Lily Pond. A second mobilization occurred in June 2012, and consisted of borings BH-581, BH-582 and BH-583. These borings were advanced in June/July 2012 and were advanced approximately 2,000 feet downgradient of Lily Pond. Sample depths extended to depths between negative 127 ft msl (BH-581) to negative 137 ft msl (BH-583). Boring BH-598 (C-2) was located along County Road, approximately 675 feet downgradient of BH-582, and was advanced in February 2013 and extended to a depth of negative 110 feet msl. Monitoring well couplets (M1/M2 well screens) were completed at borings MW-569, MW-571, BH-582, and BH-598 in February/March 2013.

As a result of the *"Demolition Area 1 Groundwater Plume, Leading Edge Modeling Presentation, dated September 13, 2012"* (USACE, 2012b), USEPA required that additional hydraulic data be collected to make adjustments to the groundwater model and improve the groundwater modeling of the alternatives. USEPA stated that the Technical Memorandum must address both the on-base and off-base portions of the plume; include modeling that accurately reflects the hydraulic conditions and is verified by field data; and include alternatives that achieve cleanup by the current goals in the Decision Document.

2.0 DEMOLITION AREA 1 ETR SYSTEMS OPERATION

This section describes the Pew Road, Frank Perkins Road (FPR), and Base Boundary Extraction, Treatment, and Recharge (ETR) systems, including basic system performance metrics from startup through March 2013. More detailed data and information on system operations is presented regularly in annual reports. Most recently, the reporting period September 2011 through August 2012 was presented in the Draft Demolition Area 1 Environmental and System Performance Monitoring Report (USACE, 2013).

2.1 Pew Road Extraction, Treatment, and Recharge System

The Pew Road ETR system consists of a modular treatment unit (MTU) housed in an 8-foot by 40-foot shipping container. The MTU at Pew Road is a portable self-contained treatment system designed to effectively remove explosives and perchlorate from groundwater at a flow rate up to 110 gpm. The influent flow is derived from a single extraction well, D1-EW-2. The treatment train consists of ion exchange (IX) to remove perchlorate followed by granular activated carbon (GAC) adsorption to remove explosives compounds (and also low concentrations of perchlorate if there is breakthrough from the IX vessels). Treated effluent is discharged via two injection wells (D1-IW-3 and D1-IW-4, approximately 50 gpm each).

The system began operating on 8 September 2004 and has operated reliably with an "up time" average of over 96% since startup.

2.2 Frank Perkins Road Extraction, Treatment, and Recharge System

The initial FPR ETR system consisted of a single extraction well (D1-EW-1) with a design flow of 330 gpm and pumping at a rate of 220 gpm, three MTUs and two injection wells. It began

operating under a Rapid Response Action on 8 September 2004. The current ETR system, which is described in the 1 November 2006 Decision Document, began operating on 7 June 2007 and is housed in an 11,000-square-foot concrete and metal building installed east of Frank Perkins Road near the junction with Pocasset-Forestdale Road. The primary components of the system include two parallel IX – GAC treatment trains. The influent flow is derived from four extraction wells (D1-EW-1, D1-EW-501, D1-EW-502 and D1-EW-503). The treatment system has a total maximum water treatment capacity of approximately 1,000 gpm (500 gpm for each train). However, the capacity of the two injection wells is somewhat less. As a result of Phase 2 optimization on 15 February 2011, the extraction flow rate was set to 500 gpm (D1-EW-1 at 150 gpm, D1-EW-501 at 150 gpm, D1-EW-502 at 100 gpm and D1-EW-503 at 100 gpm). Treated effluent is discharged via two injection wells (D1-IW-1 and D1-IW-5).

The FPR system has operated reliably with an “up time” of over 98% since startup.

2.3 Base Boundary Extraction, Treatment, and Recharge System

The Base Boundary ETR system consists of extraction well D1-EW-3; a single MTU capable of treating approximately 65 gpm via a treatment train similar to other MTUs operating at the Demo 1 Area; and an infiltration gallery located approximately 200 feet to the north of the MTU. The treatment train consists of a single ion exchange (IX) vessel to remove perchlorate followed by two GAC vessels in series to remove explosives compounds (and also low concentrations of perchlorate if there is breakthrough from the IX vessels).

The system began operating on 22 June 2011 at 30 gpm. The pumping rate was increased to 65 gpm on 15 February 2012 and has operated reliably with an “up time” of nearly 97% since startup.

3.0 EXTRACTION, TREATMENT, AND RECHARGE SYSTEMS SAMPLING AND MASS REMOVAL

Routine sampling frequencies for all Demo-1 Area treatment systems are monthly, broken down as follows:

- Perchlorate and explosives at the treatment system influent;
- Perchlorate in the IX unit effluent (Perchlorate after the lead GAC unit in the month following a perchlorate breakthrough of the IX unit);
- Explosives after the lead GAC unit; and
- Perchlorate and explosives at the system effluent.

System Performance Summary

System Metric	Pew Road ETR	Frank Perkins Road ETR	Base Boundary ETR
Influent Concentration Range (ug/L)			
RDX (since 9/12)	1.09 to 1.64	0.23 to 0.7	ND
RDX (since startup)	0.56 to 1.64	0.52 to 10.6	ND
HMX	ND	ND to 0.65	ND
Perchlorate (since 9/12)	4.92 to 5.81	0.37 to 0.42	0.72 to 0.82
Perchlorate (since startup)	2.09 to 19.3	0.37 to 16.7	
Groundwater Treated (million gals)			
(since 9/12)	30	147	19
(since startup)	450	2,134	48.6
Mass Removed (lbs)			
RDX (since 9/12)	0.307	0.442	0
RDX (since startup)	4.3	44.14	0.024
HMX (since 9/12)	-	0.088	-
HMX (since startup)	-	8.79	-
Perchlorate (since 9/12)	1.341	0.19	0.124
Perchlorate (since startup)	37.4	70.97	0.471

4.0 AQUIFER HYDRAULIC MONITORING

Groundwater elevations are used to assess the impact of the extraction and injection wells on the movement of groundwater in the aquifer and to determine if the ETR systems are capturing the contaminated portions of the aquifer as intended. Numerical and analytical capture zones for the various systems are presented in this Technical Memorandum. In this memorandum, water level data is presented for two synoptic rounds. The first round was collected on 5-6 November 2012. This was a comprehensive gauging event and was used to calibrate the flow model. Information regarding the flow and transport model will be discussed in greater detail in Section 6. This first water level round consisted of the measurement of 157 water levels from multiple well clusters and five ponds.

A second more limited synoptic event was conducted on 1 March 2013 to better determine the flow direction off-base and the effects that these ponds may have on flow and contaminant transport. This round was conducted after the six well clusters (12 wells) were installed around Lily/Flax ponds. The well construction logs for these new wells are provided in Appendix A. Of the 60 water levels collected, five were obtained from ponds.

As presented in the Final Demolition Area 1 Environmental and System Performance Monitoring Report (September 2010 – August 2011), June 2012 (USACE 2012a), synoptic water levels for trend analysis were presented (USACE 2012a – Table 4-2). These wells measured water levels upgradient of the source area to downgradient of Fredrickson Road in proximity of well clusters MW-352/MW-353, but excludes the Base Boundary monitoring wells and off-base wells. For consistency with previous annual reports, water levels at these 120 wells are presented in Table 4-1 and water level contour maps are presented in Figure 4-1. Similarly, consistent with water levels collected as part of the Base Boundary extraction well (D1-EW-3), water levels west of Fredrickson Road, including the Base Boundary monitoring wells and off-base monitoring wells, were presented in (USACE 2012a - Table 4-3). Consistent with that format, Table 4-2 to the Technical Memorandum presents water levels between 29 February 2012 and 1 March 2013, as the Base Boundary system was increased to its maximum capacity of 65 gpm as of 15 February 2012 (Figure 4-2).

For the on-base portion of the report (Table 4-1), water levels from the December 2011 and March 2012 synoptic gauging rounds are presented and are reproduced from the Draft Demolition Area 1 Environmental and System Performance Monitoring Report (September 2011 – August 2012) (USACE, 2013), and are used to discuss seasonal trends, groundwater flow direction, and capture zone analysis.

Monthly water levels collected as part of the Base Boundary leading edge analysis between 29 February and 26 June 2012 (USACE, 2013), are used to discuss seasonal trends, groundwater flow direction, and capture zone analysis.

4.1 Groundwater Level Analysis – Frank Perkins and Pew Road Systems

Synoptic water level measurements were collected on 12 December 2011 and 26 March 2012 and discussed in the Demo 1 Annual Report (USACE 2013). Water levels were collected manually from 115 monitoring wells, five extraction and four injection wells. As part of the 31 January 2013 Project Note (IAGWSP, 2013), a site-wide groundwater synoptic round was to be performed (Project Note – Section 2.1). The 5-6 November 2012 synoptic water level round consisted of the measurement of 157 water levels from multiple well clusters and five ponds, (North, South, West, Lily and Flax) which are located near the Base Boundary. Water levels could not be obtained from extraction wells D1-EW-1, D1-EW-501, D1-EW-502, and D1-EW-503, as a result of water being present in the vault, which was considered a health and safety risk. As such, water levels were not collected from these wells.

At the time of data collection, the wells were extracting groundwater at a combined rate of 500 gpm from the Frank Perkins Road ETR system. The extraction rates at the four FPR wells are 150 gpm at D1-EW-1 and D1-EW-501, and 100 gpm at D1-EW-502 and D1-EW-503, respectively. Treated water is injected back into the aquifer at well D1-IW-1 and D1-IW-5 with the flows split equally (250 gpm). The Pew Road system consists of one extraction well (D1-EW-2) and two injection wells (D1-IW-3 and D1-IW-4). The Pew Road system extracts groundwater at a rate of 100 gpm and splits the flow equally (50 gpm) to each of the two injection wells.

Water levels from the extraction wells and monitoring wells within the systems' zone of influence were used to create groundwater contours. Those wells used in the contouring were bolded in Table 4-1. Injection well water levels were not used because these water levels are often not

representative of water levels in the aquifer due to inefficiency of the well screens, and as such are not presented in Table 4-1.

Figure 4-1 (top pane) depicts groundwater contours with associated flow vectors for the fall 2011 event (12 December 2011). As depicted by the contours and associated flow vectors, there is hydraulic capture by the Frank Perkins Road system and Pew Road systems. In Figure 4-1 (middle pane), groundwater elevations obtained from the spring 2012 event (26 March 2012) depicts depressions at the extraction wells with flow converging at the wells. In Figure 4-1 (bottom pane), groundwater elevations obtained from the fall 2012 event (5-6 November 2012) depicts converging flow lines at the Pew Road extraction well and at D1-EW-502 as a result of the close proximity of the three extraction wells (D1-EW-501, D1-EW-502, and D1-EW-1).

Water levels from the wells used to create Figure 4-1 are bolded in Table 4-1. Water Levels ranged as follows:

<u>12 December 2011</u>

50.19 ft mean sea level (msl) (MW-353M1) to 70.69 ft msl (MW-79M1)

<u>26 March 2012</u>

49.73 ft msl (MW-353M1) to 70.36 ft msl (MW-79M1)

<u>5-6 November 2012</u>

47.90 ft msl (MW-353M1) to 68.97 ft msl (MW-79S)

The hydraulic gradient for wells located upgradient of Frank Perkins Road for the December 2011, March 2012 and November 2012 events were very similar, with the hydraulic gradient measuring approximately 0.00075 feet per foot (ft/ft) on 26 March 2012 and 5-6 November 2012 and 0.00080 ft/ft on 12 December 2011. The groundwater flow direction was approximately 255 degrees (15 degrees south of west). These values are consistent with the recalibrated numerical model which predicts a gradient of approximately 0.0007 ft/ft for this portion of the site.

The hydraulic gradient for wells located between Frank Perkins Road and Pew Road for the events were very similar, measuring approximately 0.00150 ft/ft on 26 March 2012 and 0.0017 ft/ft on 12 December 2011 and 5-6 November 2012, respectively. The groundwater flow direction was approximately 260 degrees (10 degrees south of west). The hydraulic gradient between FPR and Pew Road is approximately twice as high as the gradient upgradient of Frank Perkins Road. The numerical model hydraulic gradient under recalibrated conditions measures approximately 0.0020 ft/ft.

Similarly, the hydraulic gradient west of Pew Road to well cluster MW-353 repeatedly measured approximately 0.0032 ft/ft in December 2011, March 2012 and November 2012. This gradient is approximately 4.25 times that of the gradient upgradient of Frank Perkins Road and reflects a lowering of the hydraulic conductivity of the aquifer materials, coupled with a thinner section of saturated sediments within the moraine. The recalibrated numerical model simulated a

hydraulic gradient of approximately 0.0030 ft/ft. The groundwater flow direction downgradient of Pew Road was predominantly westerly in December 2011 and March 2012, and slightly more north of west in November 2012, having an attitude of 280 degrees (10 degrees north of west) (Figure 4-1).

4.2 Seasonal Groundwater Level Changes – Frank Perkins and Pew Road Systems

The difference in water levels in monitoring wells gauged on 12 December 2011 and 26 March 2012 decreased on average by 0.22 feet. For the same period, the extraction wells decreased on average 0.25 feet. The maximum decrease (0.53 feet) occurred in well MW-352M3 located near North Pond on the far western side of the site (on-base). Excluding the injection wells, only seven wells showed an increase in water levels over this time duration, with the maximum increase (0.25 feet) measured in MW-175M2.

The difference in water levels in monitoring wells gauged on 26 March 2012 and 5-6 November 2012 decreased on average by 1.65 feet. The maximum decrease (1.86 feet) occurred in well MW-542M1 along Fredrickson Road downgradient of Pew Road. The least amount of water level decline was 1.41 feet and this occurred in well MW-79S, the most upgradient of all of the wells (Figure 4-1). The Pew Road extraction well had a decline of 1.61 feet. It appears that the change in water levels generally increased from east to west as the gradient increases, hydraulic conductivity decreases (slightly) and recharge decreases (slightly).

Similarly, for the year, water levels measured on 12 December 2011 and 5-6 November 2012 decreased on the average of 1.87 feet. The maximum decrease (2.29 feet) and minimum decrease (1.34 feet) occurred in wells MW-353M1 and MW-175M2, respectively. It should be noted that the change at MW-175M2 may be due to a measurement error as well clusters to the north (MW-186) and to the south (MW-173) had a decrease of approximately 1.6 to 1.7 feet. The United States Geological Survey (USGS) wells located near the Top of the Mound (TOM) decreased on average by 1.8 feet with declines ranging from approximately 1.6 feet to 2 feet.

In general, aquifer sediments within the Mashpee Pitted Plain (outwash deposits) appear to respond differently to recharge events than do those wells completed in moraine (Buzzards Bay) deposits. The wells in the outwash deposits include wells situated from the TOM downgradient to and including Frank Perkins Road. The hydraulic gradient is lower in the outwash from the TOM to Pew Road. Further downgradient and west of Pew Road, upon entering the Buzzards Bay Moraine deposits, the gradient increases and there is a greater change in seasonal water levels (Table 4-1), reflecting the lower hydraulic conductivity, slightly less recharge and a decrease in saturated thickness of the moraine sediments.

4.3 Capture Zone Analysis – Frank Perkins and Pew Road Systems

The groundwater contour maps (Figure 4-1) show that the extraction systems are currently capturing the perchlorate and RDX plumes upgradient of Pew Road under various water table conditions based on the hydraulic head data. Capture is more readily depicted in the top and middle panes of Figure 4-1 (December 2011 and March 2012) when water levels were obtained from all four extraction wells comprising the Frank Perkins Road ETR system (Table 4-1).

For purposes of further quantifying capture zone dimensions, two different models were employed. The regional three dimensional steady-state numerical model (MODFLOW/ MODPATH) was used in conjunction with the Demolition 1 site-specific numerical model

(recalibrated), as well as a two dimensional (2-D) analytical model, WINFLOW (AQUIFERWIN32 - Environmental Simulations, Inc., 2007).

The two dimensional analytical model can simulate a capture zone that considers the spatial locations of the extraction and injection wells, and the individual pumping/injection rates. This model uses a uniform hydraulic gradient and direction, a constant aquifer thickness, and accounts for a single recharge value for the site. Emphasis was placed on calibrating the analytical model to water levels along and east of Frank Perkins Road since the model can only simulate a single recharge value and flow direction. Input parameters for the analytical model simulations are presented in Appendix B. In the simulations, aquifer recharge was approximately 29.6 inches (5-6 November 2012). This recharge rate was developed from the MMR-10NW regional model, a three dimensional numerical model with the TOM water levels calibrated to a high of 71.5 ft msl. Water levels obtained from USGS wells located near the TOM were used in the calibration effort for water levels collected on 5-6 November 2012.

Figure 4-3 (top pane) depicts the simulated capture zone using the input parameters provided in Appendix B with a recharge rate equivalent to approximately 29.50 inches per year. For the analytical simulation, four wells comprising the Frank Perkins Road ETR system extracted groundwater at 500 gpm. The analytical model depicts that the perchlorate and RDX plumes are fully encompassed by the capture zone. Although there are limitations to using a 2-D analytical model, the Aquiferwin32 model does provide calibration statistics. As depicted in the top pane of Figure 4-3, the solution based on input parameters does over-predict measured heads. However, the principal metric (root mean square error (RMS) divided by the observed change in elevation) was 6.3%, and compares favorably to the target value of this metric for the same calibration statistic in a numerical model. A value below 10% typically is considered sufficient as a calibration metric in either an analytical or numerical model.

Figure 4-3 (bottom pane) depicts the capture zone from the numerical model. The numerical model was run at the same extraction rate and recharge rates. The general shapes of the capture zones between the numerical model and the analytical model depict that the perchlorate and RDX plumes are being captured under varying recharge conditions as determined in prior simulations under higher water table conditions (USACE, 2013). The numerical model does however show a slight portion of the perchlorate plume in proximity to the Pew Road extraction system that is not being captured under the recalibrated numerical model. However, those concentrations, based on the revised plume shell, are between 2-3 micrograms per liter (µg/L).

In summary, since the horizontal hydraulic gradient does not change significantly seasonally, and water level fluctuations were on average less than 2 feet (Table 4-1), the aquifer thickness changed by less than 1% of its saturated thickness. Therefore, the capture zone dimensions predicted by both models do not vary significantly seasonally. The analysis shows that, under current extraction rates, the FPR and Pew Road ETR systems are capturing the perchlorate and RDX plumes under observed water level conditions.

4.4 Groundwater Level Analysis – Base Boundary System

The Base Boundary extraction well (D1-EW-3), commenced start-up on 22 June 2011. Monitoring activities and results are presented in “Final Demolition Area 1 – Environmental and System Performance Monitoring Report, September 2010 to August 2011” (USACE, 2012a).

Over a four month period (29 February 2012 through 26 June 2012), monthly water levels were obtained when the well was pumping at its maximum treatment capacity of 65 gpm. The water levels decreased on average approximately 0.55 feet. The minimum and maximum changes were 0.52 feet and 0.62 feet, respectively. The data shows that, over this four month period, all of the wells responded similarly. The groundwater flow direction was fairly consistent, measuring approximately 283 degrees (13 degrees north of west).

A synoptic water level round was performed on 5-6 November 2012, and subsequently on 1 March 2013 after wells were installed in proximity to Lily and Flax Pond (MW-599 through MW-604). A limited round to include these wells was performed. The groundwater elevations for the synoptic rounds are presented in Table 4-2, and plotted in Figure 4-2.

As depicted in Table 4-2, for the wells gauged starting 29 February 2012 and measured monthly through 26 June 2012 and including at least the 5-6 November 2012 gauging event (excludes wells gauged only on 5-6 November 2012 and 1 March 2013), water levels ranged on average 1.99 feet (38 measurements). The greatest decline was 2.13 feet (PZD001) and the least amount of decline was 1.80 feet (BHW5030020). Similarly, the decline in water level between 29 February 2012 and 1 March 2013, averaged 1.48 feet (25 measurements) with the greatest decline measuring 1.70 feet (MW-352M1/M2 and MW-353M1) and the least amount of decline was 0.99 feet (MW-558M2). This data indicates that, on average, water levels increased 0.32 feet over their greatest decline.

Figure 4-2 presents the five monthly synoptic water level Potentiometric surface maps. Those wells included in plotting the Potentiometric surface are bolded in Table 4-2. The hydraulic gradient over the four month period varied by less than 10%. The shallowest gradient measured approximately 0.00365 ft/ft (26 June 2012) and the highest gradient measured 0.0040 ft/ft (29 February & 21 March 2012). These measurements were made between the 48 foot and 54 foot contours in order to get an “average gradient.” Using the same metric, the hydraulic gradient measured for 5-6 November 2012 measured 0.0037 ft/ft. The gradient for 1 March 2013 was not determined for this portion of the site as water levels were not collected far enough upgradient (Fredrickson Road) to make this calculation. In all cases, the gradients did increase as you approach the extraction well. The hydraulic gradient, as determined by the recalibrated numerical model, measures approximately 0.0034 ft/ft. The recalibrated numerical model predicts the 5-6 November 2013 gradient by within 10% and accurately replicates the Potentiometric surface attitude of 280 degrees (10 degrees north of west).

The hydraulic gradient west of Route 28 is greater than the gradient measured upgradient of the Base Boundary. The horizontal hydraulic gradient ranged from approximately 0.0060 ft/ft (26 June 2012) to 0.0065 ft/ft (29 February 2012). The hydraulic gradient measured on 5-6 November 2012 and 1 March 2013 were slightly less (0.0058 ft/ft and 0.0057 ft/ft, respectively). The recalibrated numerical model, (calibrated to the 5-6 November 2012 data set) measured 0.0043 ft/ft which is an improvement of the prior model which measured a gradient of 0.00375 ft/ft. However, beyond just the calculated gradient, the recalibrated numerical model better replicates the groundwater flow direction. Both the measured flow direction and the numerical flow model show a flow direction of approximately 275 degrees (5 degrees north of west). As will be depicted in Section 6, this is an improvement on groundwater flow direction.

The groundwater gradients west of Lily Pond were determined in 5-6 November 2012 and 1 March 2013 through measurements collected at USGS well BHW198 located on the golf course, the Pocasset Mobile Home Park wells (PMHP) wells, and subsequently through added control of new wells located in proximity to Lily/Flax Pond (MW-599M1/M2 through MW-604M1/M2). Newly installed wells MW-569M1/M2, MW-571M1/M2 and MW-582M1/M2 were not installed at the time of the 1 March 2013 gauging event. Water levels (Lily/Flax) were similarly obtained during the November 2012 and March 2013 event (Table 4-2).

Water levels used in creating the Potentiometric surface maps are bolded in Table 4-2. Of the newly installed wells, cluster MW-602M1/M2 did not plot consistently with the other measurements, and may be influenced by the clay layer that is present beneath Lily Pond. The measured gradient west of Lily Pond, based on the 5-6 November 2012 and 1 March 2013 gauging round, were 0.0045 ft/ft and 0.0048 ft/ft, respectively. The groundwater flow direction of approximately 275 degrees was determined. This compares favorably with the recalibrated numerical model which reproduces a gradient west of Lily Pond of 0.0045 ft/ft with the same groundwater flow direction.

Water levels in Lily Pond and Flax Pond were measured concurrent to the November 2012 and March 2013 gauging event (Table 4-2). Using the hydraulic gradient of approximately 0.0058 ft/ft, and the distance of 375 feet from well cluster MW-558 to Lily Pond, having a measured head of 38.4 ft msl on 1 March 2013, a computer groundwater elevation of 36.2 ft msl would likely be the elevation of the pond if it was hydraulically connected to the aquifer. The pond measured almost a foot higher (37.16 ft msl). This was corroborated using the 5-6 November 2012 measurements.

Using a similar calculation for Flax Pond for wells MW-603M2 and MW-604M2 located approximately 230 and 200 feet from the pond, using the same gradient, it is possible that Flax Pond may be slightly perched above the water table at MW-603M2 as the pond measured approximately 0.45 feet higher than the calculated water table. The calculation for well MW-604M2 was more consistent with the predicted water table elevation.

Borings installed around Lily Pond have depicted the presence of geologic fine materials at depth and beneath the pond. This was not noted by the geologist in borings advanced around Flax Pond.

As will be discussed in Section 6, in order to match hydraulic gradients and flow direction of the plumes at depth, the ponds were not treated as flow through as was done in prior modeling exercises (e.g. hydraulic conductivity of 50,000 feet per day for Kx and 5,000 feet per day for Kz). Rather the ponds were detached from the model and not simulated using Constant Head or General Head Boundary conditions.

4.5 Capture Zone Analysis – Base Boundary System

The groundwater contour maps (Figure 4-2) indicate that the Base Boundary extraction system is capturing or will capture the highest concentrations of perchlorate based solely on hydraulic head data and flow vectors, which are oriented perpendicular to the contour lines. For purposes of further quantifying capture zone dimensions, two different models were employed. The regional three dimensional steady-state numerical model (MODFLOW/MODPATH) was used in conjunction with the recalibrated Demolition 1 site-specific numerical model, as well as a two

dimensional (2-D) analytical model, WINFLOW (AQUIFERWIN32 - Environmental Simulations, Inc., 2007).

As indicated in Section 4.3, the two dimensional analytical model can develop a capture zone that considers the spatial locations of the extraction and injection wells/infiltration trench (line-sink), and their respective rates. The model uses a uniform hydraulic gradient and direction, a constant aquifer thickness, and accounts for a single recharge value for the site. The 2-D model similarly allows for calibrating the data to measured values, which cannot be done using the EPA 2-D analytical equations presented in "A Systematic Approach for Evaluation of Capture Zones at Pump and Treat Systems" (USEPA, 2008). Input parameters used in the WINFLOW calculation are presented in Appendix B. Using a hydraulic gradient of 0.0035 ft/ft (gradient measured on 5-6 November 2012), a groundwater flow direction of 280 degrees (10 degrees north of west), a hydraulic conductivity of 100 ft/d, a screen length of 100 feet to represent the aquifer thickness and an extraction rate of 65 gpm. The analytical model depicts a maximum capture zone width of approximately 340 feet upgradient of the extraction well with a capture zone at the well of approximately 170 feet (Figure 4-4 – top pane). In this particular analysis, recharge was not simulated.

Although there are limitations to using a 2-D analytical model, the Aquiferwin32 model does provide calibration statistics. As depicted in the top pane of Figure 4-4, the solution, based on input parameters, does fairly accurately simulate the measured heads. The principal metric (RMS divided by the observed change in elevation) was 4.0%. A value below 10% typically is considered sufficient as a calibration metric.

A similar calculation was performed using USEPA's 2-D analytical equation. Using the same input parameters as cited above, a capture zone width at the extraction well of approximately 180 feet and a maximum capture zone width of approximately 360 feet was determined.

The recalibrated numerical model was run at the same extraction rate and simulated a hydraulic gradient of 0.0034 ft/ft, and simulated a recharge rate of 29 inches per year, the rate used to calibrate the subregional model to 5-6 November 2012 conditions. The numerical model depicts a capture zone width of 150 feet at the extraction well and a maximum capture width upgradient of the well (approximately 100 feet) of approximately 350 feet. The general shapes of the capture zones between the numerical model and the analytical model are consistent with one another. Due to simplicity of the analytical model, its orientation of the capture zone is off-set further to the north than the numerical model, and has a slightly narrower capture zone width compared to the USEPA calculation. The numerical model seems to encompass the perchlorate plume in proximity to MW-258, which was not predicted by the prior model (Figure 4-4).

4.6 Hydraulic Conductivity Testing

As outlined in the approved Project Note, Sections 2.2 (IAGWSP, 2013), hydraulic conductivity tests were conducted at monitoring well clusters MW-554M1/M2, MW-556M1/M2, and MW-559M1/M2. Similarly, hydraulic conductivity tests were conducted at four of the newly constructed monitoring wells (MW-600M1/M2 through MW-603M1/M2). An additional well PHHP-3D was tested as it was unclear if any wells located west of Lily Pond would be constructed prior to completion of the Technical Memorandum. Furthermore, once approval was granted by the village of Pocasset, a well cluster was installed along County Road, MW-

598M1/M2 and these wells were slug tested. However, due to their location and timing, this well cluster was not developed. The wells tested are presented in Figure 4-5.

The testing was to be completed using a pneumatic device which pressurized the well and depressed the water table "instantaneously". Depending on the well depth and depth to water, the pneumatic tests were carried out by depressing the water table between 10 and 15 feet. After depressing the water table this known distance, the applied pressure was released and the rate of rise in the water column was recorded using an In-Situ™ pressure transducer/ datalogger. Depending on the curve generated from the tests, the data was analyzed using the method of Bouwer & Rice. For those tests that showed an under-damped (oscillatory) response, the method of Springer-Gelhar was used to interpret the data. The data was processed and analyzed using AQTESOLV (HydroSOLVE, Inc.), software for interpreting slug test and pump test data.

The wells tested spanned nearly 150 feet of the aquifer. Two of the well clusters, MW-556M1/M2 and MW-559M1/M2 were installed as 1-inch diameter wells, and given their placement in the road-box, the pneumatic equipment would not fit over wells MW-556M1/M2, and MW-559M1. At these wells, falling head tests were conducted. The procedure consisted of filling the well with water from a 5-gallon container until the water level reached the top of the casing or the water was expended. The pneumatic testing equipment was initially designed for a 2-inch well, but an adaptor was constructed so that MW-559M2 could be tested. As a result, a follow-on falling head test was conducted on this well for confirmation. The graphs of displacement versus time for the wells tested are presented in Appendix B.

Under-damped responses (oscillatory) were recorded in wells MW-554M1, MW-556M1 and MW-601M1/M2. Table 4-3 summarized pertinent well construction information and the results of the tests. In the case of the pneumatic slug tests, many of the wells were tested in triplicate. However, not all of the tests were subsequently reduced if the displacement graphs looked similar. The wells that had oscillatory responses had a higher hydraulic conductivity. The geometric mean of all of the tests were 10 feet per day (ft/d). The tests with a hydraulic conductivity greater than the geometric mean were measured in well MW-556M1 (90 ft/d), MW-554M1 (60 ft/d), MW-601M2 (47 ft/d), MW-602M2 (37 ft/d), and MW-601M1 (30 ft/d). These measurements are generally consistent with the range of conductivity values in the numerical model. With the exception of tests conducted on wells MW-598M1/M2, which were not developed prior to testing and may not have been in hydraulic communication with the aquifer as determined by calculated conductivity values of 1 ft/d (Table 4-3 and Appendix B), five wells had measured conductivity values less than 10 ft/d. These were measured in wells MW-556M2, MW-559M2 (pneumatic and falling head tests), MW-600M2, MW-603M2, and PMHD-3D.

With the exception of PMHP-3D, which had a partial saturated screen, making the assumptions of the Bouwer & Rice methodology invalid, a value of approximately 8 ft/d was calculated. As indicated in Table 4-3, these wells were tested in 2003 when installed (Brown & Caldwell, 2003) and had measured conductivity values of 27 ft/d and 29 ft/d in replicate measurements. In general, the lower conductivity values detected in several wells were lower than expected. However, west of Route 28 the materials tightened up below 100 feet. Based on the location of the wells, higher conductivity values were detected at greater depths than in the shallower well (M2 screen). The conductivity of the shallower low conductivity materials may represent an

over-riding of outwash deposits by moraine materials. Where feasible, geologic fines were considered continuous and were incorporated in the numerical model in proximity to Lily Pond.

5.0 PLUME CONCENTRATION MONITORING

The extent and concentration of plume contaminants are monitored through analysis of groundwater samples collected from the network of monitoring wells in and around the plume, and through the measurement of influent concentrations from the extraction wells. This section will present the chemical results for perchlorate, RDX, and other detected explosives compounds that were collected as part of the semi-annual groundwater sampling round that occurred in November/December 2012, in addition to profile and monitoring well samples collected on-base (BH-597/MW-597) and off-base (MW-569, MW-571, MW-582 and BH-598/MW-598) since the end of the Demolition Area 1 Annual Report reporting period which ended 31 August 2012 (USACE, 2013).

As the Draft Demolition Area 1 Annual Report was issued in April 2013, this Technical Memorandum builds on the results presented in that report, where necessary. The chemical data presented in the Technical Memorandum will be discussed in the zones discussed below and as presented in the annual report. The groundwater samples collected in November/December 2012 were part of the semi-annual sampling program, which is not as extensive as the spring round (USACE, 2013, Table 5-1).

Revised perchlorate and RDX plume depictions (Figure 5-2 and Figure 5-5) were prepared based on the groundwater concentrations detected through March 2013 and delineate perchlorate concentrations above 2 μg/L and RDX above 0.6 μg/L. Forward particle tracking of chemical data from previous sampling events was used to “fill in” areas within the plume where monitoring wells are not available. Where appropriate, the plume delineations also consider the effects of groundwater extraction. The creation of the plan view for perchlorate and RDX plumes will be discussed in greater detail in subsequent sections.

As there were approximately half as many samples collected during the November/December 2012 sampling round compared to the spring 2012 round, Figure 5-1 from the current Draft Annual Report (USACE, 2013) is reproduced in its entirety. Maximum perchlorate concentrations detected during the reporting period were used to assign a color to the well symbol. Non-detects are denoted by green, detectable concentrations below 2 μg/L are denoted in yellow and concentrations exceeding 2 μg/L are depicted in red.

Perchlorate and RDX trends through March 2013 for selected wells are also presented in Figures 5-2 and 5-5, respectively. Zone 1 is the area from the former source area to Frank Perkins Road. Zone 2 is the area downgradient of Frank Perkins Road up to Pew Road. Zone 3 is the area downgradient of Pew Road and includes the Base Boundary extraction well and the off-base investigation conducted upgradient of Lily Pond. Zone 4 represents the area downgradient of Lily Pond where profile samples were collected during this reporting period.

Influent samples are obtained from the three treatment systems monthly: Pew Road (D1-EW-2), the Base Boundary (D1-EW-3) and a blended composite sample of groundwater extracted from the four wells that comprise the Frank Perkins Road ETR system (D1-EW-1, D1-EW-501, D1-EW-502, and D1-EW-503). As such, individual groundwater samples are collected three times

per year from each of the wells in order to better understand the makeup of the FPR influent. Where appropriate, these data are included in tables and graphs.

General chemical statistics for perchlorate and RDX are as follows and discussed in greater detail in the following sub-sections. The following statistics exclude the monthly treatment system influents. This information is discussed separately.

Perchlorate		RDX	
Sample Count	39	Sample Count	41
non-detects	0	non-detects	28
Count > 2 µg/L	15	Count > 0.6 µg/L	9
Count > 6 µg/L	2	Count > 2 µg/L	4
Count > 15 µg/L	2	Count > 6 µg/L	2

5.1 Zone 1 – Upgradient of Frank Perkins Road

5.1.1 Perchlorate

As presented in Figure 5-1, none of the 31 wells sampled between September 2011 and August 2012 had a perchlorate concentration exceeding 2 µg/L (USACE, 2013). Only three samples were collected from Zone 1 as of September 2012. These samples were obtained from the three extraction wells, D1-EW-1, D1-EW-501 and D1-EW-502. Concentrations in the three extraction wells ranged from 0.205 µg/L (D1-EW-501) to 0.989 µg/L (D1-EW-502), Table 5-1 and Figure 5-2. Based on forward migrated concentrations from previous detected wells, plumelets are depicted upgradient of extraction wells D1-EW-501 and D1-EW-502. The trend plots indicate that samples collected from the extraction wells in Zone 1 have declined. Concentrations of perchlorate in well cluster MW-76, upgradient of the extraction well D1-EW-501, are detected near the reporting limit of 0.2 µg/L. Similarly, concentrations of perchlorate in well MW-114M1 were last above 2 µg/L in November 2009 and measured 0.456 µg/L in April 2012 (Appendix C) and Figure 5-2. Similarly, monitoring well MW-165M2 located adjacent to extraction well D1-EW-1 along Frank Perkins Road has decreased from over 120 µg/L in 2001 to below the reporting limit in 2012 (Figure 5-2). A longitudinal cross-section of perchlorate from the source area to the west of Pew Road is presented in Figure 5-3.

5.1.2 RDX

As presented in Figure 5-4, RDX concentrations reported in the current annual report exceeded 0.6 µg/L in 20 samples, with 10 samples exceeding 2 µg/L (USACE, 2013). Nine samples were collected from Zone 1 in November 2012. Four of these samples exceeded 0.6 µg/L (D1-EW-501, D1-EW-502, MW-31M and MW-77M2), two exceeded 2 µg/L (MW-31S and MW-76M2) and one exceeded 6 µg/L (MW-19S) (Table 5-1).

Concentrations in the source area denoted by wells MW-19S and MW-73S have decreased significantly from approximately 300 µg/L and 80 µg/L in 2000 and 2002, respectively, Figure 5-5 and Appendix C to 10.6 µg/L (MW-19S - November 2012), and to 0.561 µg/L (MW-73S – November 2012). Concentrations of RDX have, however, remained at around 10 µg/L since 2009 (Figure 5-5). As discussed, concentrations of RDX in well MW-19S have decreased.

However, it is hypothesized that remnants of RDX may still be traveling through the thick vadose zone, approximately 40-feet to the water table, contributing to groundwater contamination.

Concentrations of RDX in well cluster MW-31 located approximately 450 feet downgradient of MW-73S have decreased from 370 μg/L in 1999 (MW-31M) to 1.04 μg/L in November 2012. Similarly, RDX has decreased in well MW-31S from 210 μg/L in 1999 to 2.1 μg/L in November 2012 (Table 5-1 and Appendix C). Similarly, in well cluster MW-76, which is located approximately 850 feet downgradient of MW-31, concentrations of RDX in MW-76M1 have decreased from 170 μg/L in 2003 to 2.47 μg/L in April 2012, and in MW-76M2 from 220 μg/L in 2003 to 2.43 μg/L in November 2012 (Figure 5-5 and Table 5-1). Concentrations of RDX in extraction well D1-EW-501 have decreased since system startup, measuring 5.89 μg/L in April 2008 and a current measurement of 1.31 μg/L in November 2012. A longitudinal cross-section for RDX from the source area to the west of Pew Road is presented in Figure 5-6.

5.1.3 Other Contaminants of Concern (COCs)

The explosives HMX, TNT, 2A-DNT, 4A-DNT, and 2,4-DNT were detected in groundwater samples from Zone 1. HMX was detected in 8 of 9 samples with concentrations ranging from 0.102 µg/L to 5.3 µg/L (MW-19S). No concentrations exceeded the MCP GW-1 standard of 200 µg/L. TNT was detected in two wells (MW-19S and MW-31S) at a maximum detected concentration of 1.54 µg/L which is below the remediation goal of 2 µg/L (USEPA, 2006). The compound 2A-DNT was detected in 5 samples with concentrations ranging from 0.142 J µg/L (MW-77M2) to 0.552 µg/L (MW-31S). Similarly, 4A-DNT was detected in 5 samples at concentrations ranging from 0.2 to 0.577 µg/L (MW-31S). Maximum concentrations of 2A-DNT and 4A-DNT were below the USEPA screening level of 73 µg/L. The explosives compound 2,4-DNT was detected only in the sample from well MW-31S. The sample collected in November 2012 contained 2,4-DNT at 0.235 µg/L, which is below the remediation goal of 0.25 µg/L specified in the DD (USEPA, 2006). Table 5-1 summarizes the explosives results, and Appendix C provides the inception to date results.

5.2 Zone 2 - Upgradient of the Pew Road System and Downgradient of Frank Perkins Road

5.2.1 Perchlorate

Groundwater samples were collected from three wells in November 2012. Samples were obtained from extraction well D1-EW-503 and two monitoring wells, MW-211M1 and MW-341M3, located adjacent to the Pew Road extraction well (D1-EW-2). Additionally, monthly influent samples were collected from D1-EW-2. Table 5-1 presents the chemical results for the groundwater samples and Table 5-2 presents the monthly influent samples from the Pew Road system. The groundwater sample collected from D1-EW-503 measured 0.236 µg/L. Monitoring well results from this extraction well (collected three times per year) continue to decrease as depicted in the trend plot (Figure 5-2) and Appendix C. Although not sampled in the fall event, Figure 5-2 depicts the perchlorate trend plot for MW-210M2. Concentrations of perchlorate in May 2012 measured 0.982 µg/L and were last measured above 2 µg/L in April 2011. A sample collected from this well measured 243 µg/L in April 2007. After full system startup of the Frank Perkins Road ETR system in June 2007 at the design rate of 808 gpm, concentrations of perchlorate dropped abruptly in this well, measuring 1.39 µg/L in December 2007 (Figure 5-2 and Appendix C).

The groundwater sample obtained from MW-211M1, co-located with the Pew Road extraction well (D1-EW-2) measured 27.7 µg/L in November 2012. This concentration has decreased significantly from 51.2 µg/L detected in the sample collected in May 2012. Concentrations of perchlorate exceeding 100 µg/L were last detected in this well in December 2008. Influent concentrations at the Pew Road extraction well remained fairly consistent since September 2012, ranging from 4.92 µg/L to 5.81 µg/L (Table 5-2). However, as depicted in the trend plot (Figure 5-2), concentrations have been generally declining. Concentrations of perchlorate in well MW-341M3, located to the south of the Pew Road ETR system, continue to decline, measuring 0.303 µg/L in November 2012. Concentrations of perchlorate above 2 µg/L were last measured in this well in April 2010.

Influent from D1-EW-503 is blended with groundwater extracted from well D1-EW-1, D1-EW-501 and D1-EW-502 located along and east of Frank Perkins Road. The blended influent from these four extraction wells ranged from 0.373 µg/L to 0.415 µg/L between September 2012 and March 2013 (Table 5-2). As depicted in the trend plot, influent concentrations into the FPR system have declined significantly since the startup of the RRA ETR system in September 2004 and implementation of full system design in June 2007 (Figure 5-2).

5.2.2 RDX

Groundwater samples were collected from D1-EW-503 and well MW-211M1 in November 2012 for RDX. System influent samples from the Pew Road ETR system were also collected. Table 5-1 presents the chemical results for these wells and Table 5-2 presents the monthly influent samples from the Pew Road system. The groundwater sample collected from D1-EW-503 was non-detect. Results from this extraction well (collected three times per year) continue to be non-detect for RDX since June 2009 (Table 5-1, Figure 5-5 and Appendix C). Although not sampled in the fall event, Figure 5-5 depicts the RDX trend plot for MW-210M2. Concentrations of RDX have continued to be non-detect since December 2010. A sample collected from this well measured 53.4 µg/L in April 2007. After full system startup of the Frank Perkins Road ETR system in June 2007 at the design rate of 808 gpm, concentrations of RDX dropped abruptly in this well, measuring 0.643 µg/L in December 2007 (Figure 5-2 and Appendix C).

The groundwater sample obtained from MW-211M1, co-located with the Pew Road extraction well (D1-EW-2) measured 15.1 µg/L in November 2012. This concentration was the maximum detected RDX concentration during this sampling round. RDX concentrations generally were on an increase between 2004 and may now be declining (Figure 5-5). Influent concentrations at the Pew Road extraction well remained fairly consistent since 2005 and have ranged between 1.09 µg/L and 1.64 µg/L between September 2012 and March 2013 (Table 5-2 and Figure 5-5).

Influent from D1-EW-503 is blended with groundwater extracted from wells D1-EW-1, D1-EW-501 and D1-EW-502 located further to the east. The blended influent from these four extraction wells ranged from 0.524 µg/L to 0.697 µg/L between September 2012 and March 2013 (Table 5-2). As depicted in the trend plot, influent concentrations at the FPR system have declined significantly since the startup of the RRA ETR system in September 2004 and implementation of full system design in June 2007 (Figure 5-5). Given that RDX has been non-detect in D1-EW-503 and D1-EW-1 since December 2008 and December 2011, the blended influent is principally derived from RDX contaminated groundwater extracted from wells D1-EW-501 and D1-EW-502 (Table 5-1 and Figure 5-5 and Appendix C).

5.2.3 Other COCs

HMX was the only other explosives compound detected in groundwater from Zone 2. HMX was detected in monitoring well MW-211M1 at 1.67 µg/L in November 2012 and was not detected in samples collected from D1-EW-503 or D1-EW-2 on Pew Road (Table 5-1 and Table 5-2). This concentration is below the MCP GW-1 standard of 200 µg/L for HMX.

5.3 Zone 3 – Downgradient of Pew Road to Lily Pond

In addition to the collection of groundwater samples from existing monitoring wells, groundwater profile samples were obtained from boring BH-597 located on the southern boundary of the plume upgradient of the Base Boundary. The results of the profile samples collected from this boring is presented in Table 5-3.

5.3.1 Perchlorate

Twenty-five groundwater samples were analyzed for perchlorate. Four of nine on-base samples (MW-2581, MW-532M1/M2, and 95-14) had concentrations exceeding 2 µg/L and five off-base samples (MW-556M1/M2, MW-558M1/M2, and MW-559M1) had concentrations exceeding 2 µg/L. Four of the nine samples (MW-258M1, MW-532M1/M2, and MW-556M1) exceeded 6 µg/L and one sample (MW-532M2) exceeded 15 µg/L with perchlorate detected at 27.9 µg/L (Table 5-1). Concentrations of perchlorate in cross-section downgradient of Pew Road, including the off-base portion of the plume, are presented in Figure 5-7. Figure 5-2 presents a trend plot for MW-225M3. Although this well was not sampled in the fall of 2012, its trend is important. As depicted by the plot, concentrations as high as 20.9 µg/L between August 2005 and April 2007 were detected in this well and continued to decrease thereafter. Since September 2008, concentrations in MW-225M3 have been non-detect or below the reporting limit of 0.2 µg/L (Appendix C). Approximately 1,500 feet downgradient, perchlorate concentrations in well MW-532M2 have continued to increase from approximately 8.28 µg/L in April 2010 to 29.6 µg/L in August 2012. The sample collected from this well in November 2012 measured 27.9 J µg/L (Table 5-2). Monitoring well MW-258M1, located a few hundred feet to the south of MW-532M2, had detected perchlorate at concentrations below 1 µg/L between September 2003 and August 2010. Concentrations continued to increase after that date and measured 7.44 µg/L in November 2012. At monitoring well 95-14, located approximately 1,500 feet downgradient of MW-532M2, concentrations went from non-detect to 9.59 µg/L between September 2009 and August 2011 (Figure 5-2 and Appendix C) and have decreased since. The sample collected from this well in November 2012 measured 2.96 µg/L.

Profile boring OB-1 was installed approximately 150 feet to the north of well cluster MW-353 and 1,425 feet downgradient and to the west of MW-258M1 in order to delineate the southern boundary of the perchlorate plume. Samples were collected from 28 feet msl to -137 ft msl. Concentrations ranged from non-detect to 0.13 µg/L (Table 5-3). Based on this data and consistent with appropriate procedures, a screen setting call was initiated and two wells were constructed. Monitoring well MW-597M2 was constructed between -59 and -69 ft msl and MW-597M1 was screened between -89 and -99 ft msl. Samples from these two wells measured 0.081 µg/L and 0.11 µg/L, respectively.

Concentrations from monitoring well cluster MW-545, Figure 5-2, have all decreased since the Base Boundary extraction well, D1-EW-3 went on-line in June 2011. Concentrations in the

shallower M4 and M3 screens decreased from 2.94 µg/L in December 2010 to 0.29 µg/L in December 2012. At monitoring well MW-545M3, concentrations declined from 8.96 µg/L in December 2010 to 0.38 µg/L in December 2012. In the deeper screens, concentrations declined from 12.2 µg/L in December 2010 to 0.95 µg/L in December 2012. Lastly, at MW-545M1, concentrations measured 0.87 µg/L in December 2010 but increased to 4.16 µg/L concurrent with system start-up in June 2011 and has declined since to 1.48 µg/L in December 2012. Concentrations at the extraction well D1-EW-3 remained fairly constant between September 2012 and March 2013 ranging between 0.75 µg/L in March 2013 and 0.816 µg/L in September 2012. However, perchlorate measured 5.7 µg/L at system start-up. Concentrations in monitoring well MW-544M1, located approximately 200 feet south of the extraction well, measured 0.78 µg/L in December 2010. Upon system startup, the well concentration measured 5.8 µg/L in June 2011 and has continued to decline. Concentrations of perchlorate in this well measured 0.7 µg/L in December 2012.

West of Route 28, concentrations in monitoring wells MW-554M1/M2 have decreased to below 2 µg/L, most likely as a result of the Base Boundary extraction well. Concentrations in the M1 screen has decreased from 5.38 µg/L in June 2011 to 0.55 µg/L in December 2012. Similarly, the M2 shallower screen has decreased from 3.02 µg/L (June 2011) to 0.63 µg/L (Table 5-1 and Appendix C). Approximately 450 feet due west, concentrations in MW-556M1 have remained fairly constant, ranging narrowly between 6.29 µg/L in December 2012 and 7.27 µg/L in August 2012, with samples first collected in December 2011. At monitoring well MW-556M2, concentrations have declined from 14.1 µg/L in December 2011 to 5.68 µg/L in December 2012. At MW-558M2, located approximately 375 feet further downgradient and to the west, concentrations have ranged narrowly from 2.35 µg/L in March 2012 to 3.11 µg/L in December 2011, with the sample collected in December 2012 measuring 2.46 µg/L. Similarly, at MW-558M1, concentrations ranged narrowly from 2.13 µg/L in March 2012 to 2.65 µg/L in December 2012 (Table 5-1 and Figure 5-2). Concentrations detected in the MW-559M1 screen marks the southern boundary of the plume. Perchlorate concentrations ranged narrowly from 1.92 µg/L in March 2012 to 2.11 µg/L in December 2011. The sample collected in December 2012 contained 2.02 µg/L. Profile samples collected from MW-560 and MW-565 had maximum perchlorate concentrations of 0.67 µg/L and 0.83 µg/L, respectively. Similarly, profile borings obtained from DP-555 (maximum concentration 1.12 µg/L) and DP-557 (maximum concentration 0.73 µg/L) bounds the perchlorate plumes to the north. Monitoring wells were not installed in these profile borings (USACE, 2013).

5.3.2 RDX

Twenty-two samples were collected from monitoring wells in Zone 3 in addition to the monthly influent samples collected from the Base Boundary extraction well. Seventeen of the samples were non-detect for RDX and only one sample obtained from MW-532M2 contained RDX above 0.6 µg/L. This sample contained RDX at 1.71 µg/L (Table 5-1 and Figure 5-5). Two samples contained RDX below the reporting limit of 0.2 µg/L, and the off-base well cluster MW-556M1/M2 detected RDX at 0.55 µg/L and 0.57 µg/L, respectively.

As depicted in Figure 5-5, RDX concentrations in well MW-532M2 have generally been on an increase. Concentrations measured 0.421 µg/L in April 2010 and increased to 1.91 µg/L in August 2012. The sample collected from this well in November 2012 measured 1.71 µg/L. Similarly, concentrations at monitoring wells MW-545M2/M3 have been on the decline. Concentrations in MW-545M3 decreased from 0.85 µg/L in December 2010 to non-detect in

December 2012. Concentrations in well MW-545M2 have decreased from 1.08 µg/L in December 2010 to non-detect in December 2012. RDX concentrations from September 2012 through March 2013 were non-detect (Table 5-2). As depicted in Figure 5-5, RDX declined in the extraction well from 0.46 µg/L in June 2011 to non-detect by July 2012 (Appendix C). Figure 5-8 contains a longitudinal cross-section for RDX downgradient of Pew Road, including the off-base portion of the plume.

West of Route 28, concentrations of RDX measured a maximum of 0.4 J µg/L in well MW-554M1 in September 2011 and was non-detect in November 2012. In well MW-556M1, concentrations of RDX increased from 0.48 µg/L in December 2011 to 0.67 µg/L in August 2012 and decreased slightly to 0.55 µg/L in December 2012. In MW-556M2, concentrations increased from 1.14 µg/L to 1.55 µg/L in December 2011 and March 2012 before decreasing. The sample collected from this well in December 2012 measured 0.57 µg/L. RDX has not been detected in any sample collected from MW-559M1/M2 in four samples collected since January 2012. The maximum detected RDX concentration in MW-558M1 was 0.19 µg/L and in MW-558M2 was 0.21 µg/L. Samples collected from these wells in December 2012 were non-detect (Table 5-1 and Appendix C).

5.3.3 Other COCs

None of the other COCs were detected in any groundwater sample collected from Zone 3 during this reporting period**,** including the profile samples collected from MW-597 (Table 5-1 and 5-3).

5.4 Zone 4 – Downgradient of Lily Pond

Groundwater west of Lily Pond is characterized via three well clusters on the Austin property (MW-569M1/M2, MW-571M1/M2, MW-582M1/M2), and one cluster along the leading edge on County Road, MW-598M1/M2. The boring on County Road was advanced in February 2013 and groundwater samples collected in March 2013. Profile samples from the boring BH-598 were collected from 5 ft msl to -110 ft msl. Profile results from this boring are presented in Table 5-3. Groundwater samples were collected from the well cluster in March 2013.

Monitoring wells were constructed at well clusters MW-569, MW-571 and MW-582 in March 2013, and the groundwater samples from these wells were not collected until April 2013. The results from the profile borings for these wells (MW-569 and MW-571 – November 2011 and BH-581 – June 2012) were advanced prior to September 2012 and were presented in the current Annual Report (USACE, 2013)

5.4.1 Perchlorate

The depiction of the perchlorate plume west of Lily Pond is presented in Figure 5-2. Eight groundwater samples (non-profiles) were collected for the first time between March 2013 and April 2013. Five samples had concentrations exceeding 2 µg/L (MW-569M1/M2, MW-571M1/M2, and MW-582M2). The maximum detected perchlorate concentration was 3.7 µg/L (MW-569M1), Table 5-1. Profile samples from the boring on County Road, MW-598 (Table 5-3) had a maximum detected perchlorate concentration of 1.65 µg/L (-25 to -30 ft msl). Groundwater samples from MW-598M2 screened from -23 to -33 ft msl had a perchlorate concentration of 1.06 µg/L. A longitudinal section for the off-base portion of the perchlorate plume is presented in Figure 5-7. It is believed that the leading edge of the plume is being defined. However, additional borings are proposed along County Road.

5.4.2 RDX

Analyses for explosives were undertaken in the eight wells sampled. RDX was non-detect in all wells. Although there were elevated reporting limits for RDX in samples collected from wells MW-569M1/M2 and MW-571M1/M2, the secondary column for these samples were below the reporting limit of 0.2 µg/L for RDX.

5.4.3 Other COCs

No other COCs were detected in the eight groundwater samples or profile sample from Zone 4 as part of this evaluation (Tables 5-5 & 5-6).

6.0 UPDATE OF THE HYDRAULIC FLOW MODEL

Due to concerns regarding the representativeness of the existing groundwater model, the IAGWSP and USEPA agreed that additional hydraulic field data was needed in order to update/recalibrate the model to an appropriate level of confidence. In January 2013, USEPA agreed to the following additional work (USEPA, 2013):

- Installation of up to 20 additional monitoring wells at 10 locations for which 18 wells at nine locations would be off-base (MW-559M1 through MW-604M1/M2, MW-569M1/M2, MW-571M1/M2, MW-582M1/M2) and one well cluster (MW-599M1/M2) would be installed on-base;

- Synoptic water level survey of 160 wells and six ponds to help calibrate the flow model; and

- In-situ hydraulic conductivity testing of 14 well screens at 7 monitoring well locations (MW-554M1/M2, MW-556M1/M2, MW-559M1/M2, MW-600M1/M2, MW-601M1/M2, MW-602M1/M2, and MW-603M1/M2).

Due to schedule constraints related to the FY13 Decision Document Addendum deadline, the parties agreed to prioritize data collection at locations on Town-owned property (roadways) over those on private property (MW-569, MW-571 and MW-582) and fast-track the model recalibration using this easily obtained data. It was recognized that this fast-track approach would require that assumed values may need to be used during the modeling effort in lieu of any late-arriving field data. An evaluation of any impacts on model outputs associated with the use of these assumed values vs. late-arriving field data is provided in section 6.4.

The results of the modeling activities (re-calibration of the flow model) were subsequently used to develop contaminant plume shells for perchlorate and RDX and perform Feasibility Study modeling analysis. This information is presented in Section 7 and in greater detail in Appendix D on the plume shell developments.

6.1 Regional Model Calibration

As indicated above and presented in Section 4, a comprehensive synoptic water level round was conducted on 5-6 November 2012. This gauging event was used to calibrate the flow model. This first water level round consisted of the measurement of 157 water levels from

multiple well clusters and five ponds. Additionally, water levels from USGS wells located near the top of the mound (TOM) were obtained from the USGS website and incorporated into the regional model calibration effort. The additional data were obtained from MW-126S, MW-145S, 537-0107, and 90MW0063. Additionally, results from slug tests obtained from off-site wells MW-554M1/M2, MW-556M1/M2, and MW-559M1/M2 were attempted to be incorporated into the MMR Regional Model MMR-10NW (AMEC, 2005).

In order to simulate flow and transport on a local scale (Demo 1 subregional model), the head distribution must be assigned from the Regional Model. As such, recalibration of the regional model was required prior to mapping the modeled head distribution to the local scale model.

The Regional Model was calibrated to 2003-2004 conditions with the groundwater elevation at the TOM at approximately 68.2 ft msl. At the time the water levels were collected as part of the 5-6 November 2012 synoptic gauging round, the water level at the TOM was at an elevation of approximately 71.6 ft msl (well 537-0107). As depicted in Figure 6-1, the average water level at USGS well 535-0107 was approximately over 72 ft msl, with an average of the four wells over an 11 year gauging history of approximately 70.85 ft msl. As such, it was not unrealistic to assume that chemical data collected in the last decade were subject to higher water-table conditions. Using the gauging measurements, including the four USGS wells coupled with the well screen mid-point, the calibration data was imported into the Regional Model in order to recalibrate the model to the 5-6 November 2012 conditions.

As the water table was greater than 68.2 ft msl and the prior model variant was adequately calibrated, the principal change made was to increase recharge. Multiple iterations were required to achieve a water table elevation at 71.5 ft msl. The required multiplier was 1.095, which was applied across the model domain. The multiplier essentially increased recharge from 27 inch per year (in/yr) to 29.56 in/yr. Once this was achieved, additional effort was made to incorporate the slug test results from wells MW-554, MW-556, and MW-559, west of Route 28 into the Regional Model by assigning the depths that the wells spanned in the model. The scaled root mean square (RMS) and the residual sum of squares (RSS) were 2.7 and 220, respectively. The objective of the model calibration statistic is to minimize both the RMS and RSS, and to keep RMS below 10%. However, as documented in the first 15 model simulations, the incorporation of the hydraulic conductivity over the model zones covered by the Demo 1 subregional model frequently continued to worsen the model calibration metrics (Table 6-1). This indicated that the hydraulic conductivity values, although executed and interpreted correctly (Appendix B), could not be expanded over a large area both laterally and vertically.

The calibration effort indicated that the lower conductivity deposits were likely spatially varying and limited in extent. Model simulations 16 through 19 further focused on reducing calibration statistics by lowering the recharge west of Route 28 by a subsequent multiplier. The multiplier applied to the area west of Route 28 in the moraine material ranged from 0.90 to 0.99. Model variant 18, although it did not have the lowest RMS/RSS, was slightly improved over the base scenario (2.6 and 214, respectively). This regional model variant was chosen because the flow direction was slightly improved over the others. Although this Regional Model was calibrated to the water level data, the flow direction on-base and upgradient of the Base Boundary did not simulate a west-northwest flow direction as water levels collected in recent years and in the six Base Boundary gauging rounds depicted (Figure 4-2). Based on water levels in proximity to North Pond and South Pond, it appeared that these ponds were perched when compared to

water levels by at least 0.5-feet when compared to well MW-353M3 (located due north of the pond by approximately 150 feet and cross-gradient to the pond). The data from Lily Pond (Section 4.4), indicated that the pond was also perched based on measurements collected compared to measured and predicted groundwater elevations.

The Regional Model had treated all of the ponds as flow through ponds. This was accomplished by increasing the hydraulic conductivity to 50,000 ft/d (Kx/Ky) with a Kz of 5,000 ft/d (AMEC, 2005). This resulted in no gradient across the pond. The assumption was that the pond was a kettle hole and in direct communication with the aquifer. By assigning the on-base ponds (North, South and West) as a General Head Boundary (GHB) with an associated conductance, the measured pond elevations were able to be assigned to the model grids and layers that the ponds ranged over. The result of changing the boundary condition produced a groundwater flow direction closer to that simulated in model variant 18. Although Lily Pond was perched based on known upgradient elevations and hydraulic gradient, issues arose when the pond was treated using a GHB. This boundary affected the plume trajectory. Similarly, treating the pond as a flow through cell previously affected capture zone predictions (i.e., wells simulated downgradient of the pond tracked back to Lily Pond). As the perchlorate plume's trajectory upgradient and downgradient of the pond was fairly east to west and, this would be affected using either boundary conditions, it was decided to not simulate Lily and Flax pond in the models explicitly.

As discussed in Section 4.4 and presented on Figure 4-2, once the wells around these ponds were installed at depth, the 1 March 2013 synoptic round indicated that the measured flow direction was east to west beneath the pond. This was accomplished by removing Lily and Flax ponds from the Regional Model. As a result, particle tracks flowed through the centerline of the measured plume when seeded at depth. These changes slightly increased the scaled RMS and RSS to 2.74% and 233, respectively, but the trajectory of the plumes matched better. As such, this variant of Run 18 of the regional model was used to map heads from the Regional Model to the subregional model. Table 6-2 provided the measured and predicted groundwater elevations at the 159 measurement observations imported into the Regional Model. These measured and simulated heads are depicted in Figure 6-2 (top pane) along with model calibration statistics. The residual mean of -0.88 feet indicates that the model over-predicts measured heads. The groundwater flow contours from the Regional Model are similarly depicted in Figure 6-3, with the outline of the Demo 1 subregional model.

6.2 Demo 1 Subregional Model

The head solution from the Regional Model Variant 18 was mapped over to the subregional Demo 1 model. The subregional model is a 22 layer model with most model layers 10 foot in thickness with uniform grid spacing of 50 feet. With the exception of several clay layers mapped into the subregional model in proximity to Pew Road and in proximity to Lily Pond, the hydraulic conductivity distribution was inherited from the Regional Model. Figure 6-4 depicts the head distribution for the Regional Model and the Demo 1 subregional model. Subtle differences are noted and result from vertical/horizontal discretization between the two models and treatment of the GHB for the on-base ponds which are also discretized differently than the Regional Model and defined better in the Demo 1 model. The scaled RMS and RSS for the Demo 1 subregional model, along with other calibration statistics, are presented in Table 6-3. The scaled RMS and RSS for the subregional model was 2.88% and 220, respectively. Figure 6-2

(bottom pane) is a plot of measured versus model simulated heads for the subregional model. The residual mean of -0.82 feet indicates that the model slightly over-predicts measured heads.

The hydraulic gradient for wells located upgradient of Frank Perkins Road for the November 2012 events were very similar, with the hydraulic gradient measured to be 0.00080 ft/ft. The groundwater flow direction was approximately 255 degrees (15 degrees south of west). These values are consistent with the recalibrated numerical model which predicts a gradient of approximately 0.0007 ft/ft for this portion of the site (Figure 6-5).

The hydraulic gradient for wells located between Frank Perkins Road and Pew Road measured approximately 0.0017 ft/ft on 5-6 November 2012. The groundwater flow direction was approximately 260 degrees (10 degrees south of west). The hydraulic gradient between FPR and Pew Road is approximately twice as high as the gradient upgradient of Frank Perkins Road. The numerical model hydraulic gradient under recalibrated conditions measures approximately 0.0020 ft/ft, which is comparable to measured conditions (Figure 6-5).

The hydraulic gradient west of Pew Road to well cluster MW-353 repeatedly measured approximately 0.0032 ft/ft on 5-6 November 2012. This gradient is approximately 4.25 times that of the gradient upgradient of Frank Perkins Road. The recalibrated numerical model simulated a hydraulic gradient of approximately 0.0030 ft/ft. The groundwater flow direction downgradient of Pew Road was slightly north of west having an attitude of 280 degrees (10 degrees north of west).

The hydraulic gradient west of Route 28 is greater than the gradient measured upgradient of the Base Boundary. The horizontal hydraulic gradient measured approximately 0.0058 ft/ft on 5-6 November 2012. The recalibrated numerical mode measured 0.0043 ft/ft which is an improvement of the prior model which measured a gradient of 0.00375 ft/ft. However, beyond just the calculated gradient, the recalibrated numerical model better replicates the groundwater flow direction. Both the measured flow direction and the numerical flow model show a flow direction of approximately 275 degrees (5 degrees north of west). Figure 6-6 depicts particles seeded in the 2012 model variant (top pane) and in the recalibrated model (bottom pane). The simulations show that the recalibrated model is better able to track the overall plume trajectory off-base.

The measured gradient west of Lily Pond, based on the 5-6 November 2012 data, was 0.0045 ft/ft with a groundwater flow direction of approximately 275 degrees. The recalibrated numerical model reproduces a gradient west of Lily Pond of 0.0045 ft/ft with the same groundwater flow direction (Figure 6-5).

Figure 6-7 depicts the capture zones for the FPR and Pew Road systems using the 2012 model variant calibrated to TOM at 68.2 ft msl versus the recalibrated model calibrated to a TOM of approximately 71.5 ft msl. The principal difference is that, west of Pew Road, the simulated flow direction is due west in the 2013 recalibration compared to a more southwesterly flow direction in the 2012 variant. The recalibrated model, which adequately matches hydraulic gradient, has a slightly differing capture zone for the Pew Road extraction well, and matches the hydraulic gradient and flow direction upgradient of FPR. Based on the USGS hydrographs, it appears that groundwater elevations averaged higher than what the prior model was calibrated to for

2003-2004 conditions. The higher water level may result in steeper gradients and slightly narrower capture zones and a slight shift in groundwater flow direction.

6.3 Modeling Software

The Regional and subregional (Demo 1) models were run using the USGS MODFLOW (1988/1996) software code (McDonald and Harbaugh, 1988) with particle tracking performed using the USGS MODPATH software (Pollack, 1994). Both pieces of software were run using the Groundwater Vistas (Version 6) modeling platform, a pre/post processor for MODFLOW (Environmental Simulations, Inc., 2011). The Groundwater Vistas (GWV) processor can run MODFLOW and MODPATH in both steady-state and transient conditions as was necessary for the work performed in the modeling conducted.

Plume shell development is presented in detail in Appendix D and the results discussed and presented in Section 7. Transport modeling was performed using a special version of MODFLOW called MODFLOW-SURFACT (HGL, 2011). This version of MODFLOW was chosen for transport as the solver Total Variation Diminishing (TVD) is supposed to be free of numerical dispersion. Additionally, the software allows greater flexibility in output time stepping. MODFLOW-SURFACT was also run via GWV. Transport model simulations were animated within GWV (Appendix D).

6.4 Modeling Assumptions

As presented in Section 6.1, the Demo 1 groundwater flow model was calibrated to 5-6 November 2012 water levels and pond levels measured. Given the time constraints to complete field activities, collect newly acquired groundwater chemical data, and recalibrate and develop plume shells for perchlorate and RDX, several assumptions were made in the modeling process which included the following:

- Water levels collected on 5-6 November 2012, on average, are representative of long-term flow direction and gradients. The transport model was constructed using a steady-state flow field calibrated to these measurements;

- Several hydraulic conductivity tests (Table 4-3) had lower than expected hydraulic conductivity values. Regional Model calibration using these values provided poor model calibration statistics when included into the model (Table 6-1). As such, it is assumed that these fine materials were limited in extent vertically and spatially;

- Prior model variants, including the Regional Model, simulated all ponds as being flow through (Kettle Ponds) which were in direct connection with the aquifer. Water levels collected from the ponds seemed to indicate that the ponds were likely perched. Model testing indicated that it was preferable to treat the on-base ponds (North, South and West) as General Head Boundaries, which was necessary for groundwater west of Pew Road to take a more northwesterly trajectory. With the ponds treated as flow through, the plume would take a due west trajectory and not readily replicate the plume's general shape. Monitoring wells installed off-base and in proximity to Lily/Flax pond at depth (M1 screen) seemed to show a due west flow field. Although these ponds also seemed perched, treating them as GHB also affected capture zone analysis and plume trajectory. Given that the plume was at a significant depth beneath the ponds, it was

decided to remove the ponds from the model. This resulted in a flow field that matched the plume trajectory well. Due to the aforementioned constraints, this was the best way to handle these off-base ponds;

- The hydraulic gradient west of Route 28 and east of Lily Pond was underestimated by approximately 30%. This under-prediction would typically translate into slower groundwater velocities and wider capture zones. However, attempts were made to increase the gradient without success. The gradient west of the pond was accurately simulated. Groundwater flow west of Lily Pond is heavily controlled by Boundary Conditions representing the Pocasset River near the model boundary. This feature is treated in the Regional and Demo 1 model as a GHB. As such, it is uncertain if the perchlorate plume trajectory is as influenced as depicted by the model;

- The groundwater flow model was subsequently the basis for the transport model. There are many assumptions built into the construction of the contaminant plume shell (Appendix D & Section 7). An assumption in the transport modeling is that, although the measured and simulated concentrations in extraction wells and in monitoring wells may match closely, the plume shell adequately represents the plume dimensions both spatially and vertically. The amount of mass in the plume is also adequately represented, although it may not match on a cell-by-cell basis. Especially when comparing discrete points (profile and well results), a search radius should be applied from the data point to determine accurateness. It is quite feasible that, due to other factors, the model may simulate a contaminant concentration upgradient or downgradient and at a similar concentration either above or below the measured depth.

It should be noted that the Demo 1 flow model is a tool to be used for making decisions and is a fairly accurate depiction of the flow and transport systems occurring at the site. However, not all decisions should be based on the model.

7.0 FEASIBILTY STUDY

This section presents the evaluation of alternatives to remediate the RDX and perchlorate groundwater plumes at Demolition Area 1. Alternative performance was simulated using the updated plume shells and flow/transport model described in Section 6. Seven of the eight alternatives evaluated in the Technical Memorandum were described in Section 3 of the 31 January 2013 Project Note (IAGWSP, 2013). Concurrent to the preparation of this Technical Memorandum, USEPA requested that an additional alternative similar to Alternative 4, with the exception of the upgradient, Off-base #1 extraction well, be added to the analysis. This alternative was identified as Alternative 4A in this analysis. With the exception of minor changes in flow rates and well placements, the alternatives are described in the following subsections. Information presented in Table 7-1 identifies pertinent cleanup metrics:

- Year to achieve Risk Based Concentrations (RBC);
- Year to achieve Background Concentrations;
- Mass Captured (pounds); and
- Extraction Well Non-Detect.

The existing "Regulatory Considerations" from the 2006 Decision Document will be carried forward to the forthcoming Decision Document Addendum. Therefore, new "Regulatory Consideration" tables were not developed as part of this Technical Memorandum.

Appendix F (Page F-6) of the Demo 1 Groundwater Operable Unit Feasibility Study (AMEC, 2005) indicates the following: "*Similarly, the plume distribution at year 2007 was used as a starting point for running the 5 well system conditions...After approximately 9 years of pumping, the perchlorate concentrations within the plume in the upgradient area are expected to be below 1 µg/L. With an additional 2 years of pumping (11 years total) the remaining perchlorate in the downgradient area is reduced below 1 µg/L.*" Table 2 of the Decision Document (USEPA, 2006) and Table F3-1 of the Feasibility Study apparently identified the 11 years as being upgradient of Pew Road and 9 years downgradient of Pew Road. USEPA's 26 September 2012 correspondence (USEPA, 2012) correctly identifies the perchlorate cleanup of 1 µg/L as being 11 years downgradient of Pew Road and 9 years upgradient of Pew Road, consistent with the Feasibility Study text. However, in the same letter USEPA indicates "*These project timeframes were based on modeling conducted in 2005. Therefore, according to the Decision Document cleanup would be achieved by 2016.*"

The Feasibility Study indicates that the plume distribution in 2007 (startup conditions) is the basis for cleanup criteria. As such, in the following discussions, perchlorate cleanup dates upgradient of Pew Road (9 years) would be 2016, and downgradient of Pew Road would be 2018 (11 years). For RDX, the time to cleanup to 0.6 µg/L is 11 years, both upgradient and downgradient of Pew Road (USEPA, 2006).

For all of the model scenarios where: 1) new well(s) are part of the alternative or 2) D1-EW-503 goes off-line, these changes do not occur in the model until 1 April 2014. This assumption gives time in reality to complete the Addendum to the Decision Document, prepare bid specifications/contracts and install the wells pursuant to the selected alternative.

- For Alternatives 3, 4, 5 and 7, any wells east of Lily Pond will have the extracted water piped back on-base to the Base Boundary system and treated at a larger MTU;

- For Alternatives 4, 4A, 5, and 7, any wells west of Lily Pond will be treated in an MTU constructed on the Austin property;

- For Alternatives 6A and 7, any wells located east of Frank Perkins Road will be piped back to the FPR system for treatment and re-injection;

- For Alternatives 5 and 7, any wells located between Pew Road and the Base Boundary will be treated at a new MTU located at the Base Boundary; and

- For Alternative 7, any wells located downgradient of FPR but upgradient of Pew Road would be treated at a new Pew Road MTU.

All of the alternatives would include chemical and hydraulic monitoring of the plume and treatment systems as long as active remediation continues. They would also include chemical monitoring of the aquifer after the system is turned off to ensure that perchlorate and RDX concentrations have decreased below risk-based concentrations. Land Use Controls (LUC)

would minimize potential future exposure. The existing LUC boundary as documented in the Draft Demolition Area 1 Environmental and System Performance Monitoring Report, Response Action Groundwater Treatment Systems, September 2011 to August 2012 (USACE, 2013) would be extended a distance of at least two years travel time from the leading edge of the off-base portion of the plume. Groundwater monitoring would continue for two years after risk-based concentrations were achieved to ensure that concentrations remain below those levels. The monitoring wells and other infrastructure would be closed or removed at the end of the project. A residual risk assessment would be performed, if necessary, and may include additional data collection and analysis

The summary of the total present value costs for each alternative are presented in Table 7-1. A more detailed breakdown of the costs for the alternatives is provided in Appendix E.

7.1 Detailed Analysis of Alternatives

7.1.1 Criteria for Detailed Evaluation

Relative performance of each alternative is evaluated using the following nine criteria:

1. Overall protection of human health and the environment; this shall include prevention of the movement of contaminants into the aquifer and its preservation as a public drinking water supply.

2. Compliance with regulations, including:
    - Federal regulations; and
    - State regulations.

3. Long-term effectiveness and permanence, considering:
    - The risks remaining after completion of the remedial action; and
    - The adequacy and suitability of controls, if any, that are used to manage untreated contaminants remaining at the site.

4. Reduction of toxicity, mobility, and volume through treatment, including:
    - The expected reduction in toxicity, mobility or volume measured as a percentage or order of magnitude; and
    - The type and quantity of treatment residuals that will remain following treatment.

5. Short-term effectiveness, including:
    - Protection of the community during the remedial action;
    - Protection of workers during the remedial action;
    - Environmental impacts to natural resources; and
    - Time until remedial response objectives are achieved.

6. Implementability, considering:
    - Technical feasibility, including:
        - Construction and operation;
        - Reliability of technology;

  - Ease of undertaking additional remediation, if necessary; and
  - Monitoring considerations, addressing the ability to monitor adequately the effectiveness of the remedy and the risks should monitoring be insufficient to detect a system failure.
- Administrative feasibility:
- Availability of services and materials, including:
  - Availability of adequate off-site treatment, storage capacity, and disposal services;
  - Availability of necessary equipment and specialists, and any other necessary resources;
  - The potential for obtaining competitive bids (especially for innovative technologies); and
  - Availability of prospective technologies.

7. Cost, considering:
   - Source removal costs;
   - Capital costs, both direct and indirect;
   - Annual O&M costs; and
   - Present worth analysis (or net present value) of costs.

   The cost estimates for the alternatives include capital, annual and periodic costs associated with the anticipated scope of the alternative. These generally include construction costs, operations and maintenance (O&M) costs, system monitoring costs, and reporting costs. The capital costs included in this Technical Memorandum are associated with any new systems that will be added as part of each individual alternative. There are existing treatment systems that are currently in place. The capital costs for the construction of these existing systems are not included in the cost analysis of the alternatives in this document. When possible, costs were based on actual costs for similar activities performed previously at the MMR. The general assumptions made for the present value calculations are that costs based on current year (present day) information will escalate at a rate of five percent per year until year zero. After year zero, costs were discounted at a rate dependent on the length of the alternative (2013 Discount rates for OMB Circular No. A-94). A detailed presentation of the cost estimates and present value calculations are provided in Appendix E.

8. State Acceptance, considering the issues and concerns that the State may have regarding each alternative. This criterion will be evaluated throughout the development, screening and evaluation of alternatives based on comments and input received from MassDEP.

9. Community Acceptance, which entails an evaluation of issues and concerns the public may have regarding each alternative. This criterion will be evaluated throughout the development, screening and evaluation of alternatives based on comments and input received from the MMRCT and public.

7.1.2 Alternative 1

Alternative 1 would provide for the continued long-term operation of the Demolition Area 1 treatment systems using the existing extraction well rates for Frank Perkins Road (FPR) (500 gpm) ((D1-EW-1 (150 gpm), D1-EW-501 (150 gpm), D1-EW-502 (100 gpm), and D1-EW-503 (100 gpm)); Pew Road (100 gpm) (D1-EW-2); and Base Boundary (65 gpm) (D1-EW-3). Following groundwater treatment at the FPR ETR, system groundwater is re-injected into the aquifer at wells D1-IW-1 and D1-IW-5 at equal flows of 250 gpm. Similarly, groundwater at the Pew Road system, following treatment, is re-injected at split flows of 50 gpm at wells D1-IW-3 and D1-IW-4, respectively. Lastly, for the Base Boundary extraction well, following treatment, groundwater is recharged to the aquifer at the infiltration basin located to the north of the extraction well. Three additional monitoring wells would need to be installed in order to track the off-base portion of the plume. This alternative is considered the "no action" alternative for this analysis. The system layout for Alternative 1 is depicted in Figure 7-1 and the model predicted capture zones are depicted in Figure 7-2.

Overall Protection of Human Health and the Environment

The groundwater model indicates that perchlorate concentrations are predicted to decrease below 15 µg/L by 2015.3, 6 µg/L by 2016.3, below 2 µg/L by 2026.3 and background concentrations (0.35 µg/L) could be achieved by 2059.3 (Table 7-1). The latest date that system influent falls below non-detect is 2025.3. Based on the Alternative 1 animation (Appendix D), perchlorate falls below 2 µg/L by 2017.3 upgradient of Pew Road and 2026.3 downgradient of Pew Road. This exceeds the 9 year criteria outlined in the Decision Document for the area upgradient of Pew Road (2016) and the 11 year criteria for the area downgradient of Pew Road (2018). For RDX, concentrations are predicted to fall below 6 µg/L by 2015.3, below 2 µg/L by 2018.3, below 0.6 µg/L by 2022.3, and background could be achieved by 2025.3. The latest date that system influent falls below non-detect for RDX is 2015.3. Based on the Alternative 1 RDX animation (Appendix D), RDX does not achieve the 11 year criteria for cleanup to the RBC as specified in the Decision Document (2018), until 2022.3 (Table 7-1).

Compliance with Applicable Regulations

Alternative 1 would comply with applicable regulations.

Long-term Effectiveness and Permanence

Both active treatment and natural attenuation components of the alternative would be permanent. Groundwater extraction and treatment would permanently remove most of the perchlorate and RDX from groundwater. The remaining contamination would continue to degrade due to natural attenuation processes, which is also irreversible.

The source response actions already taken addressed the majority of source material, including unexploded ordnance, that may be acting as a current source. This alternative includes long-term groundwater monitoring to verify that any possible remaining sources will not pose a threat to groundwater. Therefore, this alternative is expected to be effective over the long-term.

Reduction of Toxicity, Mobility, or Volume through Treatment

Extraction and treatment of groundwater would reduce the toxicity, mobility and volume of perchlorate and RDX. Model-predicted mass capture for Alternative 1 is approximately 6.43 pounds of perchlorate and 2.06 pounds of RDX. Under this alternative, perchlorate is simulated

to migrate approximately 1,000 feet downgradient of County Road before attenuating to below 2 ug/L by 2021.3.

Short-term Effectiveness

There would be little effect on the community or natural resources from implementing Alternative 1 because no new construction work would be involved. There would be some effect on the workers during monitoring well construction, sampling and decommissioning.

Implementability

Administratively, this alternative would be feasible. Ion Exchange (IX) has been shown to be effective in treating perchlorate. GAC has been shown to be effective in treating RDX. The treatment system would require regular maintenance and monitoring. Experience at other sites suggests that the components would be reliable.

Cost

The costs are estimated for Alternative 1 as follows:

- Capital Cost: $ 889,350
- O&M: $ 8,480,000
- Site closeout documentation: $ 88,000
- Total present worth: $ 8,980,000

Appendix E provides detailed calculations of the cost of Alternative 1.

State Acceptance

This criterion will be evaluated throughout the development, screening and analysis of alternatives based on comments and input received from MassDEP.

Community Acceptance

This criterion will be evaluated throughout the development, screening, and analysis of alternatives based on comments and input received from the MMRCT and the public.

7.1.3 Alternative 2

Alternative 2 consists of the FPR system pumping at a reduced rate of 400 gpm (D1-EW-503 off-line as of April 2014), Pew Road (100 gpm) (D1-EW-2), and the Base Boundary (65 gpm) (D1-EW-3). Following groundwater treatment at the FPR ETR system, groundwater is re-injected into the aquifer at wells D1-IW-1 and D1-IW-5 at a reduced flow of 200 gpm each. All other treatment and recharge processes are the same for Pew Road and the Base Boundary systems. Three additional monitoring wells would need to be installed in order to track the off-base portion of the plume. The system layout for Alternative 2 is depicted in Figure 7-1 and the model predicted capture zones are depicted in Figure 7-2.

Overall Protection of Human Health and the Environment

Perchlorate concentrations are predicted to decrease below 15 µg/L by 2015.3, 6 µg/L by 2016.3, below 2 µg/L by 2026.3 and background concentrations (0.35 µg/L) could be achieved by 2059.3 (Table 7-1). Based on the Alternative 2 animation (Appendix D), perchlorate falls below 2 µg/L by 2017.3 upgradient of Pew Road and 2026.3 downgradient of Pew Road. This

exceeds the 9 year criteria outlined in the Decision Document for the area upgradient of Pew Road (2016) and the 11 year criteria for the area downgradient of Pew Road (2018). For RDX, concentrations fall below 6 µg/L by 2015.3, 2 µg/L by 2018.3, below 0.6 µg/L by 2022.3 and background could be achieved by 2025.3. The latest date that system influent falls below non-detect for RDX is 2015.3. Based on the Alternative 2 RDX animation (Appendix D), RDX does not achieve the 11 year criteria for cleanup to the RBC as specified in the Decision Document (2018), until 2022.3 (Table 7-1).

Compliance with Applicable Regulations

Alternative 2 would comply with applicable regulations.

Long-term Effectiveness and Permanence

Both active treatment and natural attenuation components of the alternative would be permanent. Groundwater extraction and treatment would permanently remove some of the perchlorate and RDX from groundwater. The remaining contamination would continue to degrade due to natural attenuation processes, which is also irreversible.

The source response actions already taken addressed the majority of source material, including unexploded ordnance that may be acting as a current source. This alternative includes long-term groundwater monitoring to verify that any possible remaining source will not pose a threat to groundwater. Therefore, this alternative is expected to be effective over the long-term.

Reduction of Toxicity, Mobility, or Volume through Treatment

Extraction and treatment of groundwater would reduce the toxicity, mobility and volume of perchlorate and RDX. Model-predicted mass capture for Alternative 1 is approximately 6.37 pounds of perchlorate and 2.06 pounds of RDX. Under this alternative, perchlorate is simulated to migrate approximately 1,000 feet downgradient of County Road before attenuating to below 2 ug/L by 2021.3.

Short-term Effectiveness

There would be little effect on the community because most activity is on-post. There would be some effect on the workers during monitoring well construction, sampling and decommissioning.

A site specific Health and Safety Plan would be followed during construction and system operation and monitoring where engineering controls and Personal Protective Equipment would be used as necessary to limit potential exposure to COCs. To date, health and safety precautions for unexploded ordnance clearance, construction activities, groundwater sampling and drilling have been adequate to protect workers.

Implementability

Administratively, this alternative would be feasible. Ion Exchange (IX) has been shown to be effective in treating perchlorate. GAC has been shown to be effective in treating RDX. The treatment system would require regular maintenance and monitoring. Experience at other sites suggests that the components would be reliable.

Cost

The present worth costs were estimated for Alternative 2 as follows:

- Capital Cost: $ 889,350
- O&M: $ 7,880,000
- Site closeout documentation: $ 88,000
- Total present worth: $ 8,412,000

Appendix E provides detailed calculations of the cost of Alternative 2.

State Acceptance

This criterion will be evaluated throughout the development, screening and analysis of alternatives based on comments and input received from MassDEP.

Community Acceptance

This criterion will be evaluated throughout the development, screening, and analysis of alternatives based on comments and input received from the MMRCT and the public.

7.1.4 Alternative 3

Alternative 3 consists of existing extraction well rates for FPR (500 gpm), Pew Road (100 gpm), and Base Boundary (65 gpm), and one off-base extraction well upgradient of Lily Pond pumping at 100 gpm (Off-Base #1). Extracted water from Off-Base #1 will be piped to the Base Boundary MTU which will need to be upgraded to handle the increased capacity. Treated water will be split between two infiltration trenches (the existing infiltration trench and a new infiltration trench, IT #2) located to the south of well D1-EW-3. The system layout for Alternative 3 is depicted in Figure 7-1 and the model predicted capture zones are depicted in Figure 7-2.

Overall Protection of Human Health and the Environment

The groundwater model indicates that perchlorate concentrations are expected to decrease below 15 µg/L by 2015.3, 6 µg/L by 2016.3, below 2 µg/L by 2021.3 and background concentrations (0.35 µg/L) could be achieved by 2055 (Table 7-1). The latest date that system influent falls below non-detect is 2025.3. Based on the Alternative 3 animation (Appendix D), perchlorate falls below 2 µg/L by 2017.3 upgradient of Pew Road and 2021.3 downgradient of Pew Road. This exceeds the 9 year criteria outlined in the Decision Document for the area upgradient of Pew Road (2016) and the 11 year criteria for the area downgradient of Pew Road (2018). For RDX, concentrations fall below 6 µg/L by 2015.3, 2 µg/L by 2018.3, below 0.6 µg/L by 2022.3 and background could be achieved by 2025.3. The latest date that system influent falls below non-detect for RDX is 2015.3. Based on the Alternative 3 RDX animation (Appendix D), RDX does not achieve the 11 year criteria for cleanup to the RBC as specified in the Decision Document (2018), until 2022.3 (Table 7-1).

Compliance with Applicable Regulations

Alternative 3 would comply with applicable regulations.

Long-term Effectiveness and Permanence

Both active treatment and natural attenuation components of the alternative would be permanent. Groundwater extraction and treatment would permanently remove some of the

perchlorate and RDX from groundwater. The remaining contamination would continue to degrade due to natural attenuation processes, which is also irreversible.

The source response actions already taken addressed the majority of source material, including unexploded ordnance that may be acting as a current source. This alternative includes long-term groundwater monitoring to verify that any possible remaining source will not pose a threat to groundwater. Therefore, this alternative is expected to be effective over the long-term.

Reduction of Toxicity, Mobility, or Volume through Treatment

Extraction and treatment of groundwater would reduce the toxicity, mobility and volume of perchlorate and RDX. Model-predicted mass capture for Alternative 3 is approximately 7.99 pounds of perchlorate and 2.24 pounds of RDX.

Short-term Effectiveness

There will be impacts to the community through the construction and operation of the treatment system components and the installation of monitoring wells and groundwater sampling activities. There would be some effect on the workers during monitoring well construction, sampling, and decommissioning.

A site specific Health and Safety Plan would be followed during construction and system operation and monitoring where engineering controls and Personal Protective Equipment would be used as necessary to limit potential exposure to COCs. To date, health and safety precautions for unexploded ordnance clearance, construction activities, groundwater sampling and drilling have been adequate to protect workers.

To the extent feasible, previously disturbed areas would be utilized for the installation of wells, the infiltration trench, subsurface piping, power lines, and the MTU to minimize impact on cultural and natural resources. However, some temporary disturbance to the vegetation would be necessary during installation of the treatment system. This alternative would require a pipeline crossing beneath Route 28.

Implementability

Installation of the extraction well and piping would be technically feasible. However, construction in a residential neighborhood will require extra safety precautions, coordination with the community and school system, impact to roads and personal property and access agreements with private landowners and the Town of Bourne. Access agreements with private landowners may be necessary for future monitoring well installation and sampling.

Ion Exchange (IX) has been shown to be effective in treating perchlorate. GAC has been shown to be effective in treating RDX. The treatment system would require regular maintenance and monitoring. Experience at other sites suggests that the components would be reliable.

Cost

The present worth costs were estimated for Alternative 3 as follows:

- Capital Cost: $ 1,980,000
- O&M: $ 6,425,000
- Site closeout documentation: $ 88,000
- Total present worth: $ 8,250,000

Appendix E provides detailed calculations of the cost of Alternative 3.

State Acceptance

This criterion will be evaluated throughout the development, screening and analysis of alternatives based on comments and input received from MassDEP.

Community Acceptance

This criterion will be evaluated throughout the development, screening, and analysis of alternatives based on comments and input received from the MMRCT and the public.

7.1.5 Alternative 4

Alternative 4 consists of existing extraction well rates for FPR (500 gpm), Pew Road (100 gpm), and Base Boundary (65 gpm), and two off-base extraction wells (one upgradient, Off-Base #1 and one downgradient, Off-Base #2 of Lily Pond) pumping at 100 gpm each. Extracted water from Off-Base #1 will be piped to the Base Boundary MTU which will need to be upgraded to handle the increased capacity. Treated water from the Base Boundary MTU will be split between two infiltration trenches (the existing infiltration trench and a new infiltration trench IT #2) and will be designed to handle the total flow of 165 gpm. Extracted water from Off-Base #2 will be piped to a new MTU west of Lily Pond on private property. Treated water from this new MTU will be piped to a new infiltration trench, IT #5 west of Lily Pond on private property. The Alternative is depicted in Figure 7-1 and associated capture zones are presented in Figure 7-2.

Overall Protection of Human Health and the Environment

The groundwater model indicates that perchlorate concentrations are expected to decrease below 15 µg/L by 2015.3, 6 µg/L by 2016.3, below 2 µg/L by approximately 2021.3 and background concentrations (0.35 µg/L) could be achieved by approximately 2046.3. (Table 7-1). The latest date that system influent falls below non-detect is 2025.3. Based on the Alternative 4 animation (Appendix D), perchlorate falls below 2 µg/L by 2017.3 upgradient of Pew Road and 2021.3 downgradient of Pew Road. This exceeds the 9 year criteria outlined in the Decision Document for the area upgradient of Pew Road (2016) and the 11 year criteria for the area downgradient of Pew Road (2018). For RDX, concentrations fall below 6 µg/L by 2015.3, 2 µg/L by 2018.3, below 0.6 µg/L by 2022.3 and background could be achieved by 2025.3. The latest date that system influent falls below non-detect for RDX is 2015.3. Based on the Alternative 3 RDX animation (Appendix D), RDX does not achieve the 11 year criteria for cleanup to the RBC as specified in the Decision Document (2018), until 2022.3 (Table 7-1).

Compliance with Applicable Regulations

Alternative 4 would comply with applicable regulations.

Long-term Effectiveness and Permanence

Both active treatment and natural attenuation components of the alternative would be permanent. Groundwater extraction and treatment would permanently remove some of the perchlorate and RDX from groundwater. The remaining contamination would continue to degrade due to natural attenuation processes, which is also irreversible.

The source response actions already taken addressed the majority of source material, including unexploded ordnance that may be acting as a current source. This alternative includes long-term groundwater monitoring to verify that any possible remaining source will not pose a threat to groundwater. Therefore, this alternative is expected to be effective over the long-term.

Reduction of Toxicity, Mobility, or Volume through Treatment

Extraction and treatment of groundwater would reduce the toxicity, mobility and volume of perchlorate and RDX. Model-predicted mass capture for Alternative 4 is approximately 10.55 pounds of perchlorate and 2.42 pounds of RDX.

Short-term Effectiveness

There will be impacts to the community through the construction and operation of the treatment system components and the installation of monitoring wells and groundwater sampling activities. There would be some effect on the workers during monitoring well construction, sampling, and decommissioning.

A site specific Health and Safety Plan would be followed during construction activities and system operation and monitoring where engineering controls and Personal Protective Equipment would be used as necessary. To date, health and safety precautions for unexploded ordnance clearance, groundwater sampling and drilling have been adequate to protect workers. To the extent feasible, previously disturbed areas would be utilized for the installation of wells, infiltration trenches, subsurface piping, power lines, and the MTUs to minimize impact on cultural and natural resources. However, some temporary disturbance to the vegetation would be necessary during installation of the treatment system.

To the extent feasible, previously disturbed areas would be utilized for the installation of wells, the infiltration trench, subsurface piping, power lines, and the MTU to minimize impact on cultural and natural resources. However, some temporary disturbance to the vegetation would be necessary during installation of the treatment system. This alternative would require a pipeline crossing beneath Route 28.

Implementability

Installation of the extraction wells, piping, MTU and infiltration trench would be technically feasible. However, construction in a residential neighborhood will require extra safety precautions, coordination with the community and school system, impact to roads and personal property and access agreements with private landowners and the Town of Bourne. Access agreements with the Town of Bourne and numerous private landowners may be necessary for future monitoring well installation and sampling.

Ion Exchange (IX) has been shown to be effective in treating perchlorate. GAC has been shown to be effective in treating RDX. The treatment system would require regular maintenance and monitoring. Experience at other sites suggests that the components would be reliable.

Cost

The present worth costs were estimated for Alternative 4 as follows:

- Capital Cost: $ 3,311,000
- O&M: $ 6,950,000
- Site closeout documentation: $ 88,000

- Total present worth: $10,090,000

Appendix E provides detailed calculations of the cost of Alternative 4.

State Acceptance

This criterion will be evaluated throughout the development, screening and analysis of alternatives based on comments and input received from MassDEP.

Community Acceptance

This criterion will be evaluated throughout the development, screening, and analysis of alternatives based on comments and input received from the MMRCT and the public.

7.1.6 Alternative 4A

Alternative 4A consists of existing extraction well rates for FPR (500 gpm), Pew Road (100 gpm), and Base Boundary (65 gpm), and an off-base extraction well (one downgradient, Off-Base #1 of Lily Pond) pumping at 100 gpm. Extracted water from Off-Base #1 will be piped to a new MTU west of Lily Pond on private property. Treated water from this new MTU will be piped to a new infiltration trench, IT #5 west of Lily Pond on private property. The Alternative is depicted in Figure 7-1 and associated capture zones are presented in Figure 7-2.

Overall Protection of Human Health and the Environment

The groundwater model indicates that perchlorate concentrations are expected to decrease below 15 µg/L by 2015.3, 6 µg/L by 2016.3, below 2 µg/L by approximately 2025.3 and background concentrations (0.35 µg/L) could be achieved by approximately 2059.3. (Table 7-1). The latest date that system influent falls below non-detect is 2028.3. Based on the Alternative 4A animation, perchlorate falls below 2 µg/L by 2017.3 upgradient of Pew Road and 2025.3 downgradient of Pew Road. This exceeds the 9 year criteria outlined in the Decision Document for the area upgradient of Pew Road (2016) and the 11 year criteria for the area downgradient of Pew Road (2018). For RDX, concentrations fall below 6 µg/L by 2015.3, 2 µg/L by 2018.3, below 0.6 µg/L by 2022.3 and background could be achieved by 2025.3. The latest date that system influent falls below non-detect for RDX is 2015.3. Based on the Alternative 4A RDX animation, RDX does not achieve the 11 year criteria for cleanup to the RBC as specified in the Decision Document (2018), until 2022.3 (Table 7-1).

Compliance with Applicable Regulations

Alternative 4A would comply with applicable regulations.

Long-term Effectiveness and Permanence

Both active treatment and natural attenuation components of the alternative would be permanent. Groundwater extraction and treatment would permanently remove some of the perchlorate and RDX from groundwater. The remaining contamination would continue to degrade due to natural attenuation processes, which is also irreversible.

The source response actions already taken addressed the majority of source material, including unexploded ordnance that may be acting as a current source. This alternative includes long-term groundwater monitoring to verify that any possible remaining source will not pose a threat to groundwater. Therefore, this alternative is expected to be effective over the long-term.

Reduction of Toxicity, Mobility, or Volume through Treatment

Extraction and treatment of groundwater would reduce the toxicity, mobility and volume of perchlorate and RDX. Model-predicted mass capture for Alternative 4A is approximately 10.05 pounds of perchlorate and 2.28 pounds of RDX.

Short-term Effectiveness

There will be impacts to the community through the construction and operation of the treatment system components and the installation of monitoring wells and groundwater sampling activities. There would be some effect on the workers during monitoring well construction, sampling, and decommissioning.

A site specific Health and Safety Plan would be followed during construction activities and system operation and monitoring where engineering controls and Personal Protective Equipment would be used as necessary. To date, health and safety precautions for unexploded ordnance clearance, groundwater sampling and drilling have been adequate to protect workers. To the extent feasible, previously disturbed areas would be utilized for the installation of wells, infiltration trenches, subsurface piping, power lines, and the MTUs to minimize impact on cultural and natural resources. However, some temporary disturbance to the vegetation would be necessary during installation of the treatment system.

Implementability

Installation of the extraction well, piping, MTU and infiltration trench would be technically feasible. However, construction in a residential neighborhood will require extra safety precautions, coordination with the community and school system, impact to roads and personal property and access agreements with private landowners and the Town of Bourne. Access agreements with the Town of Bourne and numerous private landowners may be necessary for future monitoring well installation and sampling.

Ion Exchange (IX) has been shown to be effective in treating perchlorate. GAC has been shown to be effective in treating RDX. The treatment system would require regular maintenance and monitoring. Experience at other sites suggests that the components would be reliable.

To the extent feasible, previously disturbed areas would be utilized for the installation of wells, the infiltration trench, subsurface piping, power lines, and the MTU to minimize impact on cultural and natural resources. However, some temporary disturbance to the vegetation would be necessary during installation of the treatment system.

Cost

The present worth costs were estimated for Alternative 4A as follows:

- Capital Cost: $ 1,765,000
- O&M: $ 8,980,000
- Site closeout documentation: $ 88,000
- Total present worth: $10,420,000

Appendix E provides detailed calculations of the cost of Alternative 4A.

State Acceptance

This criterion will be evaluated throughout the development, screening and analysis of alternatives based on comments and input received from MassDEP.

Community Acceptance

This criterion will be evaluated throughout the development, screening, and analysis of alternatives based on comments and input received from the MMRCT and the public.

7.1.7 Alternative 5

Alternative 5 consists of existing extraction well rates for FPR (500 gpm), Pew Road (100 gpm), and Base Boundary (65 gpm), one extraction well (On-Base #1) mid-way between MW-532 and the Base Boundary (80 gpm) and two off-base extraction wells (one upgradient, Off-Base #1 and one downgradient, Off-Base #2 of Lily Pond) pumping at 100 gpm each. Extracted water from On-Base #1 and Off-Base #1 will be piped to the Base Boundary MTU which will need to be upgraded to handle the increased capacity of 245 gpm. Treated water from the Base Boundary MTU will be split between four infiltration trenches (the existing infiltration trench and three new infiltration trenches IT #2, IT #3, and IT #4). The infiltration trenches will be located both to the north and south of the extraction well. Extracted water from Off-Base #2 will be piped to a new MTU west of Lily Pond on private property. Treated water from this new MTU will be piped to a new infiltration trench, IT #5 west of Lily Pond on private property. The Alternative is depicted in Figure 7-1 and associated capture zones are presented in Figure 7-2.

Overall Protection of Human Health and the Environment

The groundwater model indicates that perchlorate concentrations are expected to decrease below 15 µg/L by 2015.3, 6 µg/L by 2016.3, below 2 µg/L by approximately 2021.3 and background concentrations (0.35 µg/L) could be achieved by approximately 2045.3. (Table 7-1). The latest date that system influent falls below non-detect is 2024.3. Based on the Alternative 5 animation (Appendix D), perchlorate falls below 2 µg/L by 2017.3 upgradient of Pew Road and 2021.3 downgradient of Pew Road. This exceeds the 9 year criteria outlined in the Decision Document for the area upgradient of Pew Road (2016) and the 11 year criteria for the area downgradient of Pew Road (2018). For RDX, concentrations fall below 6 µg/L by 2015.3, 2 µg/L by 2018.3, below 0.6 µg/L by 2022.3 and background could be achieved by 2025.3. The latest date that system influent falls below non-detect for RDX is 2016.3. Based on the Alternative 5 RDX animation (Appendix D), RDX does not achieve the 11 year criteria for cleanup to the RBC as specified in the Decision Document (2018), until 2022.3 (Table 7-1).

Compliance with Applicable Regulations

Alternative 5 would comply with applicable regulations.

Long-term Effectiveness and Permanence

Both active treatment and natural attenuation components of the alternative would be permanent. Groundwater extraction and treatment would permanently remove some of the perchlorate and RDX from groundwater. The remaining contamination would continue to degrade due to natural attenuation processes, which is also irreversible.

The source response actions already taken addressed the majority of source material, including unexploded ordnance that may be acting as a current source. This alternative includes long-

term groundwater monitoring to verify that any possible remaining source will not pose a threat to groundwater. Therefore, this alternative is expected to be effective over the long-term.

Reduction of Toxicity, Mobility, or Volume through Treatment

Extraction and treatment of groundwater would reduce the toxicity, mobility and volume of perchlorate and RDX. Model-predicted mass capture for Alternative 5 is approximately 11.55 pounds of perchlorate and 2.52 pounds of RDX.

Short-term Effectiveness

There will be impacts to the community through the construction and operation of the treatment system components and the installation of monitoring wells and groundwater sampling activities. There would be some effect on the workers during monitoring well construction, sampling, and decommissioning.

A site specific Health and Safety Plan would be followed during construction activities and system operation and monitoring where engineering controls and Personal Protective Equipment would be used as necessary. To date, health and safety precautions for unexploded ordnance clearance, groundwater sampling and drilling have been adequate to protect workers. To the extent feasible, previously disturbed areas would be utilized for the installation of wells, infiltration trenches, subsurface piping, power lines, and the MTUs to minimize impact on cultural and natural resources. However, some temporary disturbance to the vegetation would be necessary during installation of the treatment system.

Implementability

Installation of the extraction well, piping, infiltration trench and MTU would be technically feasible. However, construction in a residential neighborhood will require extra safety precautions, coordination with the community and school system, impact to roads and personal property and access agreements with private landowners and the Town of Bourne. Multiple easements with the Town of Bourne and private landowners will be necessary.

Ion Exchange (IX) has been shown to be effective in treating perchlorate. GAC has been shown to be effective in treating RDX. The treatment system would require regular maintenance and monitoring. Experience at other sites suggests that the components would be reliable.

To the extent feasible, previously disturbed areas would be utilized for the installation of wells, the infiltration trench, subsurface piping, power lines, and the MTU to minimize impact on cultural and natural resources. However, some temporary disturbance to the vegetation would be necessary during installation of the treatment system. This alternative would require a pipeline crossing beneath Route 28.

Cost

The present worth costs were estimated for Alternative 5 as follows:

- Capital Cost: $ 4,820,000
- O&M: $ 7,480,000
- Site closeout documentation: $ 88,000
- Total present worth: $12,100,000

Appendix E provides detailed calculations of the cost of Alternative 5.

State Acceptance

This criterion will be evaluated throughout the development, screening and analysis of alternatives based on comments and input received from MassDEP.

Community Acceptance

This criterion will be evaluated throughout the development, screening, and analysis of alternatives based on comments and input received from the MMRCT and the public.

7.1.8 Alternative 6A

Alternative 6A consists of existing extraction rates for Pew Road (100 gpm) and Base Boundary (65 gpm), and FPR simulated at 400 gpm (with D1-EW-503 shut off in April 2014), and an additional extraction well in proximity to MW-31M (On-Base #2) to reduce the time-frame for RDX to reach D1-EW-501. The additional well would be extracting groundwater at 75 gpm. Extracted water from On-Base #2 will be piped to the FPR MTU and the treated water re-injected at wells D1-IW-1 and D1-IW-5 with flows split approximately equal. Three additional monitoring wells would need to be installed in order to track the off-base portion of the plume. The Alternative is depicted in Figure 7-1 and associated capture zones are presented in Figure 7-2.

Overall Protection of Human Health and the Environment

The groundwater model indicates that perchlorate concentrations are expected to decrease below 15 µg/L by 2015.3, 6 µg/L by 2016.3, below 2 µg/L by approximately 2026.3 and background concentrations (0.35 µg/L) could be achieved by 2059.3. The latest date that system influent falls below non-detect is 2025.3. Based on the Alternative 6A animation (Appendix D), perchlorate falls below 2 µg/L by 2017.3 upgradient of Pew Road and 2026.3 downgradient of Pew Road. This exceeds the 9 year criteria outlined in the Decision Document for the area upgradient of Pew Road (2016) and the 11 year criteria for the area downgradient of Pew Road (2018). For RDX, concentrations fall below 6 µg/L by 2015.3, 2 µg/L by 2017.3, below 0.6 µg/L by 2020.3 and background could be achieved by 2021.3. The latest date that system influent falls below non-detect for RDX is 2018.3. Based on the Alternative 6 RDX animation (Appendix D), RDX does not achieve the 11 year criteria for cleanup to the RBC as specified in the Decision Document (2018), until 2020.3 (Table 7-1).

Compliance with Applicable Regulations

Alternative 6a would comply with applicable regulations.

Long-term Effectiveness and Permanence

Both active treatment and natural attenuation components of the alternative would be permanent. Groundwater extraction and treatment would permanently remove some of the perchlorate and RDX from groundwater. The remaining contamination would continue to degrade due to natural attenuation processes, which is also irreversible.

The source response actions already taken addressed the majority of source material, including unexploded ordnance that may be acting as a current source. This alternative includes long-term groundwater monitoring to verify that any possible remaining source will not pose a threat to groundwater. Therefore, this alternative is expected to be effective over the long-term.

Reduction of Toxicity, Mobility, or Volume through Treatment

Extraction and treatment of groundwater would reduce the toxicity, mobility and volume of perchlorate and RDX. Model-predicted mass capture for Alternative 6a is approximately 6.37 pounds of perchlorate and 2.13 pounds of RDX. Under this alternative, perchlorate is simulated to migrate approximately 1,000 feet downgradient of County Road before attenuating to below 2 ug/L by 2021.3.

Short-term Effectiveness

There will be impacts to the community through installation of monitoring wells and groundwater sampling activities. There would be some effect on the workers during monitoring well construction, sampling, and decommissioning.

A site specific Health and Safety Plan would be followed during construction activities and system operation and monitoring where engineering controls and Personal Protective Equipment would be used as necessary. To date, health and safety precautions for unexploded ordnance clearance, groundwater sampling and drilling have been adequate to protect workers. To the extent feasible, previously disturbed areas would be utilized for the installation of wells, infiltration trenches, subsurface piping, power lines, and the MTUs to minimize impact on cultural and natural resources. However, some temporary disturbance to the vegetation would be necessary during installation of the treatment system.

Implementability

Installation of the extraction wells and piping would be technically feasible. However, construction in a residential neighborhood will require extra safety precautions, coordination with the community and school system, impact to roads and personal property and easements with private landowners and the Town of Bourne. Access agreements with the Town of Bourne and private landowners may be necessary for future monitoring well installation and sampling.

Ion Exchange (IX) has been shown to be effective in treating perchlorate. GAC has been shown to be effective in treating RDX. The treatment system would require regular maintenance and monitoring. Experience at other sites suggests that the components would be reliable.

To the extent feasible, previously disturbed areas would be utilized for the installation of wells, the infiltration trench, subsurface piping, power lines, and the MTU to minimize impact on cultural and natural resources. However, some temporary disturbance to the vegetation would be necessary during installation of the treatment system.

Cost

The present worth costs were estimated for Alternative 6a as follows:

- Capital Cost: $ 2,235,000
- O&M: $ 8,840,000
- Site closeout documentation: $ 88,000
- Total present worth: $10,650,000

Appendix E provides detailed calculations of the cost of Alternative 6a.

State Acceptance

This criterion will be evaluated throughout the development, screening and analysis of alternatives based on comments and input received from MassDEP.

Community Acceptance

This criterion will be evaluated throughout the development, screening, and analysis of alternatives based on comments and input received from the MMRCT and the public.

7.1.9 Alternative 7

Alternative 7 consists of a reduced flow at the FPR system (400 gpm after 1 April 2014) (D1-EW-1, 150 gpm, D1-EW-501, 150 gpm, D1-EW-501, 100 gpm and D1-EW-503 offline as of 1 April 2014), Pew Road (100 gpm), Base Boundary (65 gpm until 1 April 2014 when the rate is increased to 110 gpm), three new extraction wells upgradient of D1-EW-501 in order to reduce the RDX cleanup time (On-Base #4, 75 gpm, On-Base #5, 75 gpm, and On-Base #6, 75 gpm), one new extraction well upgradient of D1-EW-2 (On-Base #3, 100 gpm), two new extraction wells upgradient of D1-EW-3 (On-Base #1, 80 gpm and On-Base #2, 80 gpm), two new extraction wells upgradient of Lily Pond (Off-Base #1, 100 gpm and Off-Base #2, 100 gpm), one new extraction well beneath Lily Pond (Off-Base #3, 100 gpm), and two new extraction wells downgradient of Lily Pond (Off-Base #4, 100 gpm and Off-Base #5, 100 gpm).

Extracted water from On-Base #4, #5, and #6 will be piped to the FPR MTU for a total flow at that system of 625 gpm. The FPR system was designed to handle up to 1,000 gpm so, other than adding piping to the treatment plant, additional treatment trains are not required. Extracted water from On-Base #3 will be piped to the Pew Road MTU, which would be upgraded to handle a flow of 200 gpm. Extracted water from On-Base #1 and #2 will be piped to a new MTU at the Base Boundary. Extracted water from Off-Base #1 and Off-Base #2 will be piped to the Base Boundary MTU which will be upgraded to handle the increased capacity of 470 gpm. Extracted water from Off-Base #3, #4, and #5 will be piped to a new MTU west of Lily Pond on private property. Treated water from the Base Boundary MTU will be split between a series of infiltration trenches located to the north and south of extraction well D1-EW-3. For the purpose of modeling, they were handled as 8 linear trenches (the existing infiltration trench and seven new infiltration trenches IT #2 - IT #8). Treated water from the new MTU west of Lily Pond will be piped to a three new infiltration trenches, IT #9 - #11 located to the west and north of Lily Pond. If this 10 year alternative was selected, the final design may differ slightly for groundwater recharge. The Alternative is depicted in Figure 7-1 and associated capture zones are presented in Figure 7-2.

Overall Protection of Human Health and the Environment

The groundwater model indicates that perchlorate concentrations are expected to decrease below 15 µg/L by 2015.3, 6 µg/L by 2016.3, below 2 µg/L by approximately 2017.3 and background concentrations (0.35 µg/L) could be achieved by 2032.3. The latest date that system influent falls below non-detect is 2022.3. Based on the Alternative 7 animation (Appendix D), perchlorate falls below 2 µg/L by 2016.3 upgradient of Pew Road, and 2017.3 downgradient of Pew Road. This meets the 9 year criteria outlined in the Decision Document for the area upgradient of Pew Road (2016) and the 11 year criteria for the area downgradient of Pew Road (2018). For RDX, concentrations fall below 6 µg/L by 2015.3, 2 µg/L by 2016.3, below 0.6 µg/L by 2017.3 and background could be achieved by 2019.3. The latest date that

system influent falls below non-detect for RDX is 2017.3. Based on the Alternative 7 RDX animation (Appendix D), RDX meets the 11 year criteria for cleanup to the RBC as specified in the Decision Document (2018) (Table 7-1).

Compliance with Applicable Regulations

Alternative 7 would comply with applicable regulations.

Long-term Effectiveness and Permanence

Both active treatment and natural attenuation components of the alternative would be permanent. Groundwater extraction and treatment would permanently remove some of the perchlorate and RDX from groundwater. The remaining contamination would continue to degrade due to natural attenuation processes, which is also irreversible.

The source response actions already taken addressed the majority of source material, including unexploded ordnance that may be acting as a current source. This alternative includes long-term groundwater monitoring to verify that any possible remaining source will not pose a threat to groundwater. Therefore, this alternative is expected to be effective over the long-term.

Reduction of Toxicity, Mobility, or Volume through Treatment

Extraction and treatment of groundwater would reduce the toxicity, mobility and volume of perchlorate and RDX. Model-predicted mass capture for Alternative 7 is approximately 11.92 pounds of perchlorate and 2.57 pounds of RDX.

Short-term Effectiveness

There will be significant impacts to the community through the construction and operation of the treatment system components and installation of monitoring wells and groundwater sampling activities. There would be some effect on the workers during monitoring well construction, sampling, and decommissioning.

A site specific Health and Safety Plan would be followed during construction activities and system operation and monitoring where engineering controls and Personal Protective Equipment would be used as necessary. To date, health and safety precautions for unexploded ordnance clearance, groundwater sampling and drilling have been adequate to protect workers. To the extent feasible, previously disturbed areas would be utilized for the installation of wells, infiltration trenches, subsurface piping, power lines, and the MTUs to minimize impact on cultural and natural resources. However, some temporary disturbance to the vegetation would be necessary during installation of the treatment system.

Implementability

Installation of the extraction wells, piping, MTUs, and infiltration trenches would be technically feasible. However, construction in a residential neighborhood will require extra safety precautions, coordination with the community and school system, impact to roads and personal property and easements with private landowners and the Town of Bourne. Access agreements with the Town of Bourne and private landowners will be necessary.

Ion Exchange (IX) has been shown to be effective in treating perchlorate. GAC has been shown to be effective in treating RDX. The treatment system would require regular maintenance and monitoring. Experience at other sites suggests that the components would be reliable.

To the extent feasible, previously disturbed areas would be utilized for the installation of wells, the infiltration trench, subsurface piping, power lines, and the MTU to minimize impact on cultural and natural resources. However, some temporary disturbance to the vegetation would be necessary during installation of the treatment system. This alternative would require a pipeline crossing beneath Route 28.

Cost

The present worth costs were estimated for Alternative 7 as follows:

- Capital Cost: $ 12,670,000
- O&M: $ 4,520,000
- Site closeout documentation: $ 88,000
- Total present worth: $ 17,270,000

Appendix E provides detailed calculations of the cost of Alternative 7.

State Acceptance

This criterion will be evaluated throughout the development, screening and analysis of alternatives based on comments and input received from MassDEP.

Community Acceptance

This criterion will be evaluated throughout the development, screening, and analysis of alternatives based on comments and input received from the MMRCT and the public.

7.2 Comparison of Alternatives

A comparative analysis was conducted to evaluate the relative performance of each alternative in relation to each criterion. The presentation of the comparative analysis refers to each alternative by its number.

Overall Protection of Human Health and the Environment

All of the alternatives would be protective of human health and the environment.

Alternative	Estimated Year for RDX Cleanup			Estimated Year for Perchlorate Cleanup	
	6 µg/L	2 µg/L	0.6 µg/L	15 µg/L	2 µg/L
1	2015.3	2018.3	2022.3	2015.3	2026.3
2	2015.3	2018.3	2022.3	2015.3	2026.3
3	2015.3	2018.3	2022.3	2015.3	2021.3
4	2015.3	2018.3	2022.3	2015.3	2021.3
4A	2015.3	2018.3	2022.3	2015.3	2025.3
5	2015.3	2018.3	2022.3	2015.3	2021.3
6a	2015.3	2017	2020.3	2015.3	2026.6
7	2015.3	2016.3	<2017.3	2015.3	<2017.3

Compliance with Regulations

All alternatives are eventually expected to result in compliance with applicable regulations.

Long-Term Effectiveness and Permanence

The source area has been removed so residual soil contamination is unlikely to compromise the permanence of the remedial alternatives once completed. Alternatives 3, 4, 4A, 5, and 7 provide additional capture in the off-base portion of the plume with off-base extraction wells. Since Alternatives 4, 4A, 5, and 7 capture more of the plume, there is less uncertainty regarding the fate of the plume that remains and migrates dowgradient. All of the alternatives would permanently achieve the cleanup goals; however, time to cleanup would vary.

Reduction of Toxicity, Mobility, or Volume through Treatment

All of the alternatives reduce the toxicity, mobility and volume of contaminated groundwater through treatment. There is the possibility for the plume to migrate beyond County Road in Alternatives 1, 2 and 6A because no treatment is proposed for the off-base portion of the plume. Alternatives 4, 4A, 5, and 7 remove the most mass, providing the greatest reduction of toxicity, mobility and volume through treatment.

Alternative	Mass Captured (pounds)	
	Perchlorate	RDX
1	6.43	2.06
2	6.37	2.06
3	7.99	2.24
4	10.55	2.42
4A	10.05	2.28
5	11.55	2.52
6a	6.37	2.13
7	11.92	2.57

Short-Term Effectiveness

Alternatives 1 and 2 and have the least impact on workers, the community, and the environment since they require only limited construction activities. Alternative 7 would cause the most significant impact to the environment, community and workers and includes the installation of extraction wells, piping, MTUs, infiltration trenches, and other treatment system components. Alternatives 3, 4, 4A, and 7 require construction of components off-base. However, Alternative 4A impacts would be less because the location of the treatment system would be located on private property and not within public road ways. In addition, all alternatives would eventually involve construction to decommission the wells and treatment facilities.

Implementability

Alternatives 1 and 2 are the most easily implemented alternatives since they require no further action other than continued operation and maintenance of the current Demo 1 treatment systems. Alternatives 3 through 7 would require installation of new extraction wells, infiltration trenches, MTUs, and other treatment system components both on and off-post. In addition, Alternatives 3 through 7 will require extra safety precautions, coordination with the community and school system, impact to roads and personal property and easements with private landowners and the Town of Bourne.

Cost

The costs of the alternatives increase as the amount of treatment increases.

Alternative	Capital Costs	Baseline Monitoring Costs	Monitoring Costs	O&M Costs	Site Closeout Costs	Total Cost (0% Discount)	Total Cost (with Discount)
1	$889,350	--	$1,860,664	$6,615,000	$88,000	$9,453,014	$8,976,878
2	$889,350	--	$1,860,664	$6,019,650	$88,000	$8,857,664	$8,411,287
3	$1,978,570	$29,700	$1,434,326	$4,961,250	$88,000	$8,491,846	$8,246,741
4	$3,310,890	$59,400	$1,434,326	$5,457,375	$88,000	$10,349,991	$10,085,523
4A	$1,764,070	$29,700	$1,782,534	$7,166,250	$88,000	$10,830,554	$10,416,364
5	$4,819,210	$89,100	$1,434,326	$5,953,500	$88,000	$12,384,136	$12,100,306
6A	$2,231,020	$29,700	$1,860,664	$6,945,750	$88,000	$11,155,134	$10,650,643
7	$12,670,020	$326,700	$1,328,036	$2,866,500	$88,000	$17,279,256	$17,267,455

State Acceptance

This criterion will be addressed in detail following comments received on the Remedy Selection Plan.

Community Acceptance

This criterion will be addressed in detail following comments on the Remedy Selection Plan.

8.0 REFERENCES

AMEC, 2005. Final Technical Memorandum 01-17, Feasibility Study, Demo 1 Groundwater Operable Unit, prepared by AMEC Earth & Environmental, Inc., Westford, Massachusetts, for the United States Army Corps of Engineers and the Impact Area Groundwater Study Program, August 19, 2005.

Brown & Caldwell, 2003. Design Report, Proposed Wastewater Treatment Facility, Pcasset Mobile Home Park, Bourne, Massachusetts, Brown and Caldwell, Middleborough, Massachusetts 02346, November, 2003, Revised August, 2006.

IAGWSP, 2013. Project Note, Subject: Demolition Area 1 Technical Memorandum Work Scope, Impact Area Groundwater Study Program, 31 January 2013.

USACE, 2013. Draft Demolition Area 1 Environmental and System Performance Monitoring Report, Response Action Groundwater Treatment Systems, September 2011 to August 2012, prepared by the United States Army Corps of Engineers, New England District for the Impact Area Groundwater Study Program, March, 2013.

USACE, 2012a. Final Demolition Area 1 Environmental and System Performance Monitoring Report, Response Action Groundwater Treatment Systems, September 2010 to August 2011, prepared by the United States Army Corps of Engineers, New England District for the Impact Area Groundwater Study Program, June, 2012.

USACE, 2012b. *Demolition Area 1 Groundwater Plume, Leading Edge Modeling Presentation,* prepared by the United States Army Corps of Engineers, New England District for the Impact Area Groundwater Study Program, September 13, 2012.

USEPA, 2012. Letter to Impact Area Groundwater Study Program, RE: Demolition Area 1 Groundwater Plume, Leading Edge Groundwater Modeling Comments, United States Environmental Protection Agency, September 26, 2012.

USEPA, 2006. Decision Document, Demolition Area 1 Groundwater Operable Unit, Camp Edwards, Massachusetts Military Reservation, Cape Cod, Massachusetts. November 1, 2006. United States Environmental Protection Agency, Region 1, Boston, MA. (EDMS Doc. ID 9136)

FIGURES

December 2011

March 2012

November 5&6 2012

Power Lines

Pew Rd

Esstey Rd

Frank Perkins Rd

Milton Rd

bing

Image courtesy of USGS © 2013 Microsoft Corporation

Impact Area Groundwater Study Program

LEGEND

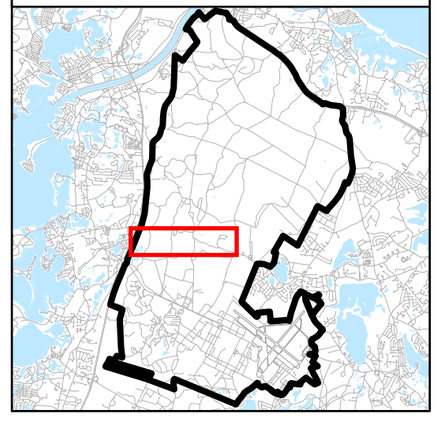
- Existing Monitoring Well
- Extraction Well
- Injection Well

Perchlorate in Groundwater

- 2 to 6 ppb
- 6 to 15 ppb
- 15 to 200 ppb
- Measured Groundwater Elevation Contours Under Pumping Conditions
- Groundwater Flow Vectors

Note: Groundwater data through March 2013.
Contour lines dashed where inferred.

LOCATION MAP



NOTES & SOURCES

Basemap data from US Geological Survey 7 1/2 minute Topographic Maps. Source: MassGIS
Aerial Photos: Color Digital Orthophotos:
Date Flown: 2002 Source: EarthData International

TITLE

Water Levels Measured in
Winter 2011 (12/12/11)
Spring 2012 (3/26/12) and
Fall 2012 (11/5-6/12)
Demolition Area 1
Groundwater Operable Unit
Technical Memorandum

0 1,000 Feet

N

US Army Corps of Engineers
New England District

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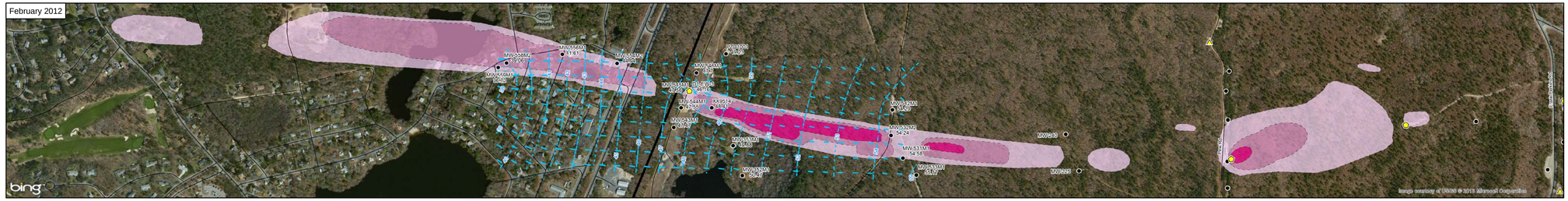
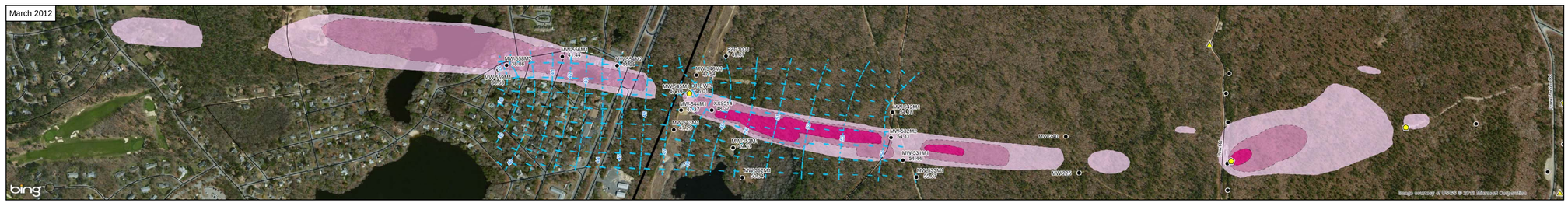
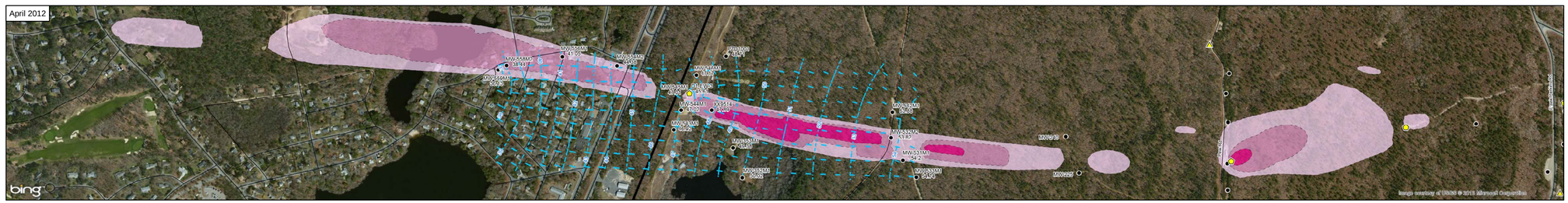
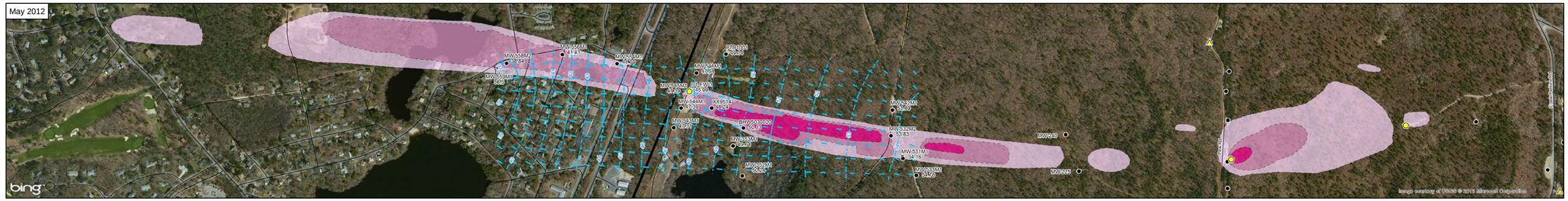
M:\MMR\2013\Demo1\TechMemo\MXDs\Fig4-1_051013.mxd
May 10, 2013 DWN: MTW CHKD: MRK

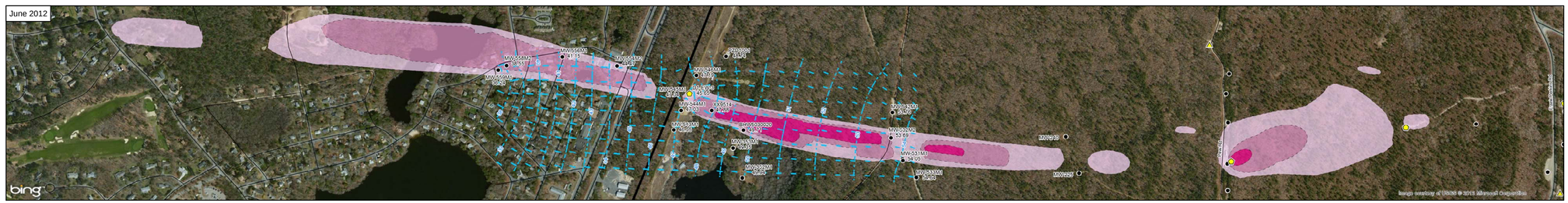
FIGURE 4-1

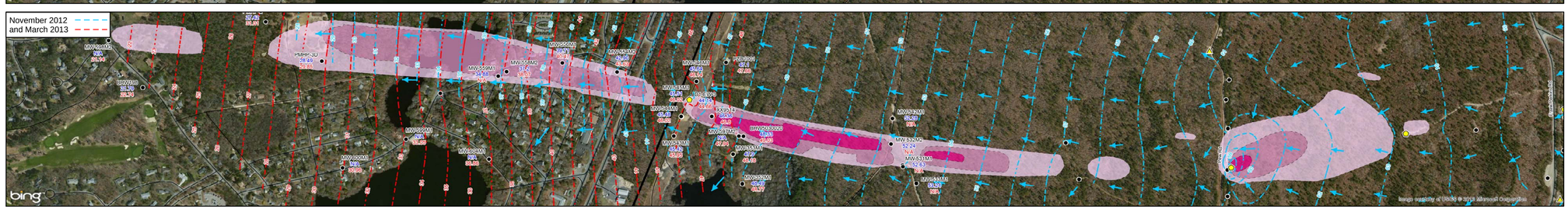












Impact Area Groundwater Study Program

LEGEND

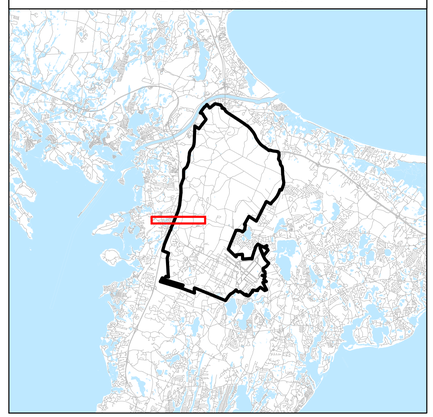
- Existing Monitoring Well
- Extraction Well

Perchlorate in Groundwater

- 2 to 6 ppb
- 6 to 15 ppb
- 15 to 200 ppb
- Measured Groundwater Elevation Contours Under Pumping Conditions
- Groundwater Flow Vectors

Note: Groundwater data through March 2013.
Contour lines dashed where inferred.

LOCATION MAP



NOTES & SOURCES

Basemap data from US Geological Survey 7 1/2 minute Topographic Maps. Source: MassGIS
Aerial Photos: Color Digital Orthophotos:
Date Flown: 2002 Source: EarthData International

TITLE

Water Levels Measured on
February 29, 2012, March 21, 2012,
April 24, 2012, May 24, 2012
June 26, 2012, November 5-6, 2012, and March 1, 2013
Demolition Area 1
Groundwater Operable Unit
Technical Memorandum

0 500 Feet

N

US Army Corps of Engineers
New England District

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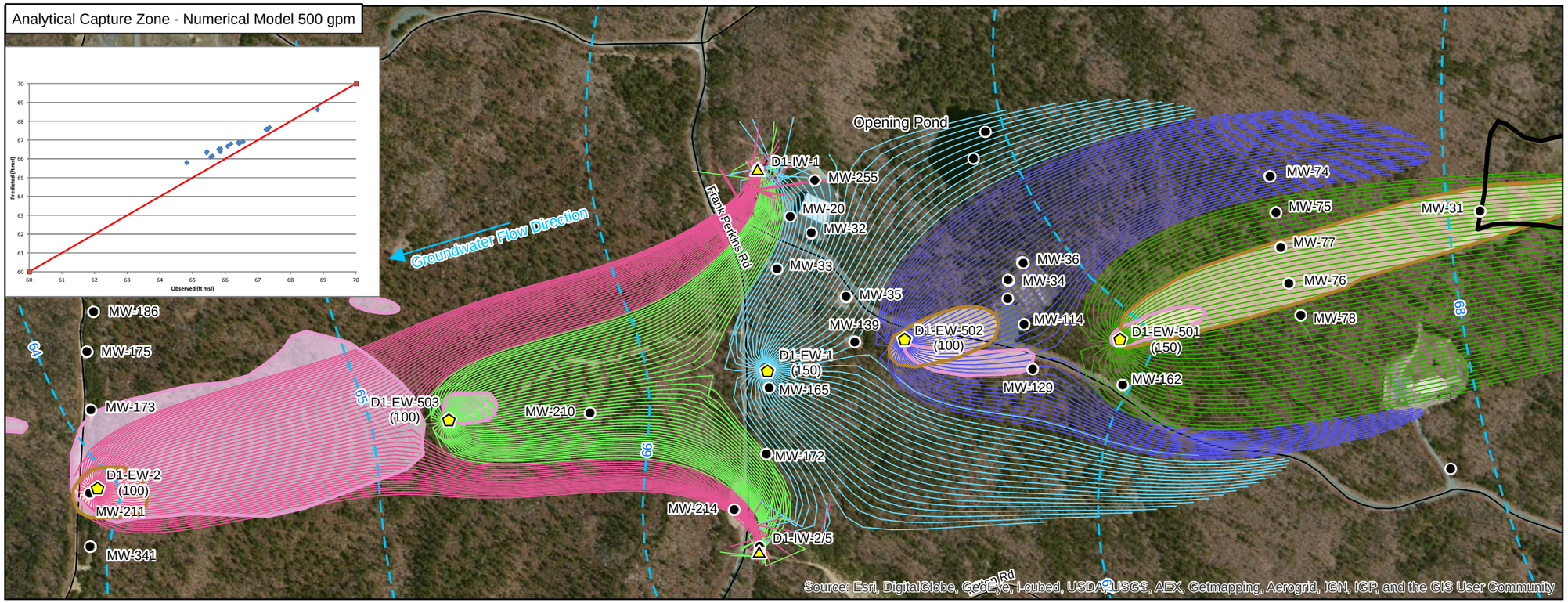
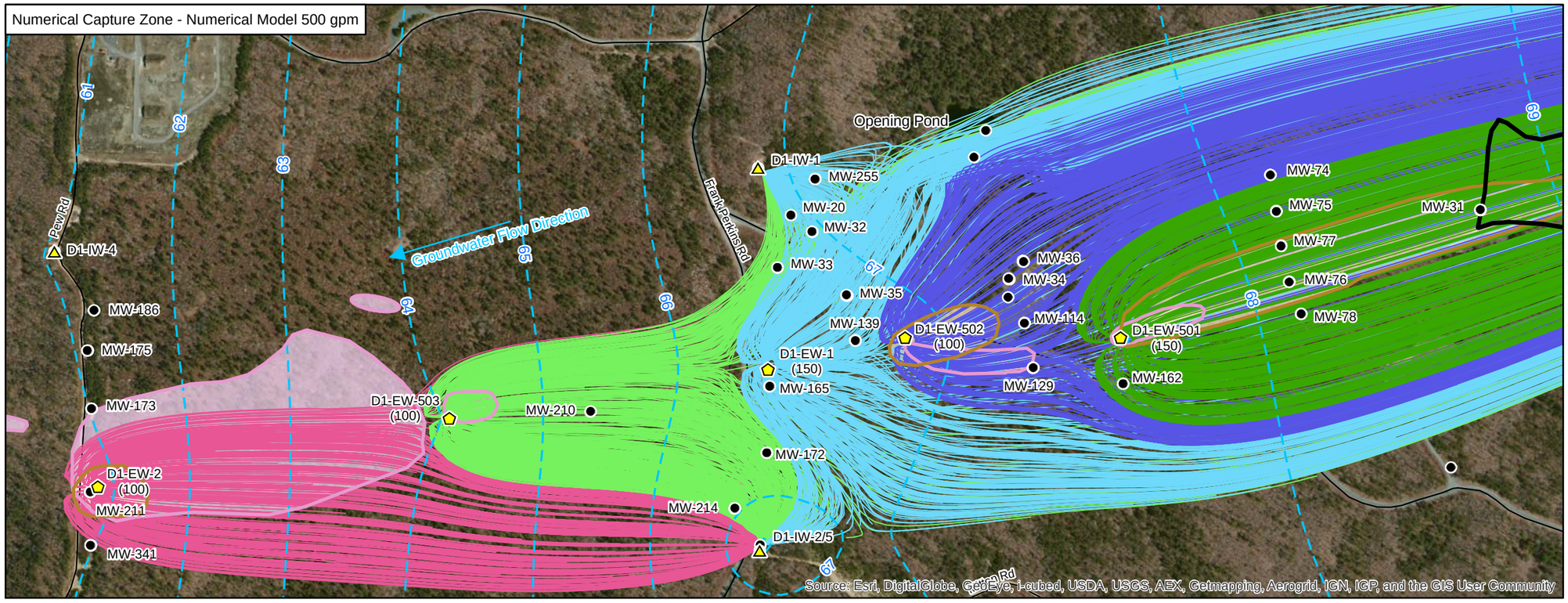
May 10, 2013 DWN: MTW CHK'D: MRK

FIGURE
4-2

Analytical Capture Zone - Numerical Model 500 gpm



Numerical Capture Zone - Numerical Model 500 gpm



Impact Area Groundwater Study Program

LEGEND

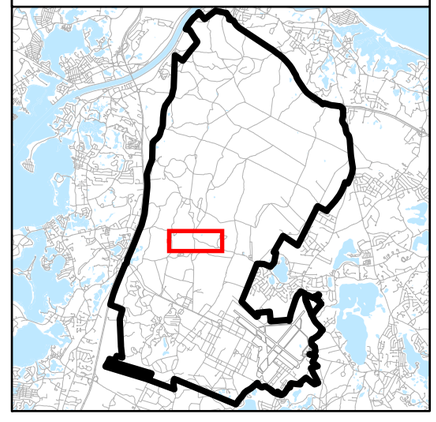
- Monitoring Well
- Extraction Well
- Injection Well
- (100) Extraction Well Flow Rate - gpm
- Perchlorate Plume > 2ppb
- RDX Plume > 0.6 ppb
- Model-Simulated Groundwater Elevation Contours Under Specified Pumping Conditions

Model-Simulated Streamlines defining Capture Zone

- D1-EW-1
- D1-EW-2
- D1-EW-501
- D1-EW-502
- D1-EW-503

Note: Groundwater data through March 2013.
Contour lines dashed where inferred.

LOCATION MAP



NOTES & SOURCES

Basemap data from US Geological Survey 7 1/2 minute Topographic Maps. Source: MassGIS
Aerial Photos: Color Digital Orthophotos:
Date Flown: 2002 Source: EarthData International

TITLE

20 Year Analytical Capture Zones (Top) and Numerical Flow Model Capture Zones (Bottom) 500 gpm

0 500 Feet

US Army Corps of Engineers
New England District

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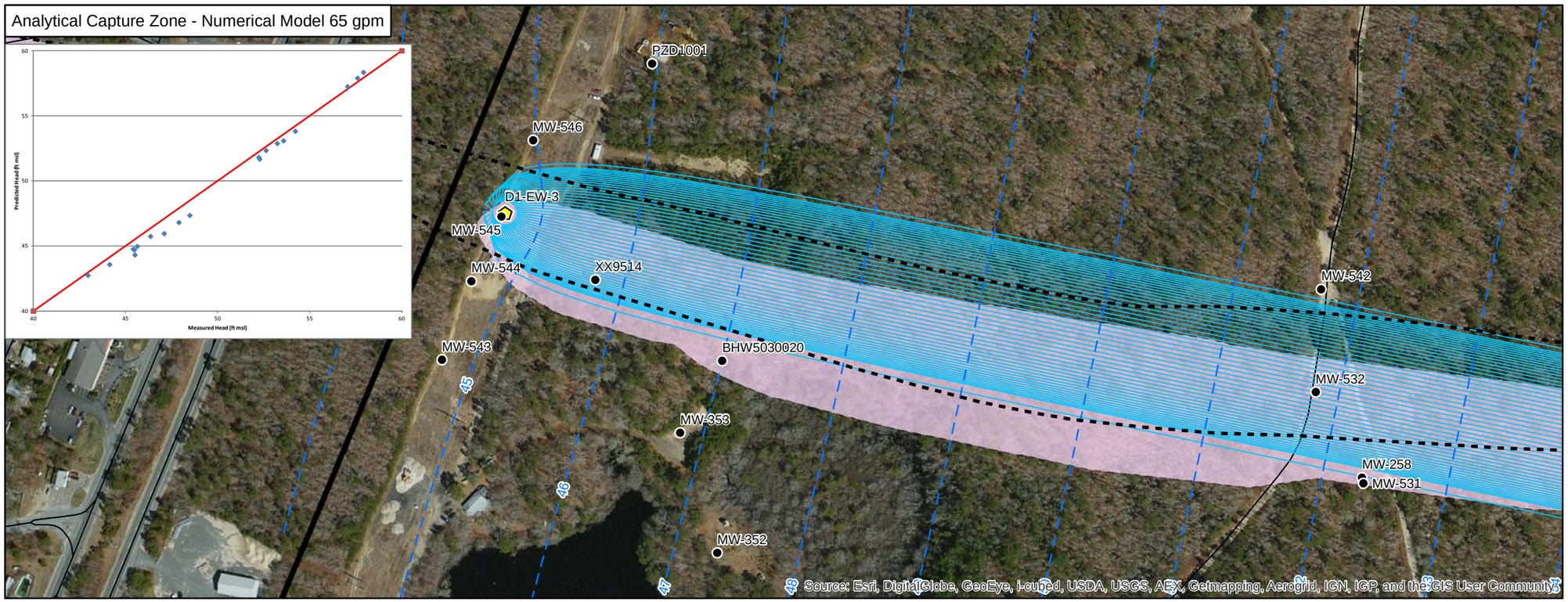
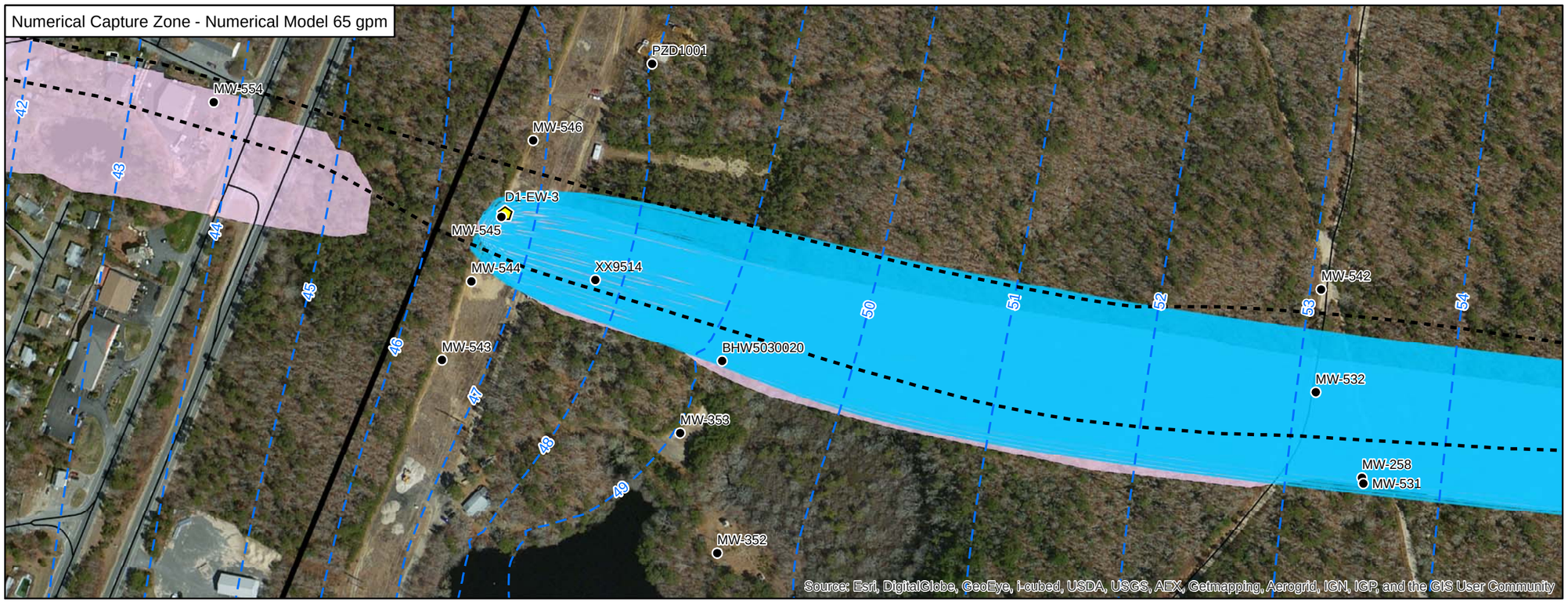
May 13, 2013 DWN: MTW CHKD: MRK

FIGURE
4-3

Analytical Capture Zone - Numerical Model 65 gpm



Numerical Capture Zone - Numerical Model 65 gpm



Impact Area Groundwater Study Program

LEGEND

- Existing Monitoring Well
- Extraction Well
- Injection Well

Perchlorate in Groundwater, data through March 2011

- > 2 ppb

Perchlorate in Groundwater, data through March 2013

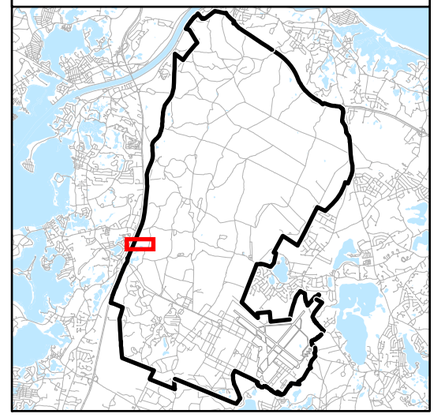
- > 2ppb

- Model-Simulated Groundwater Elevation Contours Under Pumping Conditions

Model-Simulated Streamlines defining Capture Zone

- D1-EW-3

LOCATION MAP



NOTES & SOURCES

Basemap data from US Geological Survey 7 1/2 minute Topographic Maps. Source: MassGIS
Aerial Photos: Color Digital Orthophotos:
Date Flown: 2002 Source: EarthData International

TITLE

20 Year Analytical Capture Zones (Top) and Numerical Flow Model Capture Zones (Bottom) 65 gpm

0 250 Feet

N

US Army Corps of Engineers
New England District

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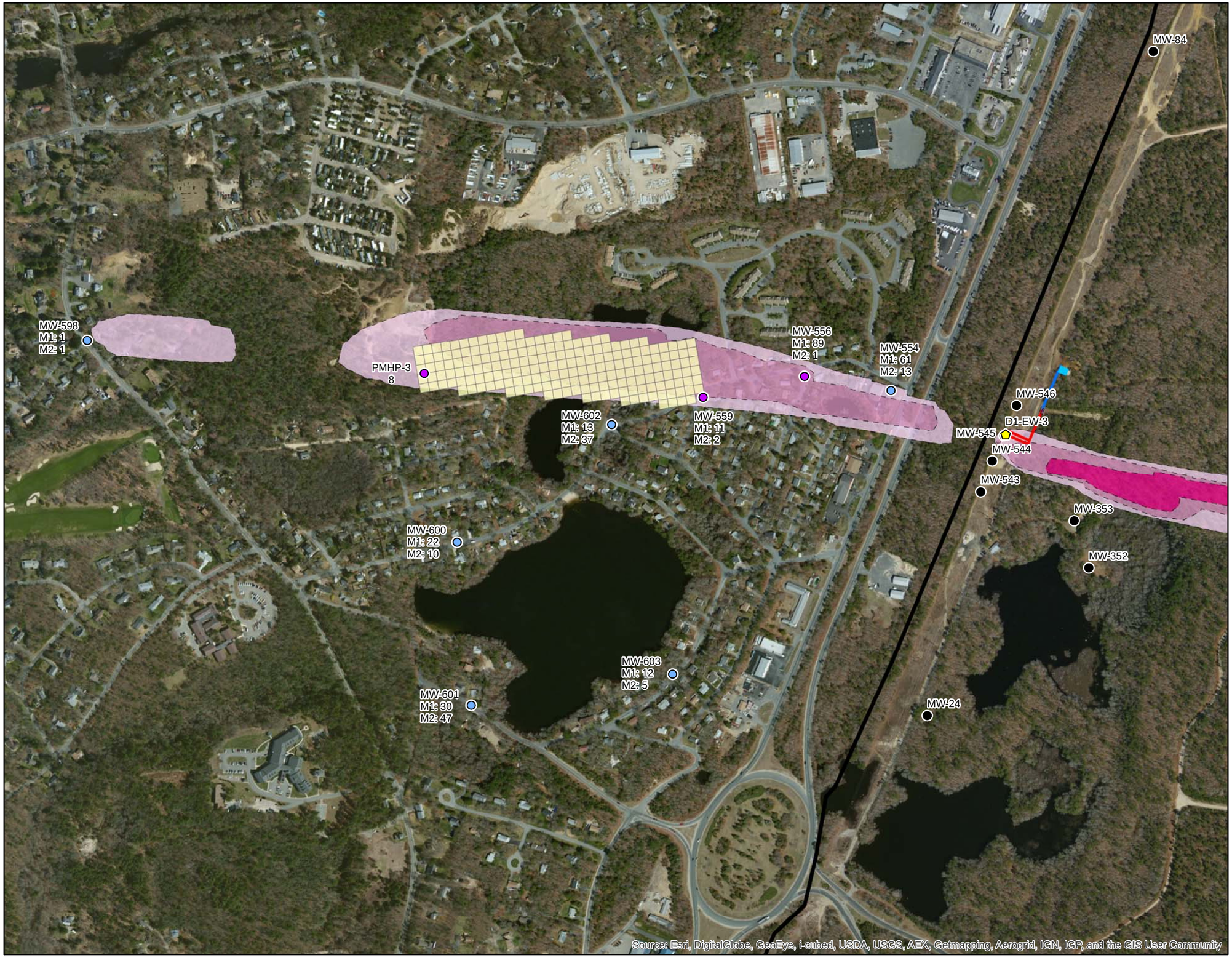
M:\MMR\2013\Demo1\TechMemo\MXDs\Fig4-4_051313.mxd
May 22, 2013 DWN: MTW CHKD: MRK

FIGURE 4-4



Impact Area Groundwater Study Program

LEGEND

- Extraction Well
- Monitoring Well

Slug Tested Wells

Hydraulic Conductivity listed in feet/day

- Falling - Slug In
- Pneumatic

- Influent Pipeline
- Effluent Pipeline
- Infiltration Trench

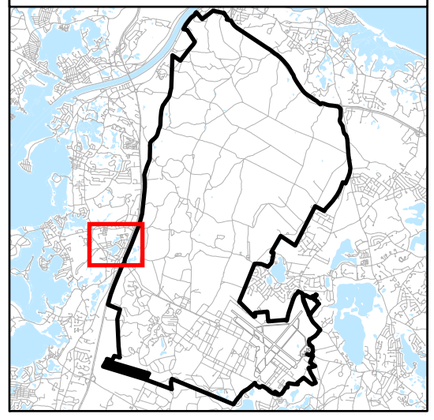
Perchlorate in Groundwater

- 2 to 6 ppb
- 6 to 15 ppb
- 15 to 200 ppb

Clay Layer

Note: Groundwater data through March 2013.
Contour lines dashed where inferred.

LOCATION MAP



NOTES & SOURCES

Basemap data from US Geological Survey 7 1/2 minute Topographic Maps. Source: MassGIS

TITLE

Slug Tested Wells
Demo 1 Groundwater Operable Unit

0 500 Feet

N

US Army Corps of Engineers
New England District

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May 14, 2013 DWN: MTW CHKD: MRK

FIGURE
4-5

Impact Area Groundwater Study Program

LEGEND

- Extraction Well
- Injection Well
- Monitoring Well
- Staff Gauge
- Boring

Perchlorate Detections in Groundwater

- No Detection
- Detection at or below 2 µg/L
- Detection above 2 µg/L
- Indicates different detections in different well screens

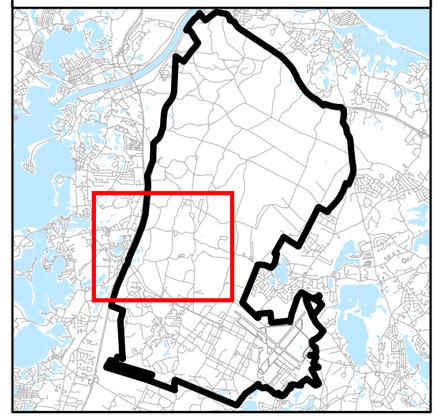
Note: Color denotes maximum concentration detected during the reporting period.

Perchlorate in Groundwater

- 2 to 15 ppb
- 15 to 200 ppb
- A A' Cross Section

Note: Plume shell illustrated is representative of widest observed at each transect cross-section Groundwater data through August 2012. Contour lines dashed where inferred.

LOCATION MAP



NOTES & SOURCES

Basemap data from US Geological Survey 7 1/2 minute Topographic Maps. Source: MassGIS

TITLE

Perchlorate Distribution in Groundwater
As of August 2012 Sampling Round
Demolition Area 1
Groundwater Operable Unit
Technical Memorandum

0 1,250 Feet

N

US Army Corps of Engineers
New England District

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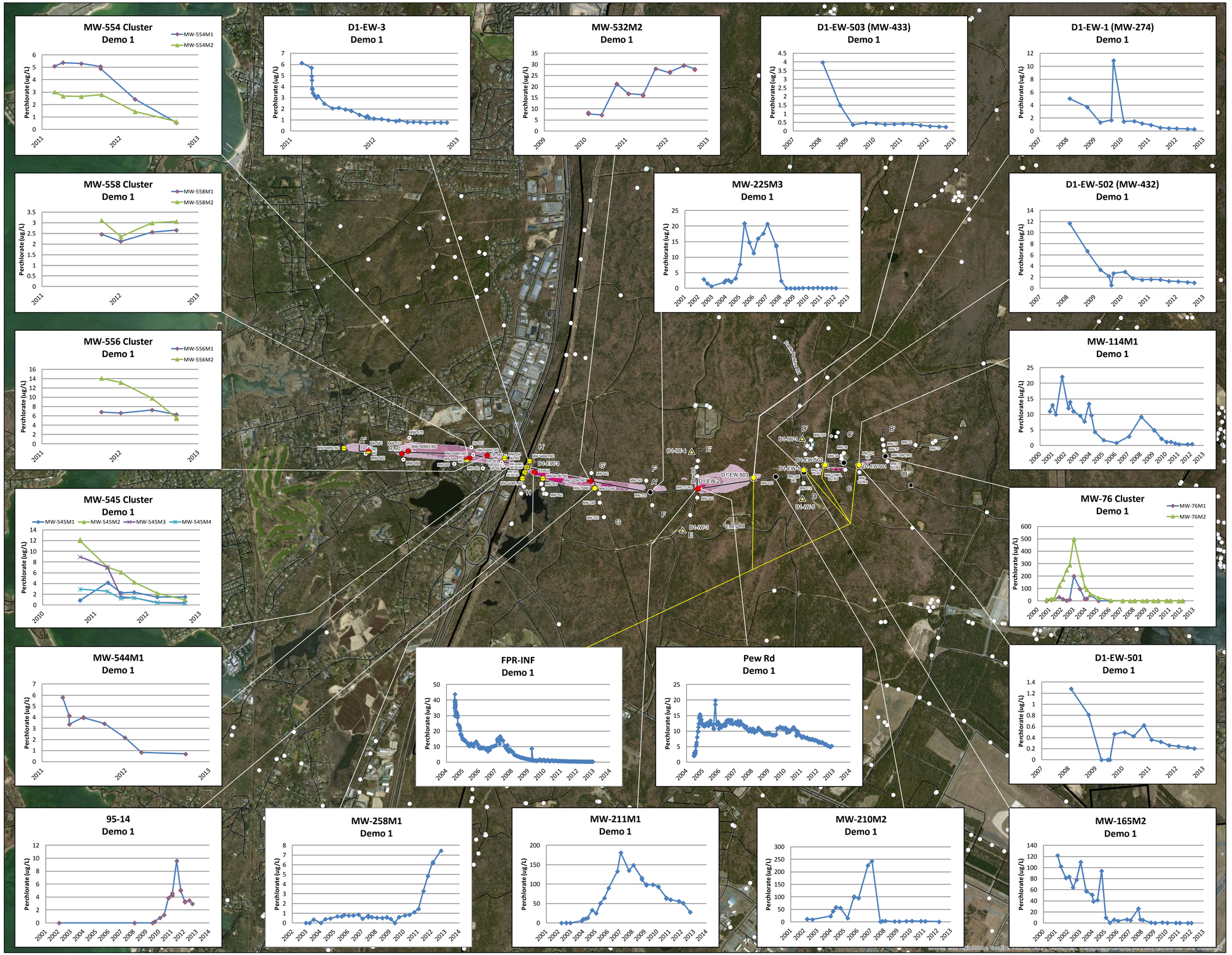
June 26, 2013 DWN: MTW CHKD: MRK

FIGURE 5-1



Impact Area Groundwater Study Program

LEGEND

- Extraction Well
- Injection Well
- Monitoring Well
- Staff Gauge
- Boring

Perchlorate Detections in Groundwater

- No Detection
- Detection at or below 2 µg/L
- Detection above 2 µg/L
- Indicates different detections in different well screens
- Monitoring Well not sampled

Note: Color denotes maximum concentration detected during the reporting period.

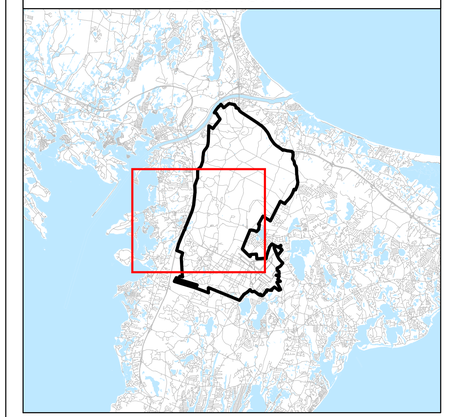
Perchlorate in Groundwater

- 2 to 6 ppb
- 6 to 15 ppb
- 15 to 200 ppb

A A' Cross Section

Note: Groundwater contours through March 2013. Contour lines dashed where inferred.

LOCATION MAP



NOTES & SOURCES

Basemap data from US Geological Survey 7 1/2 minute Topographic Maps. Source: MassGIS
Aerial Photos: Color Digital Orthophotos:
Date Flown: 2002 Source: EarthData International

TITLE

Perchlorate Distribution in Groundwater
As of March 2013
Demolition Area 1
Groundwater Operable Unit
Technical Memorandum

0 1,250 Feet

US Army Corps of Engineers
New England District

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May 8, 2013 DWN: MTW CHKD: MRK

FIGURE 5-2

WEST

A'

EAST

A

Elevation (Feet Mean Sea Level, NGVD)

PEW ROAD

FRANK PERKINS ROAD

GROUND SURFACE

EW-D1-2 MW-211

EW-D1-503

MW-210

EW-D1-1 MW-165

EW-D1-502

MW-114

EW-D1-501

MW-76

MW-31

MW-19

MW-79

MW-225

FINE TO MEDIUM SAND, TRACE GRAVEL

FINE TO MEDIUM SAND, TRACE GRAVEL

FINE TO COARSE SAND, SOME FINE GRAVEL

WATER TABLE (4/10/2009)

WL=58.13

WL=60.91

WL=62.06

WL=64.66

WL=65.47

WL=63.98

WL=66.19

WL=65.15

WL=66.95

WL=67.52

WL=68.33

WL=57.01

WL=63.99

FINE TO COARSE SAND SOME FINE GRAVEL

MEDIUM TO COARSE SAND, TRACE GRAVEL

SAND, LITTLE GRAVEL

FINE TO MEDIUM SAND, SOME SILT & GRAVEL

SAND, SILT & GRAVEL

FINE TO MEDIUM SAND, SOME SILT

CLAY

SILT

CLAY

SAND & SILT

SAND & GRAVEL

CLAY

SAND & SILT

SAND

SAND & GRAVEL

FINE TO MEDIUM SAND, SOME SILT

FINE SAND, LITTLE SILT

FINE SAND, SOME SILT

FINE SAND, SOME SILT

CLAY

FINE TO MEDIUM SAND

COARSE SAND & SOME GRAVEL

FINE TO MEDIUM SAND

COARSE SAND TRACE COARSE GRAVEL

BEDROCK

GRAVEL

TILL

BEDROCK

M3 P=0.049 04/18/2012

M2 P=0.05J 04/18/2011

M1 P=0.35U 04/11/2007

P=5.16 03/06/2013

M3 P=0.042J 04/26/2011

M2 P=0.091J 05/02/2012

M1 P=27.7J 11/27/2012

P=0.236 11/20/2012

P=0.038J 05/02/2012

P=0.982 05/02/2012

P=0.119 05/02/2012

M3

M2

M1

P=0.277 11/20/2012

M3 P=0.027J 4/19/2011

M2 P=0.142 3/29/2012

M1 P=0.015J 3/29/2012

P=0.989 11/20/2012

P=0.583 04/25/2012

P=0.456 4/25/2012

M1

P=0.205 11/20/2012

S P=0.846 4/22/2012

M2 P=0.218 04/23/2012

M1 P=0.124 04/23/2012

S P=0.12 04/24/2012

M P=0.18 04/24/2012

D P=0.35U 4/27/2007

S P=0.293 04/18/2011

S P=0.35U 04/27/2007

M2 P=0.35U 04/27/2007

M1 P=0.35U 04/27/2007

P=1U 09/27/2003

NOTES:

1. FOR ORIENTATION OF CROSS SECTION, SEE FIGURE 5-1.
2. NGVD = NATIONAL GEODETIC VERTICAL DATUM
3. SAMPLE COLLECTION DATES FOR EACH MONITORING WELL IDENTIFIED ADJACENT TO OR BENEATH RESULTS FOR EACH WELL.
4. CONCENTRATIONS IN UG/L
5. U = NON-DETECT, J = ESTIMATED CONCENTRATION.

GEOLOGIC UNITS

- SAND
- BEDROCK
- CLAY
- Water table

LEGEND

PERCHLORATE CONCENTRATIONS

- 2.0 ug/l - < 6 ug/l
- 6 ug/l - < 15 ug/l
- > 15 ug/l - < 200 ug/l

SCREEN DESIGNATION

M1

RDX = ND 6/6/02

GROUNDWATER CONCENTRATION AT WELL

WELL SCREEN LOCATION

HORIZONTAL SCALE: 1"=800'

0' 400' 800'

0' 30' 60'

VERTICAL SCALE: 1"=60'

DEPARTMENT OF THE ARMY
NEW ENGLAND DISTRICT
CORPS OF ENGINEERS
CONCORD, MASSACHUSETTS

MASSACHUSETTS MILITARY RESERVATION
CAPE COD, MASSACHUSETTS
IMPACT AREA GROUNDWATER STUDY PROGRAM
DEMOLITION AREA 1
PLUME CROSS SECTION A-A'
PERCHLORATE DISTRIBUTION IN GROUNDWATER - 2013
2013 TECHNICAL MEMORANDUM, RA SYSTEM DEMO 1 GW OU

DATE: 05/09/2013
PLOT SCALE: 1"=60'-0"
FILE NAME: FIG_5-3_PER_5-9-13.DGN

FIGURE 5-3

Impact Area Groundwater Study Program

LEGEND

- Extraction Well
- Injection Well
- Monitoring Well
- Staff Gauge
- Boring

RDX Detections in Groundwater

- No Detection
- Detection at or below 0.6 µg/L
- Detection above 0.6 µg/L
- Indicates different detections in different well screens

Note: Color denotes maximum concentration detected during the reporting period.

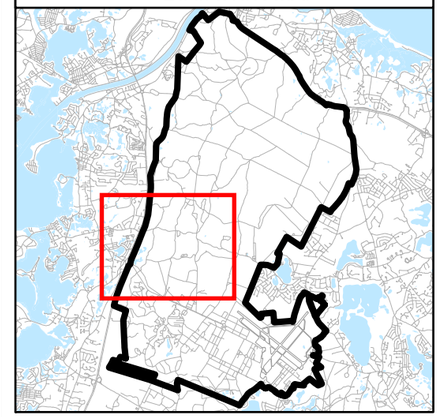
RDX in Groundwater

- 0.6 to 2 ppb
- 2 to 20 ppb
- 20 to 200 ppb

A A' Cross Section

Note: Groundwater data through August 2012.
Contour lines dashed where inferred.

LOCATION MAP



NOTES & SOURCES

Basemap data from US Geological Survey 7 1/2 minute Topographic Maps. Source: MassGIS
Aerial Photos: Color Digital Orthophotos:
Date Flown: 2002 Source: EarthData International

TITLE

RDX Distribution in Groundwater
As of August 2012 Sampling Round
Demolition Area 1
Groundwater Operable Unit
Technical Memorandum

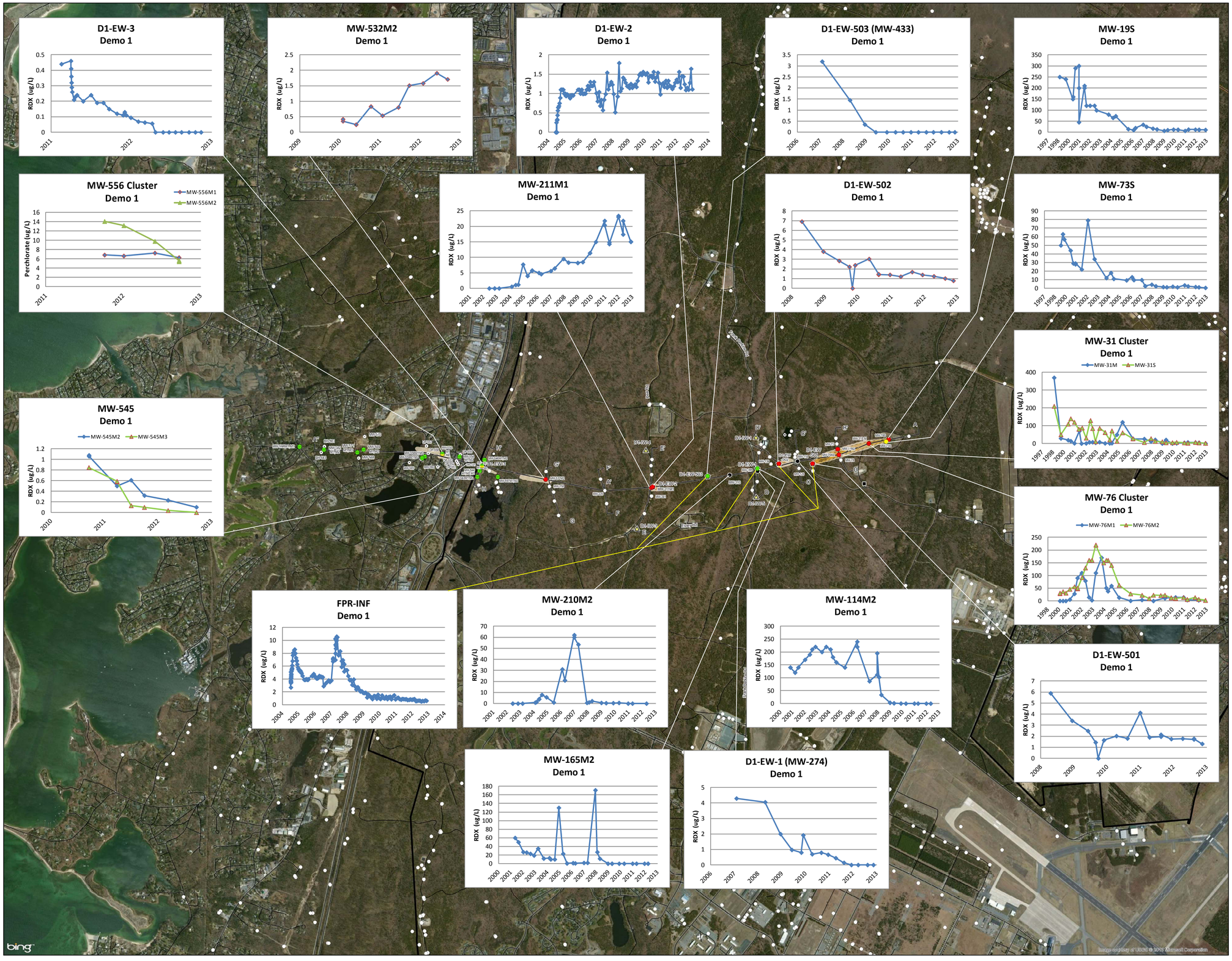
0 1,250 Feet

N

US Army Corps of Engineers
New England District

M:\MMR\2013\Demo1\TechMemo\Figures\Fig5-4_050813.pdf
M:\MMR\2013\Demo1\TechMemo\MXDs\Fig5-4_050813.mxd
May 8, 2013 DWN: MTW CHKD: MRK

FIGURE 5-4



Impact Area Groundwater Study Program

LEGEND

- Extraction Well
- Injection Well
- Monitoring Well
- Staff Gauge
- Boring

RDX Detections in Groundwater

- No Detection
- Detection at or below 0.6 µg/L
- Detection above 0.6 µg/L
- Indicates different detections in different well screens
- Monitoring Well not sampled

Note: Color denotes maximum concentration detected during the reporting period.

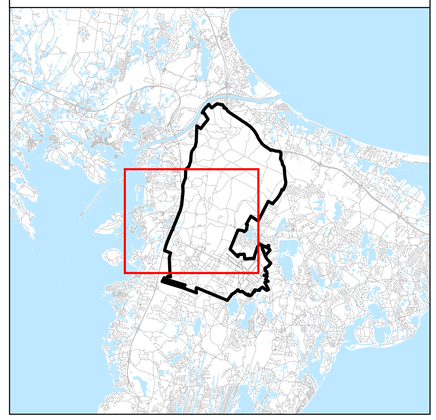
RDX in Groundwater

- 0.6 to 2 ppb
- 2 to 6 ppb
- 6 to 20 ppb
- 20 to 200 ppb

A — A' Cross Section

Note: Groundwater contours through March 2013. Contour lines dashed where inferred.

LOCATION MAP



NOTES & SOURCES

Basemap data from US Geological Survey 7 1/2 minute Topographic Maps. Source: MassGIS
Aerial Photos: Color Digital Orthophotos:
Date Flown: 2002 Source: EarthData International

TITLE

RDX Distribution in Groundwater
As of March 2013
Demolition Area 1
Groundwater Operable Unit
Technical Memorandum

0 1,250 Feet

N

US Army Corps of Engineers®
New England District

M:\MMR\2013\Demo1\TechMemo\Figures\Fig5-5_050913.pdf
M:\MMR\2013\Demo1\TechMemo\MXDs\Fig5-5_050813.mxd
May 9, 2013 DWN: MTW CHKD: MRK

FIGURE 5-5

WEST

A'

EAST

A

Elevation (Feet Mean Sea Level, NGVD)

MW-225
EW-D1-2
MW-211
EW-D1-503
MW-210
EW-D1-1
MW-165
EW-D1-502
MW-114
EW-D1-501
MW-76
MW-31
MW-19
MW-79

WL=49.84
WL=53.95
WL=58.13
WL=57.01
WATER TABLE (4/10/2009)
WL=62.06
WL=64.66
WL=65.47
WL=64.36
WL=63.98
WL=66.19
WL=65.15
WL=66.95
WL=67.52
WL=68.33

RDX=0.22U
04/26/2011
60.91

RDX= 0.218U
04/18/2012

RDX= 0.214UJ
04/18/2012

RDX=0.272U
04/11/2007

RDX= 1.1
03/26/2013

RDX=0.202UJ
05/02/2012

RDX=15.1
11/27/2012

RDX=0.203U
11/20/2012

RDX=0.202U
05/02/2012

RDX=0.202UJ
05/02/2012

RDX=0.203U
05/02/2012

RDX=0.203U
11/20/2012

RDX=0.222U
04/19/2011

RDX=0.213U
03/29/2012

RDX=0.212U
03/29/2012

RDX=0.206U
04/25/2012

RDX=0.78
11/20/2012

RDX=0.206U
04/25/2012

RDX=1.31
11/20/2012

RDX=0.951J
04/23/2012

RDX=2.47
04/23/2012

RDX=2.13
11/26/2012

RDX=2.08
11/26/2012

RDX=1.04
11/26/2012

RDX=0.278U
04/27/2007

RDX=10.6
11/26/2012

RDX=0.275U
04/27/2007

RDX=0.281U
04/27/2007

RDX=0.291U
04/27/2007

RDX=0.25U
07/17/1998

M1
M2
M3
D
S

LEGEND

RDX CONCENTRATIONS

- 0.6 ug/l – 2.0 ug/l
- 2.0 ug/l – 6 ug/l
- 20 ug/l – 200 ug/l
- > 200 ug/l

GEOLOGIC UNITS

- SAND
- CLAY
- BEDROCK

M1 — SCREEN DESIGNATION

RDX = ND
6/6/02 — GROUNDWATER CONCENTRATION AT WELL

WELL SCREEN LOCATION

HORIZONTAL SCALE: 1"=1000'
0' 500' 1000'

0' 30' 60'
VERTICAL SCALE: 1"=60'

NOTES:

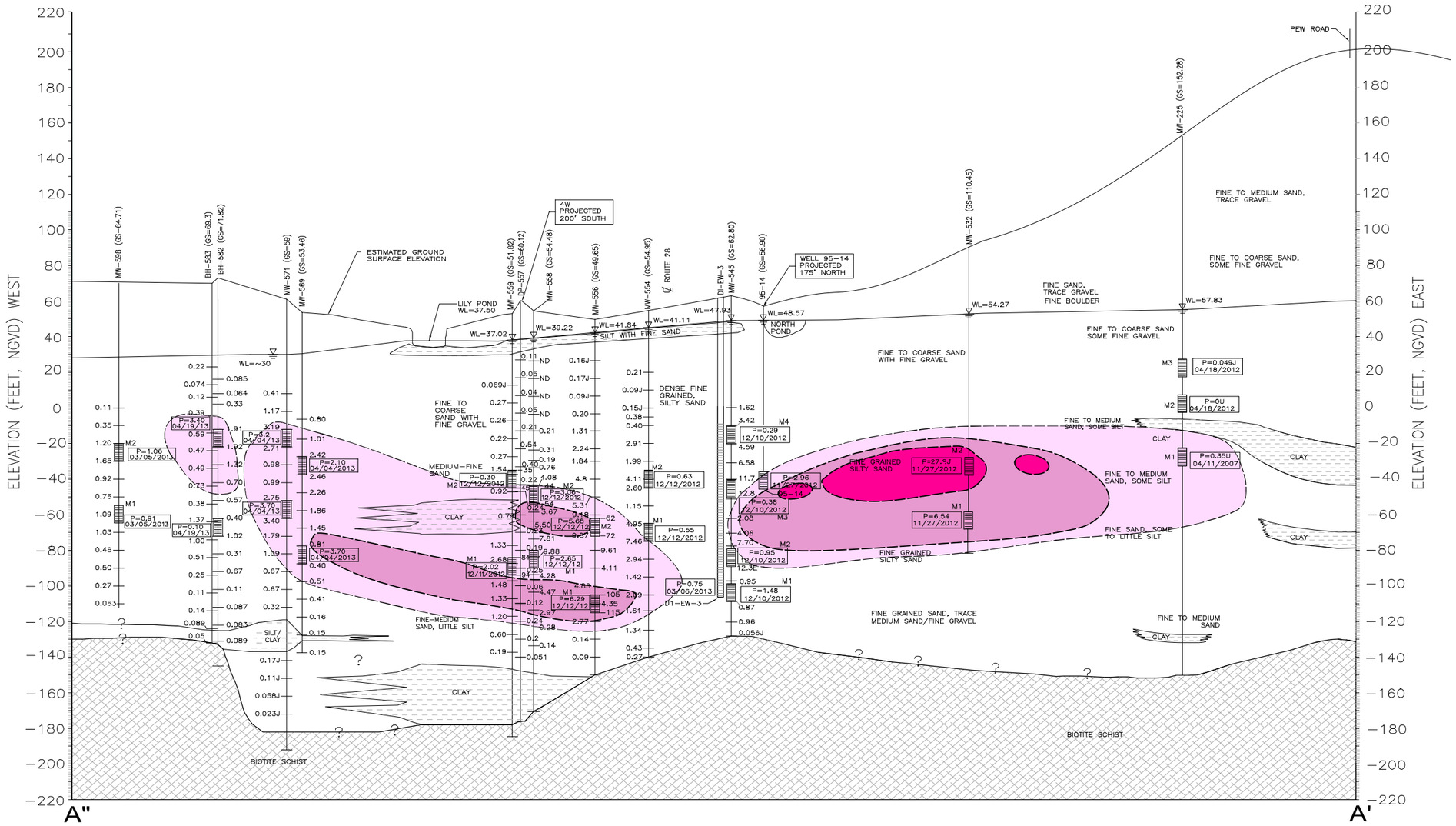
1. FOR ORIENTATION OF CROSS SECTION, SEE FIGURE X–X.
2. GEOLOGIC CONDITION BETWEEN EXPLORATIONS ARE AN INTERPRETATION OF AVAILABLE DATA. ACTUAL CONDITIONS MAY VARY.
3. NGVD = NATIONAL GEODETIC VERTICAL DATUM
4. SAMPLE COLLECTION DATES FOR EACH MONITORING WELL IDENTIFIED ADJACENT TO OR BENEATH RESULTS FOR EACH WELL.
5. CONCENTRATIONS IN ug/l
6. U = NON–DETECT, J = ESTIMATED CONCENTRATION.

DEPARTMENT OF THE ARMY
NEW ENGLAND DISTRICT
CORPS OF ENGINEERS
CONCORD, MASSACHUSETTS

MASSACHUSETTS MILITARY RESERVATION
CAPE COD, MASSACHUSETTS
IMPACT AREA GROUNDWATER STUDY PROGRAM
DEMOLITION AREA 1
PLUME CROSS SECTION A-A'
RDX DISTRIBUTION IN GROUNDWATER - 2013
2013 TECHNICAL MEMORANDUM, RA SYSTEM DEMO 1 GW OU

DATE: 5/9/2013
PLOT SCALE: 1"=60'
FILE NAME: FIGURE_5-5_RDX_5-9-13.dgn

FIGURE 5-6

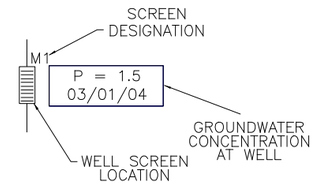


LEGEND

PERCHLORATE CONCENTRATIONS

- 2 ug/l – < 6 ug/l
- 6 ug/l – < 15 ug/l
- 15 ug/l – < 200 ug/l

2.42–PERCHLORATE CONCENTRATIONS IN GROUNDWATER COLLECTED DURING DIRECT PUSH FIELD PROGRAM



NOTES:

1. FOR ORIENTATION OF CROSS SECTION, SEE FIGURE 3–1.
2. DATUM = NORTH AMERICAN DATUM (NAD83).
3. CONCENTRATIONS IN µg/l.
4. J = ESTIMATED CONCENTRATION.
5. GROUNDWATER ELEVATIONS BASED ON 1/17/2012 WATER LEVEL ROUND.
6. MW = MONITORING WELL.
7. DP = DIRECT PUSH BORING.
8. BATHYMETRY AT LILY POND ESTIMATED FROM DIVISION OF FISHERIES AND WILDLIFE DATA AT ADJACENT FLAX POND.

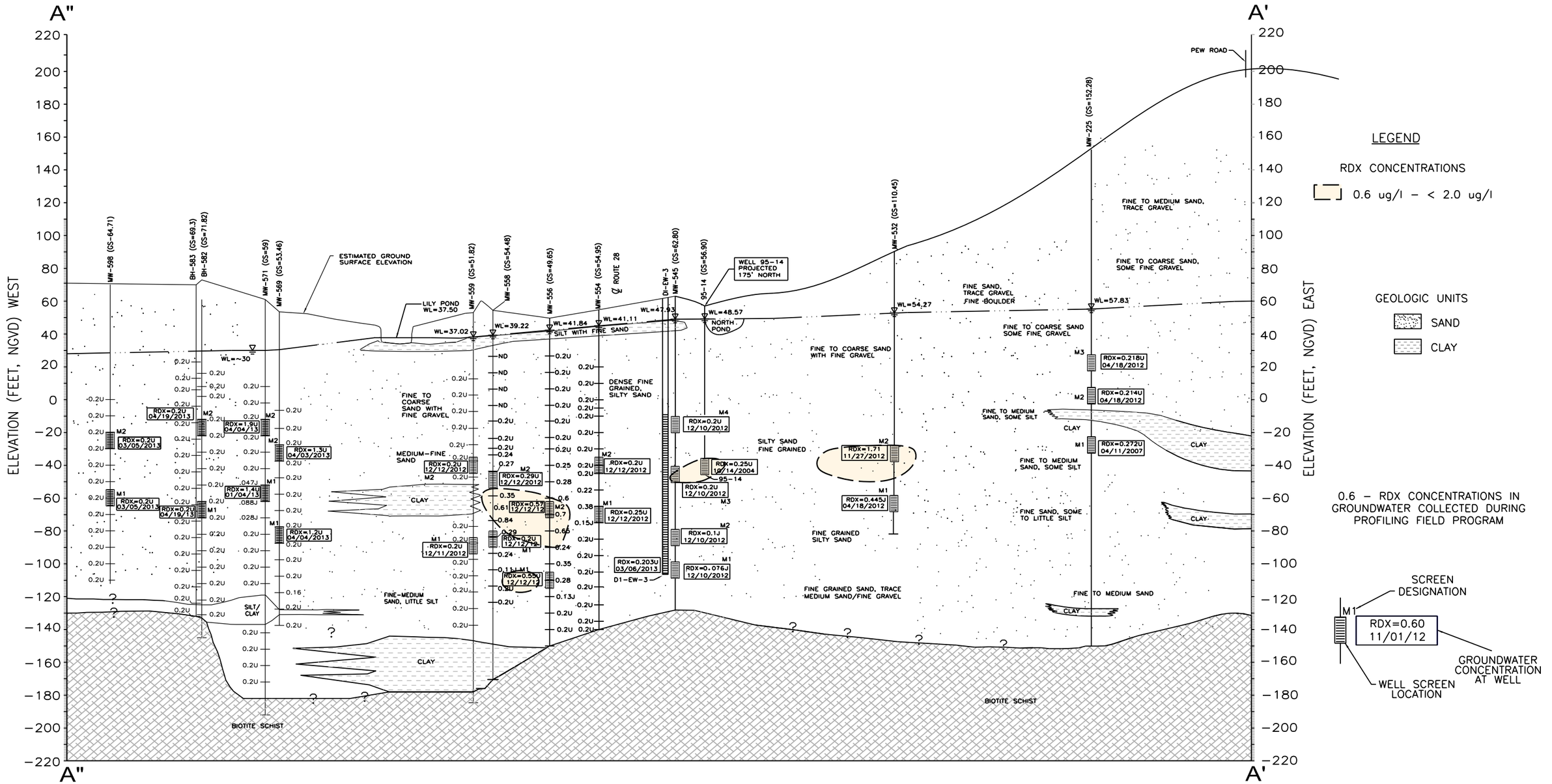
HORIZONTAL SCALE
0' 400' 800'
0' 30' 60'
VERTICAL SCALE

FIGURE 5-7

DEMOLITION AREA 1 CROSS SECTION A'-A" PERCHLORATE DISTRIBUTION IN GROUNDWATER - 2013

2013 TECHNICAL MEMORANDUM

REVISION	DRAWING NO: FIG_5.7_PER_5-7-13.dgn		
9	DRAWN BY: RC	DATE: 05/07/2013	CHECKED BY: PD



NOTES:

1. FOR ORIENTATION OF CROSS SECTION, SEE FIGURE 3-1.
2. DATUM = NORTH AMERICAN DATUM (NAD83).
3. CONCENTRATIONS IN µg/l.
4. J = ESTIMATED CONCENTRATION.
5. GROUNDWATER ELEVATIONS BASED ON 1/17/2012 WATER LEVEL ROUND.
6. MW = MONITORING WELL.
7. DP = DIRECT PUSH BORING.
8. BATHYMETRY AT LILY POND ESTIMATED FROM DIVISION OF FISHERIES AND WILDLIFE DATA AT ADJACENT FLAX POND.
9. U = NON-DETECT.

HORIZONTAL SCALE
0' 400' 800'
0' 30' 60'
VERTICAL SCALE

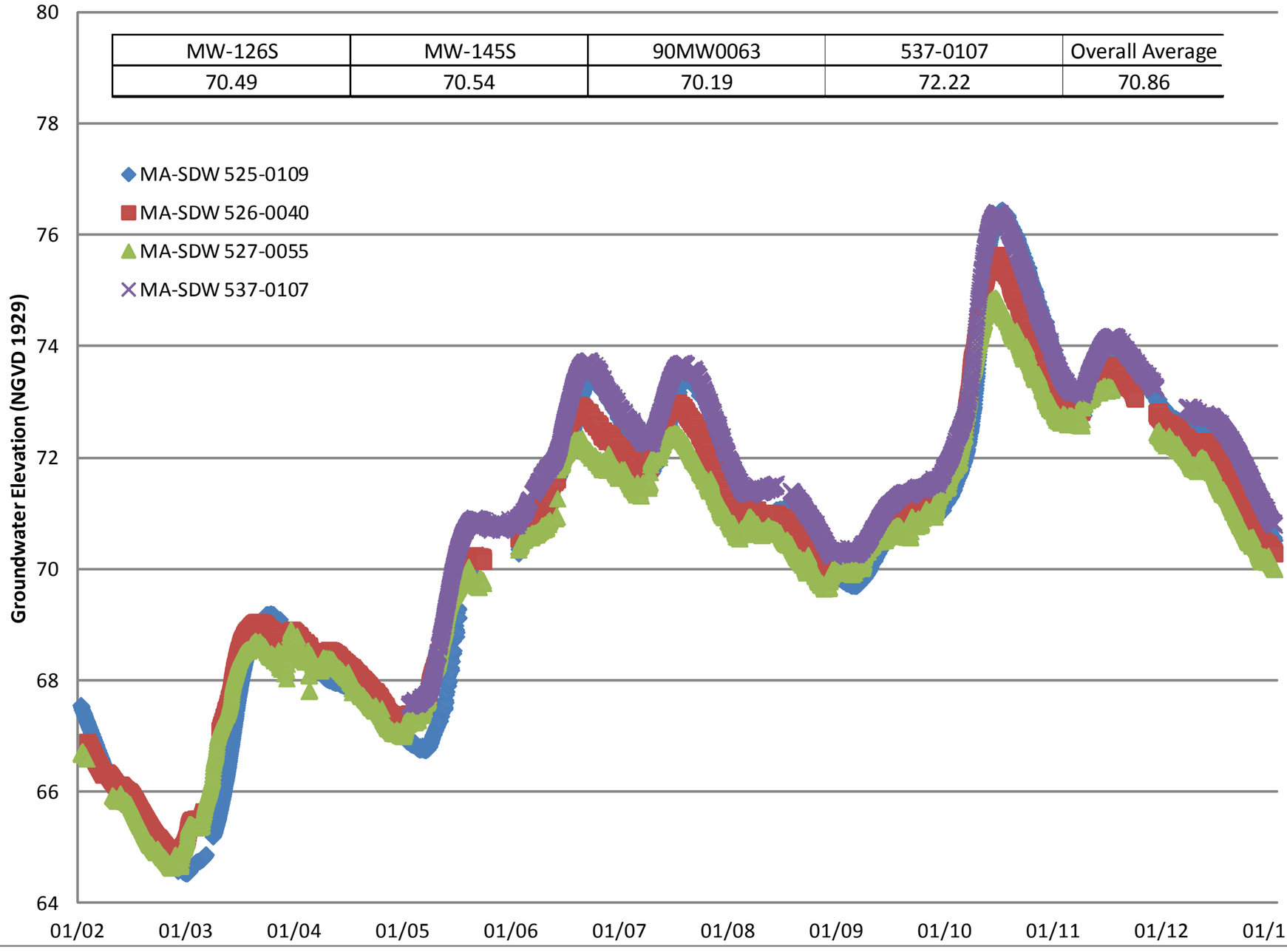
FIGURE 5-8

DEMOLITION AREA 1 CROSS SECTION A'-A" RDX DISTRIBUTION IN GROUNDWATER 2013 TECHNICAL MEMORANDUM

REVISION	CAD FILE: FIG_5-8_RDX_A"-A'_5-8-13.dgn		
1	DRAWN BY: DH	DATE: 06/14/13	CHECKED BY: MK

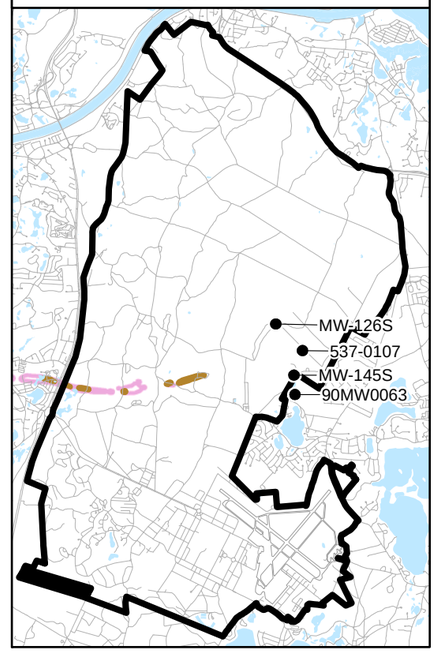
USGS Groundwater Wells
Near Top of Mound

MW-126S	MW-145S	90MW0063	537-0107	Overall Average
70.49	70.54	70.19	72.22	70.86



Impact Area Groundwater Study Program

LOCATION MAP



NOTES & SOURCES

Basemap data from US Geological Survey 7 1/2 minute Topographic Maps. Source: MassGIS

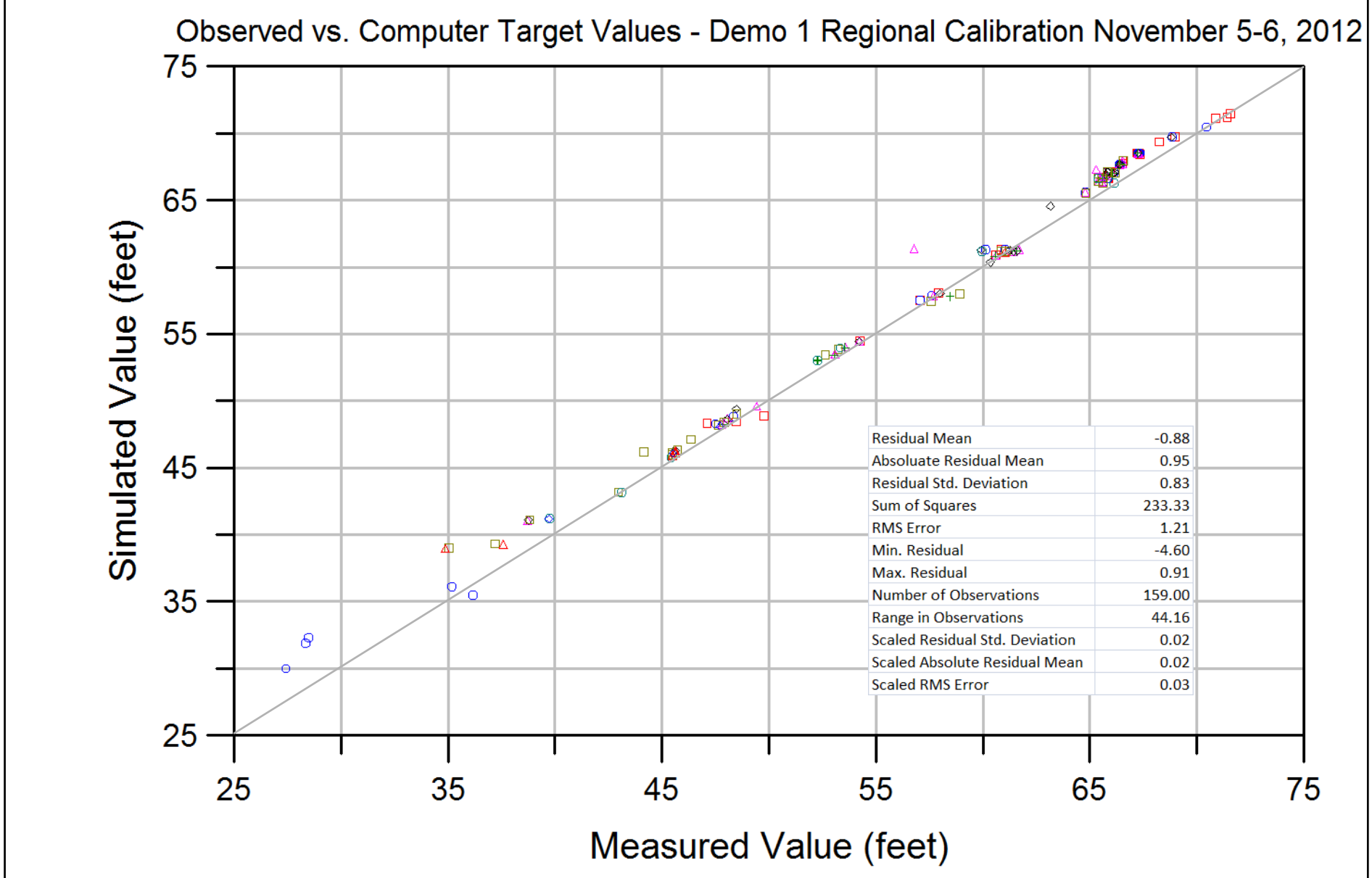
TITLE

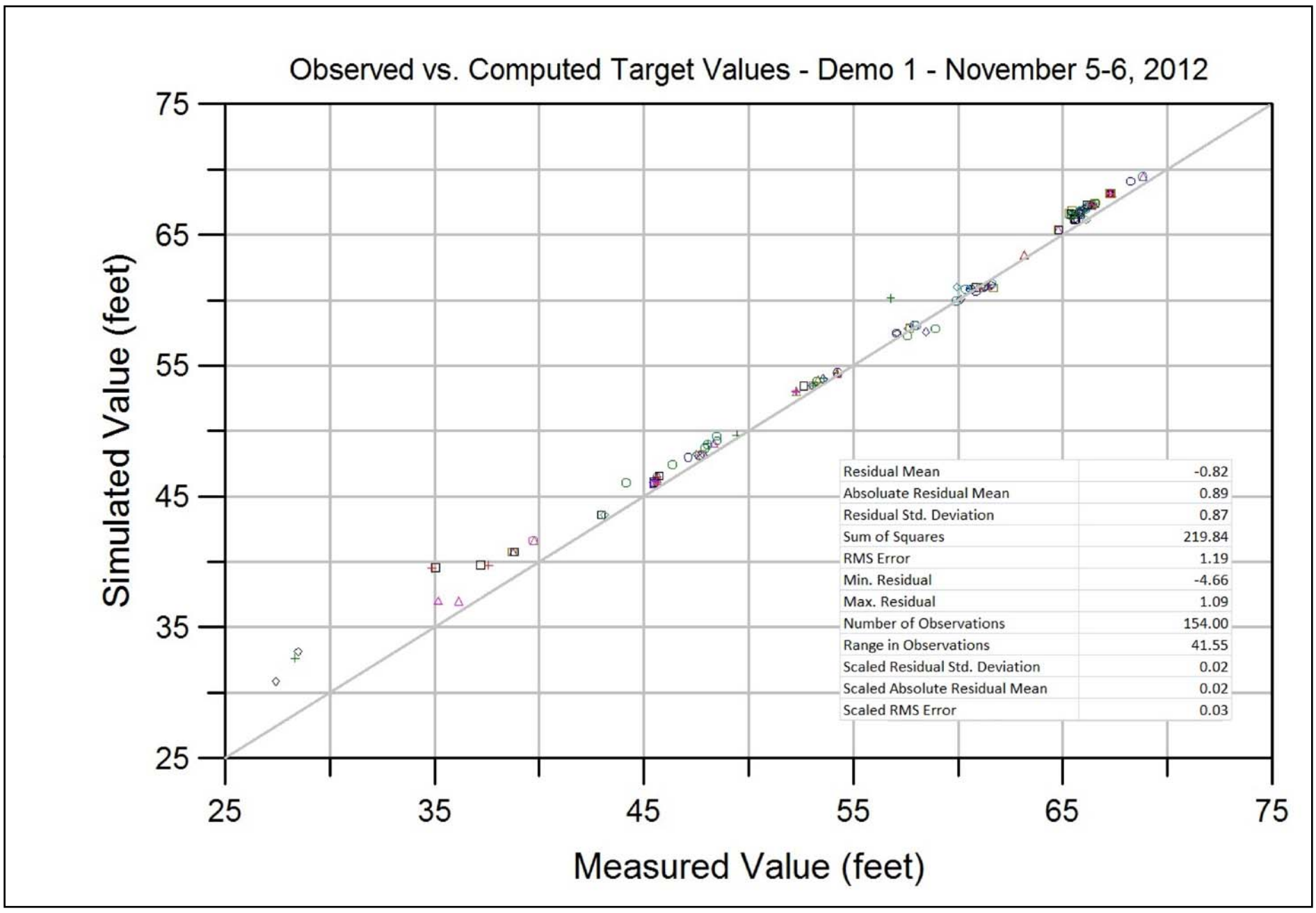
USGS Background Monitoring Well Water Levels
January 2002 through January 2013

US Army Corps of Engineers
New England District

M:\MMR\2013\Demo1\TechMemo\Figures\Fig6-1_052013.pdf
M:\MMR\2013\Demo1\TechMemo\MXDs\Fig6-1_052013.mxd
May 20, 2013 DWN: MTW CHKD: MRK

FIGURE
6-1





US Army Corps of Engineers
New England District

M:\MMR\2013\Demo1\TechMemo\Figures\Fig6-2_052013.pdf
M:\MMR\2013\Demo1\TechMemo\MXDs\Fig6-2_052013.mxd
May 20, 2013 DWN: MTW CHKD: MRK

Residual Plots for Regional Model (Top Pane)
and Subregional Model (Bottom Pane)
5-6 November 2012
Demo 1 Technical Memorandum

FIGURE
6-2

Impact Area
Groundwater Study Program

Impact Area Groundwater Study Program

LEGEND

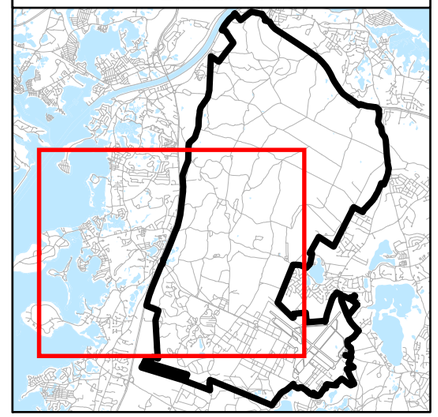
- Extraction Well
- Injection Well
- Monitoring Well

Perchlorate in Groundwater

- 2 to 6 ppb
- 6 to 15 ppb
- 15 to 200 ppb
- Demo 1 Model Grid
- Regional Model Contours under High Water Table Conditions

Note: Groundwater data through March 2013.
Contour lines dashed where inferred.

LOCATION MAP



NOTES & SOURCES

Basemap data from US Geological Survey 7 1/2 minute Topographic Maps. Source: MassGIS
Aerial Photos: Color Digital Orthophotos:
Date Flown: 2002 Source: EarthData International

TITLE

Demo 1 Model Grid and
Regional Model Contours under
5-6 November 2012
High Water Table Conditions
Demo 1 Technical Memorandum

0 2,500 Feet

N

US Army Corps of Engineers
New England District

M:\MMR\2013\Demo1\TechMemo\Figures\Fig6-3_052013.pdf
M:\MMR\2013\Demo1\TechMemo\MXDs\Fig6-3_052013.mxd
May 20, 2013 DWN: MTW CHKD: MRK

FIGURE
6-3

Impact Area Groundwater Study Program

LEGEND

- Extraction Well
- Injection Well
- Monitoring Well

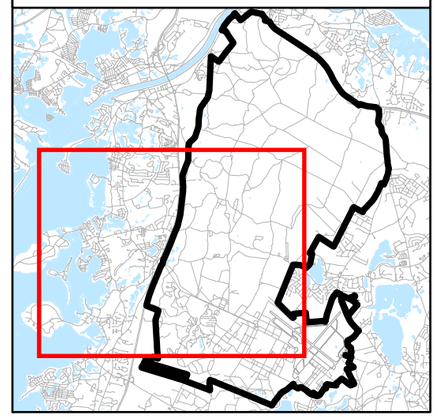
Perchlorate in Groundwater

- 2 to 6 ppb
- 6 to 15 ppb
- 15 to 200 ppb

- Demo 1 Model Grid
- Regional Model Contours under High Water Table Conditions
- Subregional Model Contours under High Water Table Conditions

Note: Groundwater data through March 2013.
Contour lines dashed where inferred.

LOCATION MAP



NOTES & SOURCES

Basemap data from US Geological Survey 7 1/2 minute Topographic Maps. Source: MassGIS
Aerial Photos: Color Digital Orthophotos:
Date Flown: 2002 Source: EarthData International

TITLE

Demo 1 Model Grid and Regional and Subregional Model Contours under 5-6 November 2012 High Water Table Conditions Demo 1 Technical Memorandum

0 2,500 Feet

N

US Army Corps of Engineers
New England District

M:\MMR\2013\Demo1\TechMemo\Figures\Fig6-4_052013.pdf
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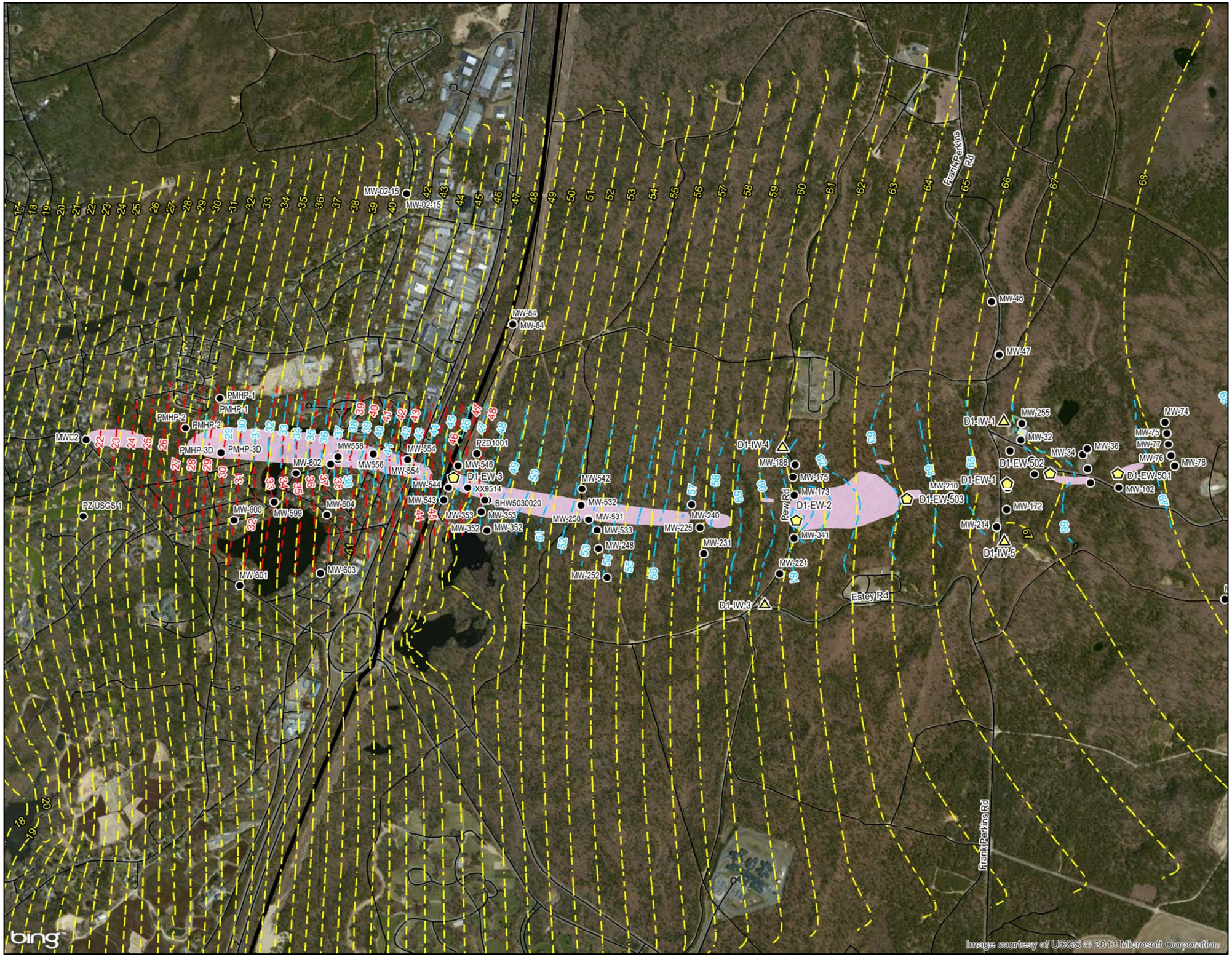
May 20, 2013 DWN: MTW CHKD: MRK

FIGURE 6-4



Impact Area Groundwater Study Program

LEGEND

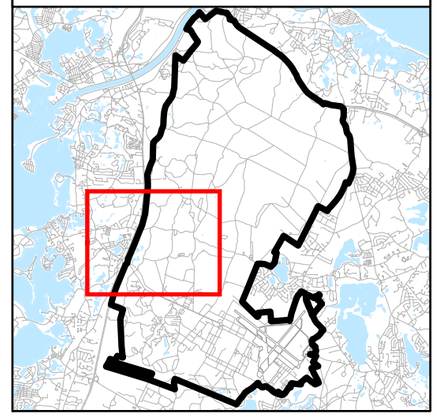
- Extraction Well
- Injection Well
- Monitoring Well
- Groundwater Contours November 5-6, 2012
- Groundwater Contours March 1, 2013
- Subregional Groundwater Contours

Perchlorate in Groundwater

- 2 to 15 ppb

Note: Groundwater data through March 2013.
Contour lines dashed where inferred.

LOCATION MAP



NOTES & SOURCES

Basemap data from US Geological Survey 7 1/2 minute Topographic Maps. Source: MassGIS

TITLE

Measured (5-6 November 2012 and 1 March 2013) and Simulated Water Levels
Demo 1 Technical Memorandum

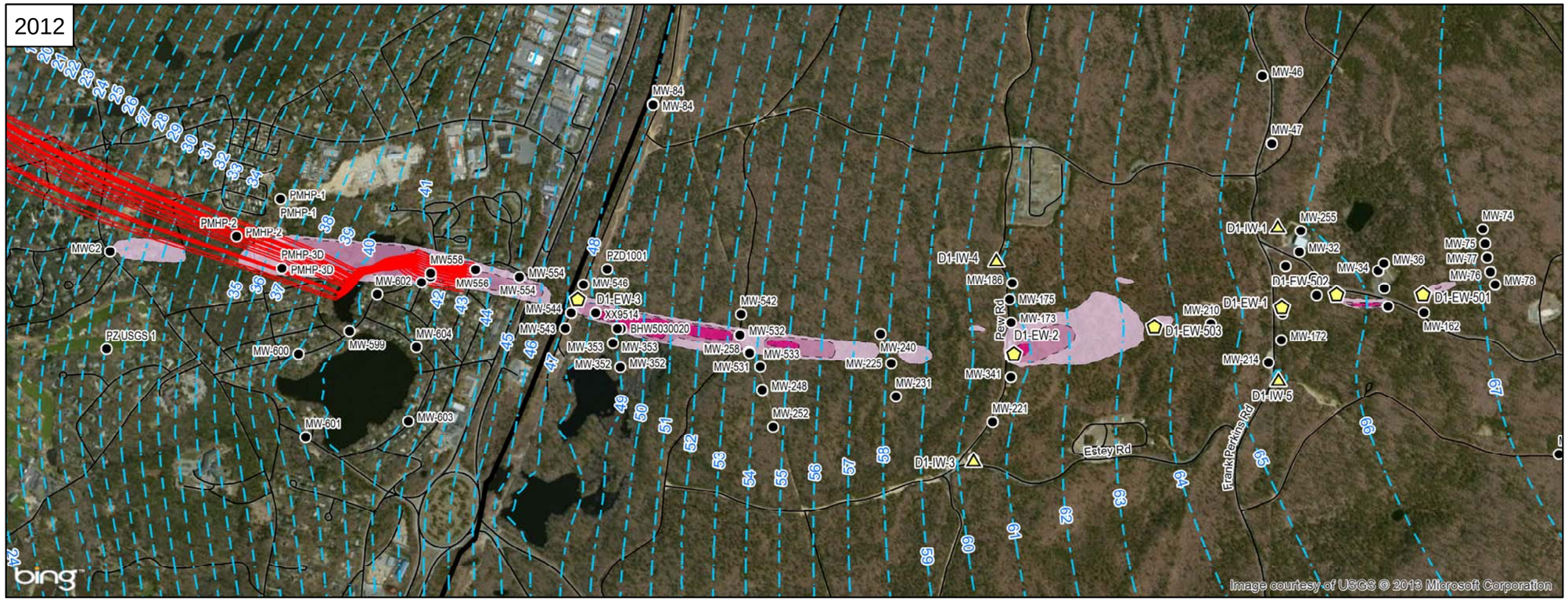
0 1,250 Feet

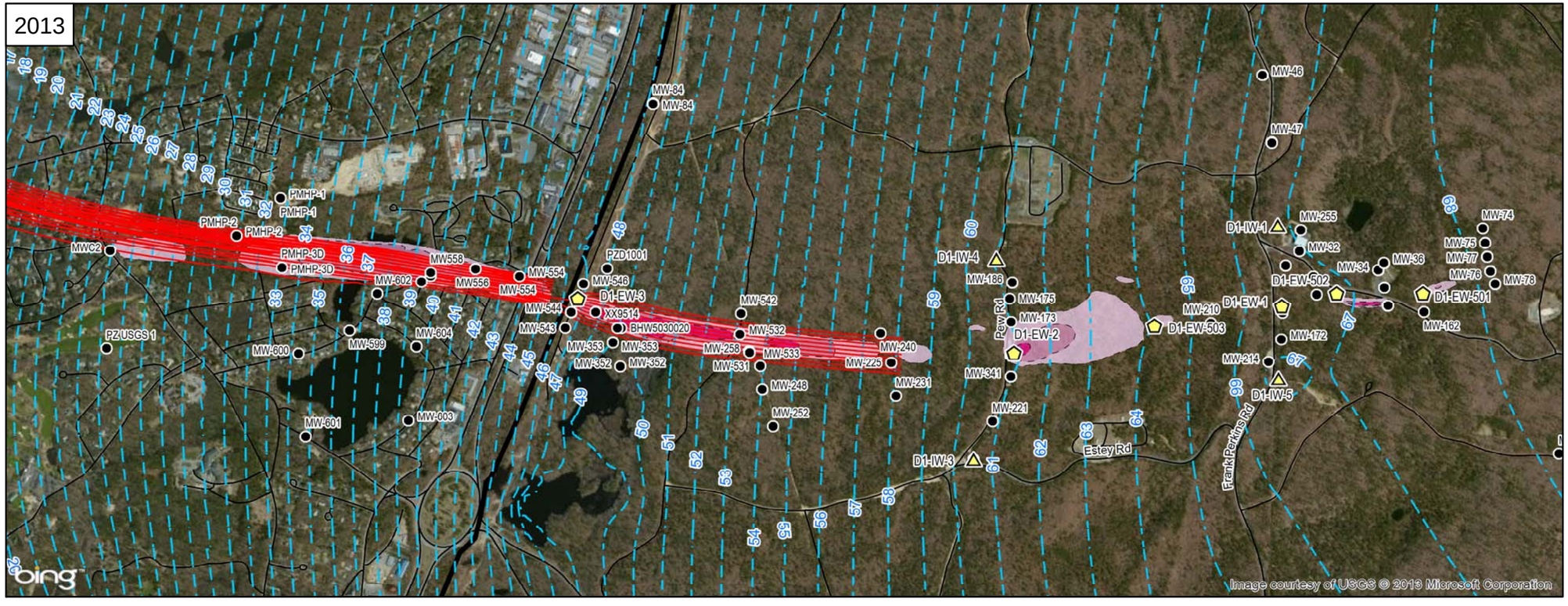
N

US Army Corps of Engineers
New England District

M:\MMR\2013\Demo1\TechMemo\Figures\Fig6-5_052013.pdf
M:\MMR\2013\Demo1\TechMemo\MXDs\Fig6-5_052013.mxd
May 20, 2013 DWN: MTW CHKD: MRK

FIGURE 6-5





Impact Area Groundwater Study Program

LEGEND

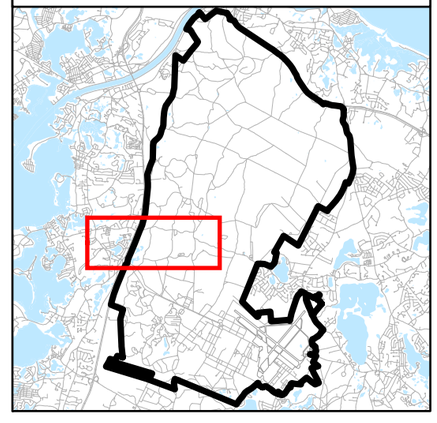
- Extraction Well
- Injection Well
- Monitoring Well
- Subregional Water Levels
- Model-simulated Particles

Perchlorate in Groundwater

- 2 to 6 ppb
- 6 to 15 ppb
- 15 to 200 ppb

Note: Plume shell illustrated is representative of widest observed at each transect cross-section Groundwater data through August 2012.

LOCATION MAP



NOTES & SOURCES

Basemap data from US Geological Survey 7 1/2 minute Topographic Maps. Source: MassGIS
Aerial Photos: Color Digital Orthophotos:
Date Flown: 2002 Source: EarthData International

TITLE

2012 and 2013
Model-simulated Particles
and Subregional Water Levels
Demo 1 Technical Memorandum

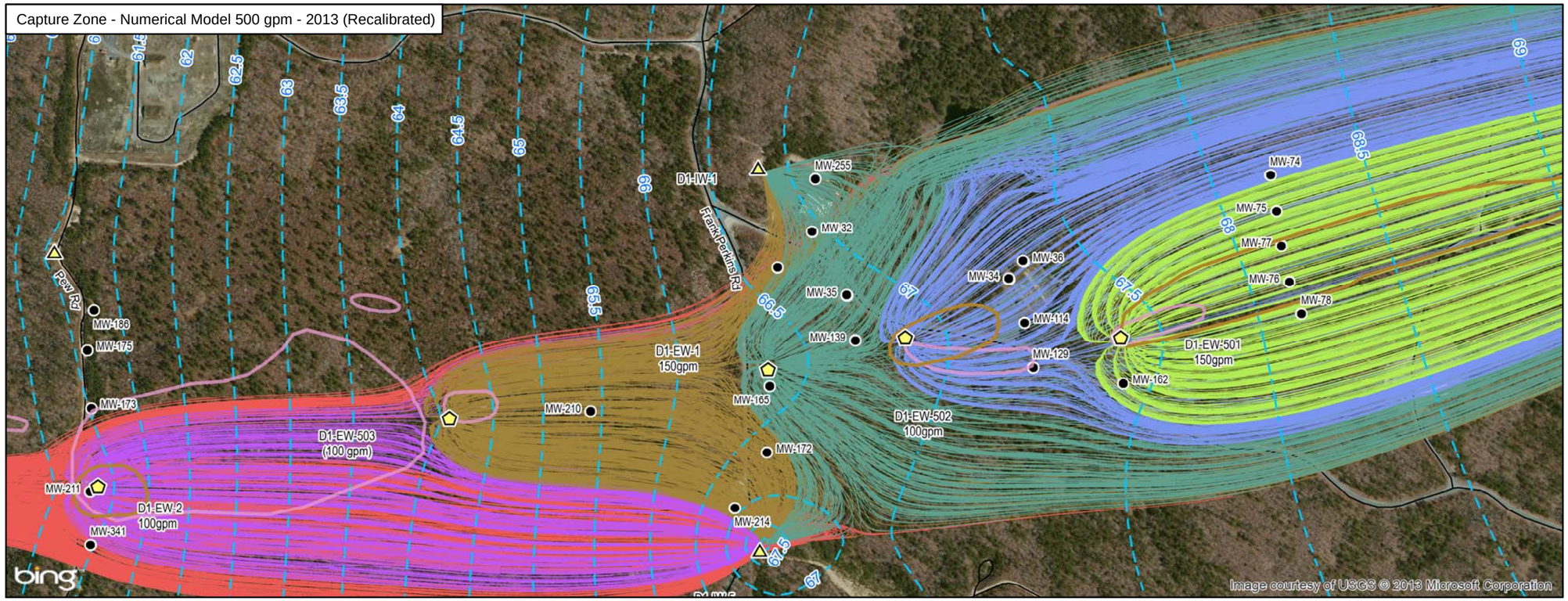
0 1,250 Feet

US Army Corps of Engineers
New England District

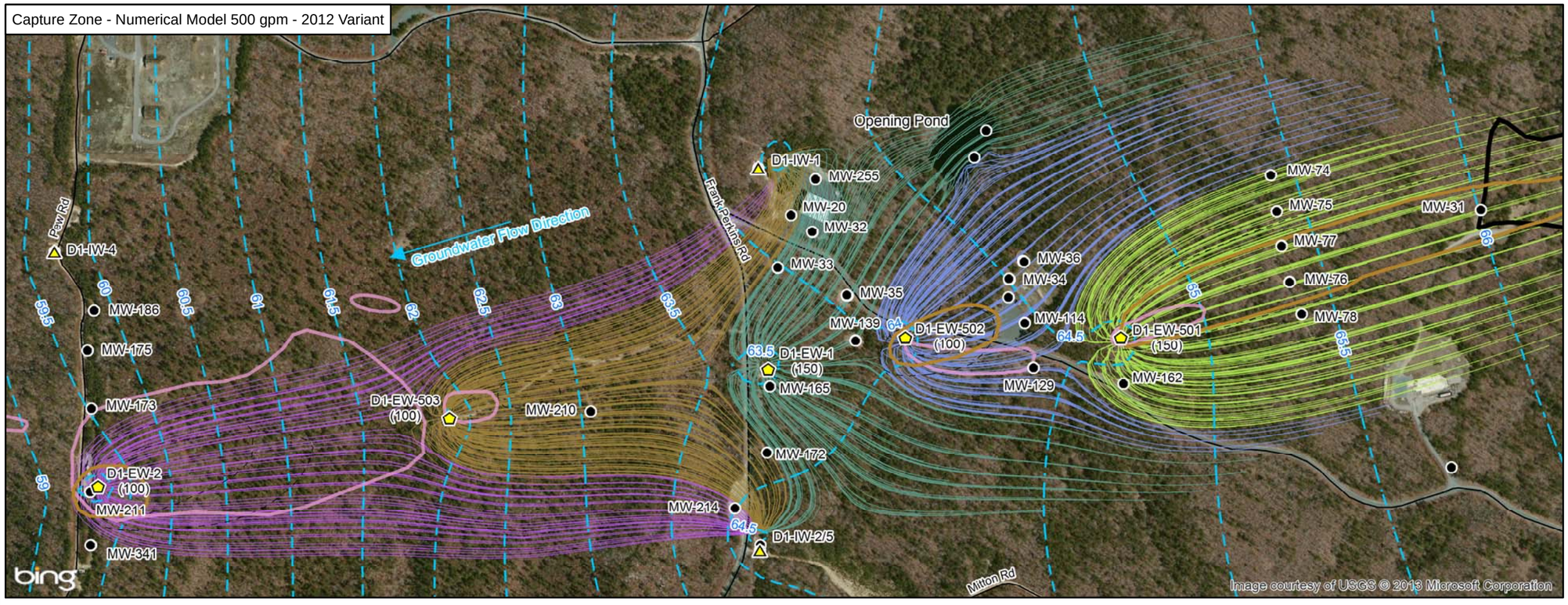
M:\MMR\2013\Demo1\TechMemo\Figures\Fig6-6_052013.pdf
M:\MMR\2013\Demo1\TechMemo\MXDs\Fig6-6_052013.mxd
May 20, 2013 DWN: MTW CHKD: MRK

FIGURE 6-6

Capture Zone - Numerical Model 500 gpm - 2013 (Recalibrated)



Capture Zone - Numerical Model 500 gpm - 2012 Variant



Impact Area Groundwater Study Program

LEGEND

- Extraction Well
- Injection Well
- Monitoring Well
- Subregional Water Levels

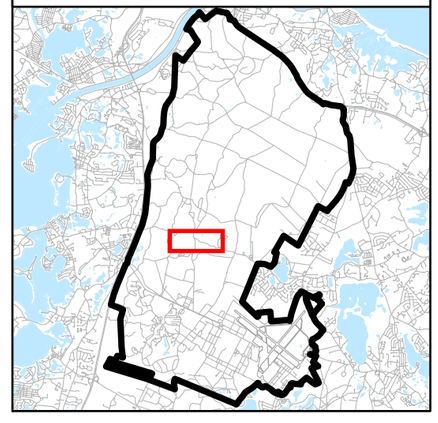
Perchlorate in Groundwater
- 2 ppb Contour

RDX in Groundwater
- 0.6 ppb Contour

Capture Zones
- D1-EW-1
- D1-EW-2
- D1-EW-3
- D1-EW-501
- D1-EW-502
- D1-EW-503

Note: Plume shell illustrated is representative of widest observed at each transect cross-section Groundwater data through March 2013.

LOCATION MAP



NOTES & SOURCES

Basemap data from US Geological Survey 7 1/2 minute Topographic Maps. Source: MassGIS
Aerial Photos: Color Digital Orthophotos:
Date Flown: 2002 Source: EarthData International

TITLE

2013 Model-simulated Capture Zones (Top) and
2012 Model-simulated Capture Zones (Bottom) 500 gpm
Demo 1 Technical Memorandum

0 500 Feet

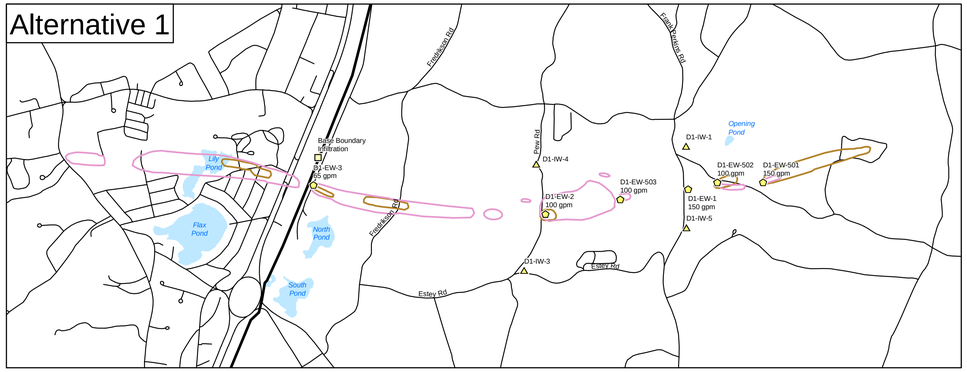
N

US Army Corps of Engineers
New England District

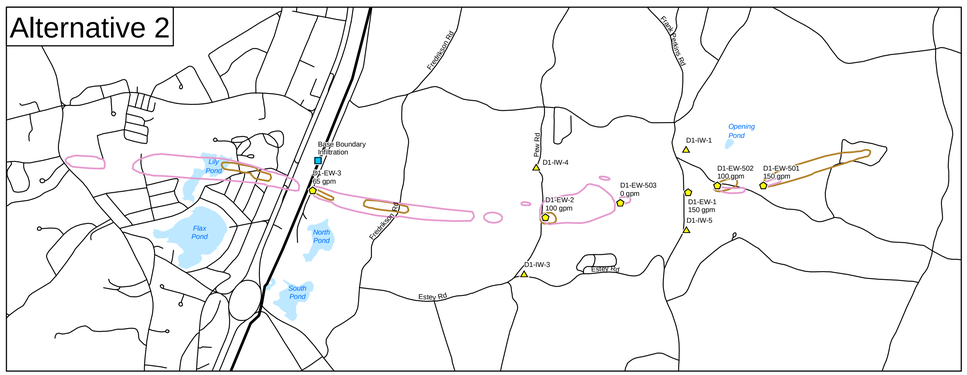
M:\MMR\2013\Demo1\TechMemo\Figures\Fig6-7_052013.pdf
M:\MMR\2013\Demo1\TechMemo\MXDs\Fig6-7_052013.mxd
May 20, 2013 DWN: MTW CHKD: MRK

FIGURE
6-7

Alternative 1



Alternative 2



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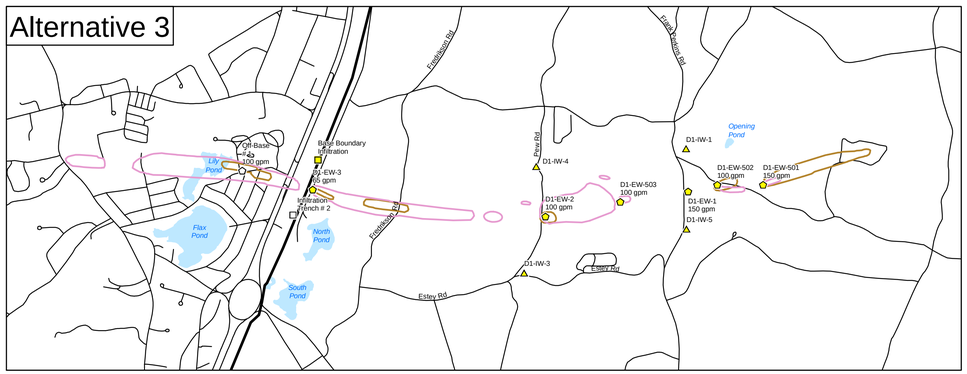
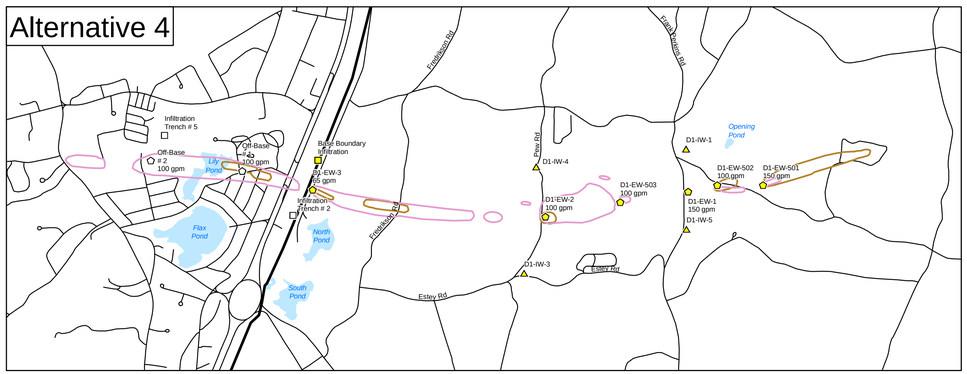
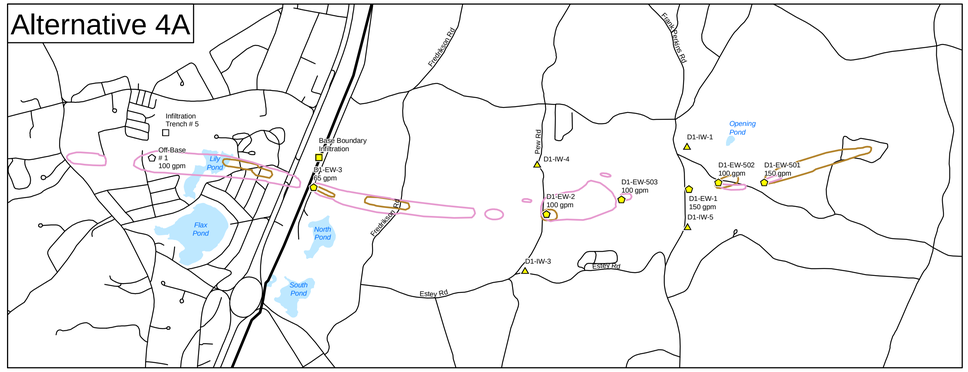


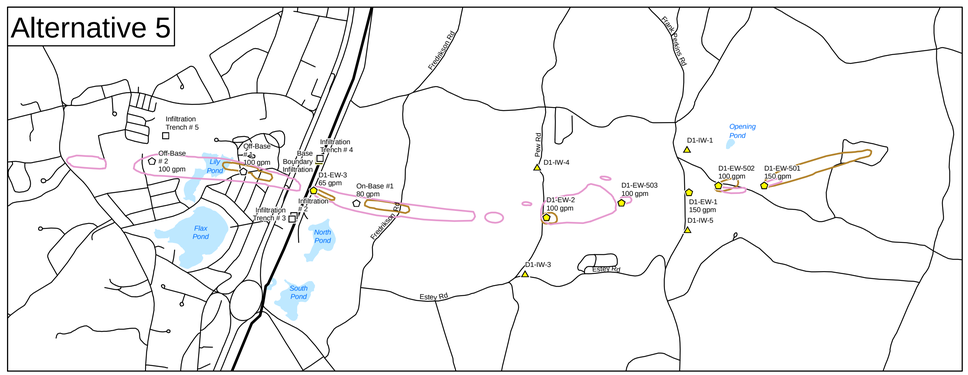
Alternative 4



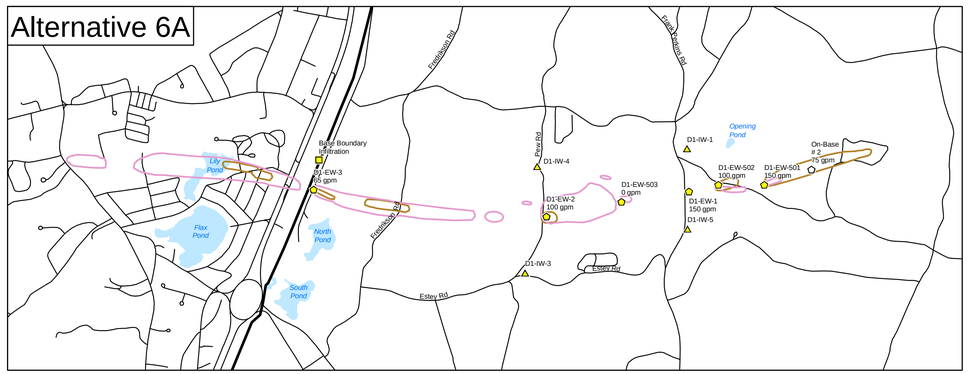
Alternative 4A



Alternative 5



Alternative 6A



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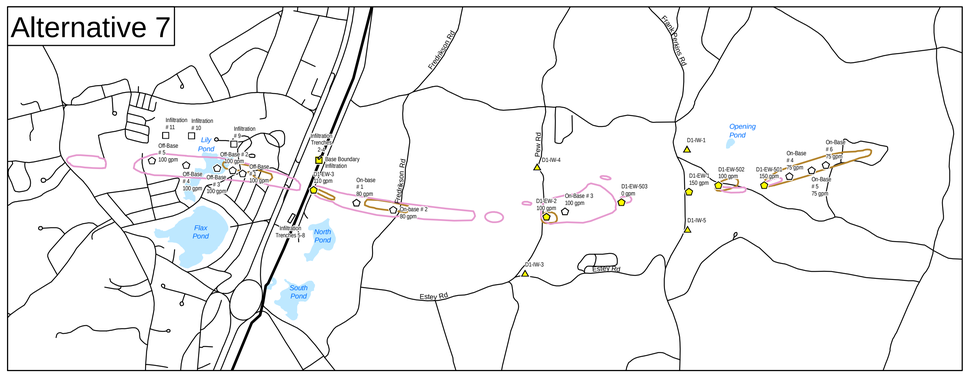


Impact Area Groundwater Study Program

LEGEND

Existing	Alternatives
Extraction Well	Extraction Well
Injection Well	Infiltration Trench
Infiltration Trench	

Perchlorate in Groundwater

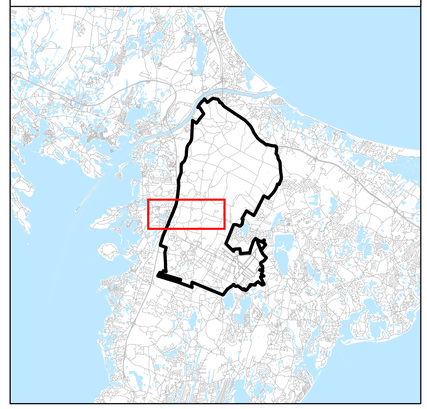
2 ppb Contour

RDX in Groundwater

0.6 ppb Contour

Note: Plume shell illustrated is representative of widest observed at each transect cross-section, Groundwater data through March 2013.

LOCATION MAP



NOTES & SOURCES

Basemap data from US Geological Survey 7 1/2 minute Topographic Maps. Source: MassGIS

TITLE

Alternatives 1 through 7
Demo 1 Groundwater Operable Unit

0 1,500 Feet

N

US Army Corps of Engineers®
New England District

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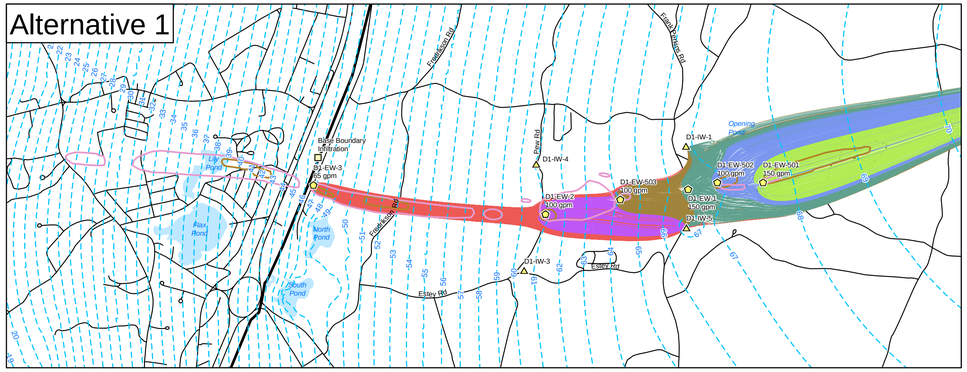
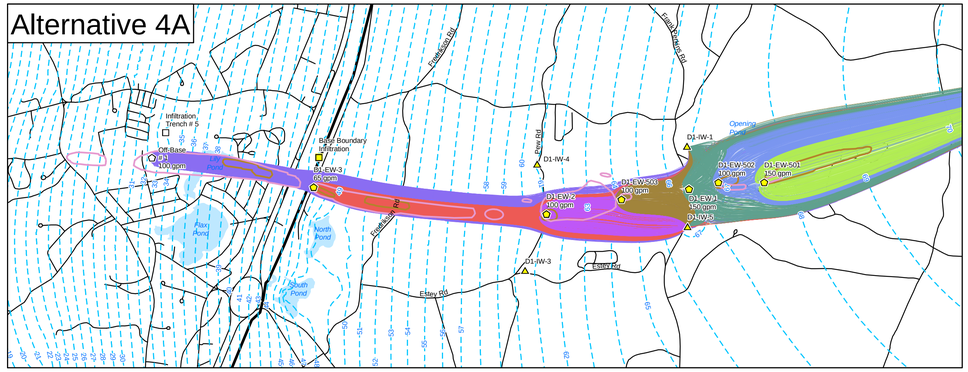
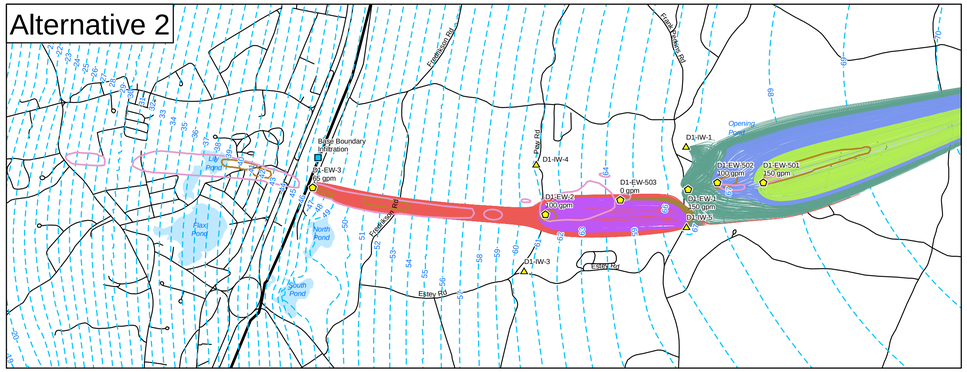
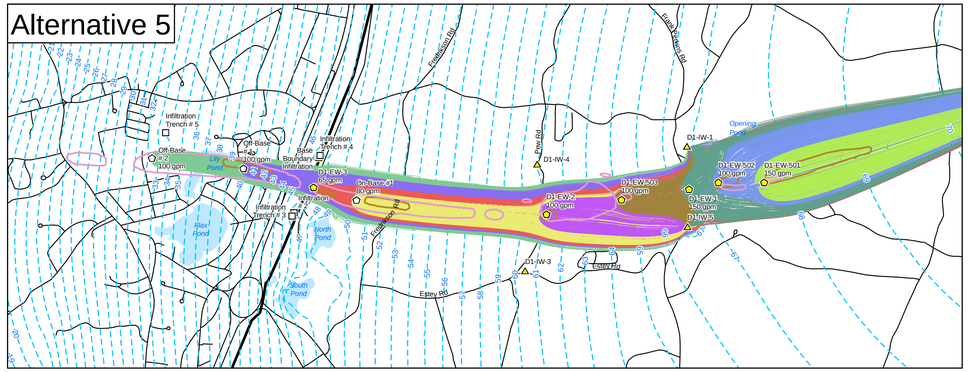
June 18, 2013 DWN: MTW CHKD: MRK

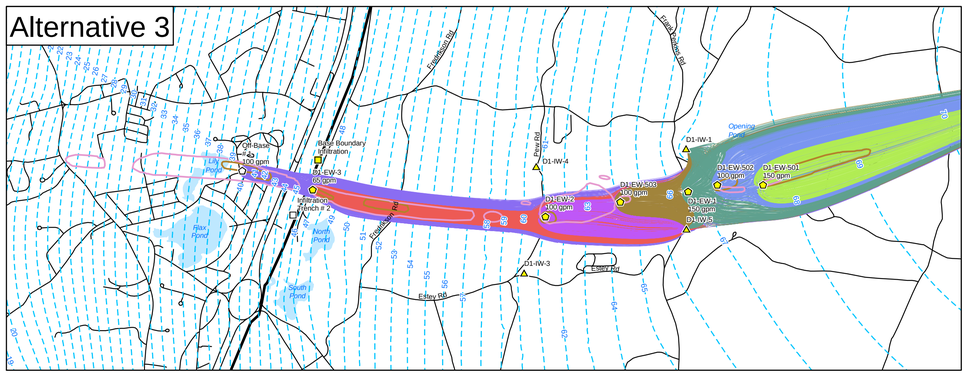
FIGURE
7-1

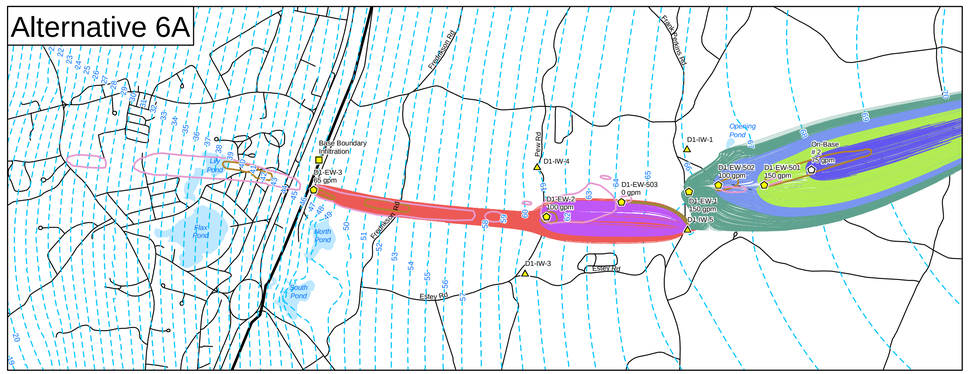


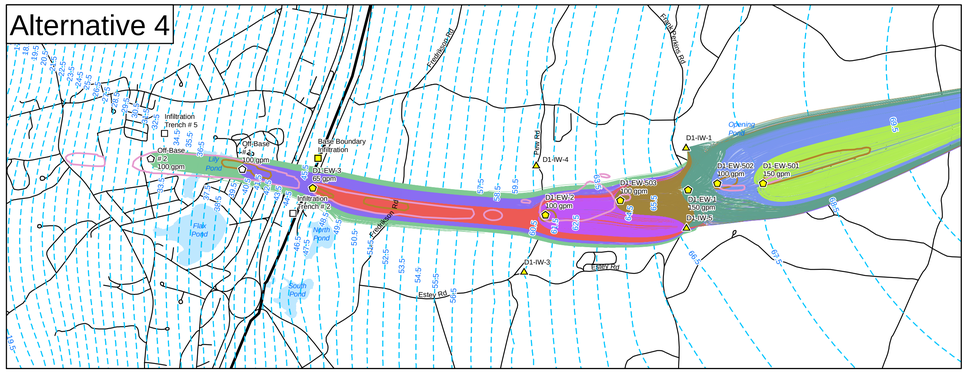


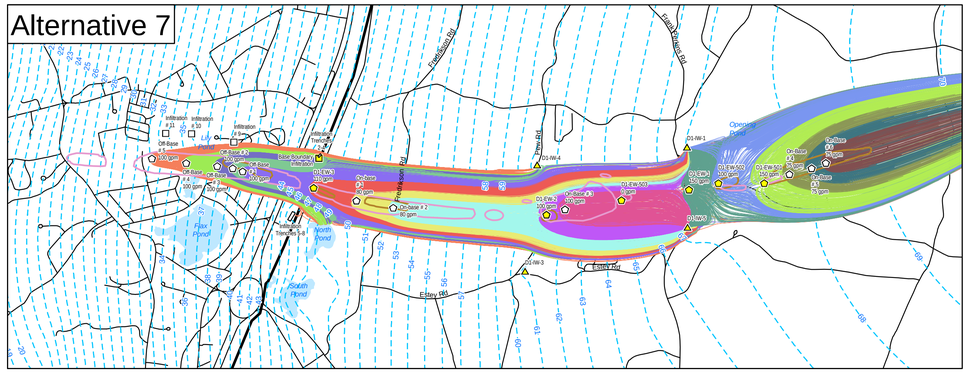












Impact Area Groundwater Study Program

LEGEND

Existing	Alternatives
Extraction Well	Extraction Well
Injection Well	Infiltration Trench
Infiltration Trench	

Perchlorate in Groundwater
- 2 ppb Contour

RDX in Groundwater
- 0.6 ppb Contour

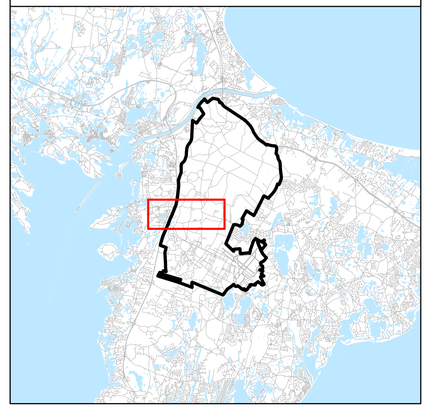
Capture Zones

D1-EW-1	Off-Base #1
D1-EW-2	Off-Base #2
D1-EW-3	On-Base #1
D1-EW-501	On-Base #2
D1-EW-502	
D1-EW-503	

- Model Predicted Water Levels

Note: Plume shell illustrated is representative of widest observed at each transect cross-section, Groundwater data through March 2013.

LOCATION MAP



NOTES & SOURCES

Basemap data from US Geological Survey 7 1/2 minute Topographic Maps. Source: MassGIS

TITLE

Alternatives 1 through 7
Capture Zones
Demo 1 Groundwater Operable Unit

0 1,500 Feet

N

US Army Corps of Engineers®
New England District

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M:\MMR\2013\Demo1\CaptureZones\MXDs\Fig7-1-061813.mxd
June 18, 2013 DWN: MTW CHKD: MRK

FIGURE
7-2

TABLES

Table 4-1
Demo Area 1
Synoptic Water Level Data and Differences - December 2011 through November 2012

Demolition Area 1 - Technical Memorandum

Location	Easting	Northing	Ground Elevation (ft msl)	Measurement Point Elevation (ft msl)	Screen Top Elevation (ft msl)	Screen Bottom Elevation (ft msl)	Groundwater Elevation (ft msl) - 12/12/2011	Groundwater Elevation (ft msl) - 3/26/2012	Groundwater Elevation (ft msl) - 11/5/2012 & 11/6/2012	Difference between 12/12/2011 & 3/26/2012 (ft)	Difference between 3/26/2012 & 11/5/2012 & 11/6/2012 (ft)	Difference between 11/12/2011 & 11/5 - 6/2012 (ft)
D1-EW-1	856744.29	253421.74	145	145.10	36.00	-54.00	66.08	65.70	N/A	-0.38	N/A	N/A
D1-EW-2	853935.07	252846.26	200	197.31	25.00	-15.00	58.44	58.39	56.78	-0.05	-1.61	-1.66
D1-EW-501	858226.32	253599.36	148	147.15	59.56	-40.44	67.63	67.32	N/A	-0.31	N/A	N/A
D1-EW-502	857317.83	253572.98	138	149.92	50.37	-49.63	67.28	66.97	N/A	-0.31	N/A	N/A
D1-EW-503	855407.76	253177.25	178	175.22	29.74	-50.26	64.99	64.80	N/A	-0.19	N/A	N/A
MW-114M1	857818.91	253650.40	147	146.35	-30.27	-40.27	68.39	68.07	66.42	-0.32	-1.65	-1.97
MW-114M2	857818.91	253648.39	147	146.37	26.73	16.73	68.41	68.09	66.42	-0.32	-1.67	-1.99
MW-129M1	857861.09	253462.50	136	135.88	0.25	-9.75	68.39	68.09	66.42	-0.30	-1.67	-1.97
MW-129M2	857861.12	253460.50	136	135.89	20.25	10.25	68.40	68.07	66.41	-0.33	-1.66	-1.99
MW-129M3	857862.10	253461.48	136	135.85	40.25	30.25	68.40	68.09	66.41	-0.31	-1.68	-1.99
MW-139M1	857107.30	253555.19	149	148.48	-45.06	-55.06	67.76	67.49	65.82	-0.27	-1.67	-1.94
MW-139M2	857107.30	253556.20	149	148.57	-5.06	-15.06	67.77	67.49	65.82	-0.28	-1.67	-1.95
MW-139M3	857108.31	253554.20	149	148.58	29.94	19.94	67.80	67.50	65.82	-0.30	-1.68	-1.98
MW-162M1	858243.00	253405.70	140	139.71	-50.28	-60.28	68.53	68.22	66.55	-0.31	-1.67	-1.98
MW-162M2	858242.70	253405.98	140	139.75	14.72	4.72	68.52	68.20	66.52	-0.32	-1.68	-2.00
MW-162M3	858243.01	253405.40	140	139.81	54.72	44.72	68.53	68.21	66.54	-0.32	-1.67	-1.99
MW-165M1	856752.29	253351.39	143	142.72	-41.35	-51.35	67.49	67.23	65.55	-0.26	-1.68	-1.94
MW-165M2	856752.01	253351.68	143	142.73	18.65	8.65	67.48	67.22	65.54	-0.26	-1.68	-1.94
MW-165M3	856752.71	253351.40	143	142.66	48.65	38.65	67.49	67.21	65.55	-0.28	-1.66	-1.94
MW-172M1	856749.71	253071.38	128	127.51	-70.92	-80.92	67.35	67.08	65.39	-0.27	-1.69	-1.96
MW-172M2	856749.40	253071.70	128	127.51	-40.92	-50.92	67.34	67.07	65.40	-0.27	-1.67	-1.94
MW-172M3	856749.12	253071.40	128	127.56	19.08	9.08	67.37	67.10	65.42	-0.27	-1.68	-1.95
MW-173M1	853897.79	253174.68	193	192.57	-50.42	-60.42	62.75	62.66	61.06	-0.09	-1.60	-1.69
MW-173M2	853897.50	253174.38	193	192.59	-15.42	-25.42	62.89	62.85	61.26	-0.04	-1.59	-1.63
MW-173M3	853897.20	253174.70	193	192.57	4.58	-5.42	62.88	62.83	61.26	-0.05	-1.57	-1.62
MW-175M1	853874.00	253418.79	184	184.11	-79.57	-89.57	63.01	62.63	61.03	-0.38	-1.60	-1.98
MW-175M2	853873.72	253418.49	184	184.15	-14.57	-24.57	62.77	63.02	61.43	0.25	-1.59	-1.34
MW-175M3	853873.41	253418.77	184	184.14	22.43	17.43	63.03	63.00	61.41	-0.03	-1.59	-1.62
MW-186M1	853896.01	253587.29	181	180.42	-21.14	-31.14	63.21	63.18	61.58	-0.03	-1.60	-1.63
MW-186M2	853896.39	253588.09	181	180.44	-1.14	-11.14	63.23	63.20	61.61	-0.03	-1.59	-1.62
MW-210M1	856000.89	253222.29	162	161.10	-39.46	-49.46	66.61	66.40	64.81	-0.21	-1.59	-1.80
MW-210M2	856001.30	253222.70	162	161.10	5.54	-4.46	66.61	66.40	64.78	-0.21	-1.62	-1.83
MW-210M3	856001.82	253223.11	162	161.14	40.54	30.54	66.62	66.41	64.78	-0.21	-1.63	-1.84
MW-211M1	853901.81	252822.48	200	199.73	0.14	-9.86	61.55	61.50	59.91	-0.05	-1.59	-1.64
MW-211M2	853902.20	252822.88	200	199.72	25.14	15.14	61.77	61.71	60.13	-0.06	-1.58	-1.64
MW-211M3	853902.61	252823.29	200	199.71	50.14	40.14	62.47	62.43	60.85	-0.04	-1.58	-1.62
MW-214M1	856619.91	252832.38	147	146.82	-50.54	-60.54	67.31	67.06	65.39	-0.25	-1.67	-1.92
MW-214M2	856620.39	252832.79	147	146.81	-17.54	-27.54	67.35	67.10	65.42	-0.25	-1.68	-1.93
MW-214M3	856620.80	252833.20	147	146.81	7.46	-2.54	67.39	67.12	65.43	-0.27	-1.69	-1.96
MW-221M1	853733.21	252122.58	202	201.02	-19.44	-29.44	62.18	62.12	60.57	-0.06	-1.55	-1.61
MW-221M2	853733.51	252122.30	202	200.93	23.56	13.56	62.21	62.15	60.60	-0.06	-1.55	-1.61
MW-221M3	853733.19	252121.99	202	200.97	45.56	35.56	62.21	62.16	60.61	-0.05	-1.55	-1.60
MW-225M1	852647.51	252707.20	152	151.88	-22.72	-32.72	60.13	60.12	58.46	-0.01	-1.66	-1.67
MW-225M2	852647.78	252707.80	152	151.86	7.28	-2.72	59.37	59.37	57.68	0.00	-1.69	-1.69
MW-225M3	852648.10	252707.19	152	151.89	27.28	17.28	59.27	59.30	57.60	0.03	-1.70	-1.67
MW-231M1	852707.69	252359.89	161	160.08	-49.87	-59.87	60.59	60.57	58.92	-0.02	-1.65	-1.67
MW-231M2	852708.00	252359.31	161	160.22	-4.87	-14.87	59.66	59.67	58.00	0.01	-1.67	-1.66
MW-231M3	852707.39	252359.88	161	160.21	45.13	35.13	59.58	59.60	57.92	0.02	-1.68	-1.66
MW-240M1	852526.39	253013.09	151	150.55	-46.68	-56.68	59.30	59.27	57.58	-0.03	-1.69	-1.72
MW-240M2	852526.40	253013.68	151	150.55	26.32	16.32	58.77	58.79	57.06	0.02	-1.73	-1.71
MW-240M3	852526.08	253013.37	151	150.54	46.32	36.32	58.77	58.79	57.06	0.02	-1.73	-1.71
MW-248M1	851296.80	252386.31	161	160.67	-55.04	-65.04	55.17	55.08	53.33	-0.09	-1.75	-1.84
MW-248M2	851296.81	252386.90	161	160.64	-16.74	-26.74	55.41	55.34	53.55	-0.07	-1.79	-1.86

Table 4-1
Demo Area 1
Synoptic Water Level Data and Differences - December 2011 through November 2012

Demolition Area 1 - Technical Memorandum

Location	Easting	Northing	Ground Elevation (ft msl)	Measurement Point Elevation (ft msl)	Screen Top Elevation (ft msl)	Screen Bottom Elevation (ft msl)	Groundwater Elevation (ft msl) - 12/12/2011	Groundwater Elevation (ft msl) - 3/26/2012	Groundwater Elevation (ft msl) - 11/5/2012 & 11/6/2012	Difference between 12/12/2011 & 3/26/2012 (ft)	Difference between 3/26/2012 & 11/5/2012 & 11/6/2012 (ft)	Difference between 11/12/2011 & 11/5 - 6/2012 (ft)
MW-248M3	851296.59	252386.60	161	160.68	18.26	8.26	55.41	55.35	53.58	-0.06	-1.77	-1.83
MW-252M1	851420.97	252001.59	161	161.38	-12.60	-22.60	55.97	55.94	54.21	-0.03	-1.73	-1.76
MW-252M2	851421.01	251999.95	161	161.34	16.40	6.40	55.98	55.95	54.22	-0.03	-1.73	-1.76
MW-252M3	851421.39	252001.60	161	161.34	46.40	36.40	56.01	55.99	54.24	-0.02	-1.75	-1.77
MW-255M1	856919.41	254230.65	167	166.93	-38.82	-48.82	68.08	67.78	66.17	-0.30	-1.61	-1.91
MW-255M2	856919.71	254230.43	167	166.79	-2.82	-12.82	68.08	67.77	66.16	-0.31	-1.61	-1.92
MW-255M3	856919.29	254230.25	167	166.84	31.18	21.18	68.06	67.75	66.15	-0.31	-1.60	-1.91
MW-258M1	851147.16	252783.15	92	92.05	-16.90	-26.90	54.98	54.87	53.05	-0.11	-1.82	-1.93
MW-258M2	851147.21	252781.51	92	92.04	5.10	0.10	55.09	54.91	53.10	-0.18	-1.81	-1.99
MW-258M3	851147.59	252783.16	92	91.96	15.10	10.10	55.07	54.88	53.07	-0.19	-1.81	-2.00
MW-32D	856913.33	254006.68	163	164.65	-18.33	-23.33	67.98	67.68	66.06	-0.30	-1.62	-1.92
MW-32M	856913.30	254007.70	163	164.62	1.67	-8.33	67.96	67.64	66.07	-0.32	-1.57	-1.89
MW-32S	856912.20	254008.22	163	164.63	18.75	13.75	67.94	67.64	66.04	-0.30	-1.60	-1.90
MW-33D	856771.89	253851.39	164	163.35	-17.52	-22.52	67.72	67.43	65.80	-0.29	-1.63	-1.92
MW-33M	856771.90	253852.40	164	163.34	2.48	-7.52	67.71	67.44	65.80	-0.27	-1.64	-1.91
MW-33S	856771.90	253853.39	164	163.34	17.48	12.48	67.71	67.44	65.79	-0.27	-1.65	-1.92
MW-341M1	853911.20	252599.39	218	217.91	-71.14	-81.14	61.62	61.56	59.95	-0.06	-1.61	-1.67
MW-341M2	853911.26	252597.42	218	218.00	-46.14	-51.14	62.55	62.47	60.86	-0.08	-1.61	-1.69
MW-341M3	853912.21	252598.43	218	218.36	8.86	-1.14	63.33	63.27	61.69	-0.06	-1.58	-1.64
MW-341M4	853910.25	252598.37	218	217.78	36.86	31.86	62.66	62.60	61.03	-0.06	-1.57	-1.63
MW-34M1	857746.99	253831.68	145	144.39	-6.07	-16.07	68.33	67.99	66.38	-0.34	-1.61	-1.95
MW-34M2	857750.31	253831.68	145	144.55	13.93	3.93	68.33	68.00	66.36	-0.33	-1.64	-1.97
MW-34M3	857746.99	253834.90	145	144.69	33.93	23.93	68.33	68.00	66.36	-0.33	-1.64	-1.97
MW-352M1	849793.21	252584.84	65	64.20	-50.36	-60.36	50.70	50.27	48.49	-0.43	-1.78	-2.21
MW-352M2	849793.27	252582.87	65	64.26	-0.36	-10.36	50.68	50.26	48.47	-0.42	-1.79	-2.21
MW-352M3	849794.23	252583.88	65	64.28	21.64	11.64	51.70	51.17	49.42	-0.53	-1.75	-2.28
MW-353M1	849707.74	252835.59	56	55.73	-50.98	-60.98	50.19	49.73	47.90	-0.46	-1.83	-2.29
MW-353M2	849707.80	252833.62	56	55.67	-0.98	-10.98	50.27	49.83	48.04	-0.44	-1.79	-2.23
MW-353M3	849708.76	252834.63	56	55.59	21.02	11.02	50.30	49.86	48.05	-0.44	-1.81	-2.25
MW-35M1	857065.79	253742.68	154	153.63	-0.91	-10.91	67.80	67.52	65.85	-0.28	-1.67	-1.95
MW-35M2	857069.11	253742.68	154	153.64	54.09	44.09	67.83	67.54	65.89	-0.29	-1.65	-1.94
MW-35S	857065.79	253745.99	154	153.63	70.09	60.09	67.85	67.53	65.94	-0.32	-1.59	-1.91
MW-36M2	857808.29	253907.89	144	143.03	12.52	2.52	68.50	68.16	66.54	-0.34	-1.62	-1.96
MW-36S	857805.01	253911.18	144	143.04	70.52	60.52	68.51	68.17	66.54	-0.34	-1.63	-1.97
MW-46D	856470.01	255850.18	226	225.56	-68.88	-78.88	67.91	67.56	66.12	-0.35	-1.44	-1.79
MW-46M1	856473.29	255850.17	226	225.56	-35.88	-45.88	67.38	67.02	65.60	-0.36	-1.42	-1.78
MW-46M2	856470.01	255853.49	226	225.55	11.12	1.12	67.37	67.02	65.59	-0.35	-1.43	-1.78
MW-46M3	856466.79	255850.18	226	226.01	44.06	34.06	67.38	67.03	65.61	-0.35	-1.42	-1.77
MW-46S	856470.00	255846.90	226	226.06	72.29	62.29	67.39	67.04	N/A	-0.35	N/A	N/A
MW-47M2	856589.11	255144.81	159	163.72	27.34	17.34	67.67	67.38	65.84	-0.29	-1.54	-1.83
MW-47M3	856585.79	255141.59	159	163.63	43.84	38.84	67.68	67.38	65.84	-0.30	-1.54	-1.84
MW-47S	856589.10	255138.30	159	163.50	68.84	58.84	67.68	67.40	65.86	-0.28	-1.54	-1.82
MW-64M2	859709.31	251953.89	160	159.45	59.88	54.88	69.30	69.03	67.34	-0.27	-1.69	-1.96
MW-73S	860190.10	254252.19	109	124.72	70.49	60.99	70.15	69.82	68.23	-0.33	-1.59	-1.92
MW-74M1	858836.30	254303.18	163	162.10	-7.46	-17.46	69.18	68.86	67.27	-0.32	-1.59	-1.91
MW-74M2	858836.30	254302.19	163	162.13	37.55	27.55	69.21	68.91	67.30	-0.30	-1.61	-1.91
MW-74M3	858837.31	254302.19	163	162.13	62.54	52.54	69.20	68.89	67.28	-0.31	-1.61	-1.92
MW-75M1	858865.99	254151.88	150	149.26	10.06	0.06	69.21	68.90	67.28	-0.31	-1.62	-1.93
MW-75M2	858866.91	254152.89	150	149.36	35.06	25.06	69.15	68.94	67.32	-0.21	-1.62	-1.83
MW-75S	858866.90	254150.89	150	149.32	69.06	59.06	69.17	68.87	67.25	-0.30	-1.62	-1.92
MW-76M1	858929.00	253855.01	136	135.28	11.06	1.06	69.19	68.89	67.25	-0.30	-1.64	-1.94
MW-76M2	858929.99	253855.99	136	135.36	31.06	21.06	69.20	68.87	67.24	-0.33	-1.63	-1.96
MW-76S	858930.01	253853.99	136	135.36	51.06	41.06	69.19	68.90	67.26	-0.29	-1.64	-1.93

Table 4-1
Demo Area 1
Synoptic Water Level Data and Differences - December 2011 through November 2012

Demolition Area 1 - Technical Memorandum

Location	Easting	Northing	Ground Elevation (ft msl)	Measurement Point Elevation (ft msl)	Screen Top Elevation (ft msl)	Screen Bottom Elevation (ft msl)	Groundwater Elevation (ft msl) - 12/12/2011	Groundwater Elevation (ft msl) - 3/26/2012	Groundwater Elevation (ft msl) - 11/5/2012 & 11/6/2012	Difference between 12/12/2011 & 3/26/2012 (ft)	Difference between 3/26/2012 & 11/5/2012 & 11/6/2012 (ft)	Difference between 11/12/2011 & 11/5 - 6/2012 (ft)
MW-77M1	858890.99	254005.90	151	150.87	-28.59	-38.59	69.17	68.87	67.24	-0.30	-1.63	-1.93
MW-77M2	858891.91	254006.88	151	150.91	31.41	21.41	69.24	68.92	67.28	-0.32	-1.64	-1.96
MW-77S	858891.90	254004.91	151	150.88	68.41	58.41	69.17	68.86	67.21	-0.31	-1.65	-1.96
MW-78M1	858983.91	253722.50	146	145.91	11.35	1.35	69.21	68.90	67.26	-0.31	-1.64	-1.95
MW-78M2	858983.90	253720.50	146	145.67	31.19	21.19	69.20	68.88	67.24	-0.32	-1.64	-1.96
MW-78M3	858984.89	253721.48	146	145.91	61.35	51.35	69.20	68.90	67.26	-0.30	-1.64	-1.94
MW-79M1	860803.01	254409.00	159	158.45	3.09	-6.91	70.69	70.36	68.81	-0.33	-1.55	-1.88
MW-79M2	860801.56	254410.44	159	158.45	43.09	33.09	70.70	70.40	68.84	-0.30	-1.56	-1.86
MW-79S	860801.56	254410.47	159	158.47	70.09	60.09	70.71	70.38	68.97	-0.33	-1.41	-1.74
MW-531M1	851150.60	252771.10	93.16	93.17	(44.84)	(54.84)	54.56	54.43	52.63	-0.13	-1.80	-1.93
MW-532M1	851044.14	252960.41	110.45	110.44	(57.55)	(67.55)	54.28	54.12	52.27	-0.16	-1.85	-2.01
MW-532M2	851043.98	252960.14	110.45	110.32	(27.55)	(37.55)	54.24	54.08	52.24	-0.16	-1.84	-2.00
MW-533M1	851269.34	252631.26	110.36	110.30	(49.64)	(59.64)	55.15	55.03	53.24	-0.12	-1.79	-1.91
MW-542M1	851049.67	253177.34	116.81	116.59	(27.19)	(37.19)	54.29	54.14	52.28	-0.15	-1.86	-2.01
							Wells	**Maximum**	**68.97**	**-0.53**	**-1.86**	**-2.29**
								Minimum	**47.90**	**0.25**	**-1.41**	**-1.34**
								Average	**62.29**	**-0.22**	**-1.65**	**-1.87**
								Count	**115**	**120**	**115**	**115**
Notes:							**Extraction Wells**	**Average**	**N/A**	**-0.25**	**-1.61**	**-1.66**

Bolded wells were used in developing piezometric surface maps of the principal stressed zone of the aquifer
ft msl - Feet mean sea level
ft - Feet
NM - Not Measured
NA - Not Applicable. Staff gauge was not installed at that time.

Table 4-2
Demolition Area 1 - Leading Edge Synoptic Water Levels - February 2012 through March 2013

Demo 1 Technical Memorandum

						65 gpm								
Well	**Easting (MA SP27 ft)**	**Northing (MA SP 27 ft)**	**Monitoring Point Elevation (ft msl)**	**Top of Screen (ft msl)**	**Bottom of Screen (ft msl)**	**GW Elev (2/29/2012) (ft)**	**GW Elev (3/21/2012) (ft)**	**GW Elev (4/24/2012) (ft)**	**GW Elev (5/24/2012) (ft)**	**GW Elev (6/26/2012) (ft)**	**GW Elev (11/5/2012 & 11/6/2012) (ft)**	**GW Elev (3/1/2013) (ft)**	**Range (ft)**	**Difference Between 2/29/2012 & 3/1/2013 (ft)**
BHW198	844686.77	253254.79	58.22	n/a	n/a	N/A	N/A	N/A	23.92	22.92	21.79	22.74	2.13	**N/A**
BHW5030020	849791.75	252990.07	59.79	40	38	na	na	na	50.13	49.71	48.33	49.03	1.80	**N/A**
D1-EW-3	849325.02	253287.99	62.10	-9	-109	46.16	46.01	45.61	45.99	45.65	44.14	44.66	2.02	**-1.50**
MW-02-15M1	848584.10	257070.40	86.98	-37	-47	N/A	N/A	N/A	N/A	N/A	38.82	39.25	N/A	**N/A**
MW-02-15M2	848584.58	257070.81	87.07	-13	-23	N/A	N/A	N/A	N/A	N/A	38.76	39.17	N/A	**N/A**
MW-02-15M3	848584.90	257071.21	87.16	7	-3	N/A	N/A	N/A	N/A	N/A	38.72	39.15	N/A	**N/A**
MW-258M1	851147.16	252783.15	92.05	-17	-27	55.03	54.91	54.63	54.60	54.50	53.05	N/A	1.98	**N/A**
MW-258M2	851147.20	252781.51	92.04	5	0	55.05	54.95	54.68	54.62	54.50	53.10	N/A	1.95	**N/A**
MW-258M3	851147.58	252783.17	91.96	15	10	55.03	54.92	54.67	54.60	54.50	53.07	N/A	1.96	**N/A**
MW-352M1	849793.21	252584.84	64.22	-50	-60	50.47	50.34	50.02	50.24	49.94	48.49	48.77	1.98	**-1.70**
MW-352M2	849793.26	252582.88	64.35	0	-10	50.54	50.42	50.06	50.30	50.01	48.47	48.84	2.07	**-1.70**
MW-352M3	849794.22	252583.89	64.35	22	12	51.41	51.30	51.02	51.22	50.82	49.42	N/A	1.99	**N/A**
MW-353M1	849707.74	252835.59	55.67	-51	-61	49.88	49.73	49.38	49.64	49.35	47.90	48.18	1.98	**-1.70**
MW-353M2	849707.80	252833.63	55.61	-1	-11	49.95	49.83	49.47	49.73	49.42	48.04	48.28	1.91	**-1.67**
MW-353M3	849708.75	252834.64	55.51	21	11	49.96	49.82	49.48	49.74	49.42	48.05	48.32	1.91	**-1.64**
MW-531M1	851150.59	252771.11	93.17	-45	-55	54.58	54.44	54.20	54.16	54.05	52.63	N/A	1.95	**N/A**
MW-532M1	851044.13	252960.42	110.44	-58	-68	54.28	54.16	53.87	53.89	53.75	52.27	N/A	2.01	**N/A**
MW-532M2	851043.97	252960.15	110.32	-28	-38	54.24	54.11	53.82	53.83	53.69	52.24	N/A	2.00	**N/A**
MW-533M1	851269.34	252631.27	110.30	-50	-60	55.17	55.07	54.74	54.76	54.64	53.24	N/A	1.93	**N/A**
MW-542M1	851049.66	253177.34	116.59	-27	-37	54.29	54.18	53.88	53.89	53.76	52.28	N/A	2.01	**N/A**
MW-543M1	849201.24	252974.85	57.80	-69	-79	47.47	47.29	46.92	47.31	46.95	45.42	45.95	2.05	**-1.52**
MW-543M2	849201.88	252975.52	57.83	-34	-44	47.53	47.33	46.97	47.39	47.00	45.46	45.97	2.07	**-1.56**
MW-544M1	849258.34	253142.39	73.22	-88	-98	47.55	47.37	47.02	47.39	47.03	45.48	46.02	2.07	**-1.53**
MW-544M2	849263.22	253139.65	72.78	-39	-49	47.56	47.39	47.03	47.40	47.04	45.50	46.04	2.06	**-1.52**
MW-544M3	849259.72	253142.43	73.22	-4	-14	47.69	47.52	47.14	47.53	47.15	45.59	46.17	2.10	**-1.52**
MW-545M1	849317.27	253279.86	62.21	-99	-109	47.56	47.39	47.01	47.39	47.04	45.51	46.02	2.05	**-1.54**
MW-545M2	849322.40	253278.46	62.17	-79	-89	47.68	47.50	47.15	47.49	47.17	45.62	46.13	2.06	**-1.55**
MW-545M3	849317.91	253280.53	62.21	-39	-49	47.57	47.41	47.02	47.40	47.05	45.50	46.03	2.07	**-1.54**
MW-545M4	849323.04	253279.14	62.17	-9	-19	47.66	47.52	47.12	47.50	47.16	45.61	46.13	2.05	**-1.53**
MW-546M1	849379.62	253443.09	62.31	-77	-87	47.70	47.54	47.17	47.54	47.19	45.64	46.14	2.06	**-1.56**
MW-546M2	849380.26	253443.76	62.28	-37	-47	47.78	47.61	47.24	47.60	47.27	45.72	46.20	2.06	**-1.58**
MW-554M1	848704.57	253503.99	54.95	-66	-76	45.08	44.95	44.53	44.94	44.61	43.11	43.76	1.97	**-1.32**
MW-554M2	848704.45	253503.76	54.95	-35	-45	44.94	44.77	44.38	44.79	44.47	42.96	43.63	1.98	**-1.31**

Table 4-2
Demolition Area 1 - Leading Edge Synoptic Water Levels - February 2012 through March 2013

Demo 1 Technical Memorandum

Well	Easting (MA SP27 ft)	Northing (MA SP 27 ft)	Monitoring Point Elevation (ft msl)	Top of Screen (ft msl)	Bottom of Screen (ft msl)	GW Elev (2/29/2012) (ft)	GW Elev (3/21/2012) (ft)	GW Elev (4/24/2012) (ft)	GW Elev (5/24/2012) (ft)	GW Elev (6/26/2012) (ft)	GW Elev (11/5/2012 & 11/6/2012) (ft)	GW Elev (3/1/2013) (ft)	Range (ft)	Difference Between 2/29/2012 & 3/1/2013 (ft)
MW-556M1	848237.92	253566.93	49.54	-103	-113	41.61	41.44	41.05	41.43	41.15	39.71	40.47	1.90	**-1.14**
MW-556M2	848238.15	253566.94	49.53	-61	-71	41.68	41.50	41.07	41.50	41.19	39.75	40.55	1.93	**-1.13**
MW-558M1	847768.01	253479.19	55.62	-78	-88	39.47	39.29	38.89	39.25	38.98	37.58	38.40	1.89	**-1.07**
MW-558M2	847767.78	253479.18	55.59	-42	-52	39.06	38.86	38.44	38.84	38.55	37.20	38.07	1.86	**-0.99**
MW-559M1	847697.75	253438.73	50.78	-85	-95	36.72	36.53	36.13	36.50	36.24	34.88	N/A	1.84	**N/A**
MW-559M2	847697.82	253438.67	50.82	-36	-46	36.88	36.70	36.30	36.68	36.40	35.05	37.69*	1.83	**N/A**
MW-597M1	849752.01	252989.23	58.67	-89	-99	N/A	N/A	N/A	N/A	N/A	N/A	47.89	N/A	**N/A**
MW-597M2	849752.28	252989.30	58.71	-59	-69	N/A	N/A	N/A	N/A	N/A	N/A	47.94	N/A	**N/A**
MW-598M1	844385.21	253647.18	64.21	-57	-67	N/A	N/A	N/A	N/A	N/A	N/A	21.14	N/A	**N/A**
MW-598M2	844385.43	253647.19	64.22	-23	-33	N/A	N/A	N/A	N/A	N/A	N/A	21.14	N/A	**N/A**
MW-599M1	846930.88	252880.96	40.40	-73	-83	N/A	N/A	N/A	N/A	N/A	N/A	33.05	N/A	**N/A**
MW-599M2	846930.50	252881.32	40.38	9	-1	N/A	N/A	N/A	N/A	N/A	N/A	33.28	N/A	**N/A**
MW-600M1	846400.81	252623.31	55.37	-70	-80	N/A	N/A	N/A	N/A	N/A	N/A	30.96	N/A	**N/A**
MW-600M2	846400.89	252623.10	55.40	12	2	N/A	N/A	N/A	N/A	N/A	N/A	31.68	N/A	**N/A**
MW-601M1	846502.15	251750.45	43.53	-77	-87	N/A	N/A	N/A	N/A	N/A	N/A	31.94	N/A	**N/A**
MW-601M2	846502.18	251750.61	43.58	5	-5	N/A	N/A	N/A	N/A	N/A	N/A	35.34	N/A	**N/A**
MW-602M1	847211.03	253278.51	38.45	-70	-80	N/A	N/A	N/A	N/A	N/A	N/A	33.95	N/A	**N/A**
MW-602M2	847211.05	253278.09	38.65	12	2	N/A	N/A	N/A	N/A	N/A	N/A	37.14	N/A	**N/A**
MW-603M1	847577.80	251948.86	43.24	-70	-80	N/A	N/A	N/A	N/A	N/A	N/A	36.40	N/A	**N/A**
MW-603M2	847577.60	251948.60	43.23	12	2	N/A	N/A	N/A	N/A	N/A	N/A	36.96	N/A	**N/A**
MW-604M1	847639.68	252732.80	40.36	-70	-80	N/A	N/A	N/A	N/A	N/A	N/A	36.86	N/A	**N/A**
MW-604M2	847639.91	252732.61	40.28	12	2	N/A	N/A	N/A	N/A	N/A	N/A	37.20	N/A	**N/A**
MW-84D	850058.99	255362.99	86.19	-103	-113	N/A	N/A	N/A	N/A	N/A	47.71	47.95	N/A	**N/A**
MW-84M2	850058.99	255366.21	86.48	-17	-27	N/A	N/A	N/A	N/A	N/A	47.84	48.05	N/A	**N/A**
MW-84M3	850055.70	255362.99	86.39	8	-2	N/A	N/A	N/A	N/A	N/A	47.79	48.02	N/A	**N/A**
PMHP-1	846163.73	254251.03	59.31	n/a	n/a	N/A	N/A	N/A	N/A	N/A	28.34	29.20	N/A	**N/A**
PMHP-2	845712.20	253843.69	51.93	32	22	N/A	N/A	N/A	N/A	N/A	27.42	31.01*	N/A	**N/A**
PMHP-3D	846198.52	253522.67	61.67	33	23	N/A	N/A	N/A	N/A	N/A	28.49	29.85	N/A	**N/A**
PZD1001	849625.91	253611.77	72.59	51	41	49.23	49.07	48.71	49.14	48.74	47.10	47.66	2.13	**-1.57**
XX9514	849518.39	253149.77	58.66	-45	-55	48.41	48.27	47.89	48.24	47.88	46.36	46.80	2.05	**-1.61**

Wells	**Maximum**		**2.13**	**-0.99**
	Minimum		**1.80**	**-1.70**
	Average		**1.99**	**-1.48**
	Count		**38**	**25**

Table 4-2
Demolition Area 1 - Leading Edge Synoptic Water Levels - February 2012 through March 2013

Demo 1 Technical Memorandum

Staff Gauge	Easting (MA SP27 ft)	Northing (MA SP 27 ft)	Gauge (Zero) Elevation (ft msl)	Water Elevation (2/29/2012)	Water Elevation (3/21/2012)	Water Elevation (4/24/2012)	Water Elevation (5/24/2012)	Water Elevation (6/26/2012)	Water Elev (11/5/2012 & 11/6/2012)	Water Elev (3/1/2013)	Range (ft)	Difference Between 2/29/2012 & 3/1/2013 (ft)
SGD1NPD	849615.56	252701.30	50.16	51.14	51.14	50.77	50.94	50.64	49.76	50.20	1.38	-0.94
SGD1SPD	848782.28	251411.79	47.79	50.27	50.09	49.74	49.83	48.59	48.48	48.75	1.79	-1.52
SGD1WPD	848610.33	251352.98	43.87	46.54	46.27	46.16	46.75	46.10	43.53	45.10	3.22	-1.44
Flax	N/A								35.18	36.19	1.01	N/A
Lily	N/A								36.16	37.16	1.00	N/A

Legend

MA SP ft = Massachusetts State Plane North American Datum of 1927 - feet
ft sml = Feet Mean Sea Level
GW Elev = Groundwater Elevation
ft = feet
N/A = Not Applicable
Bolded Wells = Wells used to construct potentiometric surface maps

Demolition Area 1 - Slug Test Results Pneumatic (Rising Head) and Slug-In (Falling Head)
November 2012 and February 2013

Demo 1 Technical Memorandum

Well	Ground Elevation (ft msl)	Monitoring Point Elevation (ft msl)	Depth to Top of Screen (ft bgs)	Depth to Bottom of Screen (ft bgs)	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)	Top of Screen Elevation (ft msl)	Bottom of Screen Elevation (ft msl)	Depth to Top of Screen from Water (ft)	Water Colum Length - Measured from Base of SCreen (ft)	Approximate Aquifer Thickness (ft)	Casing Radius (ft)	Borehole Radius (ft)	DATE	Remarks
MW-554M1	54.3	54.95	120	130	11.72	43.23	-66	-76	109	119	183	0.083	0.25	11/9/2012	
MW-554M2	54.3	54.95	89	99	11.85	43.1	-35	-45	78	88	183	0.083	0.333	11/9/2012	
MW-559M2	51.01	50.82	87	97	15.59	35.23	-36	-46	71	81	180	0.042	0.25	11/9/2012	
MW-556M1	49.6	49.54	153	163	9.73	39.81	-103	-113	143	153	190	0.042	0.25	11/30/2012	
MW-556M2	49.6	49.53	111	121	9.7	39.83	-61	-71	101	111	190	0.042	0.25	11/30/2012	
MW-559M2	51.01	50.82	87	97	15.69	35.13	-36	-46	71	81	180	0.042	0.25	11/30/2012	
MW-559M1	51.01	50.78	135.5	145.5	15.85	34.93	-84	-94	119	129	180	0.042	0.25	11/30/2012	
MW-598M1	64.71	64.21	122	132	43.24	20.97	-57.29	-67.29	78	88	145	0.167	0.250	2/15/2013	Wells were not developed prior to test
MW-598M2	64.71	64.22	88	98	43.27	20.95	-23.29	-33.29	44	54	145	0.167	0.333	2/14/2015	Wells were not developed prior to test
MW-600M1	55.6	55.37	126	136	24.73	30.64	-70.4	-80.4	101	111	180	0.167	0.250	2/14/2013	
MW-600M2	55.6	55.4	44	54	24.06	31.34	11.6	1.6	20	30	180	0.167	0.333	2/14/2013	
MW-601M1	43.89	43.53	121	131	11.91	31.62	-77.11	-87.11	109	119	180	0.167	0.250	2/15/2013	
MW-601M2	43.89	43.58	39	49	8.82	34.76	4.89	-5.11	30	40	180	0.167	0.333	2/15/2013	
MW-602M1	38.98	38.45	109	119	4.79	33.66	-70.02	-80.02	104	114	180	0.167	0.333	2/14/2013	
MW-602M2	38.98	38.65	27	37	2.13	36.52	11.98	1.98	25	35	180	0.167	0.333	2/14/2013	
MW-603M1	43.59	43.24	114	124	7.22	36.02	-70.41	-80.41	106	116	180	0.167	0.333	2/14/2013	
MW-603M2	43.59	43.23	32	42	6.76	36.47	11.59	1.59	25	35	180	0.167	0.333	2/14/2013	
PMHP-3D	60.01	61.97	26.5	36.5	32.95	29.02	33.51	23.51	na	6	160	0.083	0.25	11/30/2012	

Well	Test Type	Test 1	Test 2	Test 3	Average K
MW-554M1	Pneumatic	64	62	56	61
MW-554M2	Pneumatic	16	15	10	13
MW-556M1	Falling - Slug In	89	na	na	89
MW-556M2	Falling - Slug In	1	na	na	1
MW-559M1	Falling - Slug In	10.5	na	na	10.5
MW-559M2	Pneumatic	5	3	2	3
MW-559M2	Falling - Slug In	2	na	na	2
MW-598M1*	Pneumatic	1	1.5	na	1
MW-598M2*	Pneumatic	1	na	na	1
MW-600M1	Pneumatic	24	na	20	22
MW-600M2	Pneumatic	12	na	8	10
MW-601M1	Pneumatic	30	30	na	30
MW-601M2	Pneumatic	50	46	45	47
MW-602M1	Pneumatic	na	13	13	13
MW-602M2	Pneumatic	40	na	35	37
MW-603M1	Pneumatic	na	12	12	12
MW-603M2	Pneumatic	6	5	5	5
PMHP-3D/****[1]	Falling - Slug In	7.5	na	na	7.5
				Maximum	89
				Minimum	1
				Geometric Mean	10

Legend

* - Wells were not developed prior to testing
** - Well was slug tested on 10/7/2003 by Brown & Caldwell results were 27 ft/d & 29 ft/d in repeat tests
*** - Partially saturated screen - Falling Head is theoretically not applicable as water could be lost to formation - Consider estimated
ft msl = Feet Mean Sea Leve
ft bgs = Feet Below Ground Surface
ft btoc = Feet Below Top of Casing
ft = Fee[illegible]

Table 5-1

Demolition Area 1

Perchlorate and Explosive COCs in Groundwater - November 2012 through April 2013

Demo 1 Technical Memorandum

Zone	Well	east_27sp	north_27sp	ELEV	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	D1-EW-1	856744.29	253421.74	145	36	-54	N	0.277		0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	11/20/2012
1	D1-EW-501	858226.32	253599.36	148	60	-40	N	0.205		1.31		0.839		0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	11/20/2012
1	D1-EW-502	857317.83	253572.98	138	50	-50	N	0.989		0.788		0.102	J	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	11/20/2012
1	MW-19S	860259.61	254305.79	109	56	46	N	N/A		10.6		5.3		0.228		0.203	U	0.203	U	0.306		0.388		11/26/2012
1	MW-31M	859727.31	254181.2	154	41	31	N	N/A		1.04		0.98		0.204	U	0.204	U	0.204	U	0.363		0.276		11/26/2012
1	MW-31S	859727.31	254182.22	154	56	51	FD	N/A		2.1		1.41		1.5		0.175	J	0.205	U	0.56		0.6		11/26/2012
1	MW-31S	859727.31	254182.22	154	56	51	N	N/A		2.08		1.42		1.5		0.235		0.204	U	0.552		0.577		11/26/2012
1	MW-73S	860190.1	254252.2	109	57	47	N	N/A		0.561		0.228		0.205	U	0.205	U	0.205	U	0.205	U	0.205	U	11/26/2012
1	MW-76M2	858929.98	253855.99	136	31	21	FD	N/A		2.27		2.46		0.206	U	0.206	U	0.206	U	0.182	J	0.349		11/26/2012
1	MW-76M2	858929.98	253855.99	136	31	21	N	N/A		2.43		2.37		0.204	U	0.204	U	0.204	U	0.194	J	0.297		11/26/2012
1	MW-77M2	858891.9	254006.88	151	31	21	N	N/A		1.64		0.869		0.206	U	0.206	U	0.206	U	0.142	J	0.2	J	11/19/2012
2	D1-EW-503	855407.76	253177.25	178	30	-50	N	0.236		0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	11/20/2012
2	MW-211M1	853901.81	252822.48	200	0	-10	FD	28.1	J	15		1.62		0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	11/27/2012
2	MW-211M1	853901.81	252822.48	200	0	-10	N	27.7	J	15.1		1.67		0.205	U	0.205	U	0.205	U	0.205	U	0.205	U	11/27/2012
2	MW-341M3	853912.21	252598.43	218	9	-1	N	0.303		N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/26/2012
3	MW-258M1	851147.16	252783.15	92	-17	-27	N	7.44		N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/27/2012
3	MW-532M1	851044.13	252960.42	110	-58	-68	N	6.54		N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/27/2012
3	MW-532M2	851043.97	252960.15	110	-28	-38	FD	27.6		N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/27/2012
3	MW-532M2	851043.97	252960.15	110	-28	-38	N	27.9	J	1.71		0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	11/27/2012
3	MW-543M1	849201.24	252974.85	58	-69	-79	N	0.14	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/11/2012
3	MW-543M2	849201.88	252975.52	58	-34	-44	N	0.16	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/11/2012
3	MW-544M1	849258.34	253142.39	74	-88	-98	N	0.7		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/11/2012
3	MW-544M2	849263.22	253139.65	73	-39	-49	N	0.13	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/11/2012
3	MW-544M3	849259.72	253142.43	74	-4	-14	N	0.061	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/11/2012
3	MW-545M1	849317.27	253279.86	63	-99	-109	N	1.48		0.076	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/10/2012
3	MW-545M2	849322.4	253278.46	63	-79	-89	N	0.95		0.1	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/10/2012
3	MW-545M3	849317.91	253280.53	63	-39	-49	N	0.38		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/10/2012
3	MW-545M4	849323.04	253279.14	63	-9	-19	N	0.29		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/10/2012
3	MW-546M1	849379.62	253443.09	63	-77	-87	N	0.098	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/10/2012
3	MW-546M2	849380.25	253443.76	63	-37	-47	N	0.075	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/10/2012
3	MW-554M1	848704.56	253504	54	-66	-76	N	0.55		0.25	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/12/2012
3	MW-554M2	848704.44	253503.76	54	-35	-45	N	0.63		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/12/2012
3	MW-556M1	848237.91	253566.93	50	-103	-113	N	6.29		0.55	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/12/2012
3	MW-556M2	848238.14	253566.94	50	-61	-71	FD	5.44		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/12/2012
3	MW-556M2	848238.14	253566.94	50	-61	-71	N	5.68		0.57		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/12/2012
3	MW-558M1	847767.84	253515.17	56	-78	-88	N	2.65		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/12/2012
3	MW-558M2	847767.74	253515.26	56	-42	-52	N	3.06		0.29	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/12/2012
3	MW-559M1	847673.99	253414.51	53	-83	-93	N	2.02		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/11/2012
3	MW-559M2	847673.94	253414.27	53	-34	-44	N	0.3		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/12/2012
3	MW-597M1	849752.01	252989.24	59	-89	-99	N	0.11	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	2/28/2013
3	MW-597M2	849752.27	252989.31	59	-59	-69	FD	0.1	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	2/28/2013
3	MW-597M2	849752.27	252989.31	59	-59	-69	N	0.081	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	2/28/2013
3	XX9514	849519.42	253152.85	57	-45	-55	N	2.96		N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/20/2012

Table 5-1

Demolition Area 1

Perchlorate and Explosive COCs in Groundwater - November 2012 through April 2013

Demo 1 Technical Memorandum

Zone	Well	east_27sp	north_27sp	ELEV	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
4	MW-569M1	846114.59	253618.05	54	-80	-90	N	3.68		1.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/4/2013
4	MW-569M2	846114.47	253617.75	54	-30	-40	N	2.08		1.27	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/4/2013
4	MW-571M1	845945.21	253545.65	58	-56	-66	N	3.69		1.38	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/4/2013
4	MW-571M2	845944.88	253545.67	58	-16	-26	N	3.22		1.91	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/4/2013
4	MW-582M1	845047.06	253584.86	72	-62	-72	N	1.03		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/19/2013
4	MW-582M2	845046.76	253585.02	72	-12	-22	N	3.41		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/19/2013
4	MW-598M1	844385.2	253647.17	65	-57	-67	N	0.91		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	3/5/2013
4	MW-598M2	844385.43	253647.21	65	-23	-33	N	1.06		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	3/5/2013

Legend

NAD SP27 = Massachusetts State Plane Coordinate North American Datum of 1927
TOS = Top of Screen
BOS = Bottom of Screen
ft msl = Feet Mean Sea Level
U = Non-Detect
J = Estimated Concentration
UJ = Estimated Non-Detect
N = Normal Field Sample
FD = Field Duplicate

Table 5-2

Demolition Area 1
Extraction Well Influent

Concentration for Perchlorate and Explosive Contaminants of Concern
September 2012 - March 2013

Well	Easting (MA SP 27) (ft)	northing (MA SP 27) (ft)	ELEV (ft msl)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	RDX	HMX	TNT	2,4-DNT	2,6-DNT	2A-DNT	4A-DNT	Date
D1-EW-2	853900	252996	200	25	-15	N	5.16	1.11	0.204 U	0.204 U	0.204 U	0.204 U	0.204 U	0.204 U	3/6/2013
D1-EW-2	853900	252996	200	25	-15	N	5.26	1.64	0.204 U	0.204 U	0.204 U	0.204 U	0.204 U	0.204 U	2/6/2013
D1-EW-2	853900	252996	200	25	-15	N	4.92	1.28	0.205 U	0.205 U	0.205 U	0.205 U	0.205 U	0.205 U	1/9/2013
D1-EW-2	853900	252996	200	25	-15	N	5.12	1.1	0.203 U	0.203 U	0.203 U	0.203 U	0.203 U	0.203 U	12/11/2012
D1-EW-2	853900	252996	200	25	-15	N	5.26	1.15	0.204 U	0.204 U	0.204 U	0.204 U	0.204 U	0.204 U	11/7/2012
D1-EW-2	853900	252996	200	25	-15	N	5.74	1.09	0.204 U	0.204 U	0.204 U	0.204 U	0.204 U	0.204 U	10/11/2012
D1-EW-2	853900	252996	200	25	-15	N	5.81	1.24	0.202 U	0.202 U	0.202 U	0.202 U	0.202 U	0.202 U	9/11/2012
D1-EW-3	849507.91	253413.8	69.5	-10	-110	N	0.75	0.205 U	0.205 U	0.205 U	0.205 U	0.205 U	0.205 U	0.205 U	3/6/2013
D1-EW-3	849507.91	253413.8	69.5	-10	-110	N	0.767	0.205 U	0.205 U	0.205 U	0.205 U	0.205 U	0.205 U	0.205 U	2/4/2013
D1-EW-3	849507.91	253413.8	69.5	-10	-110	N	0.767	0.206 U	0.206 U	0.206 U	0.206 U	0.206 U	0.206 U	0.206 U	1/9/2013
D1-EW-3	849507.91	253413.8	69.5	-10	-110	N	0.778	0.205 U	0.205 U	0.205 U	0.205 U	0.205 U	0.205 U	0.205 U	12/11/2012
D1-EW-3	849507.91	253413.8	69.5	-10	-110	N	0.722	0.206 U	0.206 U	0.206 U	0.206 U	0.206 U	0.206 U	0.206 U	11/7/2012
D1-EW-3	849507.91	253413.8	69.5	-10	-110	N	0.804	0.206 U	0.206 U	0.206 U	0.206 U	0.206 U	0.206 U	0.206 U	10/10/2012
D1-EW-3	849507.91	253413.8	69.5	-10	-110	N	0.816	0.205 U	0.205 U	0.205 U	0.205 U	0.205 U	0.205 U	0.205 U	9/11/2012
FPR - Influent	856857.51	254084.6	N/A	N/A	N/A	N	0.384	0.677	0.235	0.205 U	0.205 U	0.205 U	0.205 U	0.205 U	3/6/2013
FPR - Influent	856857.51	254084.6	N/A	N/A	N/A	N	0.378	0.63	0.326	0.205 U	0.205 U	0.205 U	0.205 U	0.205 U	2/6/2013
FPR - Influent	856857.51	254084.6	N/A	N/A	N/A	N	0.373	0.697	0.204 U	0.204 U	0.204 U	0.204 U	0.204 U	0.204 U	1/9/2013
FPR - Influent	856857.51	254084.6	N/A	N/A	N/A	N	0.392	0.57	0.304	0.204 U	0.204 U	0.204 U	0.204 U	0.204 U	12/11/2012
FPR - Influent	856857.51	254084.6	N/A	N/A	N/A	N	0.385	0.616	0.226	0.206 U	0.206 U	0.206 U	0.206 U	0.206 U	11/7/2012
FPR - Influent	856857.51	254084.6	N/A	N/A	N/A	N	0.403	0.524	0.231	0.206 U	0.206 U	0.206 U	0.206 U	0.206 U	10/11/2012
FPR - Influent	856857.51	254084.6	N/A	N/A	N/A	N	0.415	0.654	0.295	0.203 U	0.203 U	0.203 U	0.203 U	0.203 U	9/11/2012

Legend

NAD SP27 = Massachusetts State Plane Coordinate North American Datum of 1927
TOS = Top of Screen
BOS = Bottom of Screen
ft msl = Feet Mean Sea Level
U = Non-Detect
J = Estimated Concentration
UJ = Estimated Non-Detect
N = Normal Field Sample

Table 5-3
Demolition Area 1

Perchlorate and Explosive COC in Profile Groundwater Borings BH-597 and BH-598 - January/February 2013

Demo 1 Technical Memorandum

Boring	Easting (MA State Plane - 1927) ,ft	Northing (MA State Plane - 1927), ft	Elevation (ft msl)	Top of Sample Interval (ft msl)	Bottom of Sample Interval (ft msl)	Perchlorate (µg/L)	RDX (µg/L)	HMX (µg/L)	TNT (µg/L)	2,4-DNT (µg/L)	2,6-DNT (µg/L)	2A-DNT (µg/L)	4A-DNT (µg/L)	Date
BH-597	849790.67	252993.16	58	28	23	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1/22/2013
BH-597	849790.67	252993.16	58	18	13	0.2 U	0.49 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1/22/2013
BH-597	849790.67	252993.16	58	8	3	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1/22/2013
BH-597	849790.67	252993.16	58	-2	-7	0.055 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1/23/2013
BH-597	849790.67	252993.16	58	-12	-17	0.053 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1/23/2013
BH-597	849790.67	252993.16	58	-22	-27	0.058 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1/23/2013
BH-597	849790.67	252993.16	58	-32	-37	0.069 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1/23/2013
BH-597	849790.67	252993.16	58	-42	-47	0.07 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1/23/2013
BH-597	849790.67	252993.16	58	-52	-57	0.12 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1/23/2013
BH-597	849790.67	252993.16	58	-62	-67	0.11 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1/23/2013
BH-597	849790.67	252993.16	58	-72	-77	0.12 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1/23/2013
BH-597	849790.67	252993.16	58	-82	-87	0.13 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1/24/2013
BH-597	849790.67	252993.16	58	-92	-97	0.095 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1/24/2013
BH-597	849790.67	252993.16	58	-102	-107	0.11 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1/24/2013
BH-597	849790.67	252993.16	58	-112	-117	0.1 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1/24/2013
BH-597	849790.67	252993.16	58	-122	-127	0.11 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1/24/2013
BH-597	849790.67	252993.16	58	-132	-137	0.092 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1/24/2013
BH-598	844384.49	253646.63	65	5	0	0.11 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2/4/2013
BH-598	844384.49	253646.63	65	-5	-10	0.35	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2/4/2013
BH-598	844384.49	253646.63	65	-15	-20	1.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2/5/2013
BH-598	844384.49	253646.63	65	-25	-30	1.65	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2/5/2013
BH-598	844384.49	253646.63	65	-35	-40	0.92	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2/5/2013
BH-598	844384.49	253646.63	65	-45	-50	0.76	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2/5/2013
BH-598	844384.49	253646.63	65	-55	-60	1.09	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2/5/2013
BH-598	844384.49	253646.63	65	-65	-70	1.03	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2/5/2013
BH-598	844384.49	253646.63	65	-75	-80	0.46	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2/6/2013
BH-598	844384.49	253646.63	65	-85	-90	0.5	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2/6/2013
BH-598	844384.49	253646.63	65	-95	-100	0.27	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2/6/2013
BH-598	844384.49	253646.63	65	-105	-110	0.063 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2/6/2013

Legend

NAD SP27 = Massachusetts State Plane Coordinate North American Datum of 1927
TOS = Top of Screen
BOS = Bottom of Screen
ft msl = Feet Mean Sea Level
U = Non-Detect
J = Estimated Concentration
UJ = Estimated Non-Detect
N = Normal Field Sample
FD = Field Duplicate
µg/L= Micrograms per Liter

Table 6-1

Regional Model Calibration Summary to 5-6 November 2012 Synoptic Round

Demo 1 Technical Memorandum

															East of Lily		West of Lily			Base Simulation				East of Lily		West of Lily	
					From		To		Basis		Calibration Statistics				Model	Measured	Model	Measured		Calibration Statistics - Initial				Model	Measured	Model	Measured
Run	Zone	Layer	Top	Bottom	Kx (ft/d)	Kz (ft/d)	Kx (ft/d)	Kz (ft/d)	MW-559M1	MW-556M1	Scaled RMS (%)	RSS (sq. ft)	Min. Res (ft)	Max Res (ft)	Gradient (ft/ft)		Gradient (ft)			Scaled RMS (%)	RSS (sq. ft)	Min. Res (ft)	Max Res (ft)	Gradient (ft/ft)		Gradient (ft)	
1	154	8	-80	-100	100	3.33	50	2.5	10	90	3.1	305	-4.57	2.87	4.46E-03	5.83E-03	4.66E-03	9.86E-03		2.7	220	-4.07	3.65	4.66E-03	5.83E-03	4.46E-03	1.00E-02
									50																		
2	154	8	-80	-100	100	3.33	50	2.5	See Above	50	5.8	1040	-5.83	1.35	5.00E-03	5.83E-03	4.76E-03	9.86E-03		2.7	220	-4.07	3.65	4.66E-03	5.83E-03	4.46E-03	1.00E-02
	160	7	-60	-80	125	4.167	60	2	MW-554M1	60																	
3	154	8	-80	-100	100	3.33	50	2.5	See Above	50	9.7	2920	-7.69	-1.39	5.60E-03	5.83E-03	4.76E-03	9.86E-03		2.7	220	-4.07	3.65	4.66E-03	5.83E-03	4.46E-03	1.00E-02
	160	7	-60	-80	125	4.167	60	2	MW-554M1	60																	
	166	6	-40	-60	180	36	30	1	MW-559M2	5																	
4	154	8	-80	-100	100	3.33	50	2.5	See Above	50	19.5	11900	-14.77	-3.88	5.25E-03	5.83E-03	5.71E-03	9.86E-03		2.7	220	-4.07	3.65	4.66E-03	5.83E-03	4.46E-03	1.00E-02
	160	7	-60	-80	125	4.167	60	2	MW-554M1	60																	
	166	6	-40	-60	180	36	30	1	MW-559M2	5																	
	163	5	-20	-40	150	25	20	1																			
	163	4	0	-20	150	25	20	1																			
5	154	8	-80	-100	100	3.33	50	2.5	See Above	50	31.5	31400	-24.12	-5.01	3.87E-03	5.83E-03	8.33E-03	9.86E-03		2.7	220	-4.07	3.65	4.66E-03	5.83E-03	4.46E-03	1.00E-02
	160	7	-60	-80	125	4.167	60	2	MW-554M1	60																	
	166	6	-40	-60	180	36	30	1	MW-559M2	5																	
	163	5	-20	-40	150	25	20	1																			
	163	4	0	-20	150	25	20	1																			
	165	3	20	0	175	25	25	1.5																			
	165	2	40	20	175	25	25	1.5	PMHP-3D & 2	25 - 30																	
6	154	8	-80	-100	100	3.33	50	10	See Above	50	30.1	28300	-23.19	-4.81	4.07E-03	5.83E-03	8.33E-03	9.86E-03		2.7	220	-4.07	3.65	4.66E-03	5.83E-03	4.46E-03	1.00E-02
	160	7	-60	-80	125	4.167	60	12	MW-554M1	60																	
	166	6	-40	-60	180	36	30	6	MW-559M2	5																	
	163	5	-20	-40	150	25	20	4																			
	163	4	0	-20	150	25	20	4																			
	165	3	20	0	175	25	25	5																			
	165	2	40	20	175	25	25	5	PMHP-3D & 2	25 - 30																	
7	154	8	-80	-100	100	3.33	50	15	See Above	50	29.8	27700	-23	-4.77	4.80E-03	5.83E-03	8.06E-03	9.86E-03		2.7	220	-4.07	3.65	4.66E-03	5.83E-03	4.46E-03	1.00E-02
	160	7	-60	-80	125	4.167	60	20	MW-554M1	60																	
	166	6	-40	-60	180	36	30	10	MW-559M2	5																	
	163	5	-20	-40	150	25	20	7																			
	163	4	0	-20	150	25	20	7																			
	165	3	20	0	175	25	25	8																			
	165	2	40	20	175	25	25	8	PMHP-3D & 2	25 - 30																	
8	154	8	-80	-100	100	3.33	50	15	See Above	50	27	22800	-21.5	-4.01	4.08E-03	5.83E-03	8.70E-03	9.86E-03		2.7	220	-4.07	3.65	4.66E-03	5.83E-03	4.46E-03	1.00E-02
	160	7	-60	-80	125	4.167	60	20	MW-554M1	60																	
	166	6	-40	-60	180	36	30	10	MW-559M2	5	MULTIPLY DRAIN CONDUCTANCE X 5 from base run																
	163	5	-20	-40	150	25	20	7			MULTIPLY GHB CONDUCTANCE X 5 from base run																
	163	4	0	-20	150	25	20	7																			
	165	3	20	0	175	25	25	8																			
	165	2	40	20	175	25	25	8	PMHP-3D & 2	25 - 30																	
9	154	8	-80	-100	100	3.33	50	15	See Above	50	26.4	21800	-21.16	-3.85	4.52E-03	5.83E-03	9.14E-03	9.86E-03		2.7	220	-4.07	3.65	4.66E-03	5.83E-03	4.46E-03	1.00E-02
	160	7	-60	-80	125	4.167	60	20	MW-554M1	60																	
	166	6	-40	-60	180	36	30	10	MW-559M2	5	MULTIPLY DRAIN CONDUCTANCE X 10 from base run																
	163	5	-20	-40	150	25	20	7			MULTIPLY GHB CONDUCTANCE X 10 from base run																
	163	4	0	-20	150	25	20	7																			
	165	3	20	0	175	25	25	8																			
	165	2	40	20	175	25	25	8	PMHP-3D & 2	25 - 30																	
10	154	8	-80	-100	100	3.33	75	2.5	See Above	50	23.5	17200	-19.65	-3.24	4.36E-03	5.83E-03	8.51E-03	9.86E-03		2.7	220	-4.07	3.65	4.66E-03	5.83E-03	4.46E-03	1.00E-02
	160	7	-60	-80	125	4.167	75	2.5	MW-554M1	60																	
	166	6	-40	-60	180	36	30	10	MW-559M2	5	MULTIPLY DRAIN CONDUCTANCE X 10 from base run																
	163	5	-20	-40	150	25	20	7			MULTIPLY GHB CONDUCTANCE X 10 from base run																
	163	4	0	-20	150	25	20	7																			
	165	3	20	0	175	25	25	8																			
	165	2	40	20	175	25	25	8	PMHP-3D & 2	25 - 30																	
11	154	8	-80	-100	100	3.33	75	2.5	See Above	50	9.3	2710	-8.83	-1.49	5.36E-03	5.83E-03	6.67E-03	9.86E-03		2.7	220	-4.07	3.65	4.66E-03	5.83E-03	4.46E-03	1.00E-02
	160	7	-60	-80	125	4.167	75	2.5	MW-554M1	60																	

Table 6-1

Regional Model Calibration Summary to 5-6 November 2012 Synoptic Round

Demo 1 Technical Memorandum

					From		To		Basis		Calibration Statistics				East of Lily		West of Lily			Base Simulation				East of Lily		West of Lily	
															Model	Measured	Model	Measured		Calibration Statistics - Initial				Model	Measured	Model	Measured
Run	Zone	Layer	Top	Bottom	Kx (ft/d)	Kz (ft/d)	Kx (ft/d)	Kz (ft/d)	MW-559M1	MW-556M1	Scaled RMS (%)	RSS (sq. ft)	Min. Res (ft)	Max Res (ft)	Gradient (ft/ft)		Gradient (ft)			Scaled RMS (%)	RSS (sq. ft)	Min. Res (ft)	Max Res (ft)	Gradient (ft/ft)		Gradient (ft)	
	166	6	-40	-60	180	36	125	25	MW-559M2	5	MULTIPLY DRAIN CONDUCTANCE X 10 from base run																
	163	5	-20	-40	150	25	100	20			MULTIPLY GHB CONDUCTANCE X 10 from base run																
	163	4	0	-20	150	25	100	20																			
	165	3	20	0	175	25	25	8																			
	165	2	40	20	175	25	25	8	PMHP-3D & 2	25 - 30																	
12	154	8	-80	-100	100	3.33	75	2.5	See Above	50	8.1	2040	-7.81	-0.81	5.00E-03	5.83E-03	6.43E-03	9.86E-03		2.7	220	-4.07	3.65	4.66E-03	5.83E-03	4.46E-03	1.00E-02
	160	7	-60	-80	125	4.167	75	2.5	MW-554M1	60																	
	166	6	-40	-60	180	36	125	25	MW-559M2	5	MULTIPLY DRAIN CONDUCTANCE X 10 from base run																
	163	5	-20	-40	150	25	100	20			MULTIPLY GHB CONDUCTANCE X 10 from base run																
	163	4	0	-20	150	25	100	20																			
	165	3	20	0	175	25	50	12.5																			
	165	2	40	20	175	25	50	12.5	PMHP-3D & 2	25 - 30																	
13	154	8	-80	-100	100	3.33	75	2.5	See Above	50	10.3	3340	-9.16	-1.92	4.38E-03	5.83E-03	6.43E-03	9.86E-03		2.7	220	-4.07	3.65	4.66E-03	5.83E-03	4.46E-03	1.00E-02
	160	7	-60	-80	125	4.167	75	2.5	MW-554M1	60																	
	166	6	-40	-60	180	36	125	25	MW-559M2	5	Divide DRAIN CONDUCTANCE X 5 from prior run to increase gradient																
	163	5	-20	-40	150	25	100	20			Divide GHB CONDUCTANCE X 5 from prior run to increase gradient																
	163	4	0	-20	150	25	100	20																			
	165	3	20	0	175	25	50	12.5																			
	165	2	40	20	175	25	50	12.5	PMHP-3D & 2	25 - 30																	
14	154	8	-80	-100	100	3.33	75	2.5	See Above	50	12.2	4660	-10.35	-2.36	4.59E-03	5.83E-03	5.71E-03	9.86E-03		2.7	220	-4.07	3.65	4.66E-03	5.83E-03	4.46E-03	1.00E-02
	160	7	-60	-80	125	4.167	75	2.5	MW-554M1	60																	
	166	6	-40	-60	180	36	125	25	MW-559M2	5	Divide DRAIN CONDUCTANCE X 2 from prior run to increase gradient																
	163	5	-20	-40	150	25	100	20			Divide GHB CONDUCTANCE X2 from prior run to increase gradient																
	163	4	0	-20	150	25	100	20																			
	165	3	20	0	175	25	50	12.5																			
	165	2	40	20	175	25	50	12.5	PMHP-3D & 2	25 - 30																	
15	154	8	-80	-100	100	3.33	75	2.5	See Above	50	11.2	3890	-9.39	-2.25	4.83E-03	5.83E-03	5.83E-03	9.86E-03		2.7	220	-4.07	3.65	4.66E-03	5.83E-03	4.46E-03	1.00E-02
	160	7	-60	-80	125	4.167	75	2.5	MW-554M1	60																	
	166	6	-40	-60	180	36	125	25	MW-559M2	5																	
	163	5	-20	-40	150	25	100	20																			
	163	4	0	-20	150	25	100	20																			
	165	3	20	0	175	25	75	15																			
	165	2	40	20	175	25	75	15	PMHP-3D & 2	25 - 30																	
16	Base Simulation x 0.9 HSU Zone 2										2.6	213	-3.54	4.15	4.62E-03	5.83E-03	4.44E-03	9.86E-03		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17	Base Simulation x 0.95 HSU Zone 2										2.6	210	-3.2	4.64	4.67E-03	5.83E-03	4.35E-03	9.86E-03		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18	Base Simulation x 0.98 HSU Zone 2										2.6	214	-3.95	3.75	4.67E-03	5.83E-03	4.53E-03	9.86E-03		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19	Base Simulation x 0.99 HSU Zone 2										2.6	217	-4.01	3.7	4.62E-03	5.83E-03	4.53E-03	9.86E-03		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ft = feet
ft/d = Feet per day
ft/ft = feet per foot
RMS = Root Mean Square
RSS = Residual Sum of Squares

Table 6-2
Regional Model Calibration Statistics - November 5-6, 2012 Synoptic Gauging Round

Demo 1 Technical Memorandum

Location	Easting (MA SP 27) (ft)	Northing (MA SP 27) (ft)	Layer	Measured Head (ft)	Simulated Head (ft)	Residuals (ft)
537-0107	868014.86	256486.95	1	71.58	71.46	0.12
90mw0063	867495.27	252977.84	2	70.45	70.46	-0.01
BHW5030020	849791.75	252990.06	2	48.33	48.82	-0.49
D1-EW-3	849325.01	253287.98	6	44.14	46.19	-2.05
EW-275	853935.07	252846.26	3	56.78	61.38	-4.60
Flax_Pond	846976.21	252335.62	2	35.18	36.11	-0.93
Lily_Pond	846877.19	253264.89	2	36.16	35.48	0.68
MW-02-15M1	848584.11	257070.40	6	38.82	41.10	-2.28
MW-02-15M2	848584.59	257070.80	4	38.76	41.09	-2.33
MW-02-15M3	848585.00	257071.00	3	38.72	41.09	-2.37
MW-114M1	857818.91	253650.40	5	66.42	67.69	-1.27
MW-114M2	857818.90	253648.39	2	66.42	67.69	-1.27
mw-126s	865827.80	258530.09	1	71.41	71.21	0.20
MW-129M1	857861.08	253462.49	4	66.42	67.69	-1.27
MW-129M2	857861.11	253460.49	3	66.41	67.69	-1.28
MW-129M3	857862.10	253461.47	2	66.41	67.69	-1.28
MW-139M1	857107.30	253555.19	6	65.82	67.11	-1.29
MW-139M2	857107.31	253556.21	4	65.82	67.11	-1.29
MW-139M3	857108.32	253554.20	2	65.82	67.12	-1.30
mw-145s	867392.41	254518.60	1	70.86	71.11	-0.25
MW-162M1	858243.00	253405.69	6	66.55	67.95	-1.40
MW-162M2	858242.70	253405.98	3	66.52	67.95	-1.43
MW-162M3	858243.01	253405.40	1	66.54	67.96	-1.42
MW-165M1	856752.29	253351.39	6	65.55	66.68	-1.13
MW-165M2	856752.02	253351.67	3	65.54	66.70	-1.16
MW-165M3	856752.71	253351.40	1	65.55	66.71	-1.16
MW-172M1	856749.71	253071.39	7	65.39	66.61	-1.22
MW-172M2	856749.40	253071.70	6	65.4	66.62	-1.22
MW-172M3	856749.11	253071.40	3	65.42	66.64	-1.22
MW-173M1	853897.79	253174.68	6	61.06	61.17	-0.11
MW-173M2	853897.50	253174.37	5	61.26	61.22	0.04
MW-173M3	853897.20	253174.70	4	61.26	61.27	-0.01
MW-175M1	853874.00	253418.79	8	61.03	61.07	-0.04
MW-175M2	853873.71	253418.49	4	61.43	61.19	0.24
MW-175M3	853873.41	253418.78	3	61.41	61.20	0.21
MW-186M1	853896.01	253587.29	5	61.58	61.19	0.39
MW-186M2	853896.38	253588.08	4	61.61	61.24	0.37
MW-210M1	856000.88	253222.29	6	64.81	65.53	-0.72
MW-210M2	856001.30	253222.69	3	64.78	65.58	-0.80
MW-210M3	856001.81	253223.11	2	64.78	65.58	-0.80
MW-211M1	853901.81	252822.48	4	59.91	61.29	-1.38
MW-211M2	853902.19	252822.88	2	60.13	61.30	-1.17
MW-211M3	853902.61	252823.29	1	60.85	61.31	-0.46
MW-214M1	856619.91	252832.38	6	65.39	66.40	-1.01
MW-214M2	856620.38	252832.79	5	65.42	66.41	-0.99
MW-214M3	856620.80	252833.20	3	65.43	66.43	-1.00
MW-221M1	853733.21	252122.58	5	60.57	60.81	-0.24
MW-221M2	853733.51	252122.30	3	60.6	60.87	-0.27
MW-221M3	853733.19	252121.99	1	60.61	60.88	-0.27
MW-225M1	852647.51	252707.20	5	58.46	57.80	0.66
MW-225M2	852647.79	252707.80	3	57.68	57.87	-0.19

Table 6-2
Regional Model Calibration Statistics - November 5-6, 2012 Synoptic Gauging Round

Demo 1 Technical Memorandum

Location	Easting (MA SP 27) (ft)	Northing (MA SP 27) (ft)	Layer	Measured Head (ft)	Simulated Head (ft)	Residuals (ft)
MW-225M3	852648.10	252707.19	2	57.6	57.89	-0.29
MW-231M1	852707.68	252359.89	6	58.92	58.01	0.91
MW-231M2	852708.00	252359.31	4	58	58.04	-0.04
MW-231M3	852707.39	252359.88	1	57.92	58.09	-0.17
MW-240M1	852526.39	253013.08	6	57.58	57.44	0.14
MW-240M2	852526.40	253013.68	2	57.06	57.52	-0.46
MW-240M3	852526.09	253013.37	1	57.06	57.53	-0.47
MW-248M1	851296.80	252386.31	7	53.33	53.96	-0.63
MW-248M2	851296.82	252386.89	5	53.55	53.99	-0.44
MW-248M3	851296.59	252386.59	3	53.58	54.03	-0.45
MW-252M1	851420.96	252001.59	4	54.21	54.44	-0.23
MW-252M2	851421.01	251999.95	3	54.22	54.45	-0.23
MW-252M3	851421.39	252001.60	1	54.24	54.47	-0.23
MW-255M1	856919.41	254230.66	6	66.17	67.04	-0.87
MW-255M2	856919.71	254230.43	4	66.16	67.05	-0.89
MW-255M3	856919.29	254230.26	2	66.15	67.06	-0.91
MW-258M1	851147.16	252783.15	5	53.05	53.44	-0.39
MW-258M2	851147.21	252781.51	3	53.1	53.48	-0.38
MW-258M3	851147.59	252783.16	3	53.07	53.48	-0.41
MW-273	853544.42	251716.44	4	60.35	60.36	-0.01
MW-32D	856913.33	254006.68	5	66.06	67.00	-0.94
MW-32M	856913.30	254007.69	4	66.07	67.00	-0.93
MW-32S	856912.19	254008.22	3	66.04	67.01	-0.97
MW-33D	856771.90	253851.38	5	65.8	66.81	-1.01
MW-33M	856771.90	253852.40	4	65.8	66.82	-1.02
MW-33S	856771.90	253853.39	3	65.79	66.83	-1.04
MW-341M1	853911.20	252599.38	7	59.95	61.20	-1.25
MW-341M2	853911.26	252597.42	6	60.86	61.21	-0.35
MW-341M3	853912.21	252598.43	3	61.69	61.32	0.37
MW-341M4	853910.24	252598.37	2	61.03	61.32	-0.29
MW-34M1	857746.99	253831.68	4	66.38	67.67	-1.29
MW-34M2	857750.31	253831.68	3	66.36	67.67	-1.31
MW-34M3	857747.00	253834.91	2	66.36	67.67	-1.31
MW-352M1	849793.21	252584.84	6	48.49	49.02	-0.53
MW-352M2	849793.27	252582.87	4	48.47	49.40	-0.93
MW-352M3	849785.24	252582.10	3	49.42	49.60	-0.18
MW-353M1	849707.74	252835.58	6	47.9	48.41	-0.51
MW-353M2	849707.81	252833.62	4	48.04	48.62	-0.58
MW-353M3	849709.00	252835.00	3	48.05	48.71	-0.66
MW-35M1	857065.79	253742.68	4	65.85	67.11	-1.26
MW-35M2	857069.11	253742.68	1	65.89	67.12	-1.23
MW-35S	857065.79	253745.99	1	65.94	67.12	-1.18
MW-36M2	857808.29	253907.89	3	66.54	67.72	-1.18
MW-36S	857805.02	253911.18	1	66.54	67.72	-1.18
MW-432	857317.84	253572.97	3	65.3	67.30	-2.00
MW-433	855407.77	253177.25	4	63.16	64.55	-1.39
MW-46D	856470.01	255850.18	7	66.12	66.27	-0.15
MW-46M1	856473.30	255850.17	6	65.6	66.28	-0.68
MW-46M2	856470.01	255853.49	3	65.59	66.32	-0.73
MW-46M3	856466.79	255850.18	2	65.61	66.32	-0.71
MW-47M2	856589.11	255144.80	2	65.84	66.60	-0.76

Table 6-2
Regional Model Calibration Statistics - November 5-6, 2012 Synoptic Gauging Round

Demo 1 Technical Memorandum

Location	Easting (MA SP 27) (ft)	Northing (MA SP 27) (ft)	Layer	Measured Head (ft)	Simulated Head (ft)	Residuals (ft)
MW-47M3	856585.79	255141.59	1	65.84	66.60	-0.76
MW-47S	856589.10	255138.31	1	65.86	66.60	-0.74
MW-531M1	851150.60	252771.10	6	52.63	53.43	-0.80
MW-532M1	851044.14	252960.42	7	52.27	53.02	-0.75
MW-532M2	851043.98	252960.14	5	52.24	53.06	-0.82
MW-533M1	851269.34	252631.26	6	53.24	53.84	-0.60
MW-542M1	851049.67	253177.34	5	52.28	53.01	-0.73
MW-543M1	849201.25	252974.84	7	45.42	45.77	-0.35
MW-543M2	849201.89	252975.52	5	45.46	45.91	-0.45
MW-544M1	849258.35	253142.39	8	45.48	45.89	-0.41
MW-544M2	849263.22	253139.64	6	45.5	45.99	-0.49
MW-545M1	849317.27	253279.85	9	45.51	46.08	-0.57
MW-545M2	849322.40	253278.45	8	45.62	46.12	-0.50
MW-545M3	849317.92	253280.52	6	45.5	46.16	-0.66
MW-545M4	849323.04	253279.13	4	45.61	46.32	-0.71
MW-546M1	849379.63	253443.08	8	45.64	46.28	-0.64
MW-546M2	849380.26	253443.76	6	45.72	46.34	-0.62
MW-554M1	848704.57	253503.99	7	43.11	43.16	-0.05
MW-554M2	848704.44	253503.75	6	42.96	43.18	-0.22
MW-556M1	848237.92	253566.93	9	39.71	41.18	-1.47
MW-556M2	848238.15	253566.94	7	39.75	41.19	-1.44
MW-558M1	847768.01	253479.19	8	37.58	39.27	-1.69
MW-558M2	847767.78	253479.17	6	37.2	39.31	-2.11
MW-559M1	847697.75	253438.73	8	34.88	38.98	-4.10
MW-559M2	847697.82	253438.66	6	35.05	39.01	-3.96
MW-64M2	859709.31	251953.88	1	67.34	68.41	-1.07
MW-73S	860190.10	254252.19	1	68.23	69.37	-1.14
MW-74M1	858836.30	254303.17	4	67.27	68.53	-1.26
MW-74M2	858836.30	254302.20	2	67.3	68.54	-1.24
MW-74M3	858837.31	254302.19	1	67.28	68.54	-1.26
MW-75M1	858865.99	254151.88	3	67.28	68.53	-1.25
MW-75M2	858866.91	254152.90	2	67.32	68.53	-1.21
MW-75S	858866.90	254150.89	1	67.25	68.53	-1.28
MW-76M1	858929.00	253855.01	3	67.25	68.52	-1.27
MW-76M2	858929.99	253855.99	2	67.24	68.52	-1.28
MW-76S	858930.01	253853.98	1	67.26	68.52	-1.26
MW-77M1	858890.98	254005.89	5	67.24	68.52	-1.28
MW-77M2	858891.91	254006.87	2	67.28	68.53	-1.25
MW-77S	858891.90	254004.90	1	67.21	68.53	-1.32
MW-78M1	858983.91	253722.50	3	67.26	68.53	-1.27
MW-78M2	858983.91	253720.50	2	67.24	68.53	-1.29
MW-78M3	858984.89	253721.48	1	67.26	68.54	-1.28
MW-79M1	860803.01	254409.00	4	68.81	69.72	-0.91
MW-79M2	860801.55	254410.44	2	68.84	69.72	-0.88
MW-79S	860801.56	254410.47	1	68.97	69.72	-0.75
MW-84D	850058.99	255362.98	9	47.71	48.11	-0.40
MW-84M1	850062.21	255362.98	6	47.64	48.20	-0.56
MW-84M2	850059.00	255366.21	5	47.84	48.22	-0.38
MW-84M3	850055.71	255362.99	3	47.79	48.25	-0.46
MW-84S	850058.99	255359.70	2	47.49	48.29	-0.80
North_Pond_Staff_Gauge	849545.73	252447.84	1	49.76	48.87	0.89

Table 6-2
Regional Model Calibration Statistics - November 5-6, 2012 Synoptic Gauging Round

Demo 1 Technical Memorandum

Location	Easting (MA SP 27) (ft)	Northing (MA SP 27) (ft)	Layer	Measured Head (ft)	Simulated Head (ft)	Residuals (ft)
PMHP-1	846164.00	254251.00	2	28.337	31.88	-3.54
PMHP-2	845712.00	253844.00	2	27.42	29.98	-2.56
PMHP-3D	846199.00	253523.00	2	28.49	32.29	-3.80
PZD1001	849625.91	253611.77	1	47.1	48.35	-1.25
South_Pond_Staff_Gauge	848930.02	251051.30	1	48.48	48.44	0.04
XX9514	849489.47	253132.20	6	46.36	47.12	-0.76

Residual Mean	-0.88
Absoluate Residual Mean	0.95
Residual Std. Deviation	0.83
Sum of Squares	233.33
RMS Error	1.21
Min. Residual	-4.60
Max. Residual	0.91
Number of Observations	159.00
Range in Observations	44.16
Scaled Residual Std. Deviation	0.02
Scaled Absolute Residual Mean	0.02
Scaled RMS Error	2.74%

Legend

ft = feet
RMS = Root Mean Square
RSS = Residual Sum of Squares
MA SP 27 = Massachusetts State Plane Coordinate North American Datum 1927

Table 6-3
Demo 1 Subregional Model Calibration Statistics - November 5-6, 2012 Synoptic Gauging Round

Demo 1 Technical Memorandum

Location	Easting (MA SP 27) (ft)	Northing (MA SP 27) (ft)	Layer	Measured Head (ft)	Simulated Head (ft)	Residuals (ft)
BHW5030020	849791.75	252990.06	3	48.33	49.11	-0.78
D1-EW-3	849325.01	253287.98	12	44.14	46.06	-1.92
EW-275	853935.07	252846.26	5	56.78	60.14	-3.36
MW-02-15M1	848584.11	257070.40	11	38.82	40.77	-1.95
MW-02-15M2	848584.59	257070.80	8	38.76	40.76	-2.00
MW-02-15M3	848584.90	257071.21	6	38.72	40.77	-2.05
MW-114M1	857818.91	253650.40	10	66.42	67.26	-0.84
MW-114M2	857818.90	253648.39	4	66.42	67.26	-0.84
MW-129M1	857861.08	253462.49	7	66.42	67.25	-0.83
MW-129M2	857861.11	253460.49	5	66.41	67.25	-0.84
MW-129M3	857862.10	253461.47	3	66.41	67.25	-0.84
MW-139M1	857107.30	253555.19	12	65.82	66.77	-0.95
MW-139M2	857107.31	253556.21	8	65.82	66.75	-0.93
MW-139M3	857108.32	253554.20	4	65.82	66.75	-0.93
MW-162M1	858243.00	253405.69	12	66.55	67.41	-0.86
MW-162M2	858242.70	253405.98	6	66.52	67.39	-0.87
MW-162M3	858243.01	253405.40	2	66.54	67.39	-0.85
MW-165M1	856752.29	253351.39	11	65.55	66.24	-0.69
MW-165M2	856752.02	253351.67	5	65.54	66.24	-0.70
MW-165M3	856752.71	253351.40	2	65.55	66.29	-0.74
MW-172M1	856749.71	253071.39	14	65.39	66.53	-1.14
MW-172M2	856749.40	253071.70	11	65.40	66.56	-1.16
MW-172M3	856749.11	253071.40	5	65.42	66.63	-1.21
MW-173M1	853897.79	253174.68	12	61.06	60.96	0.10
MW-173M2	853897.50	253174.37	9	61.26	60.99	0.27
MW-173M3	853897.20	253174.70	7	61.26	61.00	0.26
MW-175M1	853874.00	253418.79	15	61.03	60.93	0.10
MW-175M2	853873.71	253418.49	8	61.43	61.10	0.33
MW-175M3	853873.41	253418.78	5	61.41	61.11	0.30
MW-186M1	853896.01	253587.29	9	61.58	61.18	0.40
MW-186M2	853896.38	253588.08	7	61.61	61.25	0.36
MW-210M1	856000.88	253222.29	11	64.81	65.36	-0.55
MW-210M2	856001.30	253222.69	6	64.78	65.39	-0.61
MW-210M3	856001.81	253223.11	3	64.78	65.40	-0.62
MW-211M1	853901.81	252822.48	7	59.91	59.94	-0.03
MW-211M2	853907.52	252828.81	4	60.13	60.09	0.04
MW-211M3	853902.61	252823.29	2	60.85	60.66	0.19
MW-214M1	856619.91	252832.38	12	65.39	66.47	-1.08
MW-214M2	856620.38	252832.79	9	65.42	66.60	-1.18
MW-214M3	856620.80	252833.20	6	65.43	66.82	-1.39
MW-221M1	853733.21	252122.58	9	60.57	60.80	-0.23
MW-221M2	853733.51	252122.30	5	60.60	60.84	-0.24
MW-221M3	853733.19	252121.99	2	60.61	60.85	-0.24
MW-225M1	852647.51	252707.20	9	58.46	57.58	0.88
MW-225M2	852647.79	252707.80	6	57.68	57.84	-0.16
MW-225M3	852648.10	252707.19	4	57.60	57.86	-0.26
MW-231M1	852707.68	252359.89	12	58.92	57.83	1.09
MW-231M2	852708.00	252359.31	7	58.00	58.05	-0.05
MW-231M3	852707.39	252359.88	2	57.92	58.09	-0.17

Table 6-3
Demo 1 Subregional Model Calibration Statistics - November 5-6, 2012 Synoptic Gauging Round

Demo 1 Technical Memorandum

Location	Easting (MA SP 27) (ft)	Northing (MA SP 27) (ft)	Layer	Measured Head (ft)	Simulated Head (ft)	Residuals (ft)
MW-240M1	852526.39	253013.08	12	57.58	57.28	0.30
MW-240M2	852526.40	253013.68	4	57.06	57.47	-0.41
MW-240M3	852526.09	253013.37	2	57.06	57.48	-0.42
MW-248M1	851296.80	252386.31	13	53.33	53.95	-0.62
MW-248M2	851296.82	252386.89	9	53.55	53.98	-0.43
MW-248M3	851296.59	252386.59	5	53.58	54.02	-0.44
MW-252M1	851420.96	252001.59	8	54.21	54.41	-0.20
MW-252M2	851421.01	251999.95	5	54.22	54.44	-0.22
MW-252M3	851421.39	252001.60	2	54.24	54.45	-0.21
MW-255M1	856919.41	254230.66	11	66.17	67.28	-1.11
MW-255M2	856919.71	254230.43	7	66.16	67.15	-0.99
MW-255M3	856919.29	254230.26	4	66.15	67.12	-0.97
MW-258M1	851147.16	252783.15	9	53.05	53.44	-0.39
MW-258M2	851147.21	252781.51	6	53.10	53.48	-0.38
MW-258M3	851147.59	252783.16	5	53.07	53.48	-0.41
MW-273	853544.42	251716.44	7	60.35	60.85	-0.50
MW-32D	856913.33	254006.68	9	66.06	67.01	-0.95
MW-32M	856913.30	254007.69	7	66.07	66.98	-0.91
MW-32S	856912.19	254008.22	5	66.04	66.95	-0.91
MW-33D	856771.90	253851.38	9	65.80	66.74	-0.94
MW-33M	856771.90	253852.40	7	65.80	66.70	-0.90
MW-33S	856771.90	253853.39	5	65.79	66.68	-0.89
MW-341M1	853911.20	252599.38	14	59.95	60.99	-1.04
MW-341M2	853911.26	252597.42	11	60.86	60.99	-0.13
MW-341M3	853912.21	252598.43	6	61.69	60.94	0.75
MW-341M4	853910.24	252598.37	3	61.03	60.95	0.08
MW-34M1	857746.99	253831.68	8	66.38	67.29	-0.91
MW-34M2	857750.31	253831.68	6	66.36	67.29	-0.93
MW-34M3	857747.00	253834.91	4	66.36	67.29	-0.93
MW-352M1	849793.21	252584.84	12	48.49	49.25	-0.76
MW-352M2	849793.27	252582.87	7	48.47	49.60	-1.13
MW-352M3	849794.23	252583.88	5	49.42	49.69	-0.27
MW-353M1	849707.74	252835.58	12	47.90	48.69	-0.79
MW-353M2	849707.81	252833.62	7	48.04	48.97	-0.93
MW-353M3	849708.76	252834.63	5	48.05	49.03	-0.98
MW-35M1	857065.79	253742.68	7	65.85	66.84	-0.99
MW-35M2	857069.11	253742.68	2	65.89	66.84	-0.95
MW-35S	857065.79	253745.99	1	65.94	66.84	-0.90
MW-36M2	857808.29	253907.89	6	66.54	67.35	-0.81
MW-36S	857805.02	253911.18	1	66.54	67.35	-0.81
MW-432	857317.84	253572.97	6	65.30	66.65	-1.35
MW-433	855407.77	253177.25	8	63.16	63.45	-0.29
MW-46D	856470.01	255850.18	14	66.12	66.15	-0.03
MW-46M1	856473.30	255850.17	11	65.60	66.16	-0.56
MW-46M2	856470.01	255853.49	6	65.59	66.19	-0.60
MW-46M3	856466.79	255850.18	3	65.61	66.20	-0.59
MW-47M2	856589.11	255144.80	4	65.84	66.56	-0.72
MW-47M3	856585.79	255141.59	2	65.84	66.56	-0.72
MW-47S	856589.10	255138.31	1	65.86	66.57	-0.71

Table 6-3
Demo 1 Subregional Model Calibration Statistics - November 5-6, 2012 Synoptic Gauging Round

Demo 1 Technical Memorandum

Location	Easting (MA SP 27) (ft)	Northing (MA SP 27) (ft)	Layer	Measured Head (ft)	Simulated Head (ft)	Residuals (ft)
MW-531M1	851150.60	252771.10	11	52.63	53.44	-0.81
MW-532M1	851044.14	252960.42	13	52.27	53.04	-0.77
MW-532M2	851043.98	252960.14	10	52.24	53.06	-0.82
MW-533M1	851269.34	252631.26	12	53.24	53.82	-0.58
MW-542M1	851049.67	253177.34	10	52.28	53.01	-0.73
MW-543M1	849201.25	252974.84	14	45.42	46.06	-0.64
MW-543M2	849201.89	252975.52	10	45.46	46.24	-0.78
MW-544M1	849258.35	253142.39	16	45.48	45.98	-0.50
MW-544M2	849263.22	253139.64	11	45.50	46.14	-0.64
MW-544M3	849259.72	253142.43	7	45.59	46.45	-0.86
MW-545M1	849317.27	253279.85	17	45.51	45.93	-0.42
MW-545M2	849322.40	253278.45	15	45.62	45.93	-0.31
MW-545M3	849317.92	253280.52	11	45.50	46.01	-0.51
MW-545M4	849328.81	253289.62	8	45.61	46.40	-0.79
MW-546M1	849379.63	253443.08	15	45.64	46.47	-0.83
MW-546M2	849380.26	253443.76	11	45.72	46.57	-0.85
MW-554M1	848704.57	253503.99	14	43.11	43.58	-0.47
MW-554M2	848704.44	253503.75	11	42.96	43.60	-0.64
MW-556M1	848237.92	253566.93	17	39.71	41.62	-1.91
MW-556M2	848238.15	253566.94	13	39.75	41.62	-1.87
MW-558M1	847768.01	253479.19	15	37.58	39.76	-2.18
MW-558M2	847767.78	253479.17	11	37.20	39.77	-2.57
MW-559M1	847697.75	253438.73	15	34.88	39.50	-4.62
MW-559M2	847697.82	253438.66	11	35.05	39.54	-4.49
MW-64M2	859709.31	251953.88	1	67.34	68.14	-0.80
MW-73S	860190.10	254252.19	2	68.23	69.08	-0.85
MW-74M1	858836.30	254303.17	8	67.27	68.19	-0.92
MW-74M2	858836.30	254302.20	3	67.30	68.20	-0.90
MW-74M3	858837.31	254302.19	1	67.28	68.20	-0.92
MW-75M1	858865.99	254151.88	6	67.28	68.18	-0.90
MW-75M2	858866.91	254152.90	3	67.32	68.18	-0.86
MW-75S	858866.90	254150.89	1	67.25	68.18	-0.93
MW-76M1	858929.00	253855.01	6	67.25	68.14	-0.89
MW-76M2	858929.99	253855.99	4	67.24	68.15	-0.91
MW-76S	858930.01	253853.98	2	67.26	68.15	-0.89
MW-77M1	858890.98	254005.89	10	67.24	68.15	-0.91
MW-77M2	858891.91	254006.87	4	67.28	68.16	-0.88
MW-77S	858891.90	254004.90	1	67.21	68.16	-0.95
MW-78M1	858983.91	253722.50	6	67.26	68.16	-0.90
MW-78M2	858983.91	253720.50	4	67.24	68.16	-0.92
MW-78M3	858984.89	253721.48	1	67.26	68.16	-0.90
MW-79M1	860803.01	254409.00	7	68.81	69.44	-0.63
MW-79M2	860801.55	254410.44	3	68.84	69.45	-0.61
MW-79S	860801.56	254410.47	1	68.97	69.45	-0.48
MW-84D	850058.99	255362.98	17	47.71	48.05	-0.34
MW-84M1	850062.21	255362.98	12	47.64	48.12	-0.48
MW-84M2	850059.00	255366.21	9	47.84	48.15	-0.31
MW-84M3	850055.71	255362.99	6	47.79	48.18	-0.39
MW-84S	850058.99	255359.70	4	47.49	48.22	-0.73

Table 6-3
Demo 1 Subregional Model Calibration Statistics - November 5-6, 2012 Synoptic Gauging Round

Demo 1 Technical Memorandum

Location	Easting (MA SP 27) (ft)	Northing (MA SP 27) (ft)	Layer	Measured Head (ft)	Simulated Head (ft)	Residuals (ft)
PZD1001	849625.91	253611.77	2	47.10	48.00	-0.90
XX9514	849519.42	253152.85	12	46.36	47.44	-1.08
PMHP-1	846163.73	254251.03	5	28.34	32.64	-4.30
PMHP-2	845712.20	253843.69	4	27.42	30.87	-3.45
PMHP-3D	846202.62	253523.48	4	28.49	33.15	-4.66
Lily_Pond	847143.24	253906.18	3	36.16	37.00	-0.84
Flax_Pond	847042.60	252852.74	3	35.18	37.03	-1.85

Residual Mean	-0.82
Absoluate Residual Mean	0.89
Residual Std. Deviation	0.87
Sum of Squares	219.84
RMS Error	1.19
Min. Residual	-4.66
Max. Residual	1.09
Number of Observations	154.00
Range in Observations	41.55
Scaled Residual Std. Deviation	0.02
Scaled Absolute Residual Mean	0.02
Scaled RMS Error	2.88%

Legend

ft = feet
RMS = Root Mean Square
RSS = Residual Sum of Squares
MA SP 27 = Massachusetts State Plane Coordinate North American Datum 1927

Table 7-1
Demo 1 Alternatives - Times of Cleanup for Perchlorate and RDX

Demo 1 Technical Memorandum

Alt #	Design Details																Present Value Costs				
	Masximum Number of Extraction Wells	Extraction Well Location	Total Extraction Rate (gpm)	Estimated Year Perchlorate Concentrations Decrease Below 15 ug/L	Estimated Year Perchlorate Concentrations Decrease Below 6 ug/L	Estimated Year Perchlorate Concentrations Decrease Below 2 ug/L	Estimated Year Perchlorate Concentrations Decrease Below 0.35 ug/L	Perchlorate Mass Captured (Pounds)	Extraction Well ND Date	Estimated Year RDX Concentrations Decrease Below 6 ug/L	Estimated Year RDX Concentrations Decrease Below 2 ug/L	Estimated Year RDX Concentrations Decrease Below 0.6 ug/L	Estimated Year RDX Concentrations Decrease Below Non-Detect	RDX Mass Captured (Pounds)	Extraction Well ND Date	Capital Cost ($M)	Monitoring Cost ($M)	O&M ($M)	Site Closeout Report ($K)	Total Present Value ($M)
1	6		**665**	2015.3	2016.3	2026.3	2059.3	6.43	2025.3	2015.3	2018.3	2022.3	2025.3	2.06	2015.3	$0.89	$1.86	$6.62	$88.00	$8.98
		D1-EW-1	150																	
		D1-EW-501	150																	
		D1-EW-502	100																	
		D1-EW-503	100																	
		D1-EW-2	100																	
		D1-EW-3	65																	
2	6		**565**	2015.3	2016.3	2026.3	2059.3	6.37	2025.3	2015.3	2018.3	2022.3	2025.3	2.06	2015.3	$0.89	$1.86	$6.02	$88.00	$8.41
		D1-EW-1	150																	
		D1-EW-501	150																	
		D1-EW-502	100																	
		D1-EW-503	100/**0**																	
		D1-EW-2	100																	
		D1-EW-3	65																	
3	7		**765**	2015.3	2016.3	2021.3	2055.3	7.99	2025.3	2015.3	2018.3	2022.3	2025.3	2.24	2015.3	$1.98	$1.46	$4.96	$88.00	$8.25
		D1-EW-1	150																	
		D1-EW-501	150																	
		D1-EW-502	100																	
		D1-EW-503	100																	
		D1-EW-2	100																	
		D1-EW-3	65																	
		Off-Base # 1	100																	
4	8		**865**	2015.3	2016.3	2021.3	2046.3	10.55	2025.3	2015.3	2018.3	2022.3	2025.3	2.42	2015.3	$3.31	$1.49	$5.46	$88.00	$10.09
		D1-EW-1	150																	
		D1-EW-501	150																	
		D1-EW-502	100																	
		D1-EW-503	100																	
		D1-EW-2	100																	
		D1-EW-3	65																	
		Off-Base # 1	100																	
		Off-Base # 2	100																	
4A	7		**765**	2015.3	2016.3	2025.3	2059.3	10.05	2028.3	2015.3	2018.3	2022.3	2025.3	2.28	2015.3	$1.76	$1.81	$7.17	$88.00	$10.42
		D1-EW-1	150																	
		D1-EW-501	150																	
		D1-EW-502	100																	
		D1-EW-503	100																	
		D1-EW-2	100																	
		D1-EW-3	65																	
		Off-Base # 1	100																	

Alt #	Design Details															Present Value Costs				
	Masximum Number of Extraction Wells	Extraction Well Location	Total Extraction Rate (gpm)	Estimated Year Perchlorate Concentrations Decrease Below 15 ug/L	Estimated Year Perchlorate Concentrations Decrease Below 6 ug/L	Estimated Year Perchlorate Concentrations Decrease Below 2 ug/L	Estimated Year Perchlorate Concentrations Decrease Below 0.35 ug/L	Perchlorate Mass Captured (Pounds)	Extraction Well ND Date	Estimated Year RDX Concentrations Decrease Below 6 ug/L	Estimated Year RDX Concentrations Decrease Below 2 ug/L	Estimated Year RDX Concentrations Decrease Below 0.6 ug/L	Estimated Year RDX Concentrations Decrease Below Non-Detect	RDX Mass Captured (Pounds)	Extraction Well ND Date	Capital Cost ($M)	Monitoring Cost ($M)	O&M ($M)	Site Closeout Report ($K)	Total Present Value ($M)
5	9		**945**	2015.3	2016.3	2021.3	2045.3	11.55	2024.3	2015.3	2018.3	2022.3	2025.30	2.52	2016.3	$4.82	$1.52	$5.95	$88.00	$12.10
		D1-EW-1	150																	
		D1-EW-501	150																	
		D1-EW-502	100																	
		D1-EW-503	100																	
		D1-EW-2	100																	
		D1-EW-3	65																	
		On-Base # 1	80																	
		Off-Base # 1	100																	
		Off-Base # 2	100																	
6A	7		**640**	2015.3	2016.3	2026.3	2059.3	6.37	2025.3	2015.3	2017.3	2020.3	2021.3	2.13	2018.3	$2.23	$1.89	$6.95	$88.00	$10.65
		D1-EW-1	150																	
		D1-EW-501	150																	
		D1-EW-502	100																	
		D1-EW-503	100 / **0**																	
		D1-EW-2	100																	
		D1-EW-3	65																	
		On-Base # 2	75																	
7	17		**1595**	2015.3	2016.3	<2017.3	2032.3	11.92	2022.3	2015.3	2016.3	<2017.3	2019.30	2.57	2017.3	$12.67	$1.65	$2.87	$88.00	$17.27
10 - Year		D1-EW-1	150																	
		D1-EW-501	150																	
		D1-EW-502	100																	
		D1-EW-501	150																	
		D1-EW-502	100																	
		D1-EW-503	100 / **0**																	
		D1-EW-2	100																	
		D1-EW-3	65/**110**																	
		On-Base # 1	80																	
		On-Base # 2	80																	
		On-Base # 3	100																	
		On-Base # 4	75																	
		On-Base # 5	75																	
		On-Base # 6	75																	
		Off-Base # 1	100																	
		Off-Base # 2	100																	
		Off-Base # 3	100																	
		Off-Base # 4	100																	
		Off-Base # 5	100																	

Notes

1. Cleanup timeframes based on contaminant transport modeling animations according to site achieving concentrations below: 2 ppb for Perchlorate; 0.6 ppb for RDX
2. Contaminant transport modeling for analysis assumes plumes transport start date of 31 March 2013.
3. Extraction well shut off year corresponds to first year when extraction well influent concentration decreases below the reporting limit of 0.2 ug/L for perchlorate and RDX.

Appendix A

Well Construction Logs

TETRA TECH EC, INC.

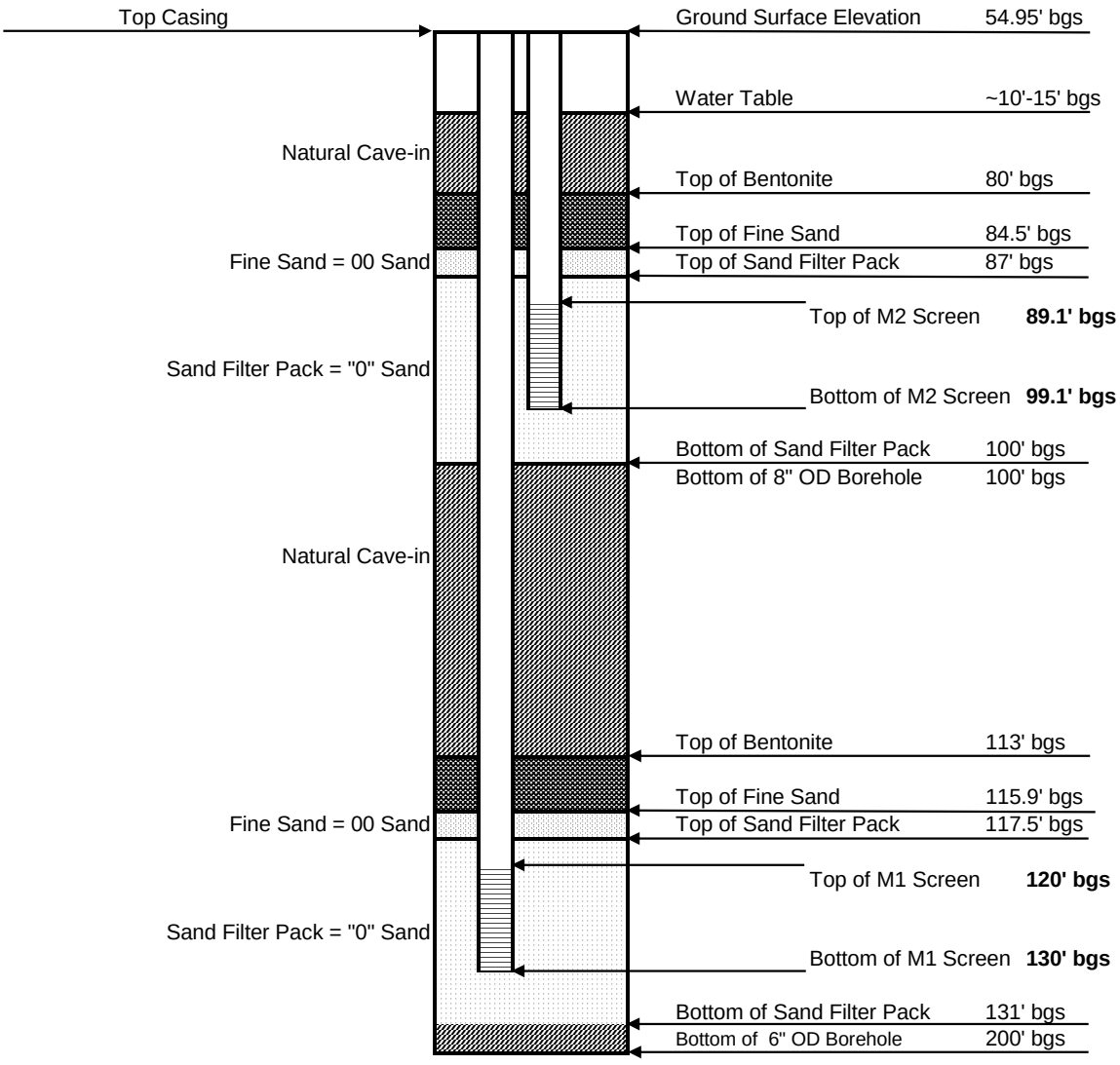
DRAFT

Tetratech Monitoring Well Construction Diagram

Project Name/Number:	**106-2880**
Loc. I.D.:	**MW-554 formerly DP-554 (2H)**
Location:	**Demo 1**
Drilling Contractor/Driller:	**DL Maher**
Geologist:	**Richard Claydon**
Drilling Method:	**Sonic**
Sampling Method:	**Pump**
Start Date:	**4/19/2011**
Complete Date:	**4/19/2011**
Total Drilled Depth:	**200'**
M1 Screen Interval:	**120' - 130'**
M2 Screen Interval:	**89.1' - 99.1'**

KEY

- **Schedule 80 PVC (2.5' OD)**
- **Natural Cave-In**
- **Bentonite Seal**
- **00N; Sand**
- **"0" Filter Pack**
- **10 slot screen**



TETRA TECH EC, INC.

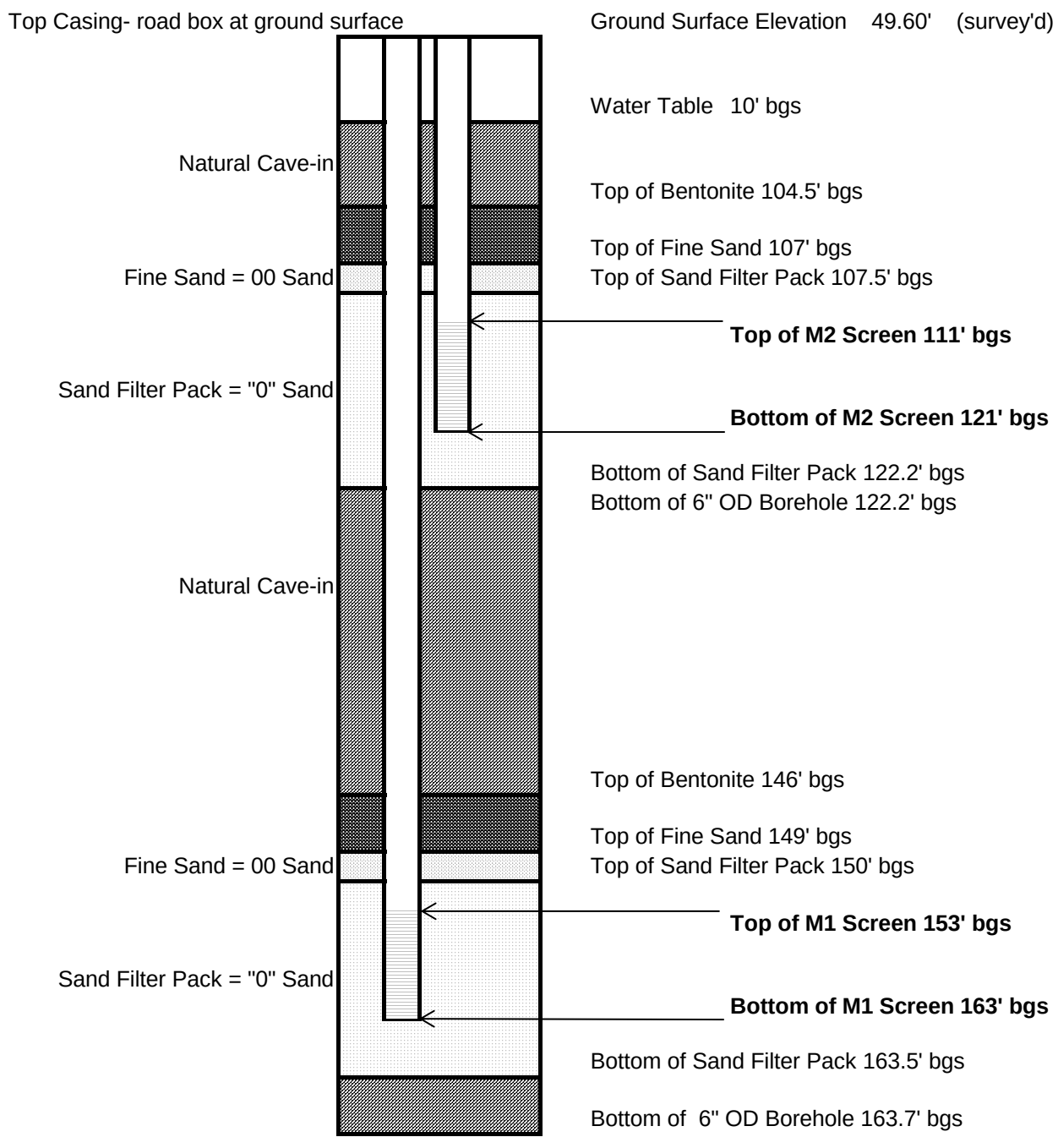
DRAFT

Tetratech Monitoring Well Construction Diagram

Project Name/Number:	**106-2880**
Loc. I.D.:	**2W boring (MW-556)**
Location:	**Demo 1: Williams/Albert St.**
Drilling Contractor/Driller:	**Major**
Geologist:	**Valerie Thayer**
Drilling Method:	**Sonic**
Sampling Method:	**N/A**
Start Date:	**11/2/2011**
Complete Date:	**11/3/2011**
Total Drilled Depth:	**163.7'**
M1 Screen Interval:	**153'-163' bgs**
M2 Screen Interval:	**111'-121' bgs**

KEY

- **Schedule 80 PVC (2.5' OD)**
- **Natural Cave-In**
- **Bentonite Seal**
- **00N; Sand**
- **"0" Filter Pack**
- **10 slot screen**



TETRA TECH EC, INC.

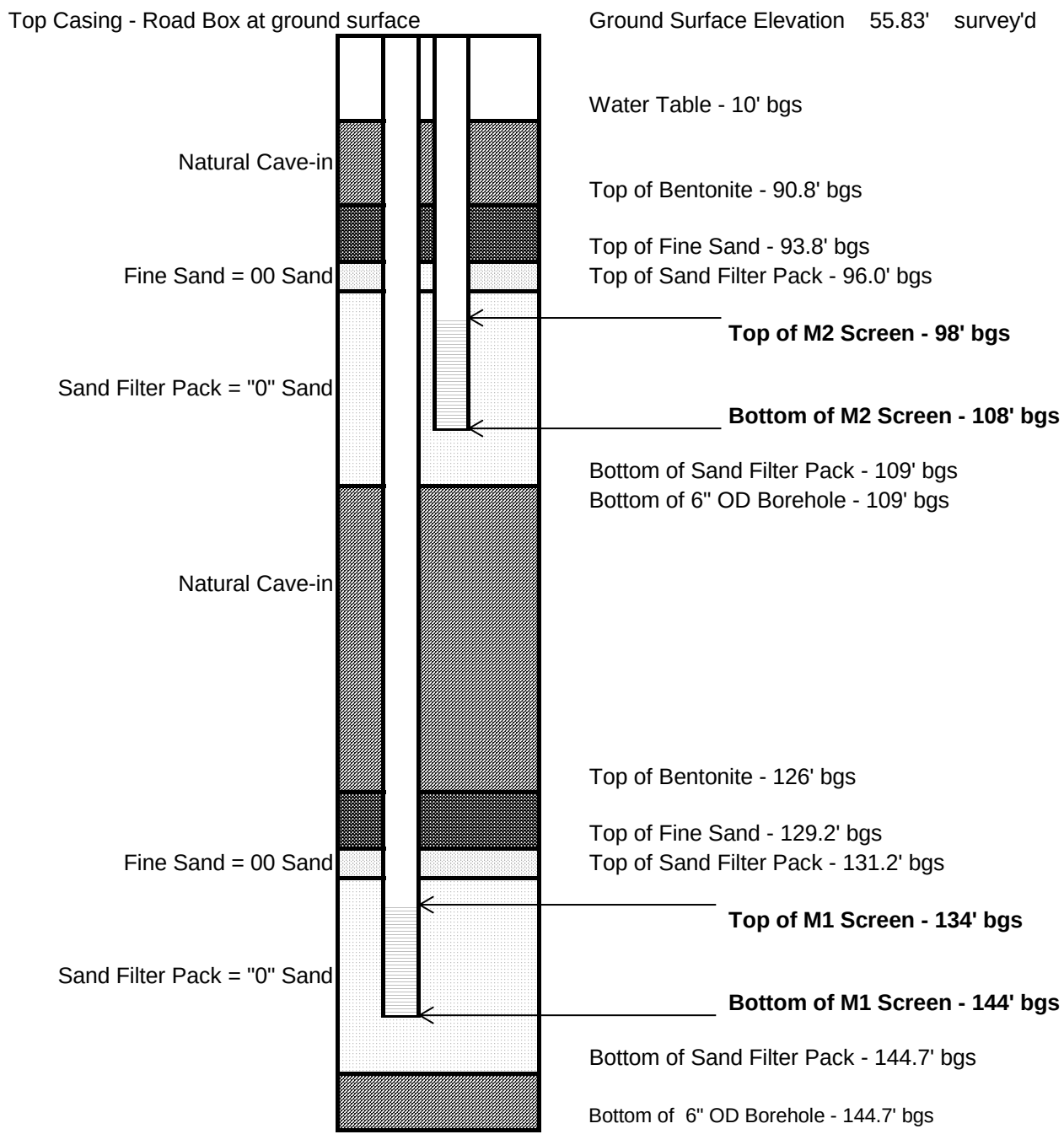
DRAFT

Tetratech Monitoring Well Construction Diagram

Project Name/Number:	**106-2880**
Loc. I.D.:	**3W boring (MW-558)**
Location:	**Demo 1 Plume-Williams St**
Drilling Contractor/Driller:	**Major**
Geologist:	**Valerie Thayer/Richard C.**
Drilling Method:	**Sonic w/ Casing**
Sampling Method:	**N/A**
Start Date:	**11/3/2011**
Complete Date:	**11/4/2011**
Total Drilled Depth:	**144.7' bgs**
M1 Screen Interval:	**134'-144' bgs**
M2 Screen Interval:	**98'- 108' bgs**

KEY

- **Schedule 80 PVC (2.5' OD)**
- **Natural Cave-In**
- **Bentonite Seal**
- **00N; Sand**
- **"0" Filter Pack**
- **10 slot screen**



TETRA TECH EC, INC.

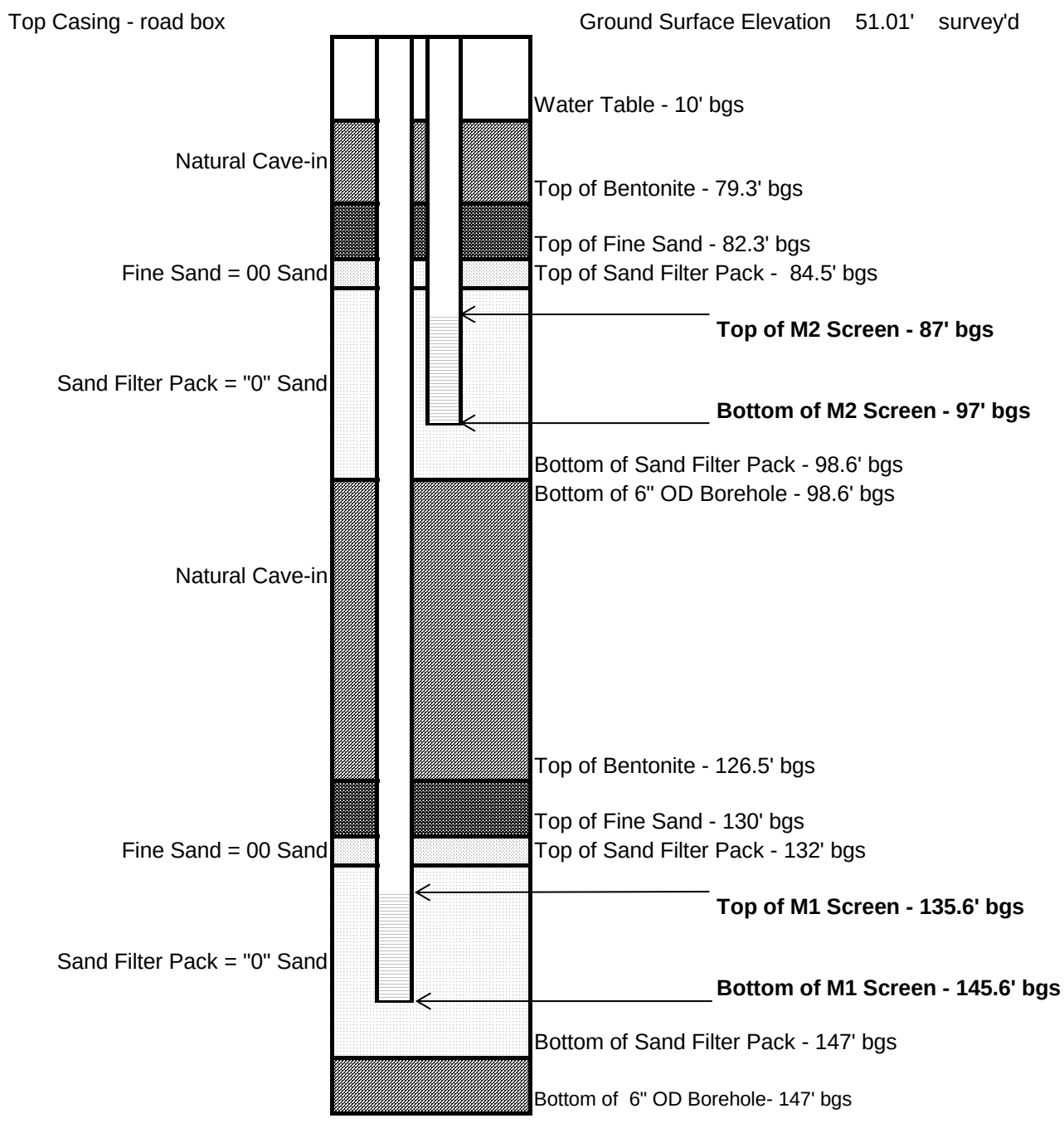
DRAFT

Tetratech Monitoring Well Construction Diagram

Project Name/Number:	**106-2880**
Loc. I.D.:	**M1 (MW- 559)**
Location:	**Demo 1**
Drilling Contractor/Driller:	**Major**
Geologist:	**Richard C and Val Thayer**
Drilling Method:	**Sonic w/ Casing**
Sampling Method:	**Not applicable**
Start Date:	**11/7/2011**
Complete Date:	**11/8/2011**
Total Drilled Depth:	**147' bgs**
M1 Screen Interval:	**87'- 97' bgs**
M2 Screen Interval:	**136' bgs - 146' bgs**

KEY

- **Schedule 80 PVC (2.5' OD)**
- **Natural Cave-In**
- **Bentonite Seal**
- **00N; Sand**
- **"0" Filter Pack**
- **10 slot screen**

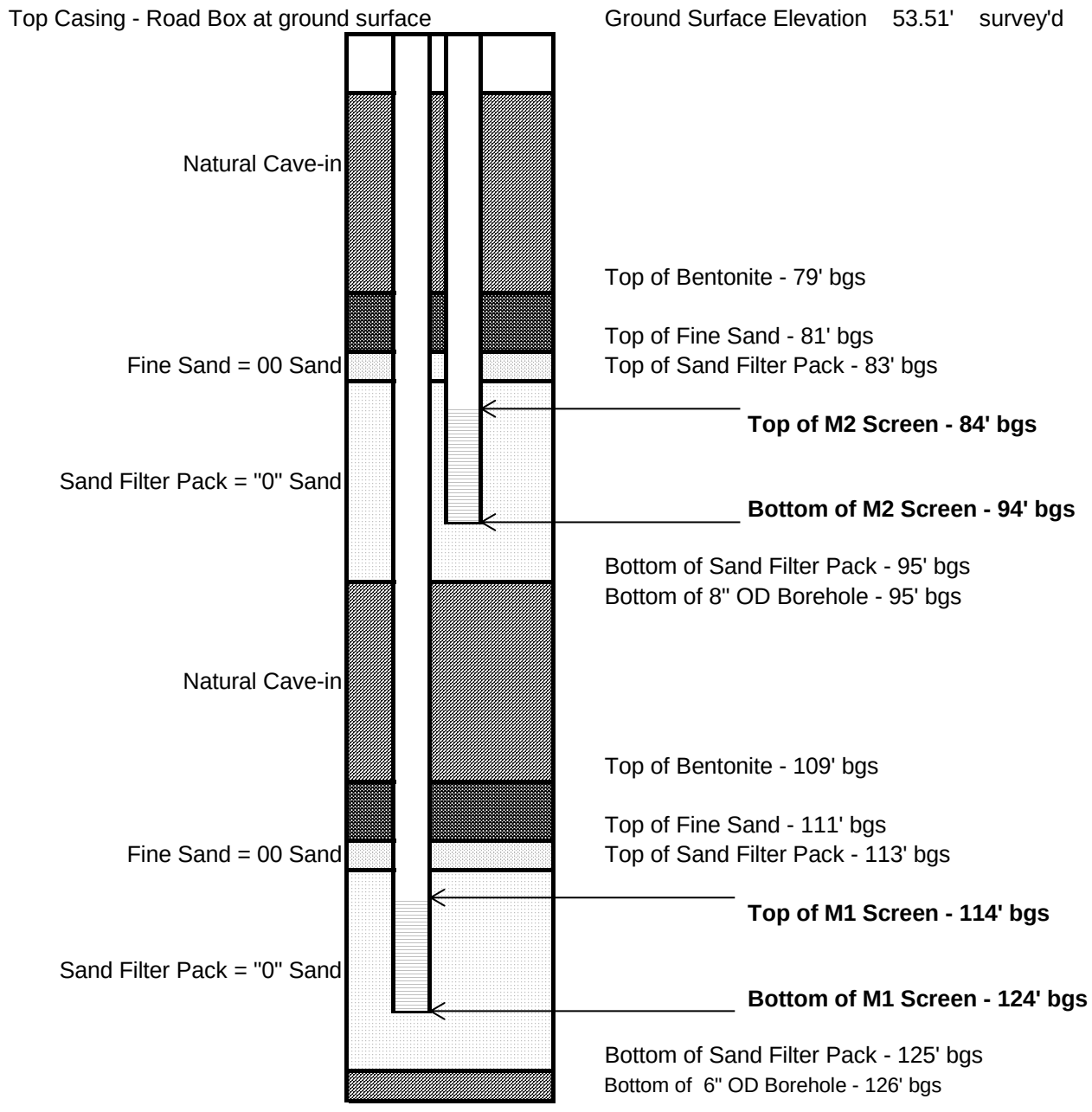


Tetratech Monitoring Well Construction Diagram

Project Name/Number:	**194-8200**		
Loc. I.D.:	**MW-569M1/M2**		
Location:	**Demo1 Location 2P**		
Drilling Contractor/Driller:	**Boart Longyear**		
Geologist:	**Paul Anderson**		
Drilling Method:	**Sonic w/ Casing**		
Sampling Method:	**N/A**		
Start Date:	**3/19/2013**		
Complete Date:	**3/19/2013**		
Total Drilled Depth:	**125'**		
M1 Screen Interval:	**114' - 124' bgs**		
M2 Screen Interval:	**84' - 94' bgs**		

KEY

- **Schedule 80 PVC (2.5' OD)**
- **Natural Cave-In**
- **Bentonite Seal**
- **00N; Sand**
- **"0" Filter Pack**
- **10 slot screen**

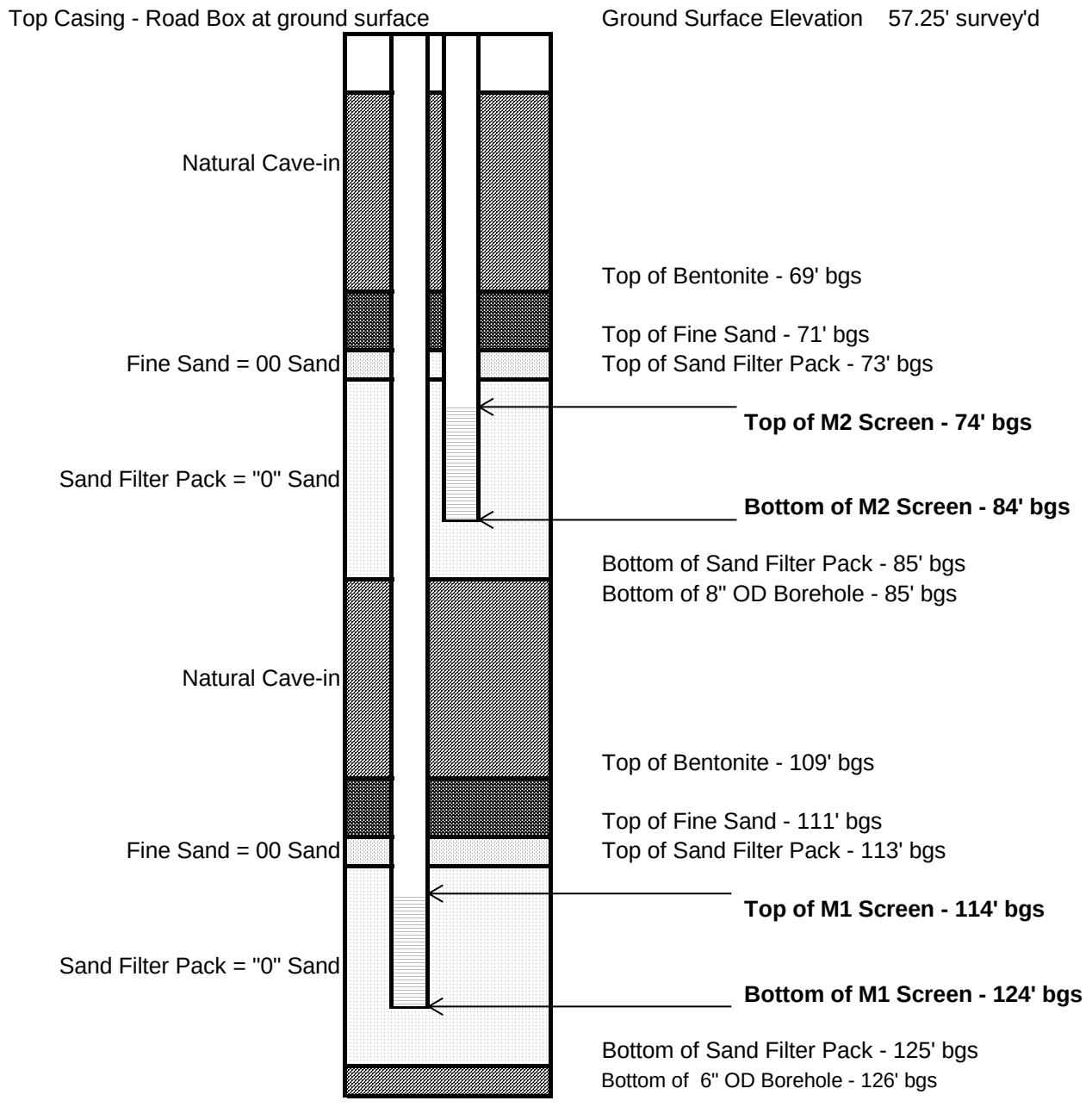


Tetratech Monitoring Well Construction Diagram

Project Name/Number:	**194-8200**		
Loc. I.D.:	**MW-571M1/M2**		
Location:	**Demo1 Location 10P**		
Drilling Contractor/Driller:	**Boart Longyear**		
Geologist:	**Paul Anderson**		
Drilling Method:	**Sonic w/ Casing**		
Sampling Method:	**N/A**		
Start Date:	**3/20/2013**		
Complete Date:	**3/20/2013**		
Total Drilled Depth:	**125'**		
M1 Screen Interval:	**114' - 124' bgs**		
M2 Screen Interval:	**74' - 84' bgs**		

KEY

- **Schedule 80 PVC (2.5' OD)**
- **Natural Cave-In**
- **Bentonite Seal**
- **00N; Sand**
- **"0" Filter Pack**
- **10 slot screen**

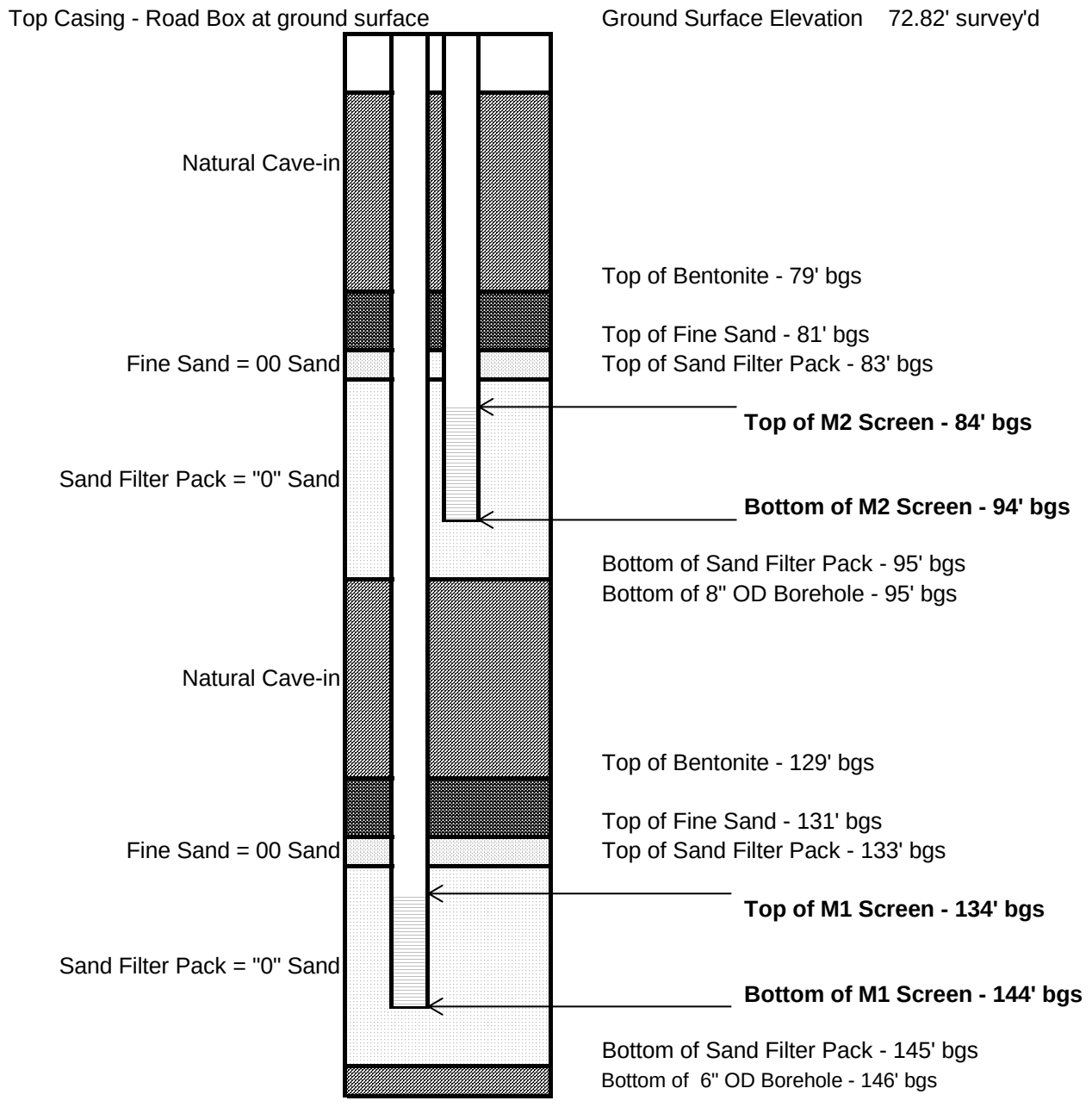


Tetratech Monitoring Well Construction Diagram

Project Name/Number:	**194-8200**		
Loc. I.D.:	**MW-582M1/M2**		
Location:	**Demo1 Location P20**		
Drilling Contractor/Driller:	**Boart Longyear**		
Geologist:	**Paul Anderson**		
Drilling Method:	**Sonic w/ Casing**		
Sampling Method:	**N/A**		
Start Date:	**3/21/2013**		
Complete Date:	**3/21/2013**		
Total Drilled Depth:	**145'**		
M1 Screen Interval:	**134' - 144' bgs**		
M2 Screen Interval:	**84' - 94' bgs**		

KEY

- **Schedule 80 PVC (2.5' OD)**
- **Natural Cave-In**
- **Bentonite Seal**
- **00N; Sand**
- **"0" Filter Pack**
- **10 slot screen**

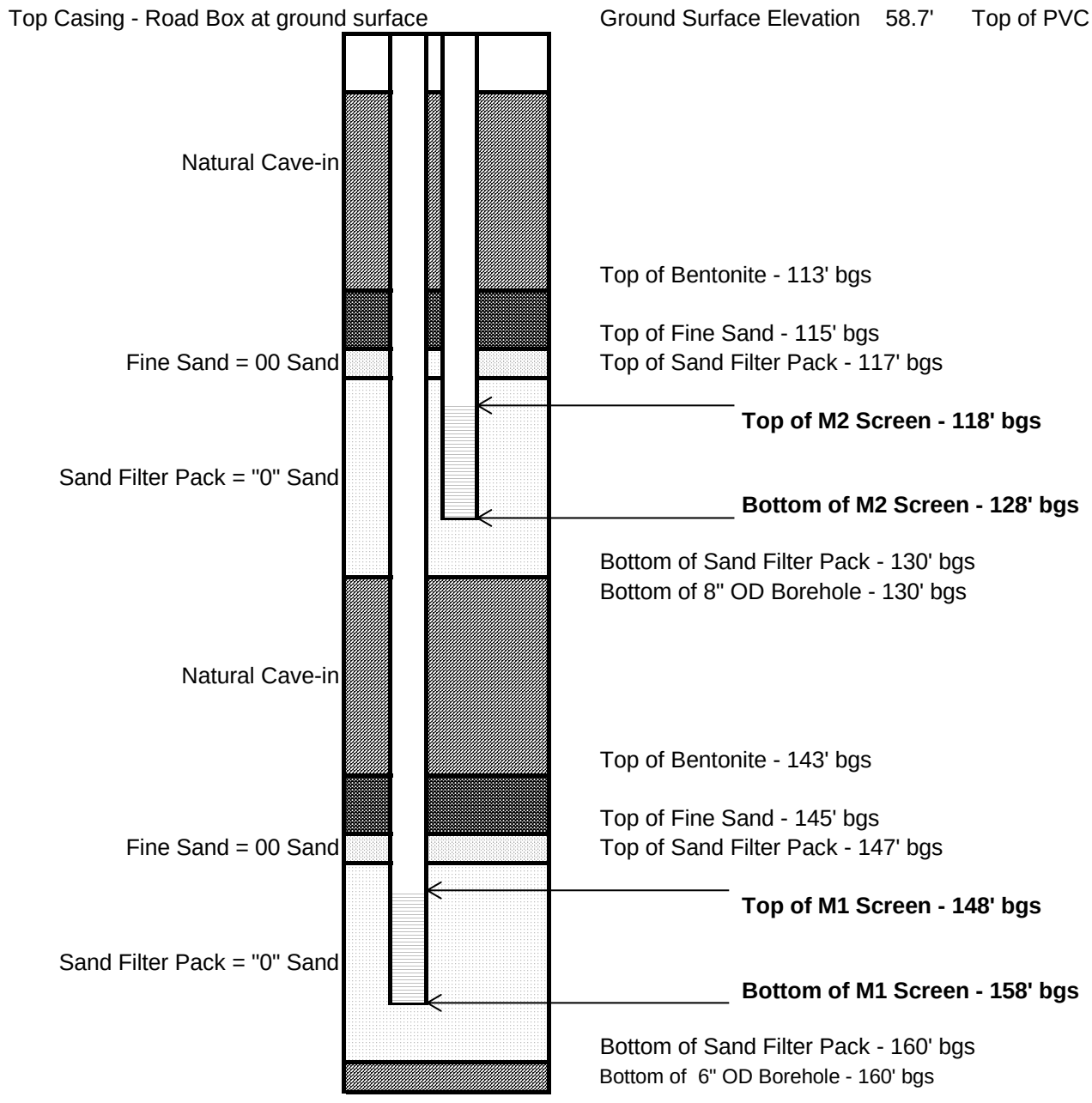


Tetratech Monitoring Well Construction Diagram

Project Name/Number:	**194-8200**
Loc. I.D.:	**MW-597M1/M2**
Location:	**Demo1 Location OB1 near BHW5030020**
Drilling Contractor/Driller:	**Boart Longyear**
Geologist:	**Paul Anderson**
Drilling Method:	**Sonic w/ Casing**
Sampling Method:	**N/A**
Start Date:	**2/1/2013**
Complete Date:	**2/1/2013**
Total Drilled Depth:	**160'**
M1 Screen Interval:	**148' - 158' bgs**
M2 Screen Interval:	**114.5' - 124.5' bgs**

KEY

- **Schedule 80 PVC (2.5' OD)**
- **Natural Cave-In**
- **Bentonite Seal**
- **00N; Sand**
- **"0" Filter Pack**
- **10 slot screen**

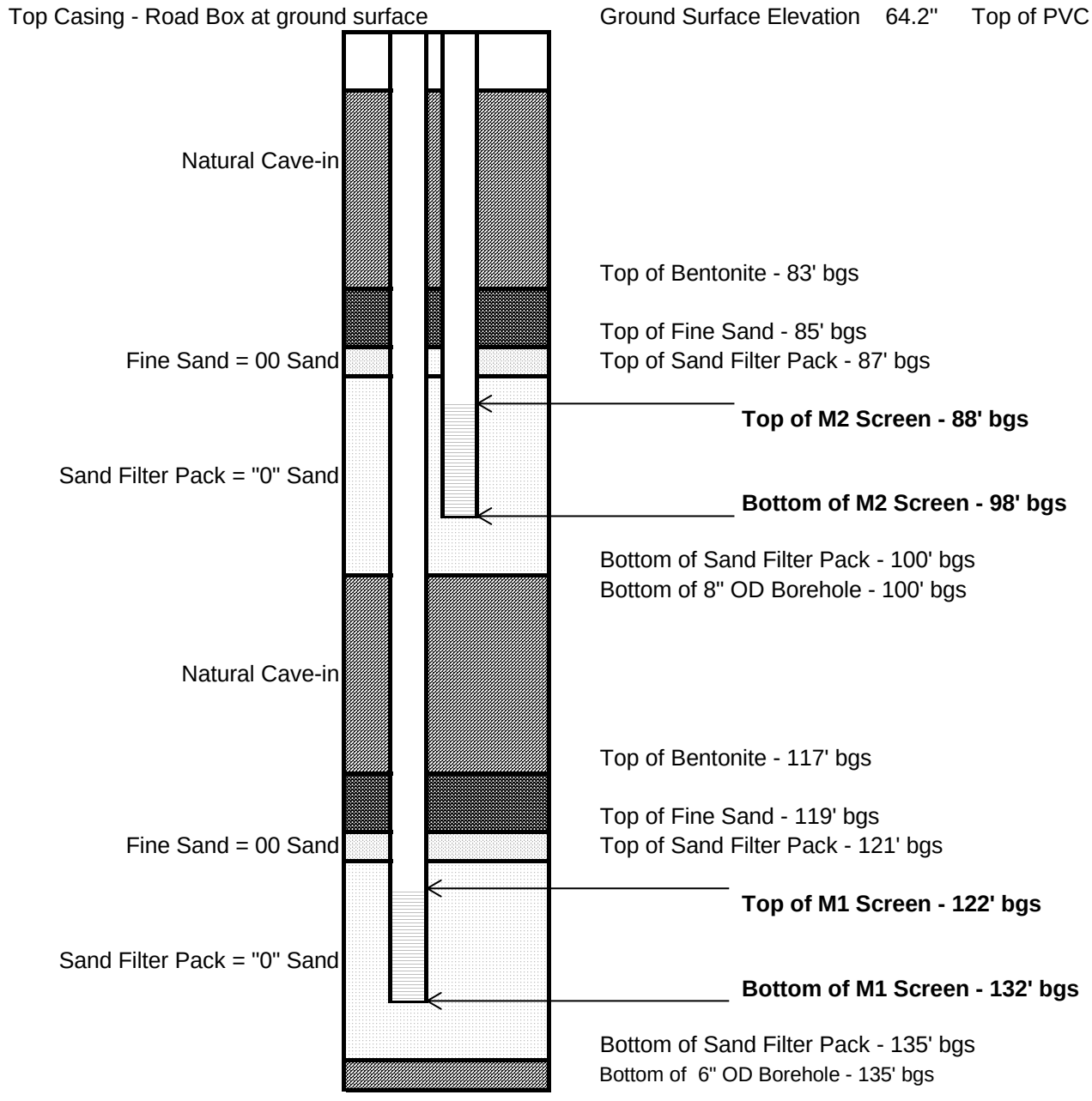


Tetratech Monitoring Well Construction Diagram

Project Name/Number:	**194-8200**		
Loc. I.D.:	**MW-598M1/M2**		
Location:	**Demo1 Location C2 County Road**		
Drilling Contractor/Driller:	**Boart Longyear**		
Geologist:	**Paul Anderson**		
Drilling Method:	**Sonic w/ Casing**		
Sampling Method:	**N/A**		
Start Date:	**2/11/2013**		
Complete Date:	**2/12/2013**		
Total Drilled Depth:	**135' (Total boring depth = 176')**		
M1 Screen Interval:	**122' - 132' bgs**		
M2 Screen Interval:	**88'- 98' bgs**		

KEY

Schedule 80 PVC (2.5' OD)	**Natural Cave-In**
Bentonite Seal	**00N; Sand**
"0" Filter Pack	**10 slot screen**

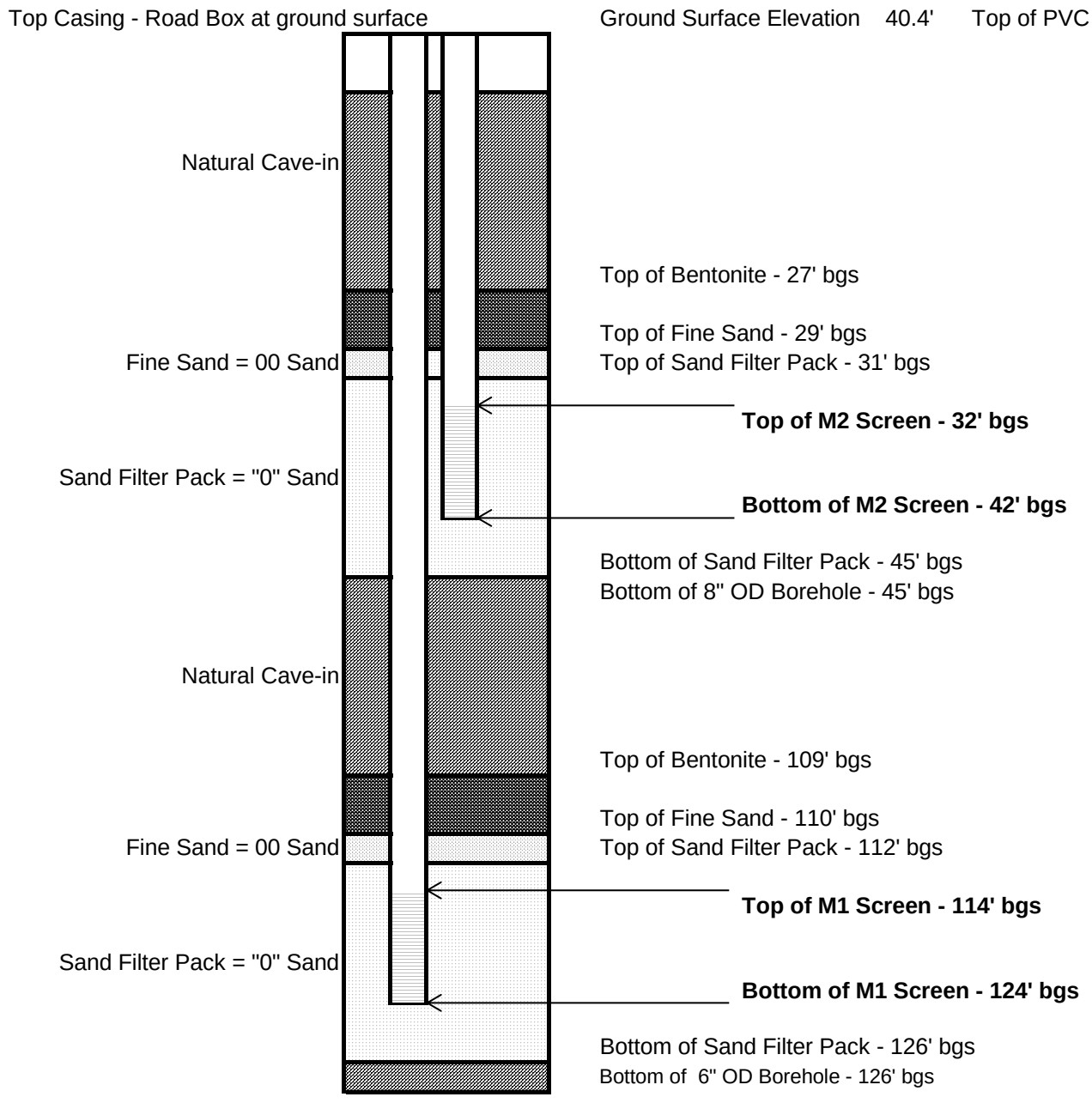


Tetratech Monitoring Well Construction Diagram

Project Name/Number:	**194-8200**		
Loc. I.D.:	**MW-599M1/M2**		
Location:	**Demo1 Location P1 (108 Williams Rd)**		
Drilling Contractor/Driller:	**Boart Longyear**		
Geologist:	**Paul Anderson**		
Drilling Method:	**Sonic w/ Casing**		
Sampling Method:	**N/A**		
Start Date:	**1/31/2013**		
Complete Date:	**1/31/2013**		
Total Drilled Depth:	**125'**		
M1 Screen Interval:	**114' - 124' bgs**		
M2 Screen Interval:	**32' - 42' bgs**		

KEY

- **Schedule 80 PVC (2.5' OD)**
- **Natural Cave-In**
- **Bentonite Seal**
- **00N; Sand**
- **"0" Filter Pack**
- **10 slot screen**

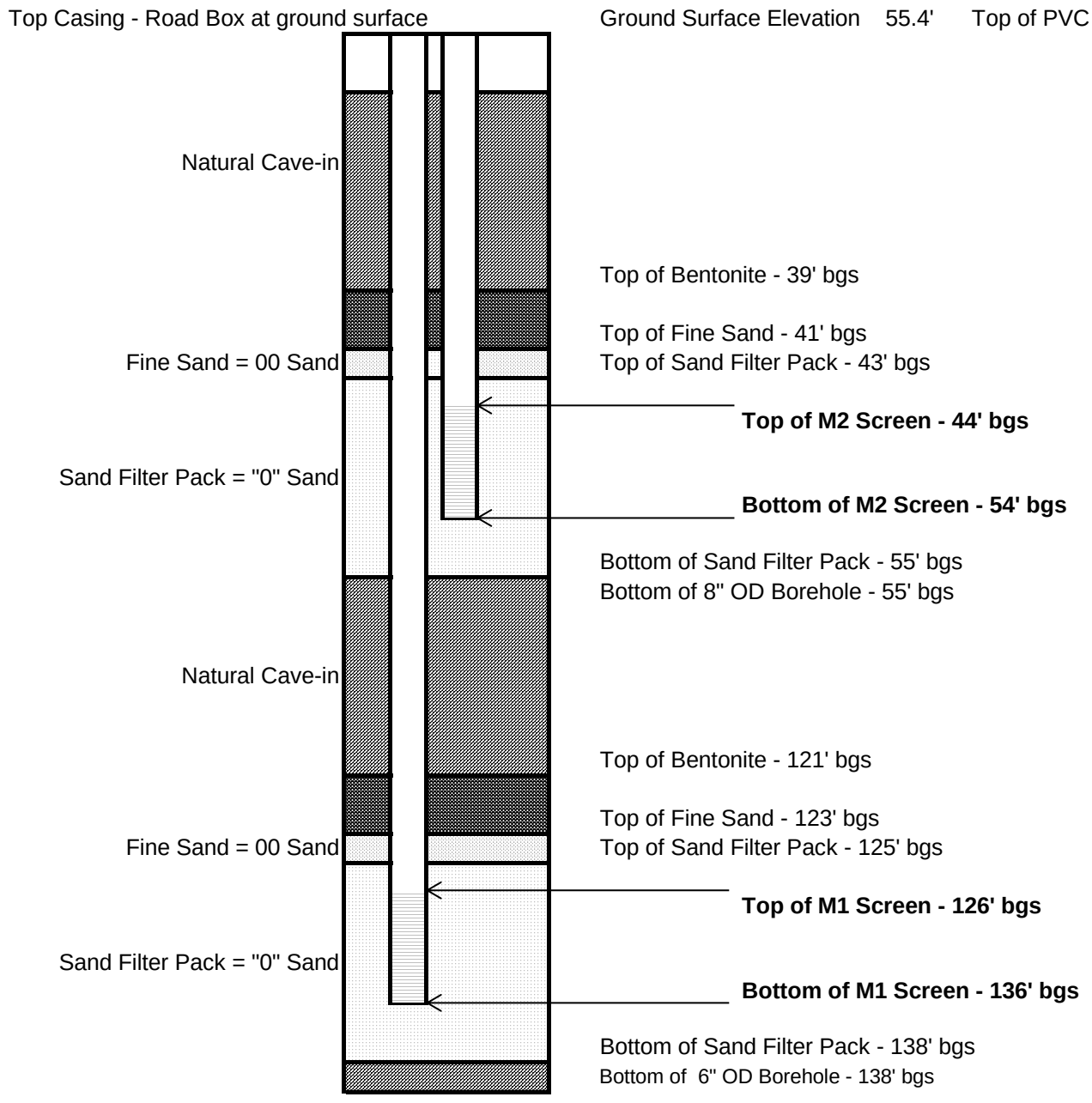


Tetratech Monitoring Well Construction Diagram

Project Name/Number:	**194-8200**		
Loc. I.D.:	**MW-600M1/M2**		
Location:	**Demo1 Location P2 (128 Williams Rd)**		
Drilling Contractor/Driller:	**Boart Longyear**		
Geologist:	**Paul Anderson**		
Drilling Method:	**Sonic w/ Casing**		
Sampling Method:	**N/A**		
Start Date:	**1/30/2013**		
Complete Date:	**1/30/2013**		
Total Drilled Depth:	**138'**		
M1 Screen Interval:	**126' - 136' bgs**		
M2 Screen Interval:	**44' - 54' bgs**		

KEY

- **Schedule 80 PVC (2.5' OD)**
- **Natural Cave-In**
- **Bentonite Seal**
- **00N; Sand**
- **"0" Filter Pack**
- **10 slot screen**

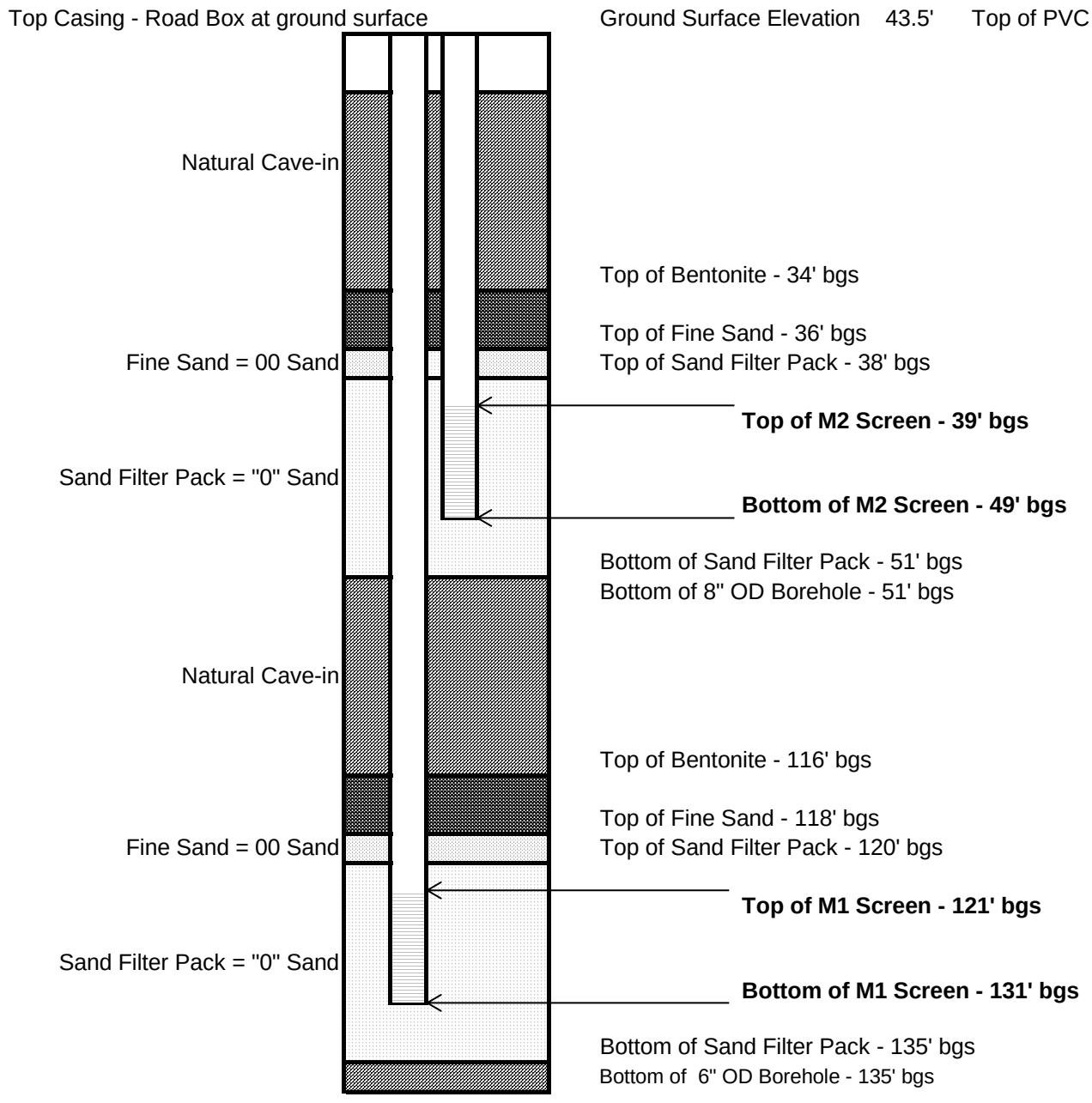


Tetratech Monitoring Well Construction Diagram

Project Name/Number:	**194-8200**		
Loc. I.D.:	**MW-601M1/M2**		
Location:	**Demo1 Location P3 (Lake Drive Ext)**		
Drilling Contractor/Driller:	**Boart Longyear**		
Geologist:	**Paul Anderson**		
Drilling Method:	**Sonic w/ Casing**		
Sampling Method:	**N/A**		
Start Date:	**1/28/2013**		
Complete Date:	**1/28/2013**		
Total Drilled Depth:	**135'**		
M1 Screen Interval:	**121' - 131' bgs**		
M2 Screen Interval:	**39' - 49' bgs**		

KEY

- **Schedule 80 PVC (2.5' OD)**
- **Natural Cave-In**
- **Bentonite Seal**
- **00N; Sand**
- **"0" Filter Pack**
- **10 slot screen**

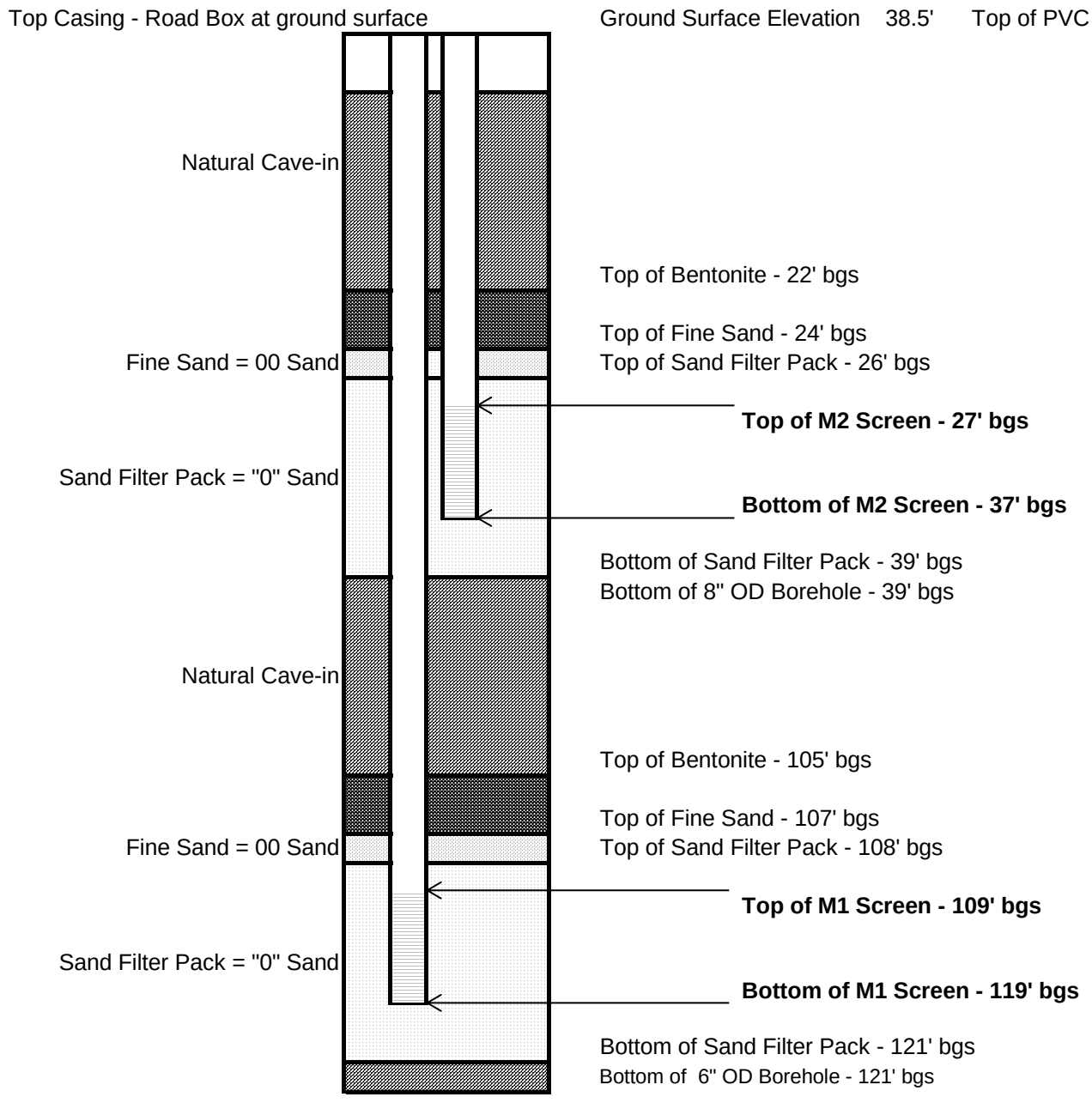


Tetratech Monitoring Well Construction Diagram

Project Name/Number:	**194-8200**		
Loc. I.D.:	**MW-602M1/M2**		
Location:	**Demo1 Location P4 (Williams and Mercury)**		
Drilling Contractor/Driller:	**Boart Longyear**		
Geologist:	**Paul Anderson**		
Drilling Method:	**Sonic w/ Casing**		
Sampling Method:	**N/A**		
Start Date:	**1/18/2013**		
Complete Date:	**1/18/2013**		
Total Drilled Depth:	**121'**		
M1 Screen Interval:	**109' - 119' bgs**		
M2 Screen Interval:	**27' - 37' bgs**		

KEY

- **Schedule 80 PVC (2.5' OD)**
- **Natural Cave-In**
- **Bentonite Seal**
- **00N; Sand**
- **"0" Filter Pack**
- **10 slot screen**

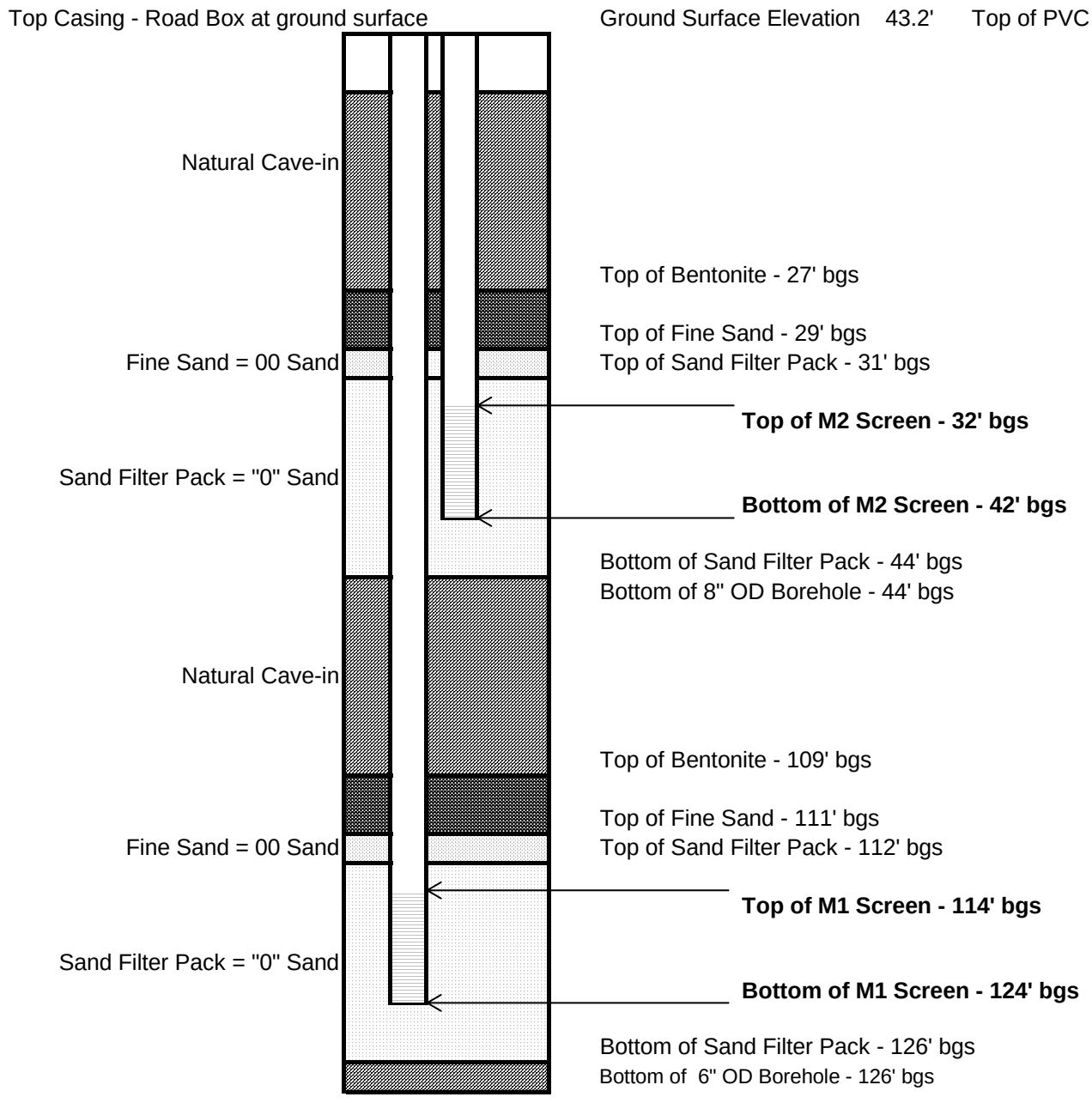


Tetratech Monitoring Well Construction Diagram

Project Name/Number:	**194-8200**		
Loc. I.D.:	**MW-603M1/M2**		
Location:	**Demo1 Location P5 (Lake Drive)**		
Drilling Contractor/Driller:	**Boart Longyear**		
Geologist:	**Paul Anderson**		
Drilling Method:	**Sonic w/ Casing**		
Sampling Method:	**N/A**		
Start Date:	**1/16/2013**		
Complete Date:	**1/16/2013**		
Total Drilled Depth:	**126'**		
M1 Screen Interval:	**114' - 124' bgs**		
M2 Screen Interval:	**32' - 42' bgs**		

KEY

- **Schedule 80 PVC (2.5' OD)**
- **Natural Cave-In**
- **Bentonite Seal**
- **00N; Sand**
- **"0" Filter Pack**
- **10 slot screen**

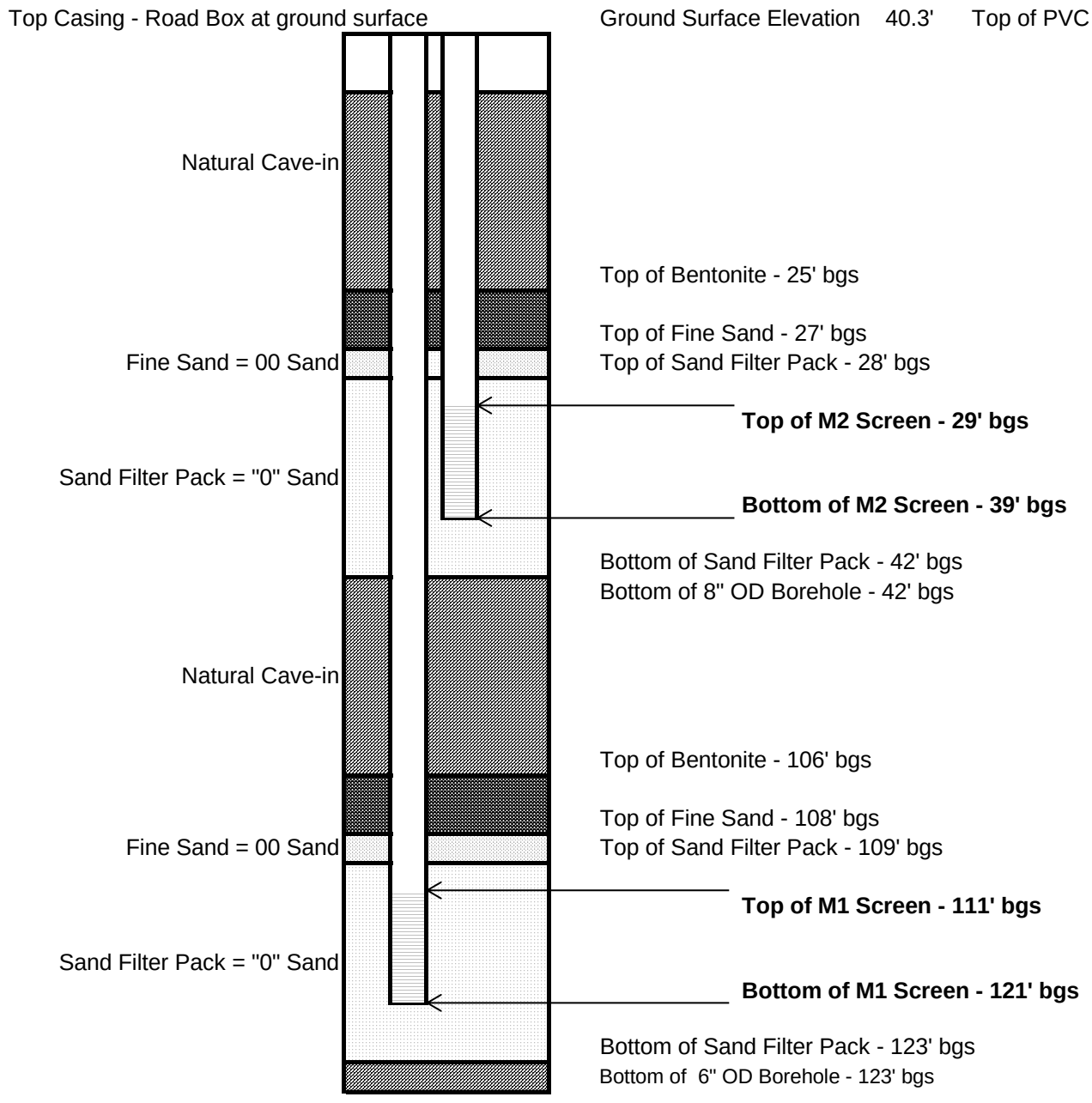


Tetratech Monitoring Well Construction Diagram

Project Name/Number:	**194-8200**		
Loc. I.D.:	**MW-604M1/M2**		
Location:	**Demo1 Location P6 (Lake Drive)**		
Drilling Contractor/Driller:	**Boart Longyear**		
Geologist:	**Paul Anderson**		
Drilling Method:	**Sonic w/ Casing**		
Sampling Method:	**N/A**		
Start Date:	**1/15/2013**		
Complete Date:	**1/15/2013**		
Total Drilled Depth:	**123'**		
M1 Screen Interval:	**111' - 121' bgs**		
M2 Screen Interval:	**29' - 39' bgs**		

KEY

- **Schedule 80 PVC (2.5' OD)**
- **Natural Cave-In**
- **Bentonite Seal**
- **00N; Sand**
- **"0" Filter Pack**
- **10 slot screen**



Appendix B

Capture Zone Analysis

&

Slug Test Analysis

B1 - Frank Perkins Road – WINFLOW Capture Analysis

B2 - Base Boundary Single Well – WINFLOW Capture Analysis

B3 - Base Boundary EPA Capture Zone Analysis

B4 - Slug Test Analysis

B1

Frank Perkins Road – WINFLOW Capture Analysis

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WinFlow
Analytical Model of 2D Ground-Water Flow

Developed by

James O. Rumbaugh, III

Douglas B. Rumbaugh

==========

Date: 5/13/2013
Time: 07:17:13.00

Input File: ANALSOL_5_NOVEMBER_2012REV0.AQF
Map File : ♀

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Model Entities

Number of Linesinks Defined by Infiltration Rate = 0

Number of Linesinks Defined by Head = 0

Number of Ponds = 0

Number of Wells = 9

Well #1
Center of Well -- x: 856732.250000 y: 253432.400000
Radius = 0.250000 ft
Pumping Rate = 150.000000 gal/min
Head at Well Radius = 65.444002 ft

Well #2
Center of Well -- x: 853933.010000 y: 252834.850000
Radius = 0.250000 ft
Pumping Rate = 100.000000 gal/min
Head at Well Radius = 63.454220 ft

Well #3
Center of Well -- x: 858230.210000 y: 253590.020000
Radius = 0.250000 ft
Pumping Rate = 150.000000 gal/min
Head at Well Radius = 66.185546 ft

```
   Well #4
      Center of Well --  x: 857313.870000   y: 253557.570000
      Radius = 0.250000 ft
      Pumping Rate = 100.000000 gal/min
      Head at Well Radius           = 66.028107 ft
   Well #5
      Center of Well --  x: 855401.530000   y: 253172.740000
      Radius = 0.250000 ft
      Pumping Rate = 100.000000 gal/min
      Head at Well Radius           = 64.697811 ft
   Well #6
      Center of Well --  x: 853462.870000   y: 254094.400000
      Radius = 0.250000 ft
      Pumping Rate = -50.000000 gal/min
      Head at Well Radius           = 64.290515 ft
   Well #7
      Center of Well --  x: 853462.870000   y: 251456.590000
      Radius = 0.250000 ft
      Pumping Rate = -50.000000 gal/min
      Head at Well Radius           = 63.661237 ft
   Well #8
      Center of Well --  x: 856677.630000   y: 254270.140000
      Radius = 0.250000 ft
      Pumping Rate = -250.000000 gal/min
      Head at Well Radius           = 68.024940 ft
   Well #9
      Center of Well --  x: 856732.310000   y: 252681.440000
      Radius = 0.250000 ft
      Pumping Rate = -250.000000 gal/min
      Head at Well Radius           = 67.819925 ft


Reference Head = 68.810000 ft    Defined at -- x: 861180.980000   y:
254525.690000
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===
```

Calibration Targets

Target Head	Computed Head	Residual	Well Name
66.42	66.84	-0.4243	"MW-114M1"
66.42	66.83	-0.4102	"MW-129M1"
65.82	66.46	-0.6409	"MW-139M3"
66.52	66.93	-0.4057	"MW-162M2"
65.54	66.10	-0.5598	"MW-165M2"
65.42	66.33	-0.9073	"MW-172M3"
64.81	65.81	-0.9966	"MW-210M2"
65.43	66.40	-0.9654	"MW-214M3"
66.16	66.79	-0.6337	"MW-255M2"
66.06	66.68	-0.6178	"MW-32D"
65.79	66.52	-0.7282	"MW-33S"
66.38	66.87	-0.4864	"MW-34M1"
65.85	66.54	-0.6948	"MW-35M1"
66.54	66.92	-0.3760	"MW-36M2"
65.60	66.16	-0.5559	"MW-46M1"
65.84	66.39	-0.5508	"MW-47M2"
67.34	67.68	-0.3372	"MW-64M2"
67.26	67.58	-0.3244	"MW-78M1"
68.81	68.63	0.1815	"MW-79M1"
67.27	67.57	-0.3004	"MW-74M1"
67.28	67.57	-0.2877	"MW-75M1"
67.25	67.56	-0.3140	"MW-76M1"
67.24	67.56	-0.3217	"MW-77M1"

```
   Number of Targets           = 23
   Residual Mean               = -0.506872
   Residual Standard Deviation = 0.254541
   Residual Sum of Squares     = 7.399325
   Absolute Residual Mean      = 0.522656
   Minimum Residual            = -0.996553
   Maximum Residual            = 0.181516
   Observed Range in Head      = 4.000000
   Resid. Std./Range in Head   = 0.063635
```

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Aquifer Properties

.... Steady-State Flow Model ....

```
     Permeability.............= 160.000000 ft/d
     Porosity.................= 0.300000
     Elevation of Aquifer Top....= 75.000000 ft
     Elevation of Aquifer Bottom.= -160.000000 ft
     Uniform Regional Gradient...= 0.000750
     Angle of Uniform Gradient...= 195.000000
     Recharge.................= 0.006900 ft/d
```

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Contour Matrix

```
Number of nodes in the X-direction = 35
Number of nodes in the Y-direction = 35


Minimum X Coordinate = 851692.000000 ft
Minimum Y Coordinate = 251061.460000 ft

Maximum X Coordinate = 861496.540000 ft
Maximum Y Coordinate = 256067.650000 ft


Minimum Head = 61.582390 ft
Maximum Head = 68.948691 ft



CONTOUR GRID -----

Row 1

   61.582390   61.853089   62.120266   62.384582   62.646948
   62.907702   63.160853   63.393228   63.614960   63.836450
   64.058636   64.280693   64.501694   64.720706   64.936642
   65.148123   65.353507   65.551213   65.740283   65.920854
   66.094096   66.261650   66.425027   66.585283   66.742983
   66.898294   67.051121   67.201224   67.348317   67.492116
```

67.632377	67.768901	67.901534	68.030164	68.154710

Row 2

61.652221	61.922699	62.189729	62.454189	62.717682
62.982868	63.245273	63.469561	63.683874	63.902921
64.124596	64.347063	64.569066	64.789561	65.007360
65.220866	65.428024	65.626699	65.815534	65.994723
66.165923	66.331357	66.492933	66.651878	66.808760
66.963666	67.116391	67.266593	67.413895	67.557954
67.698484	67.835263	67.968127	68.096958	68.221676

Row 3

61.718759	61.988900	62.255570	62.519777	62.783671
63.052851	63.342413	63.541456	63.747173	63.964484
64.186118	64.409315	64.632590	64.854871	65.074951
65.291035	65.500554	65.700585	65.889140	66.066493
66.235053	66.397866	66.557331	66.714826	66.870876
67.025438	67.178159	67.328561	67.476167	67.620564
67.761424	67.898505	68.031633	68.160690	68.285597

Row 4

61.782021	62.051702	62.317772	62.581220	62.844267
63.113210	63.424040	63.600395	63.803625	64.020759
64.243018	64.467319	64.692131	64.916505	65.139332
65.358679	65.571363	65.773322	65.961531	66.136379
66.301475	66.461041	66.618046	66.773967	66.929206
67.083526	67.236373	67.387106	67.535127	67.679951
67.821208	67.958639	68.092065	68.221371	68.346483

Row 5

61.842039	62.111146	62.376382	62.638552	62.899399
63.162748	63.427966	63.643284	63.852820	64.071556
64.295181	64.520967	64.747548	64.974288	65.200357
65.423806	65.640776	65.845543	66.033306	66.204630
66.365117	66.520666	66.674845	66.829104	66.983607
67.137837	67.290985	67.442209	67.590777	67.736126
67.877851	68.015680	68.149438	68.279016	68.404348

Row 6

61.898856	62.167303	62.431514	62.691991	62.949693
63.205684	63.454436	63.678882	63.895378	64.116885
64.342583	64.570193	64.798687	65.027985	65.257784
65.486337	65.709165	65.918163	66.105333	66.271514
66.425796	66.576419	66.727424	66.879998	67.033913
67.188274	67.341950	67.493860	67.643125	67.789107
67.931373	68.069651	68.203772	68.333640	68.459204

Row 7

61.952532	62.220265	62.483335	62.741879	62.996069
63.245368	63.485496	63.711311	63.932101	64.156873
64.385292	64.614985	64.845378	65.077284	65.311238
65.546023	65.776905	65.992561	66.178912	66.337253
66.483126	66.627833	66.775397	66.926367	67.079940
67.234738	67.389231	67.542060	67.692192	67.838921

67.981803	68.120574	68.255085	68.385261	68.511067

Row 8

62.003130	62.270144	62.532045	62.788609	63.039352
63.282979	63.516778	63.740633	63.963243	64.191645
64.423501	64.655404	64.887437	65.121774	65.360165
65.602310	65.844206	66.070927	66.256091	66.401839
66.536383	66.674258	66.818293	66.967886	67.121492
67.277137	67.432808	67.586829	67.738011	67.885605
68.029173	68.168478	68.303404	68.433900	68.559952

Row 9

62.050717	62.317055	62.577851	62.832555	63.080165
63.318915	63.546775	63.765966	63.988280	64.221296
64.457579	64.691620	64.924651	65.160921	65.403812
65.654164	65.910632	66.156948	66.340258	66.464525
66.584317	66.714852	66.855565	67.004194	67.158360
67.315390	67.472684	67.628207	67.780635	67.929208
68.073525	68.213398	68.348754	68.479575	68.605876

Row 10

62.095357	62.361108	62.620947	62.874050	63.118999
63.353525	63.575147	63.786185	64.005638	64.246048
64.488203	64.723952	64.956765	65.194026	65.441270
65.699951	65.973882	66.257070	66.437062	66.522638
66.625013	66.748629	66.886622	67.034898	67.190334
67.349446	67.508896	67.666266	67.820137	67.969791
68.114908	68.255371	68.391163	68.522310	68.648856

Row 11

62.137106	62.402400	62.661499	62.913372	63.156266
63.387333	63.602557	63.800248	64.011606	64.266842
64.516524	64.752933	64.983445	65.220127	65.471627
65.737631	66.027647	66.379536	66.552021	66.569624
66.656030	66.774608	66.910872	67.059566	67.217205
67.379296	67.541536	67.701115	67.856611	68.007430
68.153378	68.294438	68.430662	68.562127	68.688908

Row 12

62.176007	62.441005	62.699632	62.950730	63.192317
63.421021	63.630860	63.809509	63.996139	64.286883
64.544238	64.779381	65.004248	65.237706	65.494297
65.765655	66.061520	66.477566	66.637826	66.595185
66.675129	66.792061	66.927767	67.077708	67.238777
67.405009	67.570766	67.732911	67.890180	68.042212
68.188996	68.330642	68.467283	68.599049	68.726051

Row 13

62.212088	62.476967	62.735425	62.986262	63.227403
63.455229	63.662699	63.828080	63.951671	64.313174
64.573261	64.804532	65.018789	65.243748	65.509644
65.784427	66.069863	66.410342	66.575782	66.593307
66.681443	66.800812	66.936820	67.088681	67.254880
67.426780	67.596847	67.761862	67.920989	68.074234

68.221829	68.364028	68.501056	68.633097	68.760299

Row 14

62.245357	62.510302	62.768904	63.020013	63.261626
63.490256	63.699582	63.875905	64.057354	64.351110
64.604925	64.830200	65.028132	65.230125	65.520400
65.797185	66.060426	66.316484	66.481889	66.569751
66.676097	66.801511	66.937544	67.091478	67.265431
67.445017	67.620161	67.788228	67.949202	68.103601
68.251942	68.394641	68.532012	68.664294	68.791668

Row 15

62.275804	62.540991	62.800036	63.051932	63.294906
63.525906	63.740330	63.935371	64.143213	64.396468
64.639324	64.858607	65.040842	65.161991	65.534225
65.809236	66.046613	66.240792	66.401230	66.535140
66.661518	66.795955	66.929300	67.084207	67.270651
67.460472	67.641235	67.812316	67.974994	68.130415
68.279400	68.422520	68.560177	68.692658	68.820172

Row 16

62.303401	62.568985	62.828734	63.081876	63.327001
63.561615	63.782436	63.990811	64.206467	64.442379
64.675486	64.891178	65.074595	65.232190	65.560982
65.825860	66.039818	66.171423	66.326143	66.497587
66.639853	66.787805	66.911209	67.062784	67.271739
67.474390	67.660714	67.834448	67.998537	68.154773
68.304259	68.447702	68.585575	68.718204	68.845822

Row 17

62.328107	62.594206	62.854863	63.109610	63.357542
63.596744	63.824112	64.040461	64.258285	64.485503
64.711964	64.927061	65.124229	65.330584	65.599652
65.850252	66.049797	66.124072	66.275853	66.463493
66.612743	66.783798	66.884127	67.017625	67.272554
67.488530	67.679287	67.854926	68.019977	68.176753
68.326566	68.470216	68.608224	68.740945	68.868626

Row 18

62.349865	62.616557	62.878246	63.134828	63.386049
63.630766	63.864876	64.085417	64.302650	64.524740
64.747264	64.963634	65.172857	65.393379	65.641846
65.882753	66.082071	66.188008	66.328895	66.459461
66.604120	66.793253	66.867520	66.948819	67.281188
67.504737	67.697523	67.873972	68.039418	68.196410
68.346350	68.490079	68.628137	68.760889	68.888590

Row 19

62.368616	62.635929	62.898682	63.157158	63.411907
63.663206	63.905560	64.126844	64.341063	64.559629
64.780073	64.998321	65.215287	65.441480	65.682651
65.921294	66.133355	66.290496	66.425921	66.531904
66.661629	66.821445	66.907106	67.024635	67.304580
67.524012	67.715688	67.891683	68.056903	68.213766

68.363625	68.507299	68.645318	68.778040	68.905718

Row 20

62.384297	62.652211	62.915967	63.176196	63.434307
63.693126	63.949202	64.165242	64.373744	64.589792
64.809363	65.029441	65.251147	65.480418	65.719971
65.962236	66.195752	66.397154	66.529216	66.618524
66.730225	66.863343	66.973347	67.118790	67.338863
67.545819	67.733638	67.908009	68.072410	68.228810
68.378385	68.521874	68.659766	68.792398	68.920009

Row 21

62.396850	62.665304	62.929914	63.191561	63.452288
63.717837	64.007300	64.198204	64.400074	64.614855
64.834419	65.056094	65.280758	65.512055	65.752350
66.001053	66.261078	66.521380	66.638979	66.694960
66.789358	66.909089	67.032368	67.183769	67.375081
67.568457	67.750877	67.922758	68.085852	68.241499
68.390607	68.533790	68.671473	68.803957	68.931459

Row 22

62.406228	62.675126	62.940387	63.202973	63.465057
63.732763	64.036161	64.217244	64.419270	64.634558
64.854802	65.077849	65.304389	65.536999	65.778437
66.032920	66.317507	66.691255	66.749047	66.755686
66.837482	66.951340	67.080238	67.231729	67.407908
67.590044	67.766732	67.935649	68.097095	68.251760
68.400249	68.543022	68.680424	68.812707	68.940063

Row 23

62.412393	62.681627	62.947309	63.210328	63.472445
63.737174	64.002527	64.220909	64.431367	64.648865
64.870313	65.094538	65.322222	65.555429	65.797185
66.053845	66.347838	66.818795	66.807275	66.794685
66.873538	66.986402	67.117941	67.268170	67.435476
67.609141	67.780525	67.946360	68.105976	68.259506
68.407260	68.549539	68.686597	68.818635	68.945810

Row 24

62.415324	62.684783	62.950671	63.213697	63.474957
63.735337	63.988782	64.218333	64.437398	64.657985
64.880934	65.106153	65.334420	65.567479	65.808161
66.062292	66.345126	66.673498	66.776263	66.810353
66.897267	67.012936	67.146553	67.295632	67.457373
67.624853	67.791689	67.954577	68.112319	68.264634
68.411579	68.553303	68.689970	68.821724	68.948690

Row 25

62.415011	62.684594	62.950517	63.213265	63.473332
63.730243	63.979216	64.213443	64.438584	64.662270
64.886775	65.112787	65.341180	65.573398	65.811647
66.059638	66.322112	66.578659	66.723975	66.808288
66.909750	67.030905	67.166962	67.315483	67.473670
67.636690	67.799801	67.960029	68.115958	68.267044

68.413142	68.554273	68.690513	68.821956	68.948691

Row 26

62.411456	62.681081	62.946917	63.209247	63.468157
63.722749	63.969887	64.206604	64.435758	64.662092
64.888016	65.114603	65.342752	65.573575	65.808457
66.048762	66.292483	66.517605	66.678908	66.796025
66.912948	67.040947	67.179963	67.328594	67.484576
67.644423	67.804575	67.962493	68.116744	68.266636
68.411885	68.552404	68.688199	68.819311	68.945796

Row 27

62.404667	62.674275	62.939953	63.201831	63.459776
63.712906	63.959274	64.197535	64.429353	64.657768
64.884865	65.111806	65.339425	65.568492	65.799600
66.032350	66.262040	66.472120	66.641253	66.778560
66.908911	67.043971	67.186295	67.335605	67.490335
67.647971	67.805830	67.961805	68.114552	68.263324
68.407747	68.547656	68.682997	68.813767	68.939992

Row 28

62.394659	62.664211	62.929698	63.191151	63.448352
63.700577	63.946644	64.185946	64.419569	64.649540
64.877532	65.104618	65.331508	65.558652	65.786018
66.012198	66.232102	66.434383	66.608137	66.758232
66.899281	67.040903	67.186633	67.337033	67.491195
67.647344	67.803466	67.957846	68.109281	68.257030
68.400672	68.539988	68.674878	68.805304	68.931262

Row 29

62.381448	62.650920	62.916213	63.177299	63.433947
63.685615	63.931592	64.171629	64.406493	64.637586
64.866207	65.093262	65.319304	65.544516	65.768450
65.989281	66.202495	66.400489	66.577324	66.735892
66.885187	67.032551	67.181575	67.333317	67.487393
67.642599	67.797439	67.950539	68.100857	68.247691
68.390610	68.529363	68.663815	68.793900	68.919592

Row 30

62.365050	62.634433	62.899543	63.160324	63.416571
63.667896	63.913876	64.154443	64.390164	64.622042
64.851062	65.077948	65.303092	65.526475	65.747417
65.964049	66.172689	66.368240	66.547300	66.711737
66.867335	67.019556	67.171630	67.324831	67.479151
67.633819	67.787743	67.939838	68.089223	68.235258
68.377521	68.515748	68.649782	68.779536	68.904966

Row 31

62.345480	62.614774	62.879721	63.140258	63.396216
63.647326	63.893346	64.134294	64.370605	64.603008
64.832245	65.058863	65.283112	65.504834	65.723255
65.936655	66.142149	66.336288	66.517045	66.685706
66.846144	67.002400	67.157213	67.311892	67.466671
67.621100	67.774398	67.925724	68.074343	68.219692

68.361370	68.499115	68.632757	68.762194	68.887369

Row 32

62.322750	62.591960	62.856767	63.117111	63.372861
63.623837	63.869904	64.111122	64.347832	64.580569
64.809882	65.036170	65.259565	65.479823	65.696168
65.907106	66.110423	66.303753	66.485855	66.657659
66.821850	66.981431	67.138658	67.294768	67.450134
67.604538	67.757438	67.908191	68.056196	68.200964
68.342130	68.479439	68.612718	68.741857	68.866788

Row 33

62.296872	62.566007	62.830697	63.090890	63.346489
63.597377	63.843486	64.084892	64.321861	64.554790
64.784079	65.010005	65.232610	65.451608	65.666270
65.875345	66.077147	66.270035	66.453234	66.627443
66.794579	66.956896	67.116223	67.273678	67.429700
67.584230	67.736907	67.887248	68.034770	68.179056
68.319779	68.456700	68.589648	68.718510	68.843210

Row 34

62.267853	62.536924	62.801517	63.061594	63.317082
63.567910	63.814050	64.055580	64.292707	64.525727
64.754925	64.980480	65.202373	65.420303	65.633616
65.841285	66.042034	66.234709	66.418823	66.594916
66.764394	66.928967	67.090111	67.248804	67.405507
67.560264	67.712850	67.862911	68.010063	68.153956
68.294303	68.430882	68.563533	68.692139	68.816625

Row 35

62.235702	62.504718	62.769234	63.029219	63.284626
63.535411	63.781569	64.023174	64.260388	64.493426
64.722490	64.947685	65.168948	65.385984	65.598225
65.804839	66.004858	66.197466	66.382356	66.559956
66.731321	66.897763	67.060472	67.220292	67.377671
67.532721	67.685317	67.835203	67.982080	68.125658
68.265689	68.401974	68.534359	68.662734	68.787021

♀==========

Streamlines

Number of Streamlines = 0

♀==========

Particle Traces

Number of Particle-traces = 250

Particle-trace #1

Coordinates of Particle-trace:
Start x: 855427.560000 y: 253169.570000 time: 0.000000
End x: 856752.994045 y: 252638.139786 time: 4200.870516

Particle-trace #2

Coordinates of Particle-trace:
Start x: 855427.362868 y: 253172.703331 time: 0.000000
End x: 856649.979521 y: 252672.413694 time: 4316.346028

Particle-trace #3

Coordinates of Particle-trace:
Start x: 855426.774579 y: 253175.787247 time: 0.000000
End x: 856725.699643 y: 252645.919627 time: 4577.926687

Particle-trace #4

Coordinates of Particle-trace:
Start x: 855425.804412 y: 253178.773114 time: 0.000000
End x: 856745.790857 y: 252711.349450 time: 5039.273280

Particle-trace #5

Coordinates of Particle-trace:
Start x: 855424.467667 y: 253181.613842 time: 0.000000
End x: 856777.336134 y: 252609.170509 time: 6121.012315

Particle-trace #6

Coordinates of Particle-trace:
Start x: 855422.785425 y: 253184.264631 time: 0.000000
End x: 856753.694302 y: 254448.021509 time: 5031.995864

Particle-trace #7

Coordinates of Particle-trace:
Start x: 855420.784216 y: 253186.683677 time: 0.000000
End x: 856685.974530 y: 254288.213468 time: 4608.372536

Particle-trace #8

Coordinates of Particle-trace:
Start x: 855418.495600 y: 253188.832831 time: 0.000000
End x: 856674.727393 y: 254270.377454 time: 4470.292300

Particle-trace #9

Coordinates of Particle-trace:
Start x: 855415.955670 y: 253190.678198 time: 0.000000
End x: 856695.613965 y: 254240.956255 time: 4171.797914

Particle-trace #10

Coordinates of Particle-trace:
Start x: 855413.204483 y: 253192.190676 time: 0.000000
End x: 856669.556409 y: 254186.733463 time: 4059.128200

Particle-trace #11

Coordinates of Particle-trace:
Start x: 855410.285425 y: 253193.346413 time: 0.000000
End x: 856703.797330 y: 254252.695998 time: 3963.970297

Particle-trace #12

Coordinates of Particle-trace:
Start x: 855407.244533 y: 253194.127181 time: 0.000000
End x: 856574.149914 y: 254262.010642 time: 3928.378539

Particle-trace #13

Coordinates of Particle-trace:
Start x: 855404.129764 y: 253194.520668 time: 0.000000
End x: 856741.798241 y: 254471.462165 time: 3815.977902

Particle-trace #14

Coordinates of Particle-trace:
Start x: 855400.990238 y: 253194.520668 time: 0.000000
End x: 856567.780241 y: 254249.424929 time: 3917.444662

Particle-trace #15

Coordinates of Particle-trace:
Start x: 855397.875468 y: 253194.127181 time: 0.000000
End x: 856657.031716 y: 254278.974863 time: 3710.418908

Particle-trace #16

Coordinates of Particle-trace:
Start x: 855394.834576 y: 253193.346413 time: 0.000000
End x: 856403.714200 y: 254254.403959 time: 3667.931764

Particle-trace #17

Coordinates of Particle-trace:
Start x: 855391.915518 y: 253192.190677 time: 0.000000
End x: 856692.296768 y: 254234.833425 time: 3597.595711

Particle-trace #18

Coordinates of Particle-trace:
Start x: 855389.164331 y: 253190.678199 time: 0.000000
End x: 856680.460859 y: 254243.160561 time: 3578.303645

Particle-trace #19

Coordinates of Particle-trace:
Start x: 855386.624401 y: 253188.832832 time: 0.000000
End x: 856671.978728 y: 254247.530975 time: 3564.126708

Particle-trace #20

Coordinates of Particle-trace:
Start x: 855384.335785 y: 253186.683678 time: 0.000000
End x: 856672.240217 y: 254247.936698 time: 3556.631432

Particle-trace #21

Coordinates of Particle-trace:
Start x: 855382.334576 y: 253184.264632 time: 0.000000
End x: 856679.140990 y: 254243.424627 time: 3558.354559

Particle-trace #22

Coordinates of Particle-trace:
Start x: 855380.652334 y: 253181.613843 time: 0.000000
End x: 856685.892608 y: 254234.499750 time: 3572.574822

Particle-trace #23

Coordinates of Particle-trace:
Start x: 855379.315588 y: 253178.773115 time: 0.000000
End x: 856689.964195 y: 254223.894007 time: 3602.613496

Particle-trace #24

Coordinates of Particle-trace:
Start x: 855378.345421 y: 253175.787248 time: 0.000000
End x: 856627.524101 y: 254299.399332 time: 3701.311700

Particle-trace #25

Coordinates of Particle-trace:
Start x: 855377.757133 y: 253172.703332 time: 0.000000
End x: 856700.914675 y: 254257.938700 time: 3787.924835

Particle-trace #26

Coordinates of Particle-trace:
Start x: 855377.560000 y: 253169.570001 time: 0.000000
End x: 856695.690250 y: 254345.465360 time: 3939.488550

Particle-trace #27

Coordinates of Particle-trace:
Start x: 855377.757132 y: 253166.436671 time: 0.000000
End x: 856647.157326 y: 254255.021924 time: 5140.542065

Particle-trace #28

Coordinates of Particle-trace:
Start x: 855378.345421 y: 253163.352754 time: 0.000000
End x: 856661.918713 y: 252736.528764 time: 3261.584309

Particle-trace #29

Coordinates of Particle-trace:
Start x: 855379.315587 y: 253160.366888 time: 0.000000
End x: 856748.260628 y: 252683.930786 time: 3118.232214

Particle-trace #30

Coordinates of Particle-trace:
Start x: 855380.652332 y: 253157.526160 time: 0.000000
End x: 856751.721061 y: 252661.117669 time: 3044.761335

Particle-trace #31

Coordinates of Particle-trace:
Start x: 855382.334574 y: 253154.875370 time: 0.000000
End x: 856612.661851 y: 252639.550386 time: 3051.333938

Particle-trace #32

Coordinates of Particle-trace:
Start x: 855384.335783 y: 253152.456324 time: 0.000000
End x: 856758.727565 y: 252613.176107 time: 2988.714813

Particle-trace #33

Coordinates of Particle-trace:
Start x: 855386.624399 y: 253150.307170 time: 0.000000
End x: 856924.104093 y: 252676.298154 time: 3057.434789

Particle-trace #34

Coordinates of Particle-trace:
Start x: 855389.164329 y: 253148.461803 time: 0.000000
End x: 856758.835182 y: 252600.814813 time: 2982.362652

Particle-trace #35

Coordinates of Particle-trace:
Start x: 855391.915516 y: 253146.949324 time: 0.000000
End x: 856754.206928 y: 252614.930402 time: 2988.747177

Particle-trace #36

Coordinates of Particle-trace:
Start x: 855394.834573 y: 253145.793588 time: 0.000000
End x: 856567.458173 y: 252652.301126 time: 3043.876293

Particle-trace #37

Coordinates of Particle-trace:
Start x: 855397.875465 y: 253145.012819 time: 0.000000
End x: 856749.327384 y: 252656.784674 time: 3015.749936

Particle-trace #38

Coordinates of Particle-trace:
Start x: 855400.990235 y: 253144.619332 time: 0.000000
End x: 856750.009948 y: 252679.709343 time: 3036.069425

Particle-trace #39

Coordinates of Particle-trace:
Start x: 855404.129761 y: 253144.619332 time: 0.000000
End x: 856750.964720 y: 252705.221129 time: 3061.101694

Particle-trace #40

Coordinates of Particle-trace:
Start x: 855407.244531 y: 253145.012818 time: 0.000000
End x: 856653.895310 y: 252659.095108 time: 3142.368484

Particle-trace #41

Coordinates of Particle-trace:
Start x: 855410.285423 y: 253145.793586 time: 0.000000
End x: 856714.151913 y: 252763.598057 time: 3125.966884

Particle-trace #42

Coordinates of Particle-trace:
Start x: 855413.204480 y: 253146.949323 time: 0.000000
End x: 856752.784792 y: 252612.280965 time: 3213.189092

Particle-trace #43

Coordinates of Particle-trace:
Start x: 855415.955668 y: 253148.461801 time: 0.000000
End x: 856734.268839 y: 252713.304388 time: 3210.388562

Particle-trace #44

Coordinates of Particle-trace:

Start	x: 855418.495598	y: 253150.307167	time: 0.000000
End	x: 856657.827924	y: 252666.638748	time: 3316.913783

Particle-trace #45

Coordinates of Particle-trace:

Start	x: 855420.784214	y: 253152.456321	time: 0.000000
End	x: 856924.273652	y: 252675.624654	time: 3400.989603

Particle-trace #46

Coordinates of Particle-trace:

Start	x: 855422.785423	y: 253154.875367	time: 0.000000
End	x: 856738.096846	y: 252637.495179	time: 3485.852095

Particle-trace #47

Coordinates of Particle-trace:

Start	x: 855424.467666	y: 253157.526156	time: 0.000000
End	x: 856755.628890	y: 252690.768445	time: 3640.911556

Particle-trace #48

Coordinates of Particle-trace:

Start	x: 855425.804411	y: 253160.366884	time: 0.000000
End	x: 856722.989613	y: 252715.155656	time: 3655.606325

Particle-trace #49

Coordinates of Particle-trace:

Start	x: 855426.774578	y: 253163.352750	time: 0.000000
End	x: 856764.764218	y: 252689.312989	time: 3821.412864

Particle-trace #50

Coordinates of Particle-trace:

Start	x: 855427.362867	y: 253166.436667	time: 0.000000
End	x: 856730.218725	y: 252639.536601	time: 3964.618471

Particle-trace #51

Coordinates of Particle-trace:

Start	x: 856759.690000	y: 253431.880000	time: 0.000000
End	x: 858888.393053	y: 253118.841439	time: 7117.636013

Particle-trace #52

Coordinates of Particle-trace:

Start	x: 856759.492868	y: 253435.013331	time: 0.000000
End	x: 858569.542091	y: 253120.057603	time: 7116.879918

Particle-trace #53

Coordinates of Particle-trace:

Start	x: 856758.904579	y: 253438.097247	time: 0.000000
End	x: 858475.420253	y: 254534.945142	time: 7237.014825

Particle-trace #54

Coordinates of Particle-trace:

Start	x: 856757.934412	y: 253441.083114	time: 0.000000
End	x: 858512.578677	y: 254556.053230	time: 7142.025108

Particle-trace #55

Coordinates of Particle-trace:

Start	x: 856756.597667	y: 253443.923842	time: 0.000000
End	x: 858512.694150	y: 254569.983640	time: 7134.207771

Particle-trace #56

Coordinates of Particle-trace:

Start	x: 856754.915425	y: 253446.574631	time: 0.000000
End	x: 858494.908837	y: 254581.028194	time: 7169.482339

Particle-trace #57

Coordinates of Particle-trace:

Start	x: 856752.914216	y: 253448.993677	time: 0.000000
End	x: 858464.381097	y: 254590.241974	time: 7233.448614

Particle-trace #58

Coordinates of Particle-trace:

Start	x: 856750.625600	y: 253451.142831	time: 0.000000
End	x: 858423.049301	y: 254597.826443	time: 6988.326108

Particle-trace #59

Coordinates of Particle-trace:

Start	x: 856748.085670	y: 253452.988198	time: 0.000000
End	x: 858371.750524	y: 254603.628920	time: 7094.513057

Particle-trace #60

Coordinates of Particle-trace:

Start	x: 856745.334483	y: 253454.500676	time: 0.000000
End	x: 858310.763286	y: 254607.307721	time: 7223.052740

Particle-trace #61

Coordinates of Particle-trace:

Start	x: 856742.415425	y: 253455.656413	time: 0.000000
End	x: 858239.647078	y: 254608.375366	time: 7032.391653

Particle-trace #62

Coordinates of Particle-trace:

Start	x: 856739.374533	y: 253456.437181	time: 0.000000
End	x: 858156.518378	y: 254606.103954	time: 7220.906316

Particle-trace #63

Coordinates of Particle-trace:

Start	x: 856736.259764	y: 253456.830668	time: 0.000000
End	x: 858056.371144	y: 254599.154444	time: 7104.737788

Particle-trace #64

Coordinates of Particle-trace:

Start	x: 856733.120238	y: 253456.830668	time: 0.000000
End	x: 857926.152168	y: 254584.346257	time: 7077.069350

Particle-trace #65

Coordinates of Particle-trace:

Start	x: 856730.005468	y: 253456.437181	time: 0.000000
End	x: 857721.049026	y: 254550.531953	time: 6896.985691

Particle-trace #66

Coordinates of Particle-trace:

Start	x: 856726.964576	y: 253455.656413	time: 0.000000
End	x: 856977.205429	y: 254340.820623	time: 3876.445534

Particle-trace #67

Coordinates of Particle-trace:

Start	x: 856724.045518	y: 253454.500677	time: 0.000000
End	x: 856701.087299	y: 254191.593406	time: 3316.271166

Particle-trace #68

Coordinates of Particle-trace:

Start	x: 856721.294331	y: 253452.988199	time: 0.000000
End	x: 856688.431236	y: 254279.725326	time: 2752.615430

Particle-trace #69

Coordinates of Particle-trace:

Start	x: 856718.754401	y: 253451.142832	time: 0.000000
End	x: 856712.512024	y: 254244.786514	time: 2340.463186

Particle-trace #70

Coordinates of Particle-trace:

Start	x: 856716.465785	y: 253448.993678	time: 0.000000
End	x: 856596.284308	y: 254467.806780	time: 2280.745711

Particle-trace #71

Coordinates of Particle-trace:

Start	x: 856714.464576	y: 253446.574632	time: 0.000000
End	x: 856628.591933	y: 254303.467647	time: 2021.468015

Particle-trace #72

Coordinates of Particle-trace:

Start	x: 856712.782334	y: 253443.923843	time: 0.000000
End	x: 856822.853048	y: 254494.377156	time: 1931.851395

Particle-trace #73

Coordinates of Particle-trace:

Start	x: 856711.445588	y: 253441.083115	time: 0.000000
End	x: 856601.947637	y: 254254.800625	time: 2195.153007

Particle-trace #74

Coordinates of Particle-trace:

Start	x: 856710.475421	y: 253438.097248	time: 0.000000
End	x: 856543.417528	y: 254239.316375	time: 2093.760834

Particle-trace #75

Coordinates of Particle-trace:

Start	x: 856709.887133	y: 253435.013332	time: 0.000000
End	x: 856650.092474	y: 254479.438239	time: 2008.952158

Particle-trace #76

Coordinates of Particle-trace:

Start	x: 856709.690000	y: 253431.880001	time: 0.000000
End	x: 856704.738476	y: 254267.715085	time: 2200.147812

Particle-trace #77

Coordinates of Particle-trace:
Start x: 856709.887132 y: 253428.746671 time: 0.000000
End x: 856676.493231 y: 254255.930982 time: 3327.118284

Particle-trace #78

Coordinates of Particle-trace:
Start x: 856710.475421 y: 253425.662754 time: 0.000000
End x: 856701.447437 y: 252750.078220 time: 2406.850196

Particle-trace #79

Coordinates of Particle-trace:
Start x: 856711.445587 y: 253422.676888 time: 0.000000
End x: 856695.883296 y: 252758.410076 time: 2452.846971

Particle-trace #80

Coordinates of Particle-trace:
Start x: 856712.782332 y: 253419.836160 time: 0.000000
End x: 856726.028099 y: 252873.998586 time: 2379.609042

Particle-trace #81

Coordinates of Particle-trace:
Start x: 856714.464574 y: 253417.185370 time: 0.000000
End x: 856721.644925 y: 252680.683407 time: 2774.094872

Particle-trace #82

Coordinates of Particle-trace:
Start x: 856716.465783 y: 253414.766324 time: 0.000000
End x: 857013.585681 y: 252873.158314 time: 4389.561163

Particle-trace #83

Coordinates of Particle-trace:
Start x: 856718.754399 y: 253412.617170 time: 0.000000
End x: 857931.828414 y: 252818.904236 time: 7150.051363

Particle-trace #84

Coordinates of Particle-trace:
Start x: 856721.294329 y: 253410.771803 time: 0.000000
End x: 858161.910479 y: 252848.238764 time: 7248.801392

Particle-trace #85

Coordinates of Particle-trace:
Start x: 856724.045516 y: 253409.259324 time: 0.000000
End x: 858298.422775 y: 252868.244751 time: 7267.070620

Particle-trace #86

Coordinates of Particle-trace:
Start x: 856726.964573 y: 253408.103588 time: 0.000000
End x: 858399.922204 y: 252885.897070 time: 7048.096968

Particle-trace #87

Coordinates of Particle-trace:
Start x: 856730.005465 y: 253407.322819 time: 0.000000
End x: 858483.124548 y: 252902.918926 time: 7203.514753

Particle-trace #88

Coordinates of Particle-trace:
Start x: 856733.120235 y: 253406.929332 time: 0.000000
End x: 858555.287880 y: 252920.015595 time: 7066.997311

Particle-trace #89

Coordinates of Particle-trace:
Start x: 856736.259761 y: 253406.929332 time: 0.000000
End x: 858620.041006 y: 252937.542617 time: 7253.553926

Particle-trace #90

Coordinates of Particle-trace:
Start x: 856739.374531 y: 253407.322818 time: 0.000000
End x: 858679.179694 y: 252955.651838 time: 7149.541699

Particle-trace #91

Coordinates of Particle-trace:
Start x: 856742.415423 y: 253408.103586 time: 0.000000
End x: 858733.413878 y: 252974.322476 time: 7057.087949

Particle-trace #92

Coordinates of Particle-trace:
Start x: 856745.334480 y: 253409.259323 time: 0.000000
End x: 858782.766118 y: 252993.369668 time: 7263.965750

Particle-trace #93

Coordinates of Particle-trace:
Start x: 856748.085668 y: 253410.771801 time: 0.000000
End x: 858826.852066 y: 253012.465195 time: 7188.700983

Particle-trace #94

Coordinates of Particle-trace:
Start x: 856750.625598 y: 253412.617167 time: 0.000000
End x: 858865.122925 y: 253031.189044 time: 7122.817776

Particle-trace #95

Coordinates of Particle-trace:
Start x: 856752.914214 y: 253414.766321 time: 0.000000
End x: 858897.057464 y: 253049.108175 time: 7066.845295

Particle-trace #96

Coordinates of Particle-trace:
Start x: 856754.915423 y: 253417.185367 time: 0.000000
End x: 858922.233688 y: 253065.850391 time: 7021.694040

Particle-trace #97

Coordinates of Particle-trace:
Start x: 856756.597666 y: 253419.836156 time: 0.000000
End x: 858940.214586 y: 253081.131669 time: 7270.743914

Particle-trace #98

Coordinates of Particle-trace:
Start x: 856757.934411 y: 253422.676884 time: 0.000000
End x: 858950.199815 y: 253094.712702 time: 7251.795987

Particle-trace #99

Coordinates of Particle-trace:

Start	x: 856758.904578	y: 253425.662750	time: 0.000000
End	x: 858950.271578	y: 253106.267789	time: 7253.169721

Particle-trace #100

Coordinates of Particle-trace:

Start	x: 856759.492867	y: 253428.746667	time: 0.000000
End	x: 858935.364739	y: 253115.073417	time: 7287.453596

Particle-trace #101

Coordinates of Particle-trace:

Start	x: 857339.120000	y: 253556.710000	time: 0.000000
End	x: 859497.901877	y: 254393.304767	time: 7158.363883

Particle-trace #102

Coordinates of Particle-trace:

Start	x: 857338.922868	y: 253559.843331	time: 0.000000
End	x: 859505.839808	y: 254403.707169	time: 7138.028249

Particle-trace #103

Coordinates of Particle-trace:

Start	x: 857338.334579	y: 253562.927247	time: 0.000000
End	x: 859509.945696	y: 254413.980996	time: 7126.423497

Particle-trace #104

Coordinates of Particle-trace:

Start	x: 857337.364412	y: 253565.913114	time: 0.000000
End	x: 859510.567660	y: 254424.294778	time: 7122.123347

Particle-trace #105

Coordinates of Particle-trace:

Start	x: 857336.027667	y: 253568.753842	time: 0.000000
End	x: 859507.829308	y: 254434.756221	time: 7123.923638

Particle-trace #106

Coordinates of Particle-trace:

Start	x: 857334.345425	y: 253571.404631	time: 0.000000
End	x: 859501.751552	y: 254445.393718	time: 7130.656949

Particle-trace #107

Coordinates of Particle-trace:

Start	x: 857332.344216	y: 253573.823677	time: 0.000000
End	x: 859492.386094	y: 254456.138264	time: 7141.133500

Particle-trace #108

Coordinates of Particle-trace:

Start	x: 857330.055600	y: 253575.972831	time: 0.000000
End	x: 859479.940742	y: 254466.825571	time: 7154.224426

Particle-trace #109

Coordinates of Particle-trace:

Start	x: 857327.515670	y: 253577.818198	time: 0.000000
End	x: 859464.835107	y: 254477.235904	time: 7169.055532

Particle-trace #110

Coordinates of Particle-trace:

Start	x: 857324.764483	y: 253579.330676	time: 0.000000
End	x: 859447.637784	y: 254487.162534	time: 7185.191320

Particle-trace #111

Coordinates of Particle-trace:

Start	x: 857321.845425	y: 253580.486413	time: 0.000000
End	x: 859428.917837	y: 254496.471728	time: 7202.674286

Particle-trace #112

Coordinates of Particle-trace:

Start	x: 857318.804533	y: 253581.267181	time: 0.000000
End	x: 859409.101986	y: 254505.124996	time: 7221.898611

Particle-trace #113

Coordinates of Particle-trace:

Start	x: 857315.689764	y: 253581.660668	time: 0.000000
End	x: 859388.396159	y: 254513.166959	time: 7243.416311

Particle-trace #114

Coordinates of Particle-trace:

Start	x: 857312.550238	y: 253581.660668	time: 0.000000
End	x: 859366.767496	y: 254520.698872	time: 7267.774311

Particle-trace #115

Coordinates of Particle-trace:

Start	x: 857309.435468	y: 253581.267181	time: 0.000000
End	x: 859343.961385	y: 254527.850948	time: 7295.408922

Particle-trace #116

Coordinates of Particle-trace:

Start	x: 857306.394576	y: 253580.486413	time: 0.000000
End	x: 859319.539228	y: 254534.756035	time: 7005.675388

Particle-trace #117

Coordinates of Particle-trace:

Start	x: 857303.475518	y: 253579.330677	time: 0.000000
End	x: 859292.938566	y: 254541.522667	time: 7040.485786

Particle-trace #118

Coordinates of Particle-trace:

Start	x: 857300.724331	y: 253577.818199	time: 0.000000
End	x: 859263.570437	y: 254548.205403	time: 7078.605844

Particle-trace #119

Coordinates of Particle-trace:

Start	x: 857298.184401	y: 253575.972832	time: 0.000000
End	x: 859230.965482	y: 254554.775563	time: 7119.595933

Particle-trace #120

Coordinates of Particle-trace:

Start	x: 857295.895785	y: 253573.823678	time: 0.000000
End	x: 859194.934499	y: 254561.106531	time: 7163.134386

Particle-trace #121

Coordinates of Particle-trace:

Start	x: 857293.894576	y: 253571.404632	time: 0.000000
End	x: 859155.652364	y: 254566.989792	time: 7209.416294

Particle-trace #122

Coordinates of Particle-trace:

Start	x: 857292.212334	y: 253568.753843	time: 0.000000
End	x: 859113.599434	y: 254572.177758	time: 7259.178343

Particle-trace #123

Coordinates of Particle-trace:

Start	x: 857290.875588	y: 253565.913115	time: 0.000000
End	x: 859069.332026	y: 254576.434839	time: 6995.874847

Particle-trace #124

Coordinates of Particle-trace:

Start	x: 857289.905421	y: 253562.927248	time: 0.000000
End	x: 859022.982493	y: 254579.575275	time: 7055.709560

Particle-trace #125

Coordinates of Particle-trace:

Start	x: 857289.317133	y: 253559.843332	time: 0.000000
End	x: 858973.446992	y: 254581.426506	time: 7124.551374

Particle-trace #126

Coordinates of Particle-trace:

Start	x: 857289.120000	y: 253556.710001	time: 0.000000
End	x: 858917.166711	y: 254581.595582	time: 7213.032795

Particle-trace #127

Coordinates of Particle-trace:

Start	x: 857289.317132	y: 253553.576671	time: 0.000000
End	x: 858844.267371	y: 254578.624787	time: 7047.678939

Particle-trace #128

Coordinates of Particle-trace:

Start	x: 857289.905421	y: 253550.492754	time: 0.000000
End	x: 858677.186626	y: 254563.985330	time: 7017.421186

Particle-trace #129

Coordinates of Particle-trace:

Start	x: 857290.875587	y: 253547.506888	time: 0.000000
End	x: 859159.364489	y: 253182.872089	time: 7212.071299

Particle-trace #130

Coordinates of Particle-trace:

Start	x: 857292.212332	y: 253544.666160	time: 0.000000
End	x: 859301.738116	y: 253221.023086	time: 7071.913459

Particle-trace #131

Coordinates of Particle-trace:

Start	x: 857293.894574	y: 253542.015370	time: 0.000000
End	x: 859373.046824	y: 253245.294018	time: 7238.806688

Particle-trace #132

Coordinates of Particle-trace:
Start x: 857295.895783 y: 253539.596324 time: 0.000000
End x: 859421.048502 y: 253264.522657 time: 7169.719876

Particle-trace #133

Coordinates of Particle-trace:
Start x: 857298.184399 y: 253537.447170 time: 0.000000
End x: 859455.375560 y: 253280.404928 time: 7125.461394

Particle-trace #134

Coordinates of Particle-trace:
Start x: 857300.724329 y: 253535.601803 time: 0.000000
End x: 859480.395506 y: 253293.824552 time: 7097.384031

Particle-trace #135

Coordinates of Particle-trace:
Start x: 857303.475516 y: 253534.089324 time: 0.000000
End x: 859498.532281 y: 253305.367214 time: 7081.493204

Particle-trace #136

Coordinates of Particle-trace:
Start x: 857306.394573 y: 253532.933588 time: 0.000000
End x: 859511.112036 y: 253315.439463 time: 7076.366370

Particle-trace #137

Coordinates of Particle-trace:
Start x: 857309.435465 y: 253532.152819 time: 0.000000
End x: 859518.634958 y: 253324.289793 time: 7082.403790

Particle-trace #138

Coordinates of Particle-trace:
Start x: 857312.550235 y: 253531.759332 time: 0.000000
End x: 859520.787544 y: 253331.983919 time: 7101.700579

Particle-trace #139

Coordinates of Particle-trace:
Start x: 857315.689761 y: 253531.759332 time: 0.000000
End x: 859516.209427 y: 253338.331098 time: 7138.672292

Particle-trace #140

Coordinates of Particle-trace:
Start x: 857318.804531 y: 253532.152818 time: 0.000000
End x: 859501.793890 y: 253342.708840 time: 7202.017069

Particle-trace #141

Coordinates of Particle-trace:
Start x: 857321.845423 y: 253532.933586 time: 0.000000
End x: 859470.624214 y: 253343.586636 time: 7014.030309

Particle-trace #142

Coordinates of Particle-trace:
Start x: 857324.764480 y: 253534.089323 time: 0.000000
End x: 859403.984878 y: 253336.783341 time: 7219.930713

Particle-trace #143

Coordinates of Particle-trace:
Start x: 857327.515668 y: 253535.601801 time: 0.000000
End x: 859205.426495 y: 253303.816012 time: 7289.024676

Particle-trace #144

Coordinates of Particle-trace:
Start x: 857330.055598 y: 253537.447167 time: 0.000000
End x: 859050.554266 y: 254265.241467 time: 7095.626260

Particle-trace #145

Coordinates of Particle-trace:
Start x: 857332.344214 y: 253539.596321 time: 0.000000
End x: 859254.658636 y: 254306.401741 time: 7144.036515

Particle-trace #146

Coordinates of Particle-trace:
Start x: 857334.345423 y: 253542.015367 time: 0.000000
End x: 859346.954421 y: 254328.294826 time: 7215.078835

Particle-trace #147

Coordinates of Particle-trace:
Start x: 857336.027666 y: 253544.666156 time: 0.000000
End x: 859403.335369 y: 254344.846111 time: 7073.828114

Particle-trace #148

Coordinates of Particle-trace:
Start x: 857337.364411 y: 253547.506884 time: 0.000000
End x: 859441.042734 y: 254358.789080 time: 7297.692054

Particle-trace #149

Coordinates of Particle-trace:
Start x: 857338.334578 y: 253550.492750 time: 0.000000
End x: 859467.179817 y: 254371.171711 time: 7234.147419

Particle-trace #150

Coordinates of Particle-trace:
Start x: 857338.922867 y: 253553.576667 time: 0.000000
End x: 859485.429215 y: 254382.552944 time: 7189.394837

Particle-trace #151

Coordinates of Particle-trace:
Start x: 858256.460000 y: 253590.270000 time: 0.000000
End x: 860704.243726 y: 254012.247279 time: 7005.899109

Particle-trace #152

Coordinates of Particle-trace:
Start x: 858256.262868 y: 253593.403331 time: 0.000000
End x: 860701.067278 y: 254027.574967 time: 7010.704532

Particle-trace #153

Coordinates of Particle-trace:
Start x: 858255.674579 y: 253596.487247 time: 0.000000
End x: 860696.822603 y: 254043.045071 time: 7016.383353

Particle-trace #154

Coordinates of Particle-trace:
Start x: 858254.704412 y: 253599.473114 time: 0.000000
End x: 860691.410305 y: 254058.803996 time: 7022.557896

Particle-trace #155

Coordinates of Particle-trace:
Start x: 858253.367667 y: 253602.313842 time: 0.000000
End x: 860684.710000 y: 254074.938969 time: 7028.635128

Particle-trace #156

Coordinates of Particle-trace:
Start x: 858251.685425 y: 253604.964631 time: 0.000000
End x: 860676.608571 y: 254091.450830 time: 7033.880915

Particle-trace #157

Coordinates of Particle-trace:
Start x: 858249.684216 y: 253607.383677 time: 0.000000
End x: 860667.039705 y: 254108.231684 time: 7037.570083

Particle-trace #158

Coordinates of Particle-trace:
Start x: 858247.395600 y: 253609.532831 time: 0.000000
End x: 860656.023161 y: 254125.065921 time: 7039.200198

Particle-trace #159

Coordinates of Particle-trace:
Start x: 858244.855670 y: 253611.378198 time: 0.000000
End x: 860643.680652 y: 254141.670277 time: 7038.688663

Particle-trace #160

Coordinates of Particle-trace:
Start x: 858242.104483 y: 253612.890676 time: 0.000000
End x: 860630.210052 y: 254157.765494 time: 7036.440623

Particle-trace #161

Coordinates of Particle-trace:
Start x: 858239.185425 y: 253614.046413 time: 0.000000
End x: 860615.824793 y: 254173.146840 time: 7033.240335

Particle-trace #162

Coordinates of Particle-trace:
Start x: 858236.144533 y: 253614.827181 time: 0.000000
End x: 860600.686241 y: 254187.722758 time: 7030.032608

Particle-trace #163

Coordinates of Particle-trace:
Start x: 858233.029764 y: 253615.220668 time: 0.000000
End x: 860584.851865 y: 254201.517101 time: 7027.708632

Particle-trace #164

Coordinates of Particle-trace:
Start x: 858229.890238 y: 253615.220668 time: 0.000000
End x: 860568.242829 y: 254214.650072 time: 7026.964708

Particle-trace #165

Coordinates of Particle-trace:
Start x: 858226.775468 y: 253614.827181 time: 0.000000
End x: 860550.623602 y: 254227.312493 time: 7028.235341

Particle-trace #166

Coordinates of Particle-trace:
Start x: 858223.734576 y: 253614.046413 time: 0.000000
End x: 860531.587208 y: 254239.738459 time: 7031.672703

Particle-trace #167

Coordinates of Particle-trace:
Start x: 858220.815518 y: 253612.890677 time: 0.000000
End x: 860510.546119 y: 254252.173716 time: 7037.156931

Particle-trace #168

Coordinates of Particle-trace:
Start x: 858218.064331 y: 253611.378199 time: 0.000000
End x: 860486.739555 y: 254264.832372 time: 7044.365088

Particle-trace #169

Coordinates of Particle-trace:
Start x: 858215.524401 y: 253609.532832 time: 0.000000
End x: 860459.283357 y: 254277.833656 time: 7052.986929

Particle-trace #170

Coordinates of Particle-trace:
Start x: 858213.235785 y: 253607.383678 time: 0.000000
End x: 860427.295300 y: 254291.121683 time: 7063.179169

Particle-trace #171

Coordinates of Particle-trace:
Start x: 858211.234576 y: 253604.964632 time: 0.000000
End x: 860390.092633 y: 254304.401172 time: 7076.168240

Particle-trace #172

Coordinates of Particle-trace:
Start x: 858209.552334 y: 253602.313843 time: 0.000000
End x: 860347.343577 y: 254317.155196 time: 7094.698252

Particle-trace #173

Coordinates of Particle-trace:
Start x: 858208.215588 y: 253599.473115 time: 0.000000
End x: 860298.890027 y: 254328.791988 time: 7123.261558

Particle-trace #174

Coordinates of Particle-trace:
Start x: 858207.245421 y: 253596.487248 time: 0.000000
End x: 860243.940387 y: 254338.842143 time: 7168.491374

Particle-trace #175

Coordinates of Particle-trace:
Start x: 858206.657133 y: 253593.403332 time: 0.000000
End x: 860179.408330 y: 254347.003113 time: 7240.876032

Particle-trace #176

Coordinates of Particle-trace:
Start x: 858206.460000 y: 253590.270001 time: 0.000000
End x: 860095.983711 y: 254352.813034 time: 7017.438582

Particle-trace #177

Coordinates of Particle-trace:
Start x: 858206.657132 y: 253587.136671 time: 0.000000
End x: 859960.041925 y: 254353.832504 time: 6964.066711

Particle-trace #178

Coordinates of Particle-trace:
Start x: 858207.245421 y: 253584.052754 time: 0.000000
End x: 859715.321272 y: 253424.223445 time: 7235.245055

Particle-trace #179

Coordinates of Particle-trace:
Start x: 858208.215587 y: 253581.066888 time: 0.000000
End x: 860226.033246 y: 253562.164062 time: 7067.889402

Particle-trace #180

Coordinates of Particle-trace:
Start x: 858209.552332 y: 253578.226160 time: 0.000000
End x: 860351.576649 y: 253606.263181 time: 7166.739981

Particle-trace #181

Coordinates of Particle-trace:
Start x: 858211.234574 y: 253575.575370 time: 0.000000
End x: 860429.494228 y: 253639.815799 time: 7058.070304

Particle-trace #182

Coordinates of Particle-trace:
Start x: 858213.235783 y: 253573.156324 time: 0.000000
End x: 860484.824909 y: 253668.321482 time: 7001.129954

Particle-trace #183

Coordinates of Particle-trace:
Start x: 858215.524399 y: 253571.007170 time: 0.000000
End x: 860525.926727 y: 253693.122681 time: 6969.514859

Particle-trace #184

Coordinates of Particle-trace:
Start x: 858218.064329 y: 253569.161803 time: 0.000000
End x: 860557.343960 y: 253714.931616 time: 6950.621565

Particle-trace #185

Coordinates of Particle-trace:
Start x: 858220.815516 y: 253567.649324 time: 0.000000
End x: 860582.131292 y: 253734.462907 time: 7295.916121

Particle-trace #186

Coordinates of Particle-trace:
Start x: 858223.734573 y: 253566.493588 time: 0.000000
End x: 860602.403620 y: 253752.440623 time: 7290.361073

Particle-trace #187

Coordinates of Particle-trace:
Start x: 858226.775465 y: 253565.712819 time: 0.000000
End x: 860619.592804 y: 253769.530391 time: 7288.822309

Particle-trace #188

Coordinates of Particle-trace:
Start x: 858229.890235 y: 253565.319332 time: 0.000000
End x: 860634.630966 y: 253786.298382 time: 7290.984030

Particle-trace #189

Coordinates of Particle-trace:
Start x: 858233.029761 y: 253565.319332 time: 0.000000
End x: 860648.081428 y: 253803.189229 time: 7296.514180

Particle-trace #190

Coordinates of Particle-trace:
Start x: 858236.144531 y: 253565.712818 time: 0.000000
End x: 860660.230468 y: 253820.508118 time: 6942.139451

Particle-trace #191

Coordinates of Particle-trace:
Start x: 858239.185423 y: 253566.493586 time: 0.000000
End x: 860671.158408 y: 253838.403157 time: 6951.435406

Particle-trace #192

Coordinates of Particle-trace:
Start x: 858242.104480 y: 253567.649323 time: 0.000000
End x: 860680.806364 y: 253856.853186 time: 6961.641928

Particle-trace #193

Coordinates of Particle-trace:
Start x: 858244.855668 y: 253569.161801 time: 0.000000
End x: 860689.048223 y: 253875.673917 time: 6971.551024

Particle-trace #194

Coordinates of Particle-trace:
Start x: 858247.395598 y: 253571.007167 time: 0.000000
End x: 860695.766406 y: 253894.560214 time: 6980.110180

Particle-trace #195

Coordinates of Particle-trace:
Start x: 858249.684214 y: 253573.156321 time: 0.000000
End x: 860700.914190 y: 253913.170546 time: 6986.713469

Particle-trace #196

Coordinates of Particle-trace:
Start x: 858251.685423 y: 253575.575367 time: 0.000000
End x: 860704.539821 y: 253931.226774 time: 6991.344685

Particle-trace #197

Coordinates of Particle-trace:
Start x: 858253.367666 y: 253578.226156 time: 0.000000
End x: 860706.764939 y: 253948.581693 time: 6994.484238

Particle-trace #198

Coordinates of Particle-trace:

Start	x: 858254.704411	y: 253581.066884	time: 0.000000
End	x: 860707.737961	y: 253965.229245	time: 6996.861756

Particle-trace #199

Coordinates of Particle-trace:

Start	x: 858255.674578	y: 253584.052750	time: 0.000000
End	x: 860707.590878	y: 253981.272462	time: 6999.209223

Particle-trace #200

Coordinates of Particle-trace:

Start	x: 858256.262867	y: 253587.136667	time: 0.000000
End	x: 860706.413504	y: 253996.879556	time: 7002.103864

Particle-trace #201

Coordinates of Particle-trace:

Start	x: 853957.780000	y: 252834.450000	time: 0.000000
End	x: 856666.742460	y: 254069.731983	time: 6995.569768

Particle-trace #202

Coordinates of Particle-trace:

Start	x: 853957.582868	y: 252837.583331	time: 0.000000
End	x: 856676.820446	y: 254241.650270	time: 6791.030186

Particle-trace #203

Coordinates of Particle-trace:

Start	x: 853956.994579	y: 252840.667247	time: 0.000000
End	x: 856641.793318	y: 254268.670954	time: 6709.959388

Particle-trace #204

Coordinates of Particle-trace:

Start	x: 853956.024412	y: 252843.653114	time: 0.000000
End	x: 856621.846084	y: 254200.455294	time: 6645.860311

Particle-trace #205

Coordinates of Particle-trace:

Start	x: 853954.687667	y: 252846.493842	time: 0.000000
End	x: 856681.540261	y: 254233.521583	time: 6591.946365

Particle-trace #206

Coordinates of Particle-trace:

Start	x: 853953.005425	y: 252849.144631	time: 0.000000
End	x: 856691.935865	y: 254280.915539	time: 6545.184154

Particle-trace #207

Coordinates of Particle-trace:

Start	x: 853951.004216	y: 252851.563677	time: 0.000000
End	x: 856704.860986	y: 254338.036688	time: 6504.463262

Particle-trace #208

Coordinates of Particle-trace:

Start	x: 853948.715600	y: 252853.712831	time: 0.000000
End	x: 856763.234302	y: 254399.216314	time: 6469.638039

Particle-trace #209

Coordinates of Particle-trace:
Start x: 853946.175670 y: 252855.558198 time: 0.000000
End x: 856981.850029 y: 254235.968408 time: 6440.875529

Particle-trace #210

Coordinates of Particle-trace:
Start x: 853943.424483 y: 252857.070676 time: 0.000000
End x: 856774.156345 y: 254161.879329 time: 6418.190073

Particle-trace #211

Coordinates of Particle-trace:
Start x: 853940.505425 y: 252858.226413 time: 0.000000
End x: 856743.268324 y: 254161.829780 time: 6401.252430

Particle-trace #212

Coordinates of Particle-trace:
Start x: 853937.464533 y: 252859.007181 time: 0.000000
End x: 856741.189006 y: 254157.548453 time: 6389.472727

Particle-trace #213

Coordinates of Particle-trace:
Start x: 853934.349764 y: 252859.400668 time: 0.000000
End x: 856756.512228 y: 254148.205316 time: 6382.198173

Particle-trace #214

Coordinates of Particle-trace:
Start x: 853931.210238 y: 252859.400668 time: 0.000000
End x: 856799.637599 y: 254164.432062 time: 6378.873800

Particle-trace #215

Coordinates of Particle-trace:
Start x: 853928.095468 y: 252859.007181 time: 0.000000
End x: 856930.315511 y: 254230.275014 time: 6379.125456

Particle-trace #216

Coordinates of Particle-trace:
Start x: 853925.054576 y: 252858.226413 time: 0.000000
End x: 856866.737384 y: 254319.778449 time: 6382.787849

Particle-trace #217

Coordinates of Particle-trace:
Start x: 853922.135518 y: 252857.070677 time: 0.000000
End x: 856764.857424 y: 254365.933291 time: 6389.897261

Particle-trace #218

Coordinates of Particle-trace:
Start x: 853919.384331 y: 252855.558199 time: 0.000000
End x: 856723.326299 y: 254335.743454 time: 6400.646518

Particle-trace #219

Coordinates of Particle-trace:
Start x: 853916.844401 y: 252853.712832 time: 0.000000
End x: 856700.932654 y: 254296.425429 time: 6415.302655

Particle-trace #220

Coordinates of Particle-trace:
Start x: 853914.555785 y: 252851.563678 time: 0.000000
End x: 856682.433927 y: 254260.729096 time: 6434.154153

Particle-trace #221

Coordinates of Particle-trace:
Start x: 853912.554576 y: 252849.144632 time: 0.000000
End x: 856664.659125 y: 254382.758411 time: 6499.552416

Particle-trace #222

Coordinates of Particle-trace:
Start x: 853910.872334 y: 252846.493843 time: 0.000000
End x: 856527.196218 y: 254262.482222 time: 6486.719627

Particle-trace #223

Coordinates of Particle-trace:
Start x: 853909.535588 y: 252843.653115 time: 0.000000
End x: 856664.461035 y: 254288.145905 time: 6523.061468

Particle-trace #224

Coordinates of Particle-trace:
Start x: 853908.565421 y: 252840.667248 time: 0.000000
End x: 856661.542034 y: 254241.862942 time: 6568.931563

Particle-trace #225

Coordinates of Particle-trace:
Start x: 853907.977133 y: 252837.583332 time: 0.000000
End x: 856678.274994 y: 254452.803507 time: 6672.754455

Particle-trace #226

Coordinates of Particle-trace:
Start x: 853907.780000 y: 252834.450001 time: 0.000000
End x: 856655.771562 y: 254317.819005 time: 6952.560351

Particle-trace #227

Coordinates of Particle-trace:
Start x: 853907.977132 y: 252831.316671 time: 0.000000
End x: 856696.233870 y: 254283.676784 time: 6900.727425

Particle-trace #228

Coordinates of Particle-trace:
Start x: 853908.565421 y: 252828.232754 time: 0.000000
End x: 856517.227210 y: 254266.579212 time: 7212.182447

Particle-trace #229

Coordinates of Particle-trace:
Start x: 853909.535587 y: 252825.246888 time: 0.000000
End x: 856734.775708 y: 252614.335840 time: 6465.165965

Particle-trace #230

Coordinates of Particle-trace:
Start x: 853910.872332 y: 252822.406160 time: 0.000000
End x: 856738.717168 y: 252876.585813 time: 6227.819718

Particle-trace #231

Coordinates of Particle-trace:
Start x: 853912.554574 y: 252819.755370 time: 0.000000
End x: 856739.254727 y: 252692.403207 time: 6049.943267

Particle-trace #232

Coordinates of Particle-trace:
Start x: 853914.555783 y: 252817.336324 time: 0.000000
End x: 856773.197110 y: 252648.136166 time: 5982.970044

Particle-trace #233

Coordinates of Particle-trace:
Start x: 853916.844399 y: 252815.187170 time: 0.000000
End x: 856886.738461 y: 252632.478147 time: 5940.693354

Particle-trace #234

Coordinates of Particle-trace:
Start x: 853919.384329 y: 252813.341803 time: 0.000000
End x: 856815.794756 y: 252801.535822 time: 5912.540664

Particle-trace #235

Coordinates of Particle-trace:
Start x: 853922.135516 y: 252811.829324 time: 0.000000
End x: 856683.488616 y: 252660.612614 time: 5950.633488

Particle-trace #236

Coordinates of Particle-trace:
Start x: 853925.054573 y: 252810.673588 time: 0.000000
End x: 856742.668831 y: 252695.859886 time: 5881.950715

Particle-trace #237

Coordinates of Particle-trace:
Start x: 853928.095465 y: 252809.892819 time: 0.000000
End x: 856737.270667 y: 252667.972108 time: 5875.887291

Particle-trace #238

Coordinates of Particle-trace:
Start x: 853931.210235 y: 252809.499332 time: 0.000000
End x: 856732.497926 y: 252646.595676 time: 5875.037530

Particle-trace #239

Coordinates of Particle-trace:
Start x: 853934.349761 y: 252809.499332 time: 0.000000
End x: 856727.824298 y: 252630.286392 time: 5879.448807

Particle-trace #240

Coordinates of Particle-trace:
Start x: 853937.464531 y: 252809.892818 time: 0.000000
End x: 856724.181026 y: 252621.612892 time: 5889.647741

Particle-trace #241

Coordinates of Particle-trace:
Start x: 853940.505423 y: 252810.673586 time: 0.000000
End x: 856723.528911 y: 252624.650322 time: 5906.561337

Particle-trace #242

Coordinates of Particle-trace:
Start x: 853943.424480 y: 252811.829323 time: 0.000000
End x: 856727.738193 y: 252642.170963 time: 5931.405706

Particle-trace #243

Coordinates of Particle-trace:
Start x: 853946.175668 y: 252813.341801 time: 0.000000
End x: 856737.922269 y: 252675.178191 time: 5965.516263

Particle-trace #244

Coordinates of Particle-trace:
Start x: 853948.715598 y: 252815.187167 time: 0.000000
End x: 856604.402101 y: 252675.132539 time: 6065.453822

Particle-trace #245

Coordinates of Particle-trace:
Start x: 853951.004214 y: 252817.336321 time: 0.000000
End x: 857024.833627 y: 252869.981075 time: 7003.268422

Particle-trace #246

Coordinates of Particle-trace:
Start x: 853953.005423 y: 252819.755367 time: 0.000000
End x: 856782.644012 y: 252597.772618 time: 6140.169782

Particle-trace #247

Coordinates of Particle-trace:
Start x: 853954.687666 y: 252822.406156 time: 0.000000
End x: 856749.055725 y: 252678.380958 time: 6237.718819

Particle-trace #248

Coordinates of Particle-trace:
Start x: 853956.024411 y: 252825.246884 time: 0.000000
End x: 856674.563463 y: 252743.459940 time: 6380.824075

Particle-trace #249

Coordinates of Particle-trace:
Start x: 853956.994578 y: 252828.232750 time: 0.000000
End x: 856728.318310 y: 252718.596715 time: 6757.394763

Particle-trace #250

Coordinates of Particle-trace:
Start x: 853957.582867 y: 252831.316667 time: 0.000000
End x: 856694.137369 y: 254328.890835 time: 7155.334973

B2

Base Boundary Single Well – WINFLOW Capture Analysis

WinFlow
Analytical Model of 2D Ground-Water Flow

Developed by

James O. Rumbaugh, III

Douglas B. Rumbaugh

Date: 5/13/2013
Time: 07:14:53.00

Input File: ANALSOL_NOV2012_LEADING_EDGEREV1.AQF
Map File : ♀

Model Entities

Number of Linesinks Defined by Infiltration Rate = 0

Number of Linesinks Defined by Head = 0

Number of Ponds = 0

Number of Wells = 1

Well #1
Center of Well -- x: 849325.000000 y: 253288.000000
Radius = 0.250000 ft
Pumping Rate = 65.000000 gal/min
Head at Well Radius = 43.644359 ft

Reference Head = 53.240000 ft Defined at -- x: 851364.010000 y: 252616.060000

Calibration Targets

Target Head	Computed Head	Residual	Well Name
46.36	45.73	0.6263	"XX9514"
47.10	45.95	1.1476	"PZD1001"
37.20	39.52	-2.3190	"MW-558M2"
39.71	41.11	-1.3992	"MW-556M1"
42.96	42.74	0.2171	"MW-554M2"
45.64	44.97	0.6737	"MW-546M1"
45.51	44.31	1.2005	"MW-545M1"
45.48	44.71	0.7678	"MW-544M1"
45.42	44.76	0.6601	"MW-543M1"
52.28	51.68	0.6041	"MW-542M1"
53.24	52.88	0.3638	"MW-533M1"
52.24	51.81	0.4278	"MW-532M2"
52.63	52.34	0.2920	"MW-531M1"
47.90	46.81	1.0925	"MW-353M1"
48.49	47.35	1.1394	"MW-352M1"
57.92	58.34	-0.4213	"MW-231M3"
57.60	57.89	-0.2943	"MW-225M3"
44.14	43.57	0.5654	"D1-EW-3"
57.06	57.24	-0.1846	"MW-240M2"
53.58	53.09	0.4937	"MW-248M3"
54.22	53.81	0.4068	"MW-252M2"

Number of Targets = 21
Residual Mean = 0.288586
Residual Standard Deviation = 0.832312
Residual Sum of Squares = 16.296529
Absolute Residual Mean = 0.728427
Minimum Residual = -2.318984
Maximum Residual = 1.200491
Observed Range in Head = 20.720000
Resid. Std./Range in Head = 0.040170

♀===
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Aquifer Properties

.... Steady-State Flow Model ....

Permeability.....= 100.000000 ft/d
Porosity.....= 0.300000
Elevation of Aquifer Top....= 0.000000 ft
Elevation of Aquifer Bottom.= -100.000000 ft
Uniform Regional Gradient...= 0.003700
Angle of Uniform Gradient...= 170.000000
Recharge.....= 0.000000 ft/d

♀===
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Contour Matrix

Number of nodes in the X-direction = 100
Number of nodes in the Y-direction = 100

Minimum X Coordinate = 848878.000000 ft
Minimum Y Coordinate = 252000.000000 ft

Maximum X Coordinate = 853378.000000 ft
Maximum Y Coordinate = 254000.000000 ft

Minimum Head = 43.105607 ft
Maximum Head = 61.110505 ft

CONTOUR GRID -----

Row 1

44.486894	44.650432	44.814157	44.978079	45.142210
45.306560	45.471136	45.635948	45.800999	45.966296
46.131840	46.297632	46.463670	46.629952	46.796473
46.963226	47.130204	47.297397	47.464795	47.632387
47.800161	47.968105	48.136205	48.304450	48.472826
48.641321	48.809924	48.978621	49.147403	49.316258
49.485177	49.654149	49.823167	49.992222	50.161306
50.330413	50.499537	50.668671	50.837811	51.006951
51.176089	51.345218	51.514338	51.683443	51.852533
52.021603	52.190653	52.359680	52.528684	52.697661
52.866612	53.035536	53.204431	53.373297	53.542133
53.710939	53.879714	54.048459	54.217173	54.385856
54.554508	54.723129	54.891719	55.060278	55.228807
55.397306	55.565774	55.734212	55.902621	56.071000
56.239350	56.407672	56.575965	56.744231	56.912468
57.080679	57.248862	57.417020	57.585150	57.753256
57.921335	58.089390	58.257420	58.425426	58.593407
58.761366	58.929301	59.097213	59.265103	59.432971
59.600817	59.768641	59.936444	60.104227	60.271989
60.439731	60.607454	60.775156	60.942840	61.110505

Row 2

44.471109	44.634587	44.798256	44.962127	45.126212
45.290522	45.455065	45.619851	45.784885	45.950171
46.115712	46.281509	46.447561	46.613864	46.780413
46.947201	47.114220	47.281461	47.448912	47.616561
47.784397	47.952405	48.120573	48.288888	48.457335
48.625903	48.794578	48.963348	49.132202	49.301129
49.470118	49.639160	49.808246	49.977367	50.146516
50.315686	50.484870	50.654063	50.823260	50.992455
51.161645	51.330826	51.499994	51.669147	51.838282
52.007396	52.176487	52.345555	52.514596	52.683611
52.852597	53.021555	53.190482	53.359379	53.528245
53.697080	53.865883	54.034654	54.203393	54.372100
54.540776	54.709419	54.878031	55.046611	55.215159
55.383677	55.552163	55.720619	55.889045	56.057440
56.225806	56.394143	56.562451	56.730730	56.898982
57.067205	57.235401	57.403570	57.571713	57.739829
57.907920	58.075985	58.244025	58.412041	58.580032
58.748000	58.915944	59.083864	59.251763	59.419638
59.587492	59.755324	59.923135	60.090924	60.258693
60.426442	60.594171	60.761880	60.929570	61.097240

Row 3

44.455289	44.618704	44.782314	44.946132	45.110169
45.274438	45.438947	45.603705	45.768720	45.933995
46.099533	46.265336	46.431401	46.597726	46.764305
46.931130	47.098193	47.265483	47.432990	47.600699
47.768599	47.936675	48.104913	48.273300	48.441821
48.610463	48.779213	48.948058	49.116987	49.285987
49.455049	49.624162	49.793317	49.962506	50.131721
50.300955	50.470202	50.639455	50.808709	50.977960
51.147204	51.316436	51.485654	51.654855	51.824035
51.993193	52.162327	52.331434	52.500515	52.669566
52.838588	53.007579	53.176540	53.345468	53.514364
53.683227	53.852058	54.020855	54.189620	54.358351
54.527050	54.695716	54.864349	55.032949	55.201517
55.370054	55.538559	55.707032	55.875475	56.043887
56.212268	56.380620	56.548942	56.717236	56.885500
57.053737	57.221945	57.390127	57.558281	57.726408
57.894510	58.062585	58.230636	58.398661	58.566662
58.734638	58.902591	59.070520	59.238427	59.406310
59.574172	59.742011	59.909829	60.077626	60.245402
60.413157	60.580892	60.748607	60.916303	61.083980

Row 4

44.439433	44.602783	44.766332	44.930094	45.094081
45.258306	45.422779	45.587509	45.752503	45.917767
46.083302	46.249111	46.415191	46.581538	46.748148
46.915012	47.082121	47.249463	47.417027	47.584799
47.752765	47.920912	48.089223	48.257685	48.426283
48.595002	48.763830	48.932752	49.101758	49.270834
49.439970	49.609156	49.778382	49.947641	50.116923
50.286222	50.455532	50.624846	50.794159	50.963467
51.132765	51.302049	51.471317	51.640566	51.809792
51.978995	52.148171	52.317319	52.486438	52.655527
52.824585	52.993610	53.162603	53.331563	53.500489
53.669381	53.838239	54.007063	54.175853	54.344609
54.513330	54.682018	54.850673	55.019294	55.187882
55.356437	55.524960	55.693451	55.861911	56.030339
56.198736	56.367103	56.535439	56.703747	56.872025
57.040274	57.208495	57.376688	57.544854	57.712992
57.881104	58.049190	58.217251	58.385286	58.553296
58.721281	58.889243	59.057181	59.225095	59.392987
59.560856	59.728703	59.896528	60.064331	60.232114
60.399876	60.567617	60.735339	60.903040	61.070723

Row 5

44.423541	44.586822	44.750307	44.914011	45.077946
45.242125	45.406560	45.571261	45.736234	45.901485
46.067017	46.232832	46.398927	46.565299	46.731941
46.898846	47.066002	47.233399	47.401023	47.568861
47.736897	47.905116	48.073504	48.242043	48.410720
48.579520	48.748428	48.917430	49.086514	49.255668
49.424881	49.594142	49.763441	49.932771	50.102122
50.271487	50.440861	50.610237	50.779610	50.948975
51.118328	51.287666	51.456985	51.626282	51.795555
51.964802	52.134021	52.303210	52.472368	52.641494
52.810588	52.979648	53.148673	53.317664	53.486620
53.655541	53.824427	53.993277	54.162093	54.330873
54.499618	54.668328	54.837004	55.005645	55.174253
55.342827	55.511368	55.679877	55.848353	56.016797
56.185210	56.353591	56.521942	56.690263	56.858554
57.026817	57.195050	57.363255	57.531432	57.699582
57.867704	58.035801	58.203871	58.371915	58.539935
58.707929	58.875899	59.043845	59.211768	59.379667

59.547544	59.715398	59.883231	60.051041	60.218830
60.386599	60.554346	60.722074	60.889781	61.057469

Row 6

44.407611	44.570821	44.734240	44.897882	45.061762
45.225894	45.390289	45.554958	45.719909	45.885148
46.050677	46.216498	46.382609	46.549006	46.715682
46.882629	47.049836	47.217290	47.384977	47.552883
47.720992	47.889288	48.057754	48.226375	48.395134
48.564016	48.733007	48.902091	49.071257	49.240491
49.409783	49.579120	49.748494	49.917896	50.087317
50.256751	50.426190	50.595629	50.765062	50.934486
51.103895	51.273286	51.442656	51.612002	51.781322
51.950614	52.119876	52.289107	52.458304	52.627468
52.796598	52.965692	53.134750	53.303773	53.472759
53.641709	53.810622	53.979499	54.148339	54.317143
54.485912	54.654644	54.823341	54.992003	55.160631
55.329224	55.497783	55.666309	55.834801	56.003261
56.171689	56.340086	56.508451	56.676786	56.845090
57.013365	57.181610	57.349827	57.518016	57.686176
57.854310	58.022416	58.190496	58.358550	58.526579
58.694582	58.862561	59.030515	59.198446	59.366353
59.534237	59.702098	59.869938	60.037755	60.205551
60.373326	60.541079	60.708813	60.876526	61.044220

Row 7

44.391644	44.554779	44.718128	44.881706	45.045529
45.209611	45.373964	45.538600	45.703528	45.868753
46.034278	46.200106	46.366234	46.532658	46.699370
46.866362	47.033621	47.201135	47.368888	47.536865
47.705050	47.873425	48.041974	48.210679	48.379523
48.548491	48.717567	48.886737	49.055986	49.225303
49.394675	49.564091	49.733542	49.903018	50.072510
50.242013	50.411519	50.581022	50.750517	50.919999
51.089465	51.258910	51.428332	51.597728	51.767096
51.936433	52.105738	52.275010	52.444247	52.613449
52.782614	52.951743	53.120835	53.289889	53.458905
53.627884	53.796824	53.965727	54.134593	54.303421
54.472213	54.640967	54.809686	54.978368	55.147015
55.315627	55.484204	55.652747	55.821256	55.989732
56.158175	56.326587	56.494966	56.663314	56.831632
56.999919	57.168177	57.336405	57.504605	57.672776
57.840920	58.009037	58.177126	58.345190	58.513227
58.681240	58.849227	59.017189	59.185128	59.353043
59.520934	59.688803	59.856649	60.024473	60.192276
60.360057	60.527817	60.695556	60.863275	61.030974

Row 8

44.375638	44.538695	44.701971	44.865482	45.029244
45.193274	45.357583	45.522185	45.687088	45.852298
46.017820	46.183655	46.349801	46.516253	46.683003
46.850041	47.017356	47.184932	47.352755	47.520807
47.689071	47.857529	48.026163	48.194955	48.363888
48.532944	48.702109	48.871367	49.040703	49.210104
49.379559	49.549055	49.718584	49.888136	50.057702
50.227275	50.396848	50.566417	50.735974	50.905516
51.075039	51.244539	51.414013	51.583459	51.752875
51.922258	52.091606	52.260920	52.430197	52.599437
52.768638	52.937802	53.106926	53.276012	53.445058
53.614066	53.783034	53.951963	54.120854	54.289707

54.458521	54.627298	54.796037	54.964740	55.133406
55.302037	55.470632	55.639192	55.807718	55.976209
56.144668	56.313094	56.481487	56.649849	56.818179
56.986479	57.154749	57.322989	57.491200	57.659382
57.827536	57.995663	58.163762	58.331835	58.499881
58.667902	58.835898	59.003868	59.171815	59.339737
59.507636	59.675512	59.843365	60.011196	60.179004
60.346792	60.514558	60.682303	60.850028	61.017733

Row 9

44.359592	44.522568	44.685768	44.849208	45.012907
45.176881	45.341145	45.505710	45.670586	45.835782
46.001301	46.167143	46.333307	46.499789	46.666578
46.833666	47.001039	47.168681	47.336576	47.504706
47.673053	47.841597	48.010321	48.179203	48.348228
48.517377	48.686633	48.855981	49.025406	49.194894
49.364434	49.534013	49.703622	49.873251	50.042892
50.212537	50.382179	50.551813	50.721434	50.891037
51.060618	51.230173	51.399700	51.569197	51.738660
51.908089	52.077482	52.246837	52.416154	52.585432
52.754670	52.923868	53.093026	53.262143	53.431219
53.600256	53.769251	53.938207	54.107123	54.276000
54.444837	54.613636	54.782396	54.951119	55.119805
55.288454	55.457067	55.625644	55.794186	55.962693
56.131167	56.299607	56.468014	56.636389	56.804733
56.973045	57.141327	57.309578	57.477800	57.645993
57.814157	57.982294	58.150403	58.318485	58.486540
58.654570	58.822574	58.990552	59.158506	59.326436
59.494342	59.662225	59.830085	59.997922	60.165738
60.333531	60.501303	60.669054	60.836785	61.004495

Row 10

44.343506	44.506397	44.669516	44.832883	44.996516
45.160432	45.324646	45.489173	45.654022	45.819202
45.984717	46.150567	46.316751	46.483263	46.650095
46.817235	46.984668	47.152379	47.320351	47.488563
47.656996	47.825631	47.994447	48.163424	48.332544
48.501788	48.671139	48.840580	49.010096	49.179675
49.349302	49.518966	49.688656	49.858364	50.028081
50.197799	50.367511	50.537213	50.706898	50.876562
51.046201	51.215813	51.385393	51.554941	51.724453
51.893928	52.063365	52.232762	52.402119	52.571435
52.740709	52.909942	53.079133	53.248282	53.417388
53.586453	53.755477	53.924459	54.093400	54.262300
54.431161	54.599981	54.768763	54.937506	55.106211
55.274878	55.443508	55.612102	55.780661	55.949184
56.117672	56.286127	56.454548	56.622936	56.791293
56.959617	57.127910	57.296173	57.464406	57.632610
57.800784	57.968931	58.137049	58.305140	58.473204
58.641242	58.809254	58.977241	59.145203	59.313140
59.481054	59.648943	59.816810	59.984654	60.152475
60.320275	60.488053	60.655809	60.823545	60.991261

Row 11

44.327379	44.490181	44.653216	44.816505	44.980068
45.143923	45.308086	45.472572	45.637393	45.802556
45.968066	46.133925	46.300130	46.466675	46.633551
46.800745	46.968243	47.136027	47.304078	47.472376
47.640900	47.809628	47.978541	48.147617	48.316835
48.486178	48.655626	48.825164	48.994775	49.164445

49.334162	49.503913	49.673687	49.843476	50.013270
50.183062	50.352846	50.522615	50.692365	50.862092
51.031790	51.201458	51.371093	51.540692	51.710253
51.879774	52.049255	52.218695	52.388092	52.557446
52.726757	52.896025	53.065249	53.234429	53.403566
53.572659	53.741710	53.910718	54.079684	54.248609
54.417492	54.586334	54.755137	54.923900	55.092624
55.261309	55.429957	55.598568	55.767143	55.935681
56.104185	56.272653	56.441088	56.609490	56.777859
56.946195	57.114500	57.282774	57.451018	57.619232
57.787417	57.955573	58.123701	58.291801	58.459874
58.627920	58.795940	58.963935	59.131904	59.299849
59.467769	59.635666	59.803539	59.971389	60.139217
60.307022	60.474806	60.642569	60.810310	60.978031

Row 12

44.311210	44.473919	44.636866	44.800074	44.963563
45.127353	45.291462	45.455906	45.620696	45.785841
45.951347	46.117215	46.283442	46.450021	46.616944
46.784196	46.951761	47.119621	47.287756	47.456144
47.624763	47.793590	47.962603	48.131781	48.301102
48.470547	48.640096	48.809733	48.979442	49.149207
49.319015	49.488855	49.658715	49.828586	49.998459
50.168327	50.338183	50.508022	50.677838	50.847627
51.017386	51.187111	51.356800	51.526450	51.696060
51.865628	52.035154	52.204636	52.374073	52.543466
52.712814	52.882116	53.051373	53.220585	53.389752
53.558874	53.727952	53.896986	54.065977	54.234925
54.403831	54.572695	54.741519	54.910301	55.079044
55.247748	55.416413	55.585041	55.753632	55.922185
56.090704	56.259187	56.427635	56.596050	56.764431
56.932780	57.101096	57.269382	57.437636	57.605860
57.774055	57.942221	58.110358	58.278467	58.446548
58.614603	58.782631	58.950633	59.118610	59.286562
59.454490	59.622393	59.790273	59.958129	60.125963
60.293774	60.461564	60.629332	60.797079	60.964805

Row 13

44.294998	44.457610	44.620464	44.783586	44.946998
45.110720	45.274772	45.439171	45.603928	45.769055
45.934556	46.100433	46.266683	46.433300	46.600272
46.767585	46.935221	47.103162	47.271384	47.439867
47.608584	47.777514	47.946633	48.115917	48.285345
48.454895	48.624549	48.794289	48.964098	49.133960
49.303863	49.473793	49.643741	49.813696	49.983649
50.153594	50.323524	50.493433	50.663316	50.833168
51.002988	51.172770	51.342514	51.512216	51.681876
51.851491	52.021062	52.190586	52.360064	52.529495
52.698879	52.868216	53.037506	53.206749	53.375946
53.545097	53.714202	53.883263	54.052278	54.221250
54.390179	54.559065	54.727908	54.896711	55.065473
55.234195	55.402877	55.571521	55.740128	55.908697
56.077230	56.245727	56.414188	56.582616	56.751010
56.919370	57.087698	57.255995	57.424260	57.592494
57.760699	57.928874	58.097020	58.265138	58.433228
58.601291	58.769327	58.937337	59.105321	59.273280
59.441215	59.609125	59.777011	59.944874	60.112714
60.280531	60.448326	60.616100	60.783852	60.951583

Row 14

44.278743	44.441252	44.604010	44.767042	44.930372
45.094022	45.258014	45.422365	45.587088	45.752195
45.917691	46.083578	46.249853	46.416508	46.583532
46.750909	46.918621	47.086646	47.254961	47.423543
47.592364	47.761402	47.930630	48.100024	48.269563
48.439223	48.608986	48.778831	48.948743	49.118705
49.288704	49.458728	49.628765	49.798806	49.968841
50.138865	50.308869	50.478849	50.648799	50.818716
50.988597	51.158437	51.328236	51.497991	51.667700
51.837363	52.006978	52.176545	52.346063	52.515533
52.684953	52.854325	53.023648	53.192923	53.362150
53.531329	53.700462	53.869548	54.038588	54.207584
54.376535	54.545442	54.714306	54.883128	55.051909
55.220649	55.389349	55.558009	55.726631	55.895215
56.063763	56.232273	56.400749	56.569189	56.737595
56.905967	57.074307	57.242614	57.410890	57.579134
57.747349	57.915533	58.083688	58.251815	58.419913
58.587984	58.756028	58.924046	59.092037	59.260003
59.427945	59.595861	59.763754	59.931623	60.099469
60.267292	60.435093	60.602871	60.770629	60.938365

Row 15

44.262444	44.424846	44.587501	44.750438	44.913682
45.077257	45.241185	45.405485	45.570172	45.735257
45.900748	46.066646	46.232947	46.399643	46.566723
46.734168	46.901959	47.070073	47.238486	47.407171
47.576102	47.745251	47.914594	48.084104	48.253757
48.423531	48.593405	48.763360	48.933378	49.103443
49.273541	49.443660	49.613789	49.783917	49.954036
50.124139	50.294219	50.464271	50.634290	50.804272
50.974214	51.144113	51.313967	51.483775	51.653534
51.823244	51.992904	52.162514	52.332073	52.501581
52.671038	52.840444	53.009800	53.179106	53.348363
53.517571	53.686730	53.855842	54.024907	54.193926
54.362899	54.531828	54.700713	54.869554	55.038353
55.207111	55.375828	55.544505	55.713142	55.881741
56.050303	56.218827	56.387316	56.555769	56.724187
56.892571	57.060922	57.229240	57.397526	57.565780
57.734004	57.902198	58.070362	58.238497	58.406604
58.574683	58.742735	58.910760	59.078758	59.246732
59.414679	59.582602	59.750501	59.918376	60.086228
60.254057	60.421863	60.589648	60.757410	60.925152

Row 16

44.246100	44.408389	44.570937	44.733774	44.896927
45.060422	45.224282	45.388528	45.553177	45.718240
45.883725	46.049634	46.215963	46.382703	46.549841
46.717358	46.885233	47.053441	47.221957	47.390751
47.559796	47.729063	47.898525	48.068155	48.237927
48.407819	48.577809	48.747876	48.918004	49.088174
49.258374	49.428591	49.598813	49.769030	49.939234
50.109417	50.279574	50.449699	50.619787	50.789835
50.959839	51.129797	51.299707	51.469568	51.639377
51.809135	51.978840	52.148493	52.318092	52.487638
52.657132	52.826573	52.995962	53.165299	53.334586
53.503822	53.673008	53.842146	54.011235	54.180277
54.349273	54.518222	54.687127	54.855988	55.024806
55.193581	55.362315	55.531008	55.699661	55.868275
56.036850	56.205389	56.373890	56.542355	56.710786
56.879181	57.047543	57.215872	57.384168	57.552432
57.720666	57.888869	58.057042	58.225185	58.393300
58.561387	58.729446	58.897479	59.065485	59.233465

59.401419	59.569349	59.737254	59.905135	60.072992
60.240827	60.408638	60.576428	60.744196	60.911942

Row 17

44.229710	44.391880	44.554316	44.717048	44.880105
45.043514	45.207303	45.371492	45.536100	45.701139
45.866619	46.032539	46.198898	46.365684	46.532884
46.700477	46.868441	47.036749	47.205372	47.374282
47.543446	47.712836	47.882423	48.052177	48.222074
48.392088	48.562197	48.732381	48.902621	49.072900
49.243204	49.413520	49.583837	49.754145	49.924436
50.094701	50.264936	50.435135	50.605293	50.775407
50.945474	51.115491	51.285458	51.455371	51.625231
51.795036	51.964787	52.134482	52.304122	52.473707
52.643237	52.812712	52.982134	53.151503	53.320819
53.490083	53.659296	53.828459	53.997573	54.166638
54.335655	54.504626	54.673551	54.842431	55.011267
55.180059	55.348810	55.517519	55.686187	55.854816
56.023405	56.191957	56.360471	56.528949	56.697391
56.865798	57.034171	57.202510	57.370817	57.539091
57.707333	57.875545	58.043727	58.211879	58.380002
58.548097	58.716164	58.884203	59.052216	59.220203
59.388164	59.556099	59.724011	59.891897	60.059761
60.227601	60.395418	60.563212	60.730985	60.898736

Row 18

44.213274	44.375320	44.537637	44.700257	44.863212
45.026532	45.190244	45.354373	45.518937	45.683952
45.849425	46.015358	46.181748	46.348583	46.515849
46.683523	46.851581	47.019994	47.188732	47.357762
47.527052	47.696571	47.866287	48.036172	48.206198
48.376338	48.546571	48.716875	48.887230	49.057621
49.228032	49.398450	49.568864	49.739264	49.909642
50.079991	50.250305	50.420578	50.590807	50.760988
50.931118	51.101195	51.271218	51.441185	51.611096
51.780949	51.950744	52.120482	52.290162	52.459786
52.629352	52.798862	52.968317	53.137716	53.307062
53.476354	53.645594	53.814782	53.983920	54.153008
54.322047	54.491038	54.659983	54.828882	54.997736
55.166546	55.335313	55.504038	55.672721	55.841364
56.009968	56.178533	56.347060	56.515550	56.684004
56.852422	57.020805	57.189155	57.357471	57.525755
57.694007	57.862228	58.030418	58.198578	58.366709
58.534812	58.702886	58.870933	59.038952	59.206946
59.374913	59.542855	59.710772	59.878665	60.046534
60.214379	60.382202	60.550001	60.717779	60.885535

Row 19

44.196790	44.358705	44.520897	44.683400	44.846248
45.009472	45.173104	45.337168	45.501686	45.666673
45.832139	45.998086	46.164510	46.331398	46.498733
46.666494	46.834651	47.003175	47.172033	47.341190
47.510613	47.680266	47.850119	48.020139	48.190299
48.360571	48.530931	48.701358	48.871833	49.042338
49.212858	49.383380	49.553893	49.724388	49.894855
50.065288	50.235682	50.406031	50.576331	50.746579
50.916773	51.086910	51.256990	51.427010	51.596971
51.766872	51.936713	52.106494	52.276214	52.445876
52.615478	52.785023	52.954510	53.123940	53.293315
53.462635	53.631901	53.801115	53.970276	54.139387

54.308448	54.477460	54.646425	54.815342	54.984214
55.153041	55.321825	55.490565	55.659263	55.827921
55.996538	56.165116	56.333656	56.502158	56.670623
56.839052	57.007447	57.175806	57.344133	57.512426
57.680687	57.848916	58.017115	58.185284	58.353422
58.521532	58.689614	58.857668	59.025694	59.193694
59.361668	59.529616	59.697539	59.865437	60.033312
60.201162	60.368990	60.536795	60.704577	60.872338

Row 20

44.180259	44.342037	44.504096	44.666475	44.829209
44.992332	45.155877	45.319873	45.484341	45.649300
45.814759	45.980720	46.147179	46.314124	46.481534
46.649385	46.817649	46.986290	47.155275	47.324567
47.494128	47.663923	47.833917	48.004079	48.174377
48.344785	48.515278	48.685832	48.856429	49.027051
49.197683	49.368312	49.538926	49.709516	49.880074
50.050593	50.221068	50.391493	50.561865	50.732181
50.902439	51.072637	51.242773	51.412847	51.582859
51.752808	51.922694	52.092517	52.262278	52.431978
52.601616	52.771195	52.940714	53.110176	53.279579
53.448927	53.618220	53.787458	53.956643	54.125776
54.294859	54.463891	54.632875	54.801812	54.970701
55.139545	55.308345	55.477100	55.645814	55.814485
55.983116	56.151707	56.320259	56.488773	56.657249
56.825690	56.994095	57.162465	57.330800	57.499103
57.667373	57.835611	58.003818	58.171995	58.340141
58.508258	58.676347	58.844408	59.012441	59.180447
59.348427	59.516381	59.684310	59.852214	60.020094
60.187950	60.355783	60.523593	60.691380	60.859145

Row 21

44.163679	44.325312	44.487233	44.649480	44.812093
44.975108	45.138562	45.302484	45.466900	45.631828
45.797279	45.963256	46.129753	46.296757	46.464247
46.632196	46.800571	46.969338	47.138457	47.307890
47.477596	47.647540	47.817683	47.987991	48.158434
48.328983	48.499612	48.670298	48.841021	49.011763
49.182510	49.353247	49.523964	49.694652	49.865301
50.035907	50.206463	50.376965	50.547410	50.717794
50.888117	51.058375	51.228569	51.398697	51.568759
51.738756	51.908687	52.078553	52.248354	52.418092
52.587766	52.757379	52.926930	53.096422	53.265855
53.435230	53.604548	53.773811	53.943020	54.112176
54.281279	54.450332	54.619335	54.788290	54.957197
55.126058	55.294873	55.463644	55.632372	55.801057
55.969702	56.138305	56.306870	56.475395	56.643883
56.812334	56.980749	57.149129	57.317475	57.485787
57.654065	57.822312	57.990527	58.158712	58.326866
58.494990	58.663086	58.831154	58.999193	59.167206
59.335192	59.503152	59.671087	59.838996	60.006881
60.174743	60.342580	60.510395	60.678187	60.845957

Row 22

44.147050	44.308531	44.470304	44.632412	44.794897
44.957798	45.121154	45.284998	45.449358	45.614253
45.779696	45.945689	46.112227	46.279295	46.446870
46.614922	46.783417	46.952315	47.121577	47.291158
47.461019	47.631117	47.801415	47.971877	48.142471
48.313166	48.483935	48.654757	48.825609	48.996475

49.167338	49.338186	49.509008	49.679794	49.850537
50.021231	50.191869	50.362449	50.532967	50.703420
50.873807	51.044126	51.214377	51.384559	51.554672
51.724716	51.894692	52.064601	52.234442	52.404218
52.573928	52.743575	52.913158	53.082680	53.252142
53.421544	53.590888	53.760176	53.929408	54.098585
54.267710	54.436783	54.605805	54.774778	54.943702
55.112579	55.281411	55.450197	55.618939	55.787638
55.956295	56.124912	56.293488	56.462025	56.630524
56.798986	56.967411	57.135801	57.304156	57.472477
57.640764	57.809019	57.977242	58.145434	58.313596
58.481728	58.649831	58.817905	58.985951	59.153970
59.321962	59.489928	59.657868	59.825783	59.993673
60.161540	60.329382	60.497201	60.664998	60.832772

Row 23

44.130371	44.291692	44.453310	44.615271	44.777619
44.940398	45.103650	45.267410	45.431709	45.596569
45.762003	45.928014	46.094596	46.261732	46.429398
46.597560	46.766182	46.935222	47.104633	47.274372
47.444394	47.614655	47.785116	47.955738	48.126487
48.297333	48.468248	48.639209	48.810194	48.981186
49.152169	49.323130	49.494059	49.664945	49.835783
50.006565	50.177287	50.347945	50.518537	50.689059
50.859511	51.029891	51.200199	51.370435	51.540599
51.710691	51.880712	52.050662	52.220544	52.390357
52.560103	52.729783	52.899398	53.068950	53.238440
53.407869	53.577239	53.746551	53.915806	54.085006
54.254151	54.423244	54.592285	54.761275	54.930217
55.099110	55.267957	55.436758	55.605514	55.774227
55.942897	56.111526	56.280114	56.448663	56.617172
56.785645	56.954080	57.122479	57.290843	57.459173
57.627469	57.795733	57.963964	58.132163	58.300332
58.468471	58.636581	58.804661	58.972714	59.140739
59.308737	59.476708	59.644654	59.812575	59.980470
60.148341	60.316189	60.484013	60.651814	60.819592

Row 24

44.113642	44.274794	44.436248	44.598052	44.760255
44.922904	45.086045	45.249715	45.413950	45.578772
45.744196	45.910226	46.076855	46.244064	46.411827
46.580108	46.748866	46.918054	47.087625	47.257530
47.427722	47.598154	47.768784	47.939573	48.110484
48.281487	48.452553	48.623657	48.794779	48.965900
49.137005	49.308081	49.479118	49.650106	49.821039
49.991911	50.162718	50.333455	50.504120	50.674712
50.845229	51.015670	51.186035	51.356325	51.526539
51.696679	51.866745	52.036738	52.206659	52.376509
52.546291	52.716004	52.885651	53.055233	53.224751
53.394207	53.563602	53.732937	53.902215	54.071436
54.240602	54.409714	54.578774	54.747782	54.916741
55.085650	55.254512	55.423328	55.592098	55.760824
55.929507	56.098148	56.266748	56.435308	56.603828
56.772311	56.940756	57.109165	57.277538	57.445876
57.614181	57.782452	57.950691	58.118898	58.287074
58.455220	58.623336	58.791424	58.959482	59.127513
59.295517	59.463494	59.631445	59.799371	59.967272
60.135148	60.303000	60.470828	60.638634	60.806417

Row 25

44.096863	44.257837	44.419117	44.580755	44.742803
44.905314	45.068335	45.231909	45.396074	45.560855
45.726269	45.892320	46.058999	46.226287	46.394154
46.562562	46.731464	46.900811	47.070551	47.240632
47.411002	47.581614	47.752421	47.923384	48.094464
48.265629	48.436849	48.608101	48.779363	48.950616
49.121846	49.293039	49.464186	49.635278	49.806308
49.977271	50.148162	50.318978	50.489718	50.660379
50.830961	51.001464	51.171887	51.342230	51.512495
51.682682	51.852792	52.022827	52.192788	52.362676
52.532492	52.702238	52.871916	53.041528	53.211074
53.380556	53.549976	53.719335	53.888636	54.057878
54.227064	54.396196	54.565274	54.734299	54.903274
55.072200	55.241077	55.409907	55.578691	55.747430
55.916125	56.084778	56.253390	56.421960	56.590492
56.758984	56.927439	57.095857	57.264239	57.432586
57.600899	57.769178	57.937425	58.105639	58.273823
58.441975	58.610098	58.778191	58.946256	59.114293
59.282303	59.450285	59.618242	59.786172	59.954078
60.121959	60.289815	60.457649	60.625458	60.793245

Row 26

44.080033	44.240819	44.401915	44.563377	44.725260
44.887622	45.050515	45.213986	45.378076	45.542813
45.708216	45.874289	46.041023	46.208396	46.376375
46.544917	46.713974	46.883490	47.053409	47.223676
47.394235	47.565035	47.736028	47.907171	48.078426
48.249759	48.421140	48.592544	48.763949	48.935338
49.106694	49.278007	49.449266	49.620462	49.791590
49.962644	50.133621	50.304517	50.475331	50.646063
50.816710	50.987274	51.157754	51.328151	51.498466
51.668700	51.838855	52.008931	52.178931	52.348856
52.518707	52.688486	52.858195	53.027835	53.197409
53.366917	53.536362	53.705745	53.875067	54.044331
54.213537	54.382688	54.551783	54.720826	54.889818
55.058759	55.227650	55.396494	55.565292	55.734044
55.902752	56.071417	56.240039	56.408621	56.577163
56.745665	56.914130	57.082557	57.250948	57.419303
57.587624	57.755911	57.924165	58.092387	58.260577
58.428736	58.596865	58.764965	58.933036	59.101078
59.269093	59.437081	59.605043	59.772979	59.940889
60.108775	60.276636	60.444473	60.612287	60.780079

Row 27

44.063152	44.223740	44.384641	44.545915	44.707623
44.869826	45.032581	45.195941	45.359950	45.524640
45.690031	45.856127	46.022920	46.190384	46.358484
46.527172	46.696393	46.866089	47.036199	47.206662
47.377420	47.548418	47.719605	47.890937	48.062374
48.233880	48.405426	48.576986	48.748538	48.920065
49.091552	49.262986	49.434358	49.605660	49.776887
49.948033	50.119095	50.290072	50.460961	50.631762
50.802475	50.973100	51.143637	51.314088	51.484453
51.654734	51.824933	51.995051	52.165089	52.335050
52.504936	52.674748	52.844487	53.014157	53.183757
53.353292	53.522761	53.692167	53.861511	54.030795
54.200021	54.369190	54.538304	54.707364	54.876371
55.045327	55.214234	55.383092	55.551902	55.720667
55.889387	56.058064	56.226697	56.395290	56.563841
56.732354	56.900827	57.069264	57.237663	57.406027
57.574355	57.742650	57.910911	58.079140	58.247337
58.415503	58.583638	58.751744	58.919821	59.087869

59.255890	59.423883	59.591849	59.759790	59.927705
60.095595	60.263461	60.431303	60.599121	60.766916

Row 28

44.046221	44.206599	44.367293	44.528367	44.689888
44.851920	45.014528	45.177768	45.341689	45.506328
45.671706	45.837828	46.004684	46.172247	46.340476
46.509320	46.678719	46.848607	47.018920	47.189591
47.360558	47.531764	47.703154	47.874683	48.046308
48.217994	48.389710	48.561430	48.733133	48.904801
49.076419	49.247977	49.419464	49.590873	49.762199
49.933438	50.104587	50.275644	50.446609	50.617480
50.788258	50.958943	51.129537	51.300041	51.470456
51.640784	51.811027	51.981186	52.151263	52.321260
52.491180	52.661023	52.830793	53.000491	53.170119
53.339678	53.509172	53.678600	53.847966	54.017271
54.186516	54.355704	54.524835	54.693911	54.862934
55.031906	55.200826	55.369698	55.538522	55.707299
55.876031	56.044719	56.213363	56.381966	56.550528
56.719050	56.887533	57.055977	57.224385	57.392757
57.561094	57.729396	57.897664	58.065900	58.234104
58.402276	58.570417	58.738529	58.906611	59.074665
59.242691	59.410689	59.578661	59.746607	59.914526
60.082421	60.250291	60.418137	60.585959	60.753758

Row 29

44.029239	44.189395	44.349870	44.510732	44.672051
44.833901	44.996349	45.159459	45.323286	45.487869
45.653233	45.819383	45.986309	46.153978	46.322348
46.491359	46.660947	46.831041	47.001569	47.172461
47.343649	47.515073	47.686676	47.858409	48.030230
48.202101	48.373992	48.545877	48.717734	48.889546
49.061299	49.232981	49.404585	49.576102	49.747529
49.918861	50.090097	50.261235	50.432274	50.603215
50.774059	50.944805	51.115456	51.286013	51.456477
51.626851	51.797137	51.967337	52.137452	52.307485
52.477438	52.647314	52.817114	52.986839	53.156494
53.326078	53.495595	53.665046	53.834433	54.003758
54.173023	54.342228	54.511376	54.680469	54.849508
55.018494	55.187429	55.356314	55.525151	55.693940
55.862684	56.031383	56.200038	56.368651	56.537222
56.705753	56.874245	57.042699	57.211115	57.379495
57.547839	57.716148	57.884424	58.052666	58.220876
58.389055	58.557202	58.725320	58.893408	59.061467
59.229498	59.397501	59.565478	59.733428	59.901352
60.069251	60.237125	60.404976	60.572802	60.740605

Row 30

44.012206	44.172129	44.332371	44.493006	44.654110
44.815763	44.978039	45.141009	45.304733	45.469256
45.634605	45.800786	45.967785	46.135571	46.304092
46.473284	46.643076	46.813390	46.984147	47.155273
47.326694	47.498347	47.670172	47.842118	48.014142
48.186205	48.358276	48.530330	48.702345	48.874304
49.046193	49.218002	49.389723	49.561349	49.732877
49.904303	50.075626	50.246845	50.417960	50.588970
50.759879	50.930685	51.101393	51.272002	51.442516
51.612936	51.783265	51.953504	52.123657	52.293726
52.463713	52.633619	52.803448	52.973202	53.142883
53.312492	53.482032	53.651505	53.820913	53.990258

54.159541	54.328764	54.497929	54.667038	54.836092
55.005093	55.174041	55.342940	55.511789	55.680590
55.849345	56.018055	56.186721	56.355343	56.523925
56.692465	56.860965	57.029427	57.197852	57.366239
57.534591	57.702907	57.871190	58.039439	58.207655
58.375840	58.543993	58.712116	58.880210	59.048274
59.216310	59.384319	59.552300	59.720255	59.888183
60.056087	60.223965	60.391819	60.559649	60.727456

Row 31

43.995124	44.154800	44.314795	44.475187	44.636061
44.797501	44.959592	45.122410	45.286023	45.450480
45.615811	45.782026	45.949107	46.117018	46.285703
46.455091	46.625102	46.795650	46.966653	47.138026
47.309693	47.481587	47.653644	47.825812	47.998046
48.170307	48.342564	48.514791	48.686966	48.859075
49.031102	49.203040	49.374879	49.546616	49.718245
49.889766	50.061176	50.232476	50.403665	50.574746
50.745719	50.916586	51.087349	51.258010	51.428573
51.599038	51.769410	51.939689	52.109880	52.279983
52.450002	52.619940	52.789798	52.959579	53.129285
53.298919	53.468482	53.637977	53.807405	53.976769
54.146071	54.315311	54.484493	54.653618	54.822686
54.991701	55.160664	55.329575	55.498436	55.667249
55.836016	56.004736	56.173412	56.342045	56.510635
56.679184	56.847693	57.016164	57.184596	57.352991
57.521349	57.689673	57.857962	58.026218	58.194440
58.362631	58.530790	58.698919	58.867018	59.035087
59.203128	59.371141	59.539127	59.707086	59.875019
60.042927	60.210809	60.378667	60.546501	60.714311

Row 32

43.977994	44.137408	44.297140	44.457274	44.617900
44.779111	44.941001	45.103654	45.267145	45.431530
45.596843	45.763094	45.930264	46.098312	46.267175
46.436774	46.607021	46.777822	46.949085	47.120721
47.292648	47.464794	47.637094	47.809493	47.981945
48.154410	48.326857	48.499261	48.671601	48.843862
49.016030	49.188097	49.360056	49.531904	49.703635
49.875250	50.046748	50.218128	50.389392	50.560542
50.731579	50.902506	51.073325	51.244038	51.414649
51.585160	51.755573	51.925892	52.096119	52.266257
52.436308	52.606276	52.776163	52.945971	53.115702
53.285360	53.454945	53.624462	53.793910	53.963293
54.132613	54.301870	54.471068	54.640208	54.809292
54.978320	55.147296	55.316220	55.485093	55.653918
55.822695	55.991426	56.160112	56.328754	56.497353
56.665911	56.834429	57.002907	57.171347	57.339749
57.508115	57.676446	57.844741	58.013003	58.181232
58.349428	58.517593	58.685727	58.853831	59.021906
59.189952	59.357969	59.525960	59.693923	59.861860
60.029772	60.197658	60.365520	60.533357	60.701171

Row 33

43.960815	44.119953	44.279405	44.439263	44.599623
44.760587	44.922259	45.084732	45.248090	45.412396
45.577690	45.743980	45.911247	46.079445	46.248501
46.418329	46.588830	46.759902	46.931443	47.103358
47.275560	47.447972	47.620525	47.793164	47.965841
48.138517	48.311160	48.483745	48.656252	48.828667

49.000977	49.173176	49.345256	49.517214	49.689048
49.860758	50.032342	50.203803	50.375142	50.546361
50.717462	50.888448	51.059322	51.230087	51.400745
51.571300	51.741755	51.912112	52.082376	52.252548
52.422631	52.592629	52.762543	52.932378	53.102134
53.271815	53.441423	53.610960	53.780428	53.949829
54.119167	54.288441	54.457655	54.626810	54.795908
54.964950	55.133938	55.302875	55.471760	55.640596
55.809383	55.978125	56.146820	56.315472	56.484080
56.652647	56.821172	56.989658	57.158106	57.326515
57.494888	57.663225	57.831527	57.999795	58.168030
58.336232	58.504402	58.672541	58.840650	59.008730
59.176780	59.344803	59.512798	59.680765	59.848707
60.016622	60.184512	60.352378	60.520219	60.688036

Row 34

43.943591	44.102436	44.261591	44.421153	44.581226
44.741924	44.903358	45.065634	45.228847	45.393067
45.558338	45.724672	45.892047	46.060407	46.229675
46.399752	46.570528	46.741890	46.913728	47.085939
47.258431	47.431121	47.603940	47.776828	47.949738
48.122630	48.295474	48.468244	48.640921	48.813493
48.985947	49.158278	49.330479	49.502549	49.674486
49.846290	50.017962	50.189503	50.360916	50.532203
50.703368	50.874412	51.045341	51.216156	51.386861
51.557460	51.727956	51.898351	52.068650	52.238856
52.408971	52.578998	52.748940	52.918800	53.088581
53.258285	53.427914	53.597471	53.766959	53.936379
54.105733	54.275024	54.444253	54.613423	54.782535
54.951590	55.120591	55.289540	55.458436	55.627283
55.796081	55.964832	56.133537	56.302198	56.470815
56.639390	56.807924	56.976417	57.144872	57.313288
57.481668	57.650011	57.818320	57.986593	58.154834
58.323041	58.491217	58.659361	58.827475	58.995560
59.163615	59.331642	59.499641	59.667613	59.835558
60.003477	60.171371	60.339240	60.507085	60.674905

Row 35

43.926323	44.084859	44.243697	44.402942	44.562707
44.723115	44.884290	45.046352	45.209404	45.373529
45.538777	45.705159	45.872650	46.041191	46.210689
46.381036	46.552109	46.723783	46.895939	47.068466
47.241263	47.414245	47.587340	47.760488	47.933638
48.106753	48.279802	48.452761	48.625612	48.798342
48.970942	49.143405	49.315729	49.487911	49.659950
49.831848	50.003607	50.175228	50.346714	50.518070
50.689297	50.860400	51.031382	51.202247	51.372999
51.543641	51.714177	51.884610	52.054944	52.225182
52.395327	52.565383	52.735352	52.905238	53.075043
53.244769	53.414419	53.583997	53.753503	53.922941
54.092312	54.261619	54.430863	54.600047	54.769173
54.938241	55.107255	55.276215	55.445123	55.613980
55.782788	55.951549	56.120263	56.288933	56.457558
56.626141	56.794683	56.963184	57.131646	57.300069
57.468455	57.636805	57.805119	57.973399	58.141645
58.309857	58.478038	58.646188	58.814307	58.982395
59.150455	59.318486	59.486489	59.654465	59.822414
59.990337	60.158235	60.326107	60.493955	60.661779

Row 36

43.909013	44.067221	44.225723	44.384628	44.544060
44.704154	44.865047	45.026873	45.189749	45.353770
45.518990	45.685425	45.853047	46.021784	46.191536
46.362177	46.533571	46.705582	46.878078	47.050938
47.224058	47.397348	47.570731	47.744147	47.917546
48.090890	48.264148	48.437299	48.610326	48.783216
48.955963	49.128560	49.301006	49.473300	49.645442
49.817434	49.989279	50.160979	50.332539	50.503961
50.675250	50.846411	51.017446	51.188360	51.359158
51.529842	51.700418	51.870888	52.041256	52.211526
52.381702	52.551786	52.721782	52.891692	53.061520
53.231268	53.400939	53.570536	53.740061	53.909516
54.078904	54.248226	54.417485	54.586684	54.755822
54.924903	55.093929	55.262900	55.431819	55.600687
55.769505	55.938275	56.106998	56.275676	56.444310
56.612901	56.781450	56.949958	57.118427	57.286857
57.455249	57.623605	57.791925	57.960210	58.128462
58.296680	58.464866	58.633020	58.801143	58.969237
59.137301	59.305336	59.473343	59.641323	59.809276
59.977202	60.145103	60.312979	60.480830	60.648658

Row 37

43.891664	44.049527	44.207669	44.366210	44.525283
44.685035	44.845619	45.007186	45.169868	45.333772
45.498962	45.665457	45.833221	46.002177	46.172206
46.343168	46.514912	46.687285	46.860144	47.033360
47.206821	47.380432	47.554116	47.727810	47.901465
48.075043	48.248516	48.421863	48.595067	48.768120
48.941014	49.113746	49.286314	49.458720	49.630964
49.803049	49.974980	50.146759	50.318390	50.489879
50.661230	50.832446	51.003534	51.174497	51.345339
51.516065	51.686679	51.857186	52.027588	52.197890
52.368095	52.538206	52.708228	52.878162	53.048013
53.217783	53.387474	53.557090	53.726633	53.896105
54.065508	54.234846	54.404120	54.573331	54.742483
54.911576	55.080613	55.249596	55.418525	55.587403
55.756231	55.925010	56.093742	56.262429	56.431070
56.599669	56.768225	56.936740	57.105216	57.273652
57.442051	57.610412	57.778738	57.947029	58.115286
58.283509	58.451699	58.619858	58.787986	58.956084
59.124152	59.292191	59.460202	59.628186	59.796142
59.964073	60.131977	60.299856	60.467711	60.635541

Row 38

43.874280	44.031777	44.189538	44.347688	44.506372
44.665752	44.825998	44.987278	45.149744	45.313519
45.478676	45.645236	45.813161	45.982357	46.152692
46.324006	46.496129	46.668893	46.842141	47.015734
47.189554	47.363502	47.537498	47.711480	47.885399
48.059218	48.232909	48.406454	48.579838	48.753054
48.926096	49.098963	49.271654	49.444171	49.616517
49.788695	49.960710	50.132567	50.304270	50.475824
50.647235	50.818508	50.989647	51.160657	51.331543
51.502310	51.672963	51.843504	52.013939	52.184272
52.354506	52.524644	52.694691	52.864649	53.034522
53.204312	53.374024	53.543658	53.713218	53.882707
54.052126	54.221478	54.390766	54.559991	54.729155
54.898260	55.067309	55.236302	55.405242	55.574129
55.742966	55.911755	56.080495	56.249190	56.417839
56.586445	56.755008	56.923530	57.092012	57.260455
57.428859	57.597227	57.765558	57.933854	58.102116
58.270344	58.438539	58.606703	58.774835	58.942937

59.111009	59.279052	59.447067	59.615054	59.783014
59.950948	60.118856	60.286738	60.454595	60.622429

Row 39

43.856865	44.013975	44.171329	44.329060	44.487324
44.646298	44.806171	44.967134	45.129361	45.292991
45.458112	45.624746	45.792847	45.962311	46.132984
46.304684	46.477220	46.650405	46.824069	46.998063
47.172262	47.346563	47.520884	47.695164	47.869353
48.043417	48.217331	48.391077	48.564643	48.738023
48.911214	49.084215	49.257028	49.429656	49.602103
49.774373	49.946472	50.118406	50.290179	50.461798
50.633268	50.804595	50.975785	51.146842	51.317771
51.488578	51.659268	51.829844	52.000311	52.170674
52.340935	52.511100	52.681171	52.851153	53.021047
53.190858	53.360588	53.530241	53.699818	53.869322
54.038757	54.208124	54.377425	54.546663	54.715839
54.884956	55.054015	55.223019	55.391968	55.560865
55.729712	55.898508	56.067257	56.235959	56.404616
56.573229	56.741800	56.910328	57.078816	57.247265
57.415676	57.584049	57.752385	57.920686	58.088953
58.257186	58.425386	58.593554	58.761690	58.929796
59.097872	59.265919	59.433938	59.601928	59.769892
59.937828	60.105739	60.273625	60.441485	60.609321

Row 40

43.839424	43.996126	44.153047	44.310327	44.468135
44.626666	44.786129	44.946741	45.108700	45.272168
45.437247	45.603964	45.772264	45.942026	46.113073
46.285197	46.458182	46.631823	46.805933	46.980353
47.154950	47.329620	47.504279	47.678865	47.853332
48.027647	48.201786	48.375735	48.549485	48.723030
48.896369	49.069505	49.242439	49.415177	49.587724
49.760085	49.932267	50.104276	50.276118	50.447801
50.619329	50.790710	50.961949	51.133051	51.304023
51.474869	51.645595	51.816205	51.986704	52.157095
52.327384	52.497575	52.667670	52.837673	53.007589
53.177420	53.347168	53.516838	53.686432	53.855952
54.025401	54.194782	54.364096	54.533346	54.702534
54.871663	55.040733	55.209746	55.378705	55.547612
55.716467	55.885272	56.054028	56.222738	56.391403
56.560022	56.728599	56.897134	57.065629	57.234083
57.402499	57.570877	57.739219	57.907525	58.075797
58.244034	58.412238	58.580410	58.748551	58.916661
59.084741	59.252791	59.420813	59.588807	59.756774
59.924714	60.092628	60.260516	60.428379	60.596218

Row 41

43.821963	43.978235	44.134694	44.291490	44.448805
44.606850	44.765860	44.926081	45.087740	45.251026
45.416058	45.582867	45.751392	45.921487	46.092949
46.265539	46.439016	46.613149	46.787737	46.962608
47.137625	47.312679	47.487688	47.662590	47.837341
48.011911	48.186280	48.360433	48.534367	48.708077
48.881565	49.054834	49.227889	49.400736	49.573381
49.745832	49.918096	50.090179	50.262090	50.433834
50.605420	50.776853	50.948140	51.119287	51.290300
51.461184	51.631945	51.802588	51.973117	52.143537
52.313853	52.484068	52.654186	52.824212	52.994148
53.163997	53.333764	53.503451	53.673060	53.842596

54.012059	54.181453	54.350780	54.520042	54.689242
54.858381	55.027461	55.196485	55.365453	55.534368
55.703231	55.872045	56.040809	56.209526	56.378197
56.546824	56.715407	56.883948	57.052448	57.220909
57.389330	57.557713	57.726060	57.894371	58.062647
58.230889	58.399097	58.567273	58.735418	58.903532
59.071615	59.239669	59.407695	59.575692	59.743662
59.911605	60.079522	60.247413	60.415279	60.583120

Row 42

43.804489	43.960307	44.116276	44.272552	44.429331
44.586843	44.745352	44.905135	45.066457	45.229537
45.394515	45.561430	45.730208	45.900678	46.072602
46.245707	46.419720	46.594386	46.769484	46.944835
47.120293	47.295748	47.471118	47.646345	47.821387
47.996216	48.170815	48.345175	48.519293	48.693168
48.866803	49.040205	49.213380	49.386334	49.559077
49.731616	49.903960	50.076116	50.248094	50.419899
50.591540	50.763025	50.934359	51.105549	51.276602
51.447524	51.618319	51.788993	51.959552	52.130000
52.300341	52.470580	52.640721	52.810768	52.980723
53.150591	53.320375	53.490079	53.659704	53.829253
53.998730	54.168137	54.337477	54.506751	54.675961
54.845111	55.014201	55.183234	55.352211	55.521135
55.690006	55.858827	56.027599	56.196323	56.365001
56.533634	56.702223	56.870770	57.039276	57.207742
57.376168	57.544557	57.712908	57.881224	58.049504
58.217750	58.385963	58.554143	58.722291	58.890408
59.058495	59.226553	59.394581	59.562582	59.730555
59.898501	60.066420	60.234314	60.402183	60.570027

Row 43

43.787009	43.942349	44.097797	44.253515	44.409712
44.566640	44.724592	44.883885	45.044825	45.207670
45.372588	45.539623	45.708688	45.879580	46.052021
46.225697	46.400296	46.575538	46.751183	46.927041
47.102961	47.278834	47.454578	47.630137	47.805474
47.980566	48.155398	48.329965	48.504267	48.678306
48.852088	49.025621	49.198914	49.371975	49.544813
49.717439	49.889861	50.062089	50.234131	50.405996
50.577692	50.749226	50.920606	51.091839	51.262930
51.433888	51.604716	51.775422	51.946009	52.116484
52.286850	52.457112	52.627275	52.797341	52.967316
53.137202	53.307003	53.476722	53.646362	53.815925
53.985416	54.154835	54.324186	54.493471	54.662693
54.831852	55.000952	55.169994	55.338980	55.507912
55.676791	55.845619	56.014398	56.183129	56.351814
56.520453	56.689048	56.857601	57.026112	57.194583
57.363014	57.531407	57.699763	57.868083	58.036368
58.204618	58.372834	58.541018	58.709170	58.877291
59.045381	59.213442	59.381474	59.549477	59.717453
59.885402	60.053324	60.221221	60.389092	60.556938

Row 44

43.769533	43.924371	44.079266	44.234385	44.389949
44.546234	44.703568	44.862308	45.022814	45.185392
45.350240	45.517413	45.686805	45.858176	46.031197
46.205504	46.380746	46.556611	46.732841	46.909235
47.085640	47.261946	47.438074	47.613973	47.789611
47.964967	48.140033	48.314807	48.489293	48.663495

48.837422	49.011085	49.184494	49.357659	49.530592
49.703302	49.875801	50.048099	50.220204	50.392127
50.563875	50.735458	50.906882	51.078156	51.249285
51.420277	51.591138	51.761873	51.932489	52.102989
52.273379	52.443664	52.613847	52.783933	52.953926
53.123830	53.293647	53.463381	53.633035	53.802612
53.972115	54.141547	54.310909	54.480205	54.649436
54.818605	54.987714	55.156765	55.325759	55.494699
55.663586	55.832421	56.001207	56.169944	56.338635
56.507280	56.675881	56.844439	57.012956	57.181431
57.349868	57.518265	57.686626	57.854950	58.023238
58.191492	58.359713	58.527900	58.696056	58.864180
59.032273	59.200337	59.368372	59.536378	59.704357
59.872308	60.040233	60.208132	60.376006	60.543855

Row 45

43.752071	43.906383	44.060691	44.215168	44.370046
44.525623	44.682265	44.840382	45.000393	45.162662
45.327430	45.494762	45.664530	45.836446	46.010119
46.185128	46.361074	46.537613	46.714468	46.891428
47.068340	47.245093	47.421616	47.597861	47.773803
47.949426	48.124726	48.299707	48.474374	48.648738
48.822809	48.996599	49.170122	49.343389	49.516414
49.689207	49.861781	50.034146	50.206313	50.378292
50.550092	50.721721	50.893188	51.064501	51.235667
51.406693	51.577585	51.748349	51.918991	52.089516
52.259929	52.430235	52.600439	52.770544	52.940554
53.110474	53.280307	53.450055	53.619723	53.789313
53.958829	54.128272	54.297645	54.466951	54.636192
54.805371	54.974488	55.143547	55.312550	55.481497
55.650391	55.819233	55.988025	56.156769	56.325465
56.494116	56.662723	56.831286	56.999807	57.168288
57.336729	57.505131	57.673495	57.841824	58.010116
58.178374	58.346598	58.514788	58.682947	58.851074
59.019171	59.187238	59.355275	59.523285	59.691266
59.859220	60.027147	60.195049	60.362925	60.530776

Row 46

43.734634	43.888397	44.042085	44.195873	44.350005
44.504802	44.660671	44.818081	44.977523	45.139434
45.304109	45.471626	45.641829	45.814368	45.988778
46.164568	46.341286	46.518554	46.696075	46.873632
47.051071	47.228286	47.405213	47.581810	47.758058
47.933948	48.109483	48.284668	48.459516	48.634039
48.808251	48.982167	49.155801	49.329168	49.502282
49.675155	49.847802	50.020233	50.192459	50.364492
50.536341	50.708016	50.879525	51.050876	51.222077
51.393135	51.564056	51.734848	51.905516	52.076065
52.246500	52.416827	52.587050	52.757173	52.927200
53.097136	53.266983	53.436746	53.606427	53.776029
53.945556	54.115010	54.284394	54.453710	54.622961
54.792148	54.961274	55.130341	55.299351	55.468305
55.637206	55.806055	55.974853	56.143603	56.312305
56.480961	56.649573	56.818141	56.986667	57.155152
57.323597	57.492004	57.660372	57.828704	57.997000
58.165262	58.333489	58.501683	58.669845	58.837975
59.006075	59.174144	59.342185	59.510196	59.678180
59.846137	60.014066	60.181970	60.349848	60.517701

Row 47

43.717237	43.870426	44.023460	44.176513	44.329834
44.483771	44.638772	44.795377	44.954162	45.115657
45.280222	45.447955	45.618664	45.791919	45.967164
46.143826	46.321392	46.499446	46.677677	46.855860
47.033846	47.211537	47.388875	47.565828	47.742384
47.918541	48.094308	48.269697	48.444722	48.619401
48.793751	48.967789	49.141532	49.314996	49.488197
49.661148	49.833865	50.006359	50.178644	50.350729
50.522626	50.694344	50.865892	51.037280	51.208515
51.379604	51.550554	51.721372	51.892064	52.062636
52.233093	52.403439	52.573680	52.743821	52.913864
53.083815	53.253677	53.423453	53.593146	53.762761
53.932299	54.101763	54.271157	54.440482	54.609741
54.778937	54.948071	55.117146	55.286163	55.455124
55.624031	55.792886	55.961691	56.130446	56.299153
56.467815	56.636431	56.805004	56.973535	57.142024
57.310473	57.478884	57.647256	57.815592	57.983891
58.152156	58.320387	58.488584	58.656749	58.824882
58.992984	59.161057	59.329100	59.497114	59.665100
59.833059	60.000991	60.168897	60.336777	60.504632

Row 48

43.699893	43.852486	44.004833	44.157100	44.309544
44.462532	44.616559	44.772241	44.930263	45.091268
45.255703	45.423692	45.594993	45.769078	45.945273
46.122907	46.301402	46.480305	46.659289	46.838129
47.016681	47.194859	47.372614	47.549925	47.726788
47.903211	48.079208	48.254797	48.429997	48.604829
48.779313	48.953470	49.127318	49.300876	49.474161
49.647188	49.819972	49.992528	50.164867	50.337003
50.508945	50.680705	50.852292	51.023714	51.194981
51.366100	51.537078	51.707921	51.878637	52.049230
52.219707	52.390072	52.560331	52.730488	52.900547
53.070512	53.240387	53.410176	53.579881	53.749507
53.919055	54.088530	54.257933	54.427267	54.596535
54.765738	54.934880	55.103962	55.272986	55.441953
55.610867	55.779728	55.948538	56.117298	56.286011
56.454677	56.623299	56.791876	56.960411	57.128904
57.297357	57.465772	57.634148	57.802487	57.970790
58.139057	58.307291	58.475491	58.643659	58.811795
58.979900	59.147975	59.316020	59.484037	59.652025
59.819986	59.987920	60.155828	60.323710	60.491568

Row 49

43.682619	43.834597	43.986223	44.137656	44.289149
44.441090	44.594019	44.748642	44.905771	45.066194
45.230475	45.398769	45.570771	45.745819	45.923099
46.101822	46.281335	46.461151	46.640931	46.820455
46.999591	47.178264	47.356440	47.534110	47.711280
47.887966	48.064189	48.239974	48.415344	48.590325
48.764940	48.939212	49.113162	49.286811	49.460176
49.633275	49.806125	49.978739	50.151131	50.323315
50.495301	50.667100	50.838724	51.010180	51.181477
51.352624	51.523628	51.694495	51.865233	52.035847
52.206343	52.376726	52.547002	52.717174	52.887248
53.057226	53.227114	53.396915	53.566632	53.736268
53.905826	54.075310	54.244722	54.414065	54.583341
54.752552	54.921701	55.090789	55.259820	55.428794
55.597713	55.766579	55.935395	56.104160	56.272878
56.441549	56.610174	56.778756	56.947295	57.115792
57.284249	57.452667	57.621046	57.789389	57.957695
58.125966	58.294202	58.462405	58.630575	58.798714

58.966821	59.134899	59.302946	59.470965	59.638956
59.806919	59.974855	60.142765	60.310649	60.478508

Row 50

43.665434	43.816779	43.967654	44.118201	44.268670
44.419456	44.571148	44.724548	44.880624	45.040351
45.204444	45.373106	45.545943	45.722121	45.900642
46.080583	46.261211	46.442006	46.622625	46.802859
46.982593	47.161768	47.340367	47.518394	47.695867
47.872812	48.049257	48.225232	48.400768	48.575893
48.750634	48.925017	49.099066	49.272801	49.446244
49.619412	49.792323	49.964993	50.137436	50.309666
50.481693	50.653531	50.825189	50.996676	51.168003
51.339176	51.510205	51.681095	51.851854	52.022487
52.193002	52.363402	52.533693	52.703880	52.873967
53.043959	53.213859	53.383671	53.553398	53.723044
53.892613	54.062105	54.231526	54.400876	54.570160
54.739378	54.908534	55.077629	55.246665	55.415645
55.584569	55.753441	55.922261	56.091032	56.259754
56.428429	56.597059	56.765645	56.934187	57.102688
57.271149	57.439570	57.607952	57.776298	57.944607
58.112880	58.281120	58.449325	58.617498	58.785639
58.953749	59.121828	59.289878	59.457899	59.625892
59.793857	59.961795	60.129707	60.297592	60.465453

Row 51

43.648357	43.799055	43.949151	44.098765	44.248131
44.397647	44.547942	44.699926	44.854751	45.013634
45.177498	45.346609	45.520452	45.697962	45.877910
46.059213	46.241058	46.422898	46.604396	46.785363
46.965705	47.145386	47.324407	47.502788	47.680559
47.857756	48.034417	48.210578	48.386273	48.561537
48.736400	48.910889	49.085031	49.258849	49.432365
49.605600	49.778570	49.951293	50.123784	50.296056
50.468123	50.639997	50.811687	50.983205	51.154558
51.325757	51.496809	51.667721	51.838499	52.009151
52.179683	52.350099	52.520405	52.690606	52.860706
53.030710	53.200621	53.370443	53.540181	53.709836
53.879413	54.048915	54.218343	54.387701	54.556991
54.726216	54.895378	55.064479	55.233521	55.402506
55.571436	55.740313	55.909138	56.077913	56.246639
56.415319	56.583952	56.752542	56.921088	57.089592
57.258056	57.426480	57.594866	57.763214	57.931526
58.099802	58.268044	58.436252	58.604427	58.772570
58.940682	59.108764	59.276816	59.444839	59.612833
59.780800	59.948740	60.116653	60.284541	60.452403

Row 52

43.631410	43.781451	43.930745	44.079382	44.227567
44.375689	44.524409	44.674744	44.828071	44.985919
45.149499	45.319166	45.494235	45.673324	45.854915
46.037741	46.220910	46.403860	46.586275	46.767992
46.948949	47.129136	47.308574	47.487302	47.665364
47.842807	48.019676	48.196015	48.371864	48.547260
48.722238	48.896829	49.071060	49.244957	49.418543
49.591839	49.764865	49.937638	50.110174	50.282487
50.454592	50.626498	50.798220	50.969765	51.141145
51.312367	51.483441	51.654373	51.825170	51.995839
52.166387	52.336818	52.507137	52.677351	52.847463
53.017478	53.187400	53.357233	53.526980	53.696644

53.866229	54.035738	54.205174	54.374539	54.543836
54.713067	54.882235	55.051342	55.220389	55.389379
55.558314	55.727195	55.896025	56.064804	56.233534
56.402217	56.570854	56.739447	56.907997	57.076504
57.244971	57.413398	57.581786	57.750137	57.918452
58.086731	58.254975	58.423185	58.591363	58.759508
58.927622	59.095706	59.263759	59.431784	59.599780
59.767749	59.935690	60.103605	60.271494	60.439358

Row 53

43.614616	43.763996	43.912471	44.060091	44.207022
44.353621	44.500564	44.648976	44.800492	44.957054
45.120276	45.290642	45.467221	45.648198	45.831685
46.016209	46.200809	46.384931	46.568292	46.750773
46.932346	47.113033	47.292881	47.471948	47.650291
47.827971	48.005040	48.181549	48.357544	48.533066
48.708154	48.882840	49.057155	49.231126	49.404777
49.578132	49.751211	49.924031	50.096609	50.268960
50.441099	50.613037	50.784787	50.956359	51.127762
51.299007	51.470101	51.641051	51.811866	51.982551
52.153113	52.323558	52.493891	52.664117	52.834240
53.004266	53.174197	53.344039	53.513795	53.683467
53.853060	54.022576	54.192019	54.361390	54.530694
54.699931	54.869104	55.038216	55.207268	55.376263
55.545202	55.714088	55.882921	56.051704	56.220438
56.389125	56.557765	56.726361	56.894914	57.063424
57.231894	57.400324	57.568715	57.737068	57.905385
58.073666	58.241912	58.410125	58.578304	58.746452
58.914568	59.082653	59.250708	59.418735	59.586733
59.754703	59.922646	60.090562	60.258453	60.426318

Row 54

43.598000	43.746722	43.894368	44.040940	44.186547
44.331495	44.476440	44.622601	44.771910	44.926849
45.089610	45.260872	45.439338	45.622585	45.808259
45.994670	46.180809	46.366156	46.550486	46.733734
46.915917	47.097096	47.277343	47.456736	47.635350
47.813255	47.990514	48.167184	48.343317	48.518958
48.694148	48.868924	49.043317	49.217357	49.391071
49.564480	49.737607	49.910471	50.083088	50.255475
50.427645	50.599613	50.771389	50.942985	51.114411
51.285676	51.456789	51.627757	51.798587	51.969287
52.139863	52.310321	52.480666	52.650902	52.821036
52.991072	53.161012	53.330863	53.500626	53.670306
53.839906	54.009429	54.178878	54.348255	54.517564
54.686806	54.855985	55.025101	55.194158	55.363157
55.532101	55.700990	55.869827	56.038614	56.207351
56.376041	56.544685	56.713284	56.881839	57.050352
57.218825	57.387257	57.555650	57.724006	57.892325
58.060608	58.228856	58.397071	58.565252	58.733401
58.901519	59.069606	59.237663	59.405691	59.573691
59.741662	59.909607	60.077524	60.245416	60.413283

Row 55

43.581587	43.729661	43.876478	44.021984	44.166210
44.309379	44.452091	44.595617	44.742212	44.895067
45.057223	45.229656	45.410514	45.596509	45.784703
45.973193	46.160970	46.347585	46.532895	46.716905
46.899688	47.081343	47.261974	47.441678	47.620549
47.798667	47.976104	48.152925	48.329187	48.504939

48.680225	48.855084	49.029550	49.203654	49.377424
49.550884	49.724055	49.896959	50.069612	50.242032
50.414232	50.586226	50.758027	50.929646	51.101092
51.272376	51.443505	51.614489	51.785334	51.956048
52.126637	52.297106	52.467462	52.637709	52.807852
52.977896	53.147845	53.317703	53.487474	53.657161
53.826767	53.996296	54.165751	54.335134	54.504448
54.673695	54.842878	55.011999	55.181060	55.350063
55.519010	55.687903	55.856744	56.025534	56.194274
56.362967	56.531613	56.700215	56.868773	57.037289
57.205763	57.374198	57.542593	57.710951	57.879272
58.047557	58.215807	58.384024	58.552207	58.720358
58.888477	59.056565	59.224624	59.392653	59.560654
59.728627	59.896573	60.064492	60.232385	60.400252

Row 56

43.565404	43.712848	43.858850	44.003285	44.146089
44.287367	44.427602	44.568049	44.711279	44.861404
45.022740	45.196747	45.380686	45.570020	45.761106
45.951869	46.141366	46.329275	46.515562	46.700319
46.883682	47.065793	47.246787	47.426785	47.605896
47.784212	47.961816	48.138777	48.315158	48.491012
48.666386	48.841321	49.015854	49.190017	49.363838
49.537344	49.710557	49.883497	50.056183	50.228632
50.400860	50.572878	50.744701	50.916340	51.087805
51.259105	51.430251	51.601249	51.772107	51.942834
52.113433	52.283913	52.454279	52.624535	52.794687
52.964739	53.134696	53.304561	53.474338	53.644032
53.813644	53.983179	54.152638	54.322026	54.491345
54.660596	54.829783	54.998908	55.167973	55.336980
55.505930	55.674827	55.843670	56.012463	56.181206
56.349902	56.518551	56.687155	56.855715	57.024233
57.192710	57.361146	57.529544	57.697904	57.866226
58.034513	58.202765	58.370983	58.539168	58.707320
58.875441	59.043530	59.211590	59.379621	59.547623
59.715597	59.883544	60.051464	60.219358	60.387227

Row 57

43.549478	43.696320	43.841532	43.984910	44.126276
44.265575	44.403097	44.539965	44.678994	44.825465
44.985658	45.161842	45.349818	45.543219	45.737595
45.930805	46.122082	46.311287	46.498532	46.684009
46.867923	47.050463	47.231796	47.412067	47.591400
47.769899	47.947654	48.124744	48.301233	48.477179
48.652633	48.827637	49.002230	49.176446	49.350315
49.523862	49.697112	49.870085	50.042801	50.215277
50.387528	50.559569	50.731412	50.903068	51.074550
51.245866	51.417025	51.588036	51.758907	51.929644
52.100254	52.270744	52.441118	52.611382	52.781542
52.951601	53.121565	53.291436	53.461219	53.630918
53.800536	53.970075	54.139540	54.308932	54.478255
54.647510	54.816701	54.985830	55.154898	55.323908
55.492861	55.661760	55.830607	55.999402	56.168148
56.336846	56.505497	56.674103	56.842666	57.011186
57.179664	57.348103	57.516502	57.684863	57.853188
58.021476	58.189729	58.357949	58.526135	58.694288
58.862410	59.030502	59.198563	59.366594	59.534598
59.702573	59.870521	60.038442	60.206337	60.374206

Row 58

43.533834	43.680114	43.824578	43.966935	44.106877
44.244149	44.378755	44.511509	44.645274	44.786730
44.945261	45.124570	45.317928	45.516274	45.714340
45.910135	46.103211	46.293687	46.481851	46.668007
46.852434	47.035370	47.217015	47.397534	47.577068
47.755732	47.933624	48.110828	48.287414	48.463444
48.638969	48.814035	48.988682	49.162945	49.336855
49.510439	49.683721	49.856724	50.029466	50.201966
50.374238	50.546298	50.718159	50.889832	51.061328
51.232657	51.403829	51.574851	51.745732	51.916479
52.087099	52.257596	52.427978	52.598250	52.768417
52.938482	53.108452	53.278329	53.448117	53.617821
53.787443	53.956987	54.126456	54.295852	54.465178
54.634437	54.803631	54.972763	55.141834	55.310847
55.479803	55.648705	55.817553	55.986351	56.155099
56.323799	56.492452	56.661060	56.829625	56.998146
57.166627	57.335067	57.503467	57.671830	57.840156
58.008446	58.176701	58.344921	58.513108	58.681263
58.849386	59.017479	59.185541	59.353573	59.521578
59.689554	59.857502	60.025424	60.193320	60.361191

Row 59

43.518499	43.664267	43.808039	43.949437	44.088010
44.223264	44.354816	44.482932	44.610119	44.744506
44.900493	45.084497	45.285151	45.489448	45.691561
45.890012	46.084856	46.276545	46.465566	46.652346
46.837240	47.020533	47.202455	47.383196	47.562908
47.741717	47.919730	48.097035	48.273706	48.449808
48.625395	48.800515	48.975209	49.149513	49.323459
49.497075	49.670386	49.843414	50.016179	50.188699
50.360990	50.533067	50.704943	50.876630	51.048138
51.219480	51.390662	51.561694	51.732585	51.903340
52.073967	52.244472	52.414861	52.585139	52.755311
52.925382	53.095357	53.265239	53.435032	53.604740
53.774366	53.943913	54.113386	54.282785	54.452115
54.621377	54.790574	54.959708	55.128782	55.297797
55.466755	55.635659	55.804510	55.973310	56.142059
56.310761	56.479416	56.648026	56.816592	56.985115
57.153597	57.322038	57.490440	57.658805	57.827132
57.995423	58.163678	58.331900	58.500088	58.668244
58.836368	59.004461	59.172524	59.340558	59.508563
59.676540	59.844489	60.012412	60.180309	60.348180

Row 60

43.503496	43.648812	43.791967	43.932496	44.069800
44.203120	44.331594	44.454649	44.573720	44.697869
44.849701	45.041169	45.251825	45.463134	45.669531
45.870608	46.067125	46.259928	46.449721	46.637057
46.822361	47.005965	47.188129	47.369060	47.548925
47.727860	47.905976	48.083366	48.260110	48.436274
48.611914	48.787079	48.961813	49.136152	49.310129
49.483772	49.657107	49.830156	50.002941	50.175478
50.347785	50.519876	50.691764	50.863463	51.034982
51.206333	51.377525	51.548566	51.719463	51.890226
52.060859	52.231371	52.401765	52.572049	52.742226
52.912301	53.082280	53.252166	53.421963	53.591674
53.761304	53.930855	54.100330	54.269732	54.439064
54.608329	54.777528	54.946665	55.115741	55.284758
55.453718	55.622624	55.791477	55.960278	56.129030
56.297733	56.466389	56.635001	56.803568	56.972092
57.140575	57.309018	57.477421	57.645786	57.814114
57.982406	58.150663	58.318886	58.487075	58.655231

58.823356	58.991450	59.159514	59.327549	59.495554
59.663532	59.831482	59.999405	60.167303	60.335174

Row 61

43.488847	43.633782	43.776411	43.916190	44.052374
44.183936	44.309473	44.427284	44.536674	44.645659
44.790078	44.994292	45.218650	45.437874	45.648567
45.852103	46.050125	46.243903	46.434360	46.622166
46.807816	46.991680	47.174045	47.355134	47.535126
47.714163	47.892364	48.069825	48.246628	48.422842
48.598526	48.773729	48.948495	49.122862	49.296864
49.470529	49.643884	49.816951	49.989751	50.162302
50.334622	50.506724	50.678623	50.850331	51.021860
51.193219	51.364417	51.535465	51.706369	51.877137
52.047776	52.218292	52.388691	52.558979	52.729160
52.899240	53.069222	53.239111	53.408911	53.578626
53.748258	53.917811	54.087289	54.256693	54.426028
54.595294	54.764496	54.933634	55.102712	55.271730
55.440692	55.609600	55.778454	55.947256	56.116009
56.284714	56.453371	56.621984	56.790552	56.959077
57.127561	57.296005	57.464409	57.632775	57.801104
57.969397	58.137654	58.305878	58.474068	58.642225
58.810350	58.978445	59.146510	59.314545	59.482551
59.650529	59.818480	59.986403	60.154301	60.322173

Row 62

43.474572	43.619205	43.761415	43.900587	44.035853
44.165934	44.288884	44.401699	44.500329	44.586766
44.716276	44.944328	45.186874	45.414357	45.629016
45.834680	46.033956	46.228529	46.419519	46.607700
46.793622	46.977690	47.160212	47.341425	47.521514
47.700632	47.878898	48.056414	48.233263	48.409516
48.585233	48.760465	48.935256	49.109645	49.283666
49.457348	49.630717	49.803798	49.976610	50.149172
50.321501	50.493613	50.665520	50.837235	51.008770
51.180135	51.351340	51.522393	51.693301	51.864074
52.034717	52.205237	52.375640	52.545931	52.716115
52.886197	53.056182	53.226074	53.395876	53.565593
53.735227	53.904783	54.074262	54.243668	54.413004
54.582272	54.751475	54.920615	55.089694	55.258714
55.427677	55.596586	55.765441	55.934245	56.102998
56.271704	56.440362	56.608976	56.777545	56.946071
57.114556	57.283000	57.451405	57.619772	57.788101
57.956394	58.124653	58.292876	58.461067	58.629225
58.797351	58.965446	59.133511	59.301546	59.469553
59.637531	59.805483	59.973407	60.141305	60.309177

Row 63

43.460684	43.605103	43.747013	43.885749	44.020344
44.149320	44.270270	44.378943	44.467194	44.521940
44.616122	44.894161	45.158419	45.393362	45.611215
45.818501	46.018704	46.213855	46.405229	46.593677
46.779792	46.964004	47.146637	47.327936	47.508095
47.687268	47.865580	48.043134	48.220015	48.396295
48.572035	48.747287	48.922096	49.096500	49.270534
49.444228	49.617608	49.790698	49.963518	50.136088
50.308424	50.480542	50.652454	50.824175	50.995715
51.167084	51.338292	51.509349	51.680261	51.851036
52.021682	52.192205	52.362610	52.532903	52.703090
52.873174	53.043161	53.213054	53.382858	53.552576

53.722212	53.891769	54.061250	54.230657	54.399994
54.569264	54.738467	54.907608	55.076688	55.245709
55.414673	55.583582	55.752438	55.921243	56.089997
56.258703	56.427362	56.595976	56.764546	56.933073
57.101558	57.270003	57.438408	57.606775	57.775105
57.943399	58.111658	58.279882	58.448073	58.616231
58.784357	58.952453	59.120518	59.288554	59.456561
59.624539	59.792491	59.960415	60.128314	60.296187

Row 64

43.447195	43.591493	43.733233	43.871720	44.005928
44.134258	44.254009	44.360075	44.440928	44.461305
44.452645	44.852262	45.135652	45.375623	45.595446
45.803694	46.004437	46.199920	46.391513	46.580112
46.766336	46.950630	47.133324	47.314672	47.494869
47.674074	47.852411	48.029987	48.206886	48.383181
48.558934	48.734197	48.909015	49.083428	49.257470
49.431170	49.604556	49.777651	49.950476	50.123050
50.295390	50.467511	50.639427	50.811150	50.982693
51.154064	51.325275	51.496333	51.667247	51.838024
52.008672	52.179196	52.349602	52.519897	52.690085
52.860170	53.030158	53.200052	53.369857	53.539576
53.709213	53.878770	54.048252	54.217660	54.386998
54.556268	54.725472	54.894613	55.063694	55.232715
55.401680	55.570589	55.739446	55.908250	56.077005
56.245712	56.414371	56.582985	56.751555	56.920083
57.088568	57.257013	57.425419	57.593786	57.762116
57.930410	58.098669	58.266894	58.435085	58.603243
58.771370	58.939465	59.107531	59.275567	59.443574
59.611553	59.779504	59.947429	60.115328	60.283201

Row 65

43.434111	43.578384	43.720089	43.858525	43.992653
44.120848	44.240347	44.345851	44.425008	44.435018
44.312879	44.832197	45.120553	45.361645	45.581888
45.790338	45.991193	46.186744	46.378382	46.567012
46.753258	46.937569	47.120276	47.301634	47.481839
47.661050	47.839393	48.016973	48.193876	48.370174
48.545930	48.721195	48.896015	49.070430	49.244473
49.418175	49.591562	49.764658	49.937484	50.110059
50.282399	50.454521	50.626437	50.798161	50.969704
51.141076	51.312287	51.483346	51.654260	51.825038
51.995686	52.166210	52.336617	52.506912	52.677100
52.847185	53.017173	53.187068	53.356873	53.526592
53.696229	53.865787	54.035268	54.204677	54.374014
54.543284	54.712489	54.881630	55.050711	55.219732
55.388697	55.557607	55.726463	55.895268	56.064023
56.232730	56.401389	56.570003	56.738573	56.907101
57.075586	57.244031	57.412437	57.580805	57.749135
57.917429	58.085688	58.253912	58.422103	58.590262
58.758388	58.926484	59.094550	59.262586	59.430593
59.598572	59.766523	59.934448	60.102347	60.270220

Row 66

43.421434	43.565779	43.707585	43.846169	43.980529
44.109112	44.229337	44.336445	44.420343	44.456643
44.512721	44.838555	45.113610	45.351540	45.570579
45.778449	45.978980	46.174333	46.365840	46.554380
46.740561	46.924824	47.107494	47.288823	47.469005
47.648197	47.826525	48.004092	48.180984	48.357274

48.533022	48.708280	48.883095	49.057504	49.231543
49.405241	49.578625	49.751718	49.924541	50.097113
50.269452	50.441571	50.613486	50.785208	50.956749
51.128120	51.299330	51.470387	51.641301	51.812077
51.982724	52.153248	52.323654	52.493948	52.664135
52.834220	53.004207	53.174101	53.343906	53.513625
53.683261	53.852818	54.022299	54.191707	54.361045
54.530314	54.699519	54.868660	55.037740	55.206761
55.375725	55.544635	55.713491	55.882296	56.051050
56.219757	56.388416	56.557030	56.725600	56.894127
57.062612	57.231057	57.399463	57.567830	57.736160
57.904454	58.072713	58.240937	58.409128	58.577287
58.745413	58.913509	59.081574	59.249610	59.417617
59.585596	59.753547	59.921472	60.089371	60.257243

Row 67

43.409159	43.553671	43.695712	43.834638	43.969527
44.098989	44.220827	44.331372	44.424499	44.495805
44.611356	44.860053	45.113492	45.344990	45.561410
45.767979	45.967774	46.162672	46.353879	46.542211
46.728241	46.912391	47.094976	47.276237	47.456366
47.635515	47.813807	47.991345	48.168212	48.344481
48.520210	48.695454	48.870255	49.044652	49.218681
49.392370	49.565745	49.738831	49.911648	50.084214
50.256547	50.428662	50.600572	50.772291	50.943828
51.115196	51.286403	51.457457	51.628368	51.799142
51.969787	52.140308	52.310713	52.481005	52.651190
52.821274	52.991260	53.161152	53.330956	53.500673
53.670308	53.839865	54.009345	54.178752	54.348088
54.517357	54.686560	54.855701	55.024780	55.193801
55.362765	55.531673	55.700529	55.869333	56.038087
56.206793	56.375452	56.544066	56.712635	56.881162
57.049647	57.218091	57.386496	57.554863	57.723193
57.891487	58.059745	58.227969	58.396160	58.564318
58.732444	58.900539	59.068605	59.236640	59.404647
59.572626	59.740577	59.908501	60.076400	60.244272

Row 68

43.397278	43.542047	43.684448	43.823897	43.959582
44.090345	44.214499	44.329686	44.433638	44.532169
44.670365	44.884790	45.117888	45.341355	45.554146
45.758824	45.957524	46.151734	46.342482	46.530493
46.716291	46.900267	47.082718	47.263875	47.443920
47.623002	47.801238	47.978730	48.155558	48.331793
48.507495	48.682714	48.857494	49.031873	49.205885
49.379560	49.552923	49.725997	49.898804	50.071361
50.243686	50.415793	50.587697	50.759409	50.930941
51.102303	51.273505	51.444556	51.615462	51.786233
51.956874	52.127392	52.297793	52.468083	52.638266
52.808347	52.978331	53.148221	53.318022	53.487738
53.657371	53.826926	53.996405	54.165810	54.335145
54.504413	54.673615	54.842754	55.011832	55.180852
55.349815	55.518722	55.687577	55.856380	56.025134
56.193839	56.362497	56.531110	56.699678	56.868204
57.036689	57.205133	57.373537	57.541904	57.710233
57.878526	58.046784	58.215008	58.383198	58.551355
58.719481	58.887576	59.055641	59.223676	59.391682
59.559661	59.727612	59.895536	60.063434	60.231306

Row 69

43.385778	43.530889	43.673763	43.813891	43.950600
44.082991	44.209932	44.330302	44.444599	44.561741
44.710355	44.907440	45.124584	45.339857	45.548471
45.750837	45.948151	46.141473	46.331621	46.519209
46.704698	46.888442	47.070715	47.251731	47.431664
47.610654	47.788816	47.966245	48.143021	48.319212
48.494875	48.670061	48.844812	49.019166	49.193157
49.366812	49.540157	49.713216	49.886009	50.058554
50.230868	50.402965	50.574859	50.746563	50.918087
51.089442	51.260638	51.431682	51.602583	51.773349
51.943986	52.114499	52.284896	52.455182	52.625361
52.795439	52.965420	53.135308	53.305106	53.474819
53.644450	53.814002	53.983479	54.152882	54.322216
54.491481	54.660682	54.829819	54.998896	55.167914
55.336876	55.505782	55.674635	55.843437	56.012190
56.180894	56.349551	56.518163	56.686730	56.855255
57.023739	57.192182	57.360586	57.528951	57.697280
57.865572	58.033830	58.202052	58.370242	58.538399
58.706524	58.874619	59.042683	59.210718	59.378723
59.546701	59.714652	59.882575	60.050473	60.218345

Row 70

43.374642	43.520171	43.663617	43.804557	43.942464
44.076712	44.206683	44.332249	44.455481	44.585116
44.739248	44.926614	45.131991	45.339750	45.544037
45.743844	45.939562	46.131836	46.321264	46.508338
46.693449	46.876907	47.058959	47.239801	47.419594
47.598470	47.776538	47.953889	48.130599	48.306734
48.482349	48.657494	48.832209	49.006532	49.180494
49.354124	49.527448	49.700488	49.873263	50.045792
50.218092	50.390176	50.562059	50.733752	50.905267
51.076613	51.247800	51.418837	51.589731	51.760491
51.931121	52.101629	52.272021	52.442302	52.612477
52.782551	52.952527	53.122411	53.292207	53.461916
53.631544	53.801094	53.970568	54.139969	54.309299
54.478563	54.647761	54.816897	54.985971	55.154988
55.323947	55.492852	55.661704	55.830504	55.999255
56.167958	56.336614	56.505224	56.673791	56.842315
57.010797	57.179239	57.347642	57.516006	57.684334
57.852626	58.020882	58.189104	58.357293	58.525449
58.693574	58.861667	59.029731	59.197765	59.365770
59.533747	59.701697	59.869620	60.037517	60.205389

Row 71

43.363851	43.509862	43.653963	43.795820	43.935051
44.071285	44.204339	44.334780	44.465357	44.603508
44.760880	44.942340	45.139151	45.340412	45.540510
45.737662	45.931651	46.122758	46.311369	46.497853
46.682525	46.865649	47.047441	47.228077	47.407705
47.586446	47.764402	47.941659	48.118291	48.294358
48.469916	48.645011	48.819683	48.993968	49.167897
49.341498	49.514795	49.687811	49.860566	50.033076
50.205359	50.377428	50.549296	50.720976	50.892479
51.063815	51.234992	51.406020	51.576906	51.747657
51.918281	52.088782	52.259168	52.429443	52.599613
52.769681	52.939653	53.109533	53.279324	53.449030
53.618654	53.788200	53.957671	54.127069	54.296397
54.465657	54.634853	54.803986	54.973058	55.142072
55.311030	55.479933	55.648783	55.817581	55.986330
56.155031	56.323685	56.492294	56.660860	56.829382
56.997863	57.166304	57.334705	57.503069	57.671395
57.839686	58.007941	58.176162	58.344350	58.512505

58.680629	58.848722	59.016784	59.184818	59.352822
59.520799	59.688748	59.856670	60.024566	60.192437

Row 72

43.353380	43.499929	43.644752	43.787601	43.928234
44.066498	44.202549	44.337378	44.473861	44.617971
44.777394	44.955029	45.145562	45.341376	45.537593
45.732113	45.924311	46.114172	46.301894	46.487725
46.671907	46.854654	47.036150	47.216552	47.395990
47.574576	47.752404	47.929553	48.106093	48.282083
48.457575	48.632612	48.807233	48.981474	49.155364
49.328931	49.502198	49.675187	49.847917	50.020405
50.192668	50.364718	50.536571	50.708236	50.879725
51.051048	51.222214	51.393231	51.564107	51.734850
51.905465	52.075958	52.246337	52.416605	52.586768
52.756831	52.926798	53.096672	53.266458	53.436159
53.605780	53.775321	53.944788	54.114182	54.283507
54.452764	54.621957	54.791087	54.960157	55.129168
55.298123	55.467024	55.635871	55.804668	55.973415
56.142114	56.310766	56.479373	56.647937	56.816458
56.984937	57.153376	57.321776	57.490139	57.658464
57.826753	57.995007	58.163227	58.331414	58.499568
58.667690	58.835782	59.003844	59.171876	59.339880
59.507855	59.675804	59.843725	60.011621	60.179491

Row 73

43.343206	43.490337	43.635931	43.779821	43.921889
44.062163	44.201037	44.339717	44.480914	44.629307
44.790108	44.965136	45.151002	45.342318	45.535038
45.727033	45.917437	46.106010	46.292791	46.477921
46.661570	46.843905	47.025076	47.205217	47.384444
47.562856	47.740539	47.917567	48.094005	48.269907
48.445323	48.620294	48.794859	48.969050	49.142896
49.316423	49.489656	49.662613	49.835315	50.007779
50.180018	50.352049	50.523882	50.695530	50.867004
51.038312	51.209465	51.380470	51.551335	51.722067
51.892672	52.063157	52.233527	52.403788	52.573944
52.744000	52.913960	53.083828	53.253609	53.423305
53.592920	53.762457	53.931920	54.101310	54.270631
54.439884	54.609073	54.778200	54.947267	55.116275
55.285227	55.454125	55.622970	55.791764	55.960509
56.129206	56.297856	56.466461	56.635022	56.803541
56.972019	57.140457	57.308855	57.477216	57.645539
57.813827	57.982080	58.150298	58.318484	58.486637
58.654758	58.822849	58.990909	59.158940	59.326943
59.494918	59.662865	59.830786	59.998680	60.166549

Row 74

43.333301	43.481049	43.627447	43.772404	43.915905
44.058119	44.199594	44.341602	44.486566	44.638119
44.799887	44.973066	45.155401	45.343023	45.532649
45.722280	45.910929	46.098204	46.284015	46.468411
46.651494	46.833385	47.014204	47.194062	47.373058
47.551279	47.728803	47.905698	48.082021	48.257827
48.433158	48.608057	48.782558	48.956693	49.130490
49.303974	49.477167	49.650090	49.822761	49.995196
50.167410	50.339417	50.511230	50.682859	50.854315
51.025607	51.196745	51.367737	51.538589	51.709309
51.879904	52.050379	52.220739	52.390991	52.561139
52.731187	52.901140	53.071002	53.240777	53.410467

53.580076	53.749608	53.919066	54.088451	54.257767
54.427017	54.596202	54.765325	54.934388	55.103393
55.272342	55.441237	55.610079	55.778870	55.947612
56.116306	56.284954	56.453557	56.622116	56.790633
56.959109	57.127544	57.295941	57.464300	57.632622
57.800908	57.969159	58.137376	58.305560	58.473712
58.641832	58.809921	58.977980	59.146010	59.314012
59.481985	59.649931	59.817851	59.985745	60.153613

Row 75

43.323640	43.472028	43.619249	43.765277	43.910183
44.054235	44.198068	44.342931	44.490922	44.644862
44.807334	44.979155	45.158772	45.343360	45.530281
45.717731	45.904697	46.090690	46.275520	46.459160
46.641652	46.823077	47.003523	47.183077	47.361824
47.539840	47.717192	47.893941	48.070141	48.245840
48.421080	48.595899	48.770330	48.944404	49.118146
49.291582	49.464733	49.637617	49.810253	49.982657
50.154843	50.326825	50.498614	50.670222	50.841658
51.012933	51.184054	51.355031	51.525869	51.696576
51.867159	52.037623	52.207973	52.378215	52.548354
52.718394	52.888339	53.058193	53.227961	53.397644
53.567248	53.736774	53.906226	54.075606	54.244917
54.414162	54.583343	54.752462	54.921521	55.090522
55.259468	55.428359	55.597198	55.765986	55.934725
56.103417	56.272062	56.440662	56.609219	56.777733
56.946207	57.114640	57.283035	57.451391	57.619711
57.787996	57.956245	58.124460	58.292643	58.460793
58.628911	58.796999	58.965057	59.133086	59.301086
59.469058	59.637003	59.804922	59.972814	60.140681

Row 76

43.314196	43.463238	43.611289	43.758376	43.904637
44.050407	44.196356	44.343659	44.494101	44.649881
44.812882	44.983678	45.161169	45.343255	45.527823
45.713289	45.898664	46.083407	46.267262	46.450135
46.632022	46.812962	46.993017	47.172252	47.350736
47.528532	47.705699	47.882292	48.058359	48.233943
48.409084	48.583817	48.758172	48.932179	49.105863
49.279247	49.452350	49.625193	49.797791	49.970161
50.142317	50.314270	50.486034	50.657618	50.829034
51.000289	51.171392	51.342352	51.513175	51.683868
51.854437	52.024889	52.195228	52.365460	52.535588
52.705619	52.875555	53.045402	53.215161	53.384838
53.554434	53.723954	53.893400	54.062775	54.232081
54.401320	54.570496	54.739611	54.908665	55.077663
55.246604	55.415492	55.584327	55.753112	55.921847
56.090536	56.259178	56.427775	56.596330	56.764841
56.933312	57.101743	57.270136	57.438490	57.606808
57.775090	57.943338	58.111551	58.279732	58.447880
58.615997	58.784083	58.952140	59.120167	59.288166
59.456136	59.624080	59.791997	59.959888	60.127754

Row 77

43.304943	43.454645	43.603521	43.751642	43.899194
44.046553	44.194389	44.343777	44.496220	44.653446
44.816854	44.986858	45.162659	45.342672	45.525200
45.708873	45.892761	46.076304	46.259200	46.441307
46.622579	46.803023	46.982672	47.161575	47.339783
47.517348	47.694320	47.870747	48.046672	48.222134

48.397169	48.571809	48.746083	48.920019	49.093639
49.266966	49.440019	49.612817	49.785375	49.957708
50.129830	50.301753	50.473489	50.645048	50.816441
50.987675	51.158759	51.329700	51.500507	51.671184
51.841739	52.012177	52.182504	52.352724	52.522842
52.692863	52.862790	53.032627	53.202378	53.372047
53.541636	53.711149	53.880588	54.049957	54.219257
54.388491	54.557662	54.726771	54.895821	55.064814
55.233751	55.402634	55.571466	55.740247	55.908979
56.077664	56.246303	56.414898	56.583449	56.751958
56.920426	57.088854	57.257244	57.425596	57.593912
57.762192	57.930437	58.098649	58.266827	58.434974
58.603089	58.771173	58.939228	59.107254	59.275251
59.443220	59.611162	59.779078	59.946968	60.114832

Row 78

43.295855	43.446217	43.595905	43.745024	43.893795
44.042613	44.192126	44.343297	44.497389	44.655769
44.819496	44.988876	45.163316	45.341600	45.522360
45.704422	45.886931	46.069331	46.251295	46.432644
46.613300	46.793241	46.972476	47.151035	47.328956
47.506280	47.683049	47.859302	48.035077	48.210409
48.385332	48.559873	48.734061	48.907920	49.081473
49.254740	49.427739	49.600488	49.773002	49.945296
50.117382	50.289273	50.460979	50.632512	50.803879
50.975090	51.146153	51.317075	51.487863	51.658525
51.829064	51.999488	52.169801	52.340009	52.510115
52.680125	52.850042	53.019869	53.189612	53.359272
53.528853	53.698359	53.867791	54.037152	54.206446
54.375674	54.544839	54.713943	54.882988	55.051976
55.220908	55.389787	55.558615	55.727392	55.896120
56.064802	56.233437	56.402028	56.570576	56.739082
56.907547	57.075973	57.244360	57.412710	57.581023
57.749301	57.917544	58.085753	58.253929	58.422074
58.590187	58.758269	58.926322	59.094346	59.262341
59.430309	59.598250	59.766164	59.934052	60.101915

Row 79

43.286908	43.437923	43.588402	43.738478	43.888392
44.038542	44.189541	44.342242	44.497705	44.657020
44.821002	44.989882	45.163211	45.340043	45.519270
45.699889	45.881127	46.062448	46.243513	46.424120
46.604164	46.783598	46.962413	47.140622	47.318248
47.495323	47.671879	47.847950	48.023569	48.198766
48.373570	48.548007	48.722104	48.895883	49.069364
49.242566	49.415508	49.588206	49.760673	49.932925
50.104973	50.276829	50.448504	50.620007	50.791348
50.962535	51.133575	51.304476	51.475246	51.645889
51.816412	51.986820	52.157119	52.327314	52.497407
52.667405	52.837311	53.007129	53.176861	53.346512
53.516085	53.685582	53.855007	54.024361	54.193648
54.362870	54.532029	54.701127	54.870166	55.039149
55.208076	55.376951	55.545774	55.714546	55.883271
56.051948	56.220580	56.389167	56.557712	56.726214
56.894677	57.063099	57.231483	57.399830	57.568141
57.736416	57.904656	58.072863	58.241037	58.409180
58.577291	58.745371	58.913422	59.081444	59.249438
59.417404	59.585342	59.753255	59.921142	60.089003

Row 80

43.278081	43.429737	43.580982	43.731967	43.882946
44.034309	44.186624	44.340643	44.497255	44.657338
44.821526	44.990000	45.162411	45.338015	45.515909
45.695238	45.875310	46.055618	46.235823	46.415708
46.595148	46.774078	46.952470	47.130323	47.307649
47.484468	47.660805	47.836688	48.012144	48.187199
48.361880	48.536209	48.710210	48.883903	49.057309
49.230444	49.403325	49.575968	49.748387	49.920594
50.092602	50.264421	50.436062	50.607535	50.778847
50.950008	51.121025	51.291904	51.462653	51.633277
51.803782	51.974174	52.144458	52.314638	52.484719
52.654704	52.824598	52.994405	53.164127	53.333768
53.503332	53.672821	53.842237	54.011584	54.180863
54.350078	54.519231	54.688323	54.857356	55.026333
55.195255	55.364124	55.532942	55.701710	55.870430
56.039103	56.207731	56.376315	56.544856	56.713355
56.881814	57.050233	57.218614	57.386958	57.555266
57.723538	57.891776	58.059980	58.228152	58.396292
58.564400	58.732479	58.900528	59.068548	59.236539
59.404503	59.572440	59.740351	59.908236	60.076096

Row 81

43.269352	43.421633	43.573615	43.725461	43.877427
44.029892	44.183373	44.338532	44.496115	44.656834
44.821194	44.989332	45.160977	45.335536	45.512268
45.690445	45.869450	46.048812	46.228198	46.407385
46.586234	46.764664	46.942634	47.120129	47.297150
47.473708	47.649821	47.825511	48.000799	48.175707
48.350259	48.524475	48.698377	48.871981	49.045308
49.218372	49.391190	49.563776	49.736143	49.908303
50.080268	50.252049	50.423654	50.595094	50.766377
50.937510	51.108501	51.279357	51.450084	51.620688
51.791175	51.961550	52.131817	52.301982	52.472049
52.642021	52.811903	52.981697	53.151409	53.321040
53.490594	53.660073	53.829481	53.998819	54.168091
54.337299	54.506444	54.675529	54.844557	55.013528
55.182444	55.351308	55.520121	55.688884	55.857599
56.026268	56.194891	56.363471	56.532008	56.700503
56.868958	57.037374	57.205752	57.374093	57.542397
57.710667	57.878902	58.047104	58.215273	58.383410
58.551516	58.719592	58.887639	59.055657	59.223646
59.391608	59.559544	59.727452	59.895336	60.063194

Row 82

43.260703	43.413590	43.566276	43.718933	43.871814
44.025276	44.179793	44.335941	44.494350	44.655604
44.820106	44.987964	45.158964	45.332629	45.508345
45.685491	45.863522	46.042003	46.220613	46.399130
46.577403	46.755342	46.932893	47.110029	47.286742
47.463036	47.638921	47.814412	47.989528	48.164286
48.338705	48.512804	48.686601	48.860114	49.033358
49.206349	49.379100	49.551626	49.723939	49.896050
50.067971	50.239710	50.411279	50.582684	50.753936
50.925040	51.096005	51.266836	51.437540	51.608123
51.778590	51.948947	52.119197	52.289346	52.459397
52.629355	52.799224	52.969007	53.138706	53.308326
53.477870	53.647340	53.816738	53.986068	54.155332
54.324532	54.493670	54.662748	54.831768	55.000733
55.169644	55.338502	55.507309	55.676067	55.844777
56.013441	56.182060	56.350635	56.519168	56.687660
56.856111	57.024523	57.192898	57.361235	57.529536
57.697803	57.866035	58.034233	58.202400	58.370534

58.538638	58.706712	58.874756	59.042771	59.210759
59.378719	59.546652	59.714559	59.882440	60.050296

Row 83

43.252115	43.405587	43.558945	43.712362	43.866087
44.020455	44.175892	44.332902	44.492021	44.653727
44.818348	44.985971	45.156423	45.329316	45.504140
45.680365	45.857507	46.035170	46.213049	46.390923
46.568640	46.746097	46.923233	47.100012	47.276417
47.452445	47.628099	47.803389	47.978328	48.152931
48.327214	48.501192	48.674883	48.848300	49.021458
49.194372	49.367055	49.539519	49.711775	49.883835
50.055709	50.227406	50.398935	50.570305	50.741524
50.912598	51.083534	51.254340	51.425020	51.595581
51.766027	51.936364	52.106596	52.276728	52.446764
52.616708	52.786562	52.956332	53.126020	53.295628
53.465161	53.634620	53.804009	53.973330	54.142585
54.311777	54.480907	54.649978	54.818991	54.987949
55.156853	55.325705	55.494507	55.663259	55.831965
56.000623	56.169238	56.337808	56.506337	56.674824
56.843271	57.011680	57.180050	57.348384	57.516682
57.684945	57.853174	58.021370	58.189533	58.357665
58.525766	58.693837	58.861879	59.029892	59.197877
59.365834	59.533765	59.701670	59.869549	60.037404

Row 84

43.243574	43.397608	43.551603	43.705733	43.860236
44.015424	44.171680	44.329447	44.489177	44.651269
44.815991	44.983414	45.153397	45.325621	45.499660
45.675059	45.851391	46.028296	46.205487	46.382749
46.559928	46.736916	46.913645	47.090070	47.266168
47.441928	47.617348	47.792434	47.967194	48.141639
48.315783	48.489638	48.663218	48.836537	49.009607
49.182442	49.355053	49.527452	49.699650	49.871657
50.043482	50.215135	50.386623	50.557956	50.729140
50.900183	51.071090	51.241868	51.412523	51.583061
51.753485	51.923802	52.094016	52.264130	52.434149
52.604077	52.773918	52.943674	53.113348	53.282945
53.452466	53.621915	53.791294	53.960605	54.129851
54.299034	54.468156	54.637219	54.806225	54.975176
55.144073	55.312919	55.481715	55.650461	55.819161
55.987814	56.156424	56.324989	56.493513	56.661996
56.830439	56.998843	57.167210	57.335540	57.503835
57.672094	57.840320	58.008512	58.176673	58.344802
58.512900	58.680968	58.849007	59.017017	59.185000
59.352955	59.520884	59.688786	59.856664	60.024516

Row 85

43.235065	43.389637	43.544236	43.699032	43.854251
44.010183	44.167171	44.325602	44.485863	44.648288
44.813097	44.980348	45.149927	45.321568	45.494913
45.669570	45.845164	46.021367	46.197913	46.374593
46.551254	46.727787	46.904116	47.080192	47.255985
47.431477	47.606664	47.781544	47.956122	48.130407
48.304409	48.478137	48.651605	48.824822	48.997802
49.170555	49.343093	49.515425	49.687563	49.859514
50.031289	50.202896	50.374342	50.545636	50.716785
50.887794	51.058671	51.229421	51.400050	51.570563
51.740965	51.911261	52.081455	52.251551	52.421553
52.591465	52.761290	52.931031	53.100693	53.270277

53.439786	53.609223	53.778591	53.947893	54.117129
54.286303	54.455416	54.624471	54.793470	54.962413
55.131304	55.300143	55.468932	55.637673	55.806366
55.975014	56.143618	56.312179	56.480698	56.649176
56.817615	56.986015	57.154377	57.322704	57.490994
57.659250	57.827472	57.995661	58.163818	58.331944
58.500039	58.668105	58.836141	59.004149	59.172129
59.340081	59.508008	59.675908	59.843783	60.011633

Row 86

43.226576	43.381662	43.536831	43.692248	43.848127
44.004733	44.162377	44.321396	44.482120	44.644833
44.809717	44.976820	45.146047	45.317177	45.489906
45.663897	45.838818	46.014372	46.190313	46.366441
46.542607	46.718699	46.894638	47.070371	47.245861
47.421088	47.596040	47.770713	47.945109	48.119232
48.293089	48.466689	48.640041	48.813155	48.986042
49.158712	49.331173	49.503437	49.675512	49.847407
50.019129	50.190689	50.362091	50.533345	50.704456
50.875432	51.046277	51.216998	51.387600	51.558087
51.728466	51.898740	52.068913	52.238990	52.408974
52.578869	52.748678	52.918405	53.088052	53.257623
53.427120	53.596546	53.765903	53.935193	54.104420
54.273584	54.442689	54.611735	54.780725	54.949661
55.118544	55.287376	55.456159	55.624893	55.793581
55.962223	56.130821	56.299377	56.467891	56.636364
56.804798	56.973193	57.141552	57.309874	57.478160
57.646413	57.814631	57.982817	58.150970	58.319093
58.487185	58.655247	58.823281	58.991286	59.159263
59.327213	59.495137	59.663034	59.830907	59.998755

Row 87

43.218096	43.373672	43.529378	43.685373	43.841860
43.999080	44.157312	44.316851	44.477983	44.640946
44.805895	44.972869	45.141789	45.312469	45.484651
45.658041	45.832347	46.007302	46.182676	46.358282
46.533974	46.709641	46.885202	47.060598	47.235790
47.410753	47.585471	47.759937	47.934149	48.108108
48.281819	48.455289	48.628524	48.801533	48.974325
49.146909	49.319293	49.491486	49.663497	49.835333
50.007002	50.178512	50.349870	50.521082	50.692155
50.863095	51.033908	51.204598	51.375172	51.545633
51.715987	51.886238	52.056390	52.226447	52.396413
52.566290	52.736083	52.905794	53.075427	53.244984
53.414468	53.583881	53.753227	53.922506	54.091722
54.260877	54.429972	54.599010	54.767992	54.936919
55.105795	55.274620	55.443395	55.612123	55.780804
55.949440	56.118033	56.286583	56.455091	56.623559
56.791989	56.960380	57.128733	57.297051	57.465334
57.633582	57.801796	57.969978	58.138129	58.306248
58.474336	58.642396	58.810426	58.978428	59.146402
59.314350	59.482271	59.650166	59.818036	59.985881

Row 88

43.209614	43.365656	43.521868	43.678403	43.835449
43.993227	44.151988	44.311990	44.473481	44.636665
44.801671	44.968532	45.137182	45.307464	45.479156
45.652004	45.825749	46.000150	46.174995	46.350108
46.525348	46.700605	46.875798	47.050865	47.225764
47.400467	47.574953	47.749212	47.923240	48.097034

48.270598	48.443935	48.617051	48.789954	48.962649
49.135146	49.307450	49.479571	49.651516	49.823292
49.994906	50.166366	50.337677	50.508847	50.679880
50.850784	51.021562	51.192221	51.362766	51.533200
51.703529	51.873757	52.043886	52.213923	52.383869
52.553728	52.723504	52.893199	53.062816	53.232359
53.401830	53.571230	53.740564	53.909832	54.079037
54.248182	54.417267	54.586295	54.755268	54.924188
55.093055	55.261873	55.430641	55.599362	55.768036
55.936666	56.105253	56.273797	56.442300	56.610763
56.779187	56.947573	57.115922	57.284235	57.452513
57.620757	57.788968	57.957146	58.125293	58.293408
58.461494	58.629550	58.797577	58.965575	59.133547
59.301491	59.469410	59.637302	59.805170	59.973013

Row 89

43.201123	43.357608	43.514296	43.671333	43.828893
43.987181	44.146418	44.306834	44.468644	44.632022
44.797078	44.963840	45.132252	45.302180	45.473434
45.645791	45.819022	45.992910	46.167261	46.341908
46.516718	46.691582	46.866419	47.041166	47.215778
47.390223	47.564479	47.738533	47.912376	48.086005
48.259421	48.432625	48.605621	48.778415	48.951013
49.123420	49.295644	49.467691	49.639569	49.811283
49.982841	50.154249	50.325512	50.496638	50.667631
50.838497	51.009241	51.179867	51.350382	51.520788
51.691091	51.861294	52.031401	52.201416	52.371342
52.541182	52.710940	52.880619	53.050221	53.219749
53.389205	53.558593	53.727914	53.897170	54.066364
54.235498	54.404573	54.573592	54.742556	54.911467
55.080326	55.249135	55.417896	55.586610	55.755277
55.923901	56.092481	56.261019	56.429516	56.597974
56.766393	56.934774	57.103118	57.271427	57.439700
57.607940	57.776146	57.944321	58.112463	58.280575
58.448657	58.616709	58.784733	58.952729	59.120697
59.288639	59.456554	59.624444	59.792308	59.960149

Row 90

43.192616	43.349520	43.506655	43.664159	43.822195
43.980946	44.140615	44.301403	44.463496	44.627046
44.792146	44.958821	45.127021	45.296634	45.467493
45.639405	45.812166	45.985580	46.159469	46.333678
46.508078	46.682565	46.857058	47.031494	47.205824
47.380016	47.554045	47.727895	47.901555	48.075019
48.248286	48.421356	48.594231	48.766916	48.939414
49.111731	49.283872	49.455845	49.627654	49.799305
49.970805	50.142160	50.313375	50.484455	50.655407
50.826234	50.996942	51.167536	51.338019	51.508397
51.678672	51.848850	52.018934	52.188927	52.358832
52.528653	52.698393	52.868054	53.037640	53.207153
53.376595	53.545969	53.715276	53.884521	54.053703
54.222826	54.391891	54.560900	54.729854	54.898756
55.067606	55.236408	55.405160	55.573867	55.742527
55.911144	56.079718	56.248250	56.416741	56.585193
56.753606	56.921982	57.090321	57.258625	57.426894
57.595129	57.763331	57.931501	58.099640	58.267748
58.435826	58.603875	58.771895	58.939887	59.107852
59.275791	59.443703	59.611590	59.779452	59.947289

Row 91

43.184085	43.341387	43.498942	43.656881	43.815355
43.974531	44.134591	44.295713	44.458060	44.621762
44.786901	44.953498	45.121511	45.290840	45.461344
45.632851	45.805181	45.978157	46.151614	46.325410
46.499421	46.673548	46.847709	47.021842	47.195899
47.369843	47.543647	47.717295	47.890772	48.064072
48.237190	48.410126	48.582879	48.755453	48.927851
49.100076	49.272134	49.444030	49.615770	49.787357
49.958799	50.130099	50.301264	50.472298	50.643207
50.813995	50.984666	51.155225	51.325677	51.496025
51.666273	51.836425	52.006485	52.176455	52.346339
52.516140	52.685861	52.855504	53.025073	53.194570
53.363997	53.533357	53.702652	53.871883	54.041054
54.210165	54.379219	54.548218	54.717162	54.886055
55.054897	55.223689	55.392434	55.561133	55.729786
55.898396	56.066962	56.235488	56.403973	56.572419
56.740826	56.909197	57.077531	57.245829	57.414094
57.582324	57.750522	57.918688	58.086822	58.254926
58.423000	58.591045	58.759062	58.927051	59.095013
59.262948	59.430857	59.598741	59.766600	59.934435

Row 92

43.175526	43.333204	43.491154	43.649498	43.808376
43.967942	44.128357	44.289780	44.452354	44.616194
44.781368	44.947895	45.115739	45.284815	45.454997
45.626135	45.798069	45.970639	46.143694	46.317100
46.490742	46.664524	46.838366	47.012206	47.185995
47.359696	47.533281	47.706728	47.880024	48.053161
48.226130	48.398931	48.571562	48.744025	48.916321
49.088454	49.260428	49.432247	49.603916	49.775438
49.946820	50.118065	50.289179	50.460166	50.631031
50.801778	50.972412	51.142937	51.313356	51.483673
51.653893	51.824019	51.994053	52.164000	52.333862
52.503642	52.673344	52.842969	53.012521	53.182002
53.351413	53.520759	53.690040	53.859258	54.028416
54.197516	54.366559	54.535547	54.704481	54.873364
55.042197	55.210981	55.379717	55.548408	55.717053
55.885656	56.054216	56.222734	56.391213	56.559653
56.728054	56.896419	57.064748	57.233041	57.401300
57.569526	57.737719	57.905880	58.074011	58.242111
58.410181	58.578222	58.746235	58.914220	59.082179
59.250111	59.418017	59.585897	59.753753	59.921585

Row 93

43.166934	43.324968	43.483288	43.642010	43.801262
43.961184	44.121923	44.283619	44.446398	44.610360
44.775566	44.942031	45.109724	45.278570	45.448460
45.619262	45.790832	45.963025	46.135704	46.308743
46.482036	46.655488	46.829023	47.002581	47.176110
47.349573	47.522941	47.696191	47.869309	48.042282
48.215104	48.387770	48.560279	48.732630	48.904824
49.076864	49.248753	49.420494	49.592090	49.763547
49.934867	50.106057	50.277119	50.448058	50.618879
50.789585	50.960180	51.130669	51.301054	51.471341
51.641532	51.811630	51.981639	52.151562	52.321401
52.491161	52.660842	52.830449	52.999983	53.169447
53.338843	53.508173	53.677440	53.846645	54.015790
54.184878	54.353909	54.522886	54.691810	54.860683
55.029506	55.198281	55.367009	55.535691	55.704329
55.872924	56.041477	56.209989	56.378461	56.546894
56.715290	56.883649	57.051972	57.220260	57.388514
57.556734	57.724923	57.893079	58.061205	58.229301

58.397367	58.565404	58.733413	58.901395	59.069350
59.237278	59.405181	59.573059	59.740911	59.908740

Row 94

43.158304	43.316675	43.475344	43.634417	43.794015
43.954266	44.115299	44.277243	44.440208	44.604281
44.769514	44.935923	45.103479	45.272118	45.441743
45.612238	45.783472	45.955316	46.127643	46.300338
46.473298	46.646436	46.819677	46.992961	47.166237
47.339469	47.512624	47.685681	47.858622	48.031434
48.204108	48.376640	48.549027	48.721266	48.893358
49.065304	49.237107	49.408769	49.580293	49.751682
49.922941	50.094074	50.265083	50.435973	50.606749
50.777413	50.947969	51.118421	51.288773	51.459027
51.629188	51.799259	51.969242	52.139140	52.308956
52.478694	52.648355	52.817943	52.987458	53.156905
53.326285	53.495600	53.664852	53.834043	54.003175
54.172250	54.341270	54.510236	54.679149	54.848012
55.016825	55.185591	55.354310	55.522984	55.691614
55.860201	56.028746	56.197251	56.365716	56.534143
56.702532	56.870885	57.039202	57.207485	57.375734
57.543949	57.712133	57.880285	58.048406	58.216497
58.384559	58.552592	58.720597	58.888575	59.056526
59.224451	59.392350	59.560224	59.728074	59.895900

Row 95

43.149635	43.308324	43.467319	43.626721	43.786640
43.947192	44.108496	44.270665	44.433798	44.597971
44.763230	44.929588	45.097021	45.265471	45.434855
45.605067	45.775992	45.947511	46.119509	46.291879
46.464526	46.637364	46.810322	46.983342	47.156374
47.329380	47.502328	47.675194	47.847960	48.020612
48.193141	48.365540	48.537804	48.709931	48.881920
49.053772	49.225489	49.397071	49.568521	49.739844
49.911040	50.082115	50.253071	50.423912	50.594641
50.765262	50.935778	51.106193	51.276510	51.446732
51.616863	51.786905	51.956861	52.126734	52.296527
52.466243	52.635883	52.805450	52.974948	53.144377
53.313740	53.483039	53.652276	53.821453	53.990572
54.159634	54.328642	54.497596	54.666498	54.835351
55.004154	55.172910	55.341620	55.510285	55.678906
55.847485	56.016023	56.184521	56.352979	56.521399
56.689782	56.858129	57.026440	57.194717	57.362960
57.531170	57.699349	57.867496	58.035612	58.203699
58.371756	58.539785	58.707786	58.875760	59.043708
59.211629	59.379524	59.547395	59.715242	59.883064

Row 96

43.140922	43.299912	43.459215	43.618923	43.779139
43.939970	44.101522	44.263897	44.427182	44.591445
44.756728	44.923040	45.090361	45.258640	45.427802
45.597755	45.768394	45.939612	46.111303	46.283367
46.455715	46.628268	46.800956	46.973721	47.146516
47.319302	47.492047	47.664726	47.837321	48.009815
48.182199	48.354465	48.526607	48.698623	48.870510
49.042267	49.213897	49.385399	49.556776	49.728030
49.899163	50.070179	50.241081	50.411872	50.582554
50.753132	50.923608	51.093985	51.264266	51.434456
51.604555	51.774568	51.944497	52.114344	52.284113
52.453806	52.623425	52.792972	52.962450	53.131861

53.301207	53.470490	53.639712	53.808875	53.977980
54.147029	54.316024	54.484966	54.653857	54.822699
54.991492	55.160238	55.328939	55.497595	55.666208
55.834779	56.003308	56.171798	56.340249	56.508663
56.677039	56.845379	57.013684	57.181955	57.350193
57.518398	57.686571	57.854713	58.022824	58.190906
58.358959	58.526984	58.694981	58.862951	59.030894
59.198812	59.366704	59.534571	59.702414	59.870233

Row 97

43.132165	43.291440	43.451031	43.611025	43.771517
43.932605	44.094385	44.256948	44.420372	44.584718
44.750021	44.916292	45.083511	45.251634	45.420594
45.590308	45.760682	45.931619	46.103022	46.274799
46.446865	46.619146	46.791574	46.964095	47.136661
47.309233	47.481780	47.654276	47.826701	47.999040
48.171281	48.343415	48.515436	48.687340	48.859125
49.030788	49.202330	49.373752	49.545054	49.716239
49.887309	50.058267	50.229114	50.399853	50.570488
50.741022	50.911456	51.081795	51.252041	51.422196
51.592264	51.762248	51.932149	52.101970	52.271714
52.441384	52.610981	52.780508	52.949966	53.119359
53.288688	53.457954	53.627160	53.796308	53.965399
54.134434	54.303416	54.472347	54.641226	54.810057
54.978839	55.147575	55.316266	55.484913	55.653517
55.822080	55.990601	56.159084	56.327527	56.495933
56.664303	56.832637	57.000936	57.169200	57.337432
57.505631	57.673799	57.841936	58.010043	58.178120
58.346168	58.514188	58.682181	58.850146	59.018086
59.185999	59.353888	59.521751	59.689591	59.857406

Row 98

43.123361	43.282904	43.442767	43.603029	43.763778
43.925103	44.087093	44.249828	44.413380	44.577801
44.743123	44.909356	45.076482	45.244461	45.413236
45.582730	45.752859	45.923535	46.094668	46.266174
46.437973	46.609994	46.782174	46.954460	47.126804
47.299169	47.471522	47.643839	47.816099	47.988285
48.160384	48.332388	48.504289	48.676082	48.847763
49.019332	49.190787	49.362128	49.533356	49.704472
49.875478	50.046376	50.217167	50.387856	50.558443
50.728931	50.899324	51.069624	51.239833	51.409954
51.579990	51.749943	51.919816	52.089611	52.259330
52.428976	52.598551	52.768057	52.937495	53.106869
53.276180	53.445429	53.614619	53.783752	53.952828
54.121850	54.290819	54.459737	54.628605	54.797424
54.966196	55.134921	55.303602	55.472240	55.640835
55.809389	55.977902	56.146377	56.314813	56.483212
56.651574	56.819901	56.988193	57.156452	57.324678
57.492871	57.661034	57.829165	57.997267	58.165339
58.333382	58.501398	58.669386	58.837347	59.005283
59.173192	59.341077	59.508936	59.676772	59.844584

Row 99

43.114508	43.274306	43.434424	43.594936	43.755925
43.917470	44.079653	44.242547	44.406216	44.570705
44.736045	44.902243	45.069284	45.237132	45.405735
45.575026	45.744928	45.915360	46.086241	46.257491
46.429037	46.600811	46.772754	46.944813	47.116943
47.289107	47.461273	47.633414	47.805511	47.977546

48.149506	48.321381	48.493162	48.664845	48.836425
49.007899	49.179267	49.350527	49.521680	49.692727
49.863668	50.034506	50.205241	50.375878	50.546416
50.716860	50.887210	51.057471	51.227643	51.397729
51.567733	51.737655	51.907499	52.077267	52.246961
52.416583	52.586135	52.755619	52.925037	53.094392
53.263684	53.432917	53.602090	53.771207	53.940269
54.109277	54.278232	54.447137	54.615993	54.784800
54.953561	55.122276	55.290947	55.459575	55.628161
55.796706	55.965211	56.133677	56.302105	56.470497
56.638852	56.807172	56.975458	57.143710	57.311930
57.480118	57.648274	57.816400	57.984496	58.152564
58.320602	58.488613	58.656597	58.824554	58.992484
59.160390	59.328270	59.496126	59.663958	59.831767

Row 100

43.105607	43.265645	43.426003	43.586750	43.747961
43.909711	44.072073	44.235113	44.398889	44.563441
44.728797	44.894963	45.061926	45.229654	45.398099
45.567202	45.736892	45.907097	46.077740	46.248750
46.420056	46.591596	46.763311	46.935152	47.107076
47.279045	47.451028	47.622998	47.794936	47.966823
48.138645	48.310392	48.482055	48.653628	48.825107
48.996487	49.167768	49.338947	49.510025	49.681002
49.851878	50.022656	50.193335	50.363919	50.534409
50.704807	50.875114	51.045335	51.215469	51.385521
51.555491	51.725383	51.895197	52.064938	52.234605
52.404203	52.573732	52.743194	52.912592	53.081927
53.251201	53.420415	53.589572	53.758673	53.927720
54.096713	54.265655	54.434547	54.603390	54.772186
54.940936	55.109640	55.278301	55.446919	55.615495
55.784031	55.952527	56.120985	56.289405	56.457789
56.626137	56.794450	56.962729	57.130975	57.299188
57.467370	57.635521	57.803641	57.971732	58.139794
58.307827	58.475833	58.643812	58.811765	58.979691
59.147593	59.315469	59.483321	59.651149	59.818954

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Streamlines

Number of Streamlines = 0

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Particle Traces

Number of Particle-traces = 50

Particle-trace #1

```
     Coordinates of Particle-trace:
      Start   x: 849350.000000   y: 253288.000000   time: 0.000000
      End     x: 853405.682864   y: 252582.374378   time: 3164.364385

Particle-trace #2

     Coordinates of Particle-trace:
      Start   x: 849349.802868   y: 253291.133331   time: 0.000000
      End     x: 853406.416377   y: 252592.035701   time: 3164.497786

Particle-trace #3

     Coordinates of Particle-trace:
      Start   x: 849349.214579   y: 253294.217247   time: 0.000000
      End     x: 853406.675056   y: 252601.673835   time: 3164.731572

Particle-trace #4

     Coordinates of Particle-trace:
      Start   x: 849348.244412   y: 253297.203114   time: 0.000000
      End     x: 853406.455233   y: 252611.258058   time: 3165.061692

Particle-trace #5

     Coordinates of Particle-trace:
      Start   x: 849346.907667   y: 253300.043842   time: 0.000000
      End     x: 853405.750312   y: 252620.756237   time: 3165.480463

Particle-trace #6

     Coordinates of Particle-trace:
      Start   x: 849345.225425   y: 253302.694631   time: 0.000000
      End     x: 853404.553805   y: 252630.132984   time: 3165.978494

Particle-trace #7

     Coordinates of Particle-trace:
      Start   x: 849343.224216   y: 253305.113677   time: 0.000000
      End     x: 853402.863701   y: 252639.348508   time: 3166.547486

Particle-trace #8

     Coordinates of Particle-trace:
      Start   x: 849340.935600   y: 253307.262831   time: 0.000000
      End     x: 853400.687404   y: 252648.358706   time: 3167.183653

Particle-trace #9

     Coordinates of Particle-trace:
      Start   x: 849338.395670   y: 253309.108198   time: 0.000000
      End     x: 853398.045951   y: 252657.116864   time: 3167.891127

Particle-trace #10

     Coordinates of Particle-trace:
      Start   x: 849335.644483   y: 253310.620676   time: 0.000000
      End     x: 853394.975922   y: 252665.576926   time: 3168.684523

Particle-trace #11

     Coordinates of Particle-trace:
      Start   x: 849332.725425   y: 253311.776413   time: 0.000000
      End     x: 853391.527886   y: 252673.697787   time: 3169.589965

Particle-trace #12
```

```
     Coordinates of Particle-trace:
      Start   x: 849329.684533   y: 253312.557181   time: 0.000000
      End     x: 853387.761113   y: 252681.447680   time: 3170.644352

Particle-trace #13

     Coordinates of Particle-trace:
      Start   x: 849326.569764   y: 253312.950668   time: 0.000000
      End     x: 853383.735265   y: 252688.807868   time: 3171.893310

Particle-trace #14

     Coordinates of Particle-trace:
      Start   x: 849323.430238   y: 253312.950668   time: 0.000000
      End     x: 853379.500122   y: 252695.775216   time: 3173.388628

Particle-trace #15

     Coordinates of Particle-trace:
      Start   x: 849320.315468   y: 253312.557181   time: 0.000000
      End     x: 853418.961611   y: 252694.644899   time: 3210.842529

Particle-trace #16

     Coordinates of Particle-trace:
      Start   x: 849317.274576   y: 253311.776413   time: 0.000000
      End     x: 853414.358827   y: 252700.887360   time: 3213.000300

Particle-trace #17

     Coordinates of Particle-trace:
      Start   x: 849314.355518   y: 253310.620677   time: 0.000000
      End     x: 853409.514885   y: 252706.833369   time: 3215.582776

Particle-trace #18

     Coordinates of Particle-trace:
      Start   x: 849311.604331   y: 253309.108199   time: 0.000000
      End     x: 853404.313822   y: 252712.551425   time: 3218.669049

Particle-trace #19

     Coordinates of Particle-trace:
      Start   x: 849309.064401   y: 253307.262832   time: 0.000000
      End     x: 853398.576944   y: 252718.124229   time: 3222.389057

Particle-trace #20

     Coordinates of Particle-trace:
      Start   x: 849306.775785   y: 253305.113678   time: 0.000000
      End     x: 853392.111337   y: 252723.631839   time: 3227.035038

Particle-trace #21

     Coordinates of Particle-trace:
      Start   x: 849304.774576   y: 253302.694632   time: 0.000000
      End     x: 853384.920072   y: 252729.093927   time: 3233.398240

Particle-trace #22

     Coordinates of Particle-trace:
      Start   x: 849303.092334   y: 253300.043843   time: 0.000000
      End     x: 853421.789188   y: 252726.581546   time: 3279.471795

Particle-trace #23
```

```
     Coordinates of Particle-trace:
      Start   x: 849301.755588   y: 253297.203115   time: 0.000000
      End     x: 853419.206053   y: 252730.624193   time: 3301.873895

Particle-trace #24

     Coordinates of Particle-trace:
      Start   x: 849300.785421   y: 253294.217248   time: 0.000000
      End     x: 853391.662733   y: 252746.383874   time: 3340.921430

Particle-trace #25

     Coordinates of Particle-trace:
      Start   x: 849300.197133   y: 253291.133332   time: 0.000000
      End     x: 853415.127443   y: 252382.895220   time: 3433.271824

Particle-trace #26

     Coordinates of Particle-trace:
      Start   x: 849300.000000   y: 253288.000001   time: 0.000000
      End     x: 853407.247392   y: 252402.861530   time: 3345.023076

Particle-trace #27

     Coordinates of Particle-trace:
      Start   x: 849300.197132   y: 253284.866671   time: 0.000000
      End     x: 853408.919940   y: 252405.982114   time: 3318.752668

Particle-trace #28

     Coordinates of Particle-trace:
      Start   x: 849300.785421   y: 253281.782754   time: 0.000000
      End     x: 853416.404002   y: 252408.488652   time: 3306.629808

Particle-trace #29

     Coordinates of Particle-trace:
      Start   x: 849301.755587   y: 253278.796888   time: 0.000000
      End     x: 853381.164555   y: 252418.887846   time: 3263.883191

Particle-trace #30

     Coordinates of Particle-trace:
      Start   x: 849303.092332   y: 253275.956160   time: 0.000000
      End     x: 853389.578715   y: 252421.796959   time: 3259.025175

Particle-trace #31

     Coordinates of Particle-trace:
      Start   x: 849304.774574   y: 253273.305370   time: 0.000000
      End     x: 853397.426235   y: 252425.017718   time: 3255.279453

Particle-trace #32

     Coordinates of Particle-trace:
      Start   x: 849306.775783   y: 253270.886324   time: 0.000000
      End     x: 853404.708922   y: 252428.571379   time: 3252.174849

Particle-trace #33

     Coordinates of Particle-trace:
      Start   x: 849309.064399   y: 253268.737170   time: 0.000000
      End     x: 853411.540350   y: 252432.469153   time: 3249.513088

Particle-trace #34
```

```
     Coordinates of Particle-trace:
      Start   x: 849311.604329   y: 253266.891803   time: 0.000000
      End     x: 853418.051786   y: 252436.720174   time: 3247.210919

Particle-trace #35

     Coordinates of Particle-trace:
      Start   x: 849314.355516   y: 253265.379324   time: 0.000000
      End     x: 853380.482719   y: 252449.089394   time: 3209.567097

Particle-trace #36

     Coordinates of Particle-trace:
      Start   x: 849317.274573   y: 253264.223588   time: 0.000000
      End     x: 853386.653950   y: 252454.087572   time: 3207.878535

Particle-trace #37

     Coordinates of Particle-trace:
      Start   x: 849320.315465   y: 253263.442819   time: 0.000000
      End     x: 853392.735829   y: 252459.488313   time: 3206.458203

Particle-trace #38

     Coordinates of Particle-trace:
      Start   x: 849323.430235   y: 253263.049332   time: 0.000000
      End     x: 853398.737419   y: 252465.311867   time: 3205.277417

Particle-trace #39

     Coordinates of Particle-trace:
      Start   x: 849326.569761   y: 253263.049332   time: 0.000000
      End     x: 853404.639894   y: 252471.575079   time: 3204.304169

Particle-trace #40

     Coordinates of Particle-trace:
      Start   x: 849329.684531   y: 253263.442818   time: 0.000000
      End     x: 853410.402257   y: 252478.288004   time: 3203.504248

Particle-trace #41

     Coordinates of Particle-trace:
      Start   x: 849332.725423   y: 253264.223586   time: 0.000000
      End     x: 853415.967655   y: 252485.451034   time: 3202.843108

Particle-trace #42

     Coordinates of Particle-trace:
      Start   x: 849335.644480   y: 253265.379323   time: 0.000000
      End     x: 853421.270358   y: 252493.052806   time: 3202.288279

Particle-trace #43

     Coordinates of Particle-trace:
      Start   x: 849338.395668   y: 253266.891801   time: 0.000000
      End     x: 853382.370185   y: 252508.814034   time: 3166.151373

Particle-trace #44

     Coordinates of Particle-trace:
      Start   x: 849340.935598   y: 253268.737167   time: 0.000000
      End     x: 853386.951793   y: 252517.207865   time: 3165.733030

Particle-trace #45
```

```
     Coordinates of Particle-trace:
      Start   x: 849343.224214   y: 253270.886321   time: 0.000000
      End     x: 853391.092914   y: 252525.934330   time: 3165.361344

Particle-trace #46

     Coordinates of Particle-trace:
      Start   x: 849345.225423   y: 253273.305367   time: 0.000000
      End     x: 853394.759318   y: 252534.941230   time: 3165.033804

Particle-trace #47

     Coordinates of Particle-trace:
      Start   x: 849346.907666   y: 253275.956156   time: 0.000000
      End     x: 853397.932281   y: 252544.174160   time: 3164.755631

Particle-trace #48

     Coordinates of Particle-trace:
      Start   x: 849348.244411   y: 253278.796884   time: 0.000000
      End     x: 853400.606139   y: 252553.580182   time: 3164.537307

Particle-trace #49

     Coordinates of Particle-trace:
      Start   x: 849349.214578   y: 253281.782750   time: 0.000000
      End     x: 853402.784132   y: 252563.110414   time: 3164.391604

Particle-trace #50

     Coordinates of Particle-trace:
      Start   x: 849349.802867   y: 253284.866667   time: 0.000000
      End     x: 853404.473790   y: 252572.721256   time: 3164.330784
```

B3

Base Boundary EPA Capture Zone Analysis

2D - Capture Zone Analysis

Input Required	Units	Hydraulic Gradients Values	Values
Well - D1 Leading Edge EW		3/21/2011 & 11/5 - 6/ 12	21-Mar-12
Aquifer or Screen Thickness (b)	ft	100	100
Hydraulic Conductivity (K)	ft/day	100	100
Hydraulic Gradient (I)	ft/ft	0.0035	0.004
Transmissivity (K*b)	sq ft./day	10000	10000
Simulated Flow Rate (Q)	cubic feet/day	12513	12513
Simulated Flow Rate (Q)	gal/min	65	65
1/2 - Capture Width @ Well	ft	89	78
Ywell = ±Q/4Ti			
Full Capture Width @ Well	ft	179	156
Ywell = Q/2Ti			
Full Max Capture Width Upgradient of Well	ft	358	313
Ymax = Q/Ti			
Stagnation Point	ft	-57	-50
Xo = -Q/2πTi			

Capture Zone Envelope Shape for 3/21/2011 & 11/5 - 6/2012 Gradient 0.0035 ft/ft

X	Y
-57	1
-53	25
-41	50
-34	60
-19	75
-13	80
1	90
19	100
139	135
173	140
215	145
271	150
349	155
1095	170
2643	175

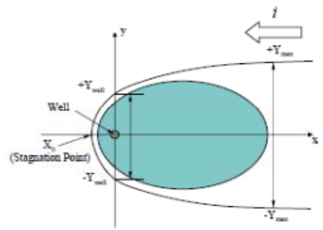
Capture Zone Envelope Shape for 3/21/2012 Gradient 0.0040 ft/ft

X	Y
-50	1
-46	25
-32	50
-23	60
-5	75
3	80
22	90
47	100
294	135
409	140
621	145
1157	150
5444	155

Capture Zone Width Calculation, One Extraction Well

Assumptions:

- homogeneous, isotropic, confined aquifer of infinite extent
- uniform aquifer thickness
- fully penetrating extraction well(s)
- uniform regional horizontal hydraulic gradient
- steady-state flow
- negligible vertical gradient
- no net recharge, or net recharge is accounted for in regional hydraulic gradient
- no other sources of water introduced to aquifer due to extraction (e.g., from rivers or leakage from above or below)



$$x = \frac{-y}{\tan\left(\frac{2\pi Ti}{Q}y\right)} \quad -or- \quad y = \pm\left(\frac{Q}{2Ti}\right) - \left(\frac{Q}{2\pi Ti}\right)\tan^{-1}\left(\frac{y}{x}\right)$$

$$X_0 = -Q/2\pi Ti \quad ; \quad Y_{max} = \pm Q/2Ti \quad ; \quad Y_{well} = \pm Q/4Ti$$

(must use consistent units, such as "ft" for distance and "day" for time)

Where:

Q = extraction rate
T = transmissivity, $K \cdot b$
K = hydraulic conductivity
b = saturated thickness
i = regional (i.e., pre-remedy-pumping) hydraulic gradient
X_0 = distance from the well to the downgradient end of the capture zone along the central line of the flow direction
Y_{max} = maximum capture zone width from the central line of the plume
Y_{well} = capture zone width at the location of well from the central line of the plume

The above equation is used to calculate the outline of the capture zone. Solving the equation for $x = 0$ allows one to calculate the distance between the dividing streamlines at the line of wells ($2 \cdot Y_{well}$) and solving the equation for $x = \infty$ allows one to calculate the distance between the dividing streamlines far upstream from the wells ($2 \cdot Y_{max}$). One can also calculate the distance from the well to the stagnation point (X_0) that marks the downgradient end of the capture zone by solving for x at $y = 0$. For any value of y between 0 and Y_{max}, one can calculate the corresponding x value, allowing the outline of the capture zone to be calculated.

Source:

B4

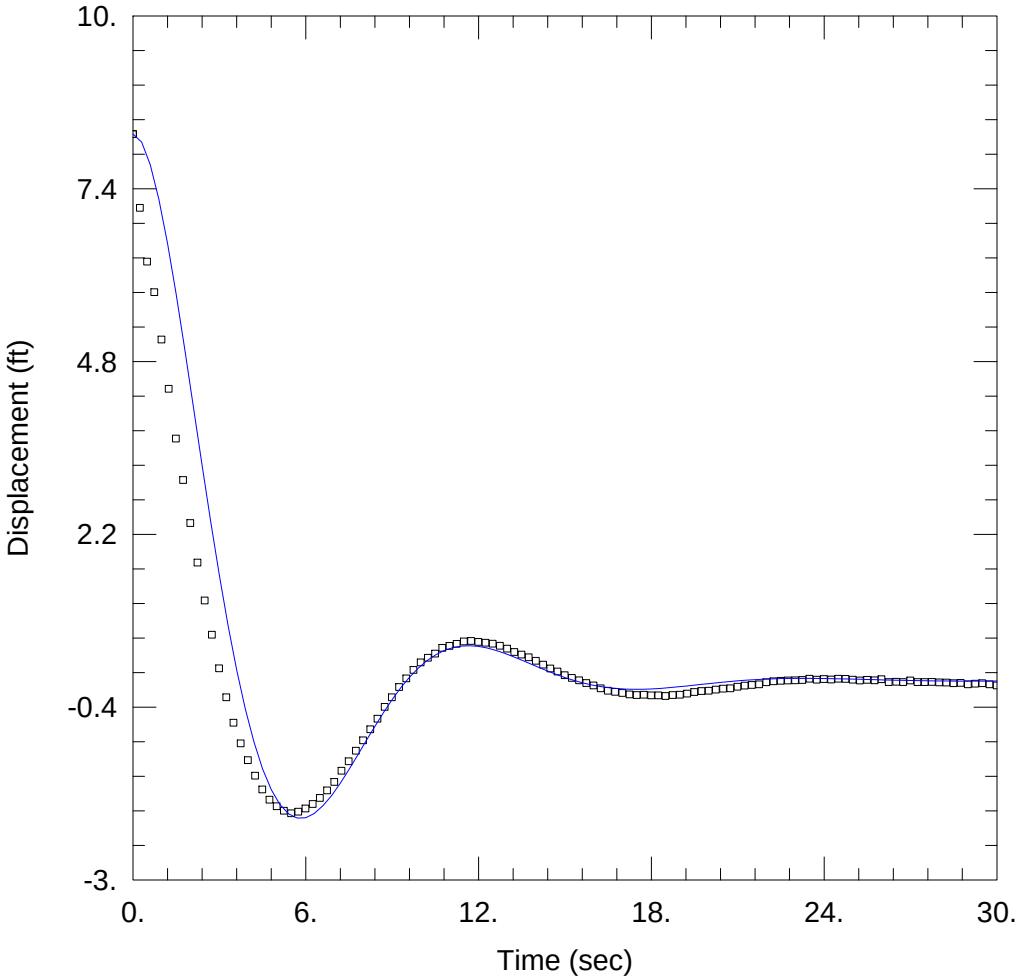
Slug Test Analysis

Demolition Area 1 - Slug Test Results Pneumatic (Rising Head) and Slug-In (Falling Head)
November 2012 and February 2013

Well	Ground Elevation (ft msl)	Monitoring Point Elevation (ft msl)	Depth to Top of Screen (ft bgs)	Depth to Bottom of Screen (ft bgs)	Depth to Water (ft btoc)	Groundwater Elevation (ft msl)	Top of Screen Elevation (ft msl)	Bottom of Screen Elevation (ft msl)	Depth to Top of Screen from Water (ft)	Water Colum Length - Measured from Base of SCreen (ft)	Approximate Aquifer Thickness (ft)	Casing Radius (ft)	Borehole Radius (ft)	DATE	Remarks
MW-554M1	54.3	54.95	120	130	11.72	43.23	-66	-76	109	119	183	0.083	0.25	11/9/2012	
MW-554M2	54.3	54.95	89	99	11.85	43.1	-35	-45	78	88	183	0.083	0.333	11/9/2012	
MW-559M2	51.01	50.82	87	97	15.59	35.23	-36	-46	71	81	180	0.042	0.25	11/9/2012	
MW-556M1	49.6	49.54	153	163	9.73	39.81	-103	-113	143	153	190	0.042	0.25	11/30/2012	
MW-556M2	49.6	49.53	111	121	9.7	39.83	-61	-71	101	111	190	0.042	0.25	11/30/2012	
MW-559M2	51.01	50.82	87	97	15.69	35.13	-36	-46	71	81	180	0.042	0.25	11/30/2012	
MW-559M1	51.01	50.78	135.5	145.5	15.85	34.93	-84	-94	119	129	180	0.042	0.25	11/30/2012	
MW-598M1	64.71	64.21	122	132	43.24	20.97	-57.29	-67.29	78	88	145	0.167	0.250	2/15/2013	Wells were not developed prior to test
MW-598M2	64.71	64.22	88	98	43.27	20.95	-23.29	-33.29	44	54	145	0.167	0.333	2/14/2015	Wells were not developed prior to test
MW-600M1	55.6	55.37	126	136	24.73	30.64	-70.4	-80.4	101	111	180	0.167	0.250	2/14/2013	
MW-600M2	55.6	55.4	44	54	24.06	31.34	11.6	1.6	20	30	180	0.167	0.333	2/14/2013	
MW-601M1	43.89	43.53	121	131	11.91	31.62	-77.11	-87.11	109	119	180	0.167	0.250	2/15/2013	
MW-601M2	43.89	43.58	39	49	8.82	34.76	4.89	-5.11	30	40	180	0.167	0.333	2/15/2013	
MW-602M1	38.98	38.45	109	119	4.79	33.66	-70.02	-80.02	104	114	180	0.167	0.333	2/14/2013	
MW-602M2	38.98	38.65	27	37	2.13	36.52	11.98	1.98	25	35	180	0.167	0.333	2/14/2013	
MW-603M1	43.59	43.24	114	124	7.22	36.02	-70.41	-80.41	106	116	180	0.167	0.333	2/14/2013	
MW-603M2	43.59	43.23	32	42	6.76	36.47	11.59	1.59	25	35	180	0.167	0.333	2/14/2013	
PMHP-3D	60.01	61.97	26.5	36.5	32.95	29.02	33.51	23.51	na	6	160	0.083	0.25	11/30/2012	

Well	Test Type	Test 1	Test 2	Test 3	Average K
MW-554M1	Pneumatic	64	62	56	61
MW-554M2	Pneumatic	16	15	10	13
MW-556M1	Falling - Slug In	89	na	na	89
MW-556M2	Falling - Slug In	1	na	na	1
MW-559M1	Falling - Slug In	10.5	na	na	10.5
MW-559M2	Pneumatic	5	3	2	3
MW-559M2	Falling - Slug In	2	na	na	2
MW-598M1*	Pneumatic	1	1.5	na	1
MW-598M2*	Pneumatic	1	na	na	1
MW-600M1	Pneumatic	24	na	20	22
MW-600M2	Pneumatic	12	na	8	10
MW-601M1	Pneumatic	30	30	na	30
MW-601M2	Pneumatic	50	46	45	47
MW-602M1	Pneumatic	na	13	13	13
MW-602M2	Pneumatic	40	na	35	37
MW-603M1	Pneumatic	na	12	12	12
MW-603M2	Pneumatic	6	5	5	5
PMHP-3D/****[1]	Falling - Slug In	7.5	na	na	7.5
				Maximum	89
				Minimum	1
				Geometric Mean	10
				Average	20

* - Wells were not developed prior to testing
** - Well was slug tested on 10/7/2003 by Brown & Caldwell results were 27 ft/d & 29 ft/d in repeat tests
*** - Partially saturated screen - Falling Head is theoretically not applicable as water could be lost to formation - Consider estimated



MW-554M1_TEST 1_10 FT

Data Set: R:\Demo Area 1\2013_Monitoring_Report\Slug Tests\MW-554M1_T1_10ft.aqt
Date: 11/15/12 Time: 16:39:37

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

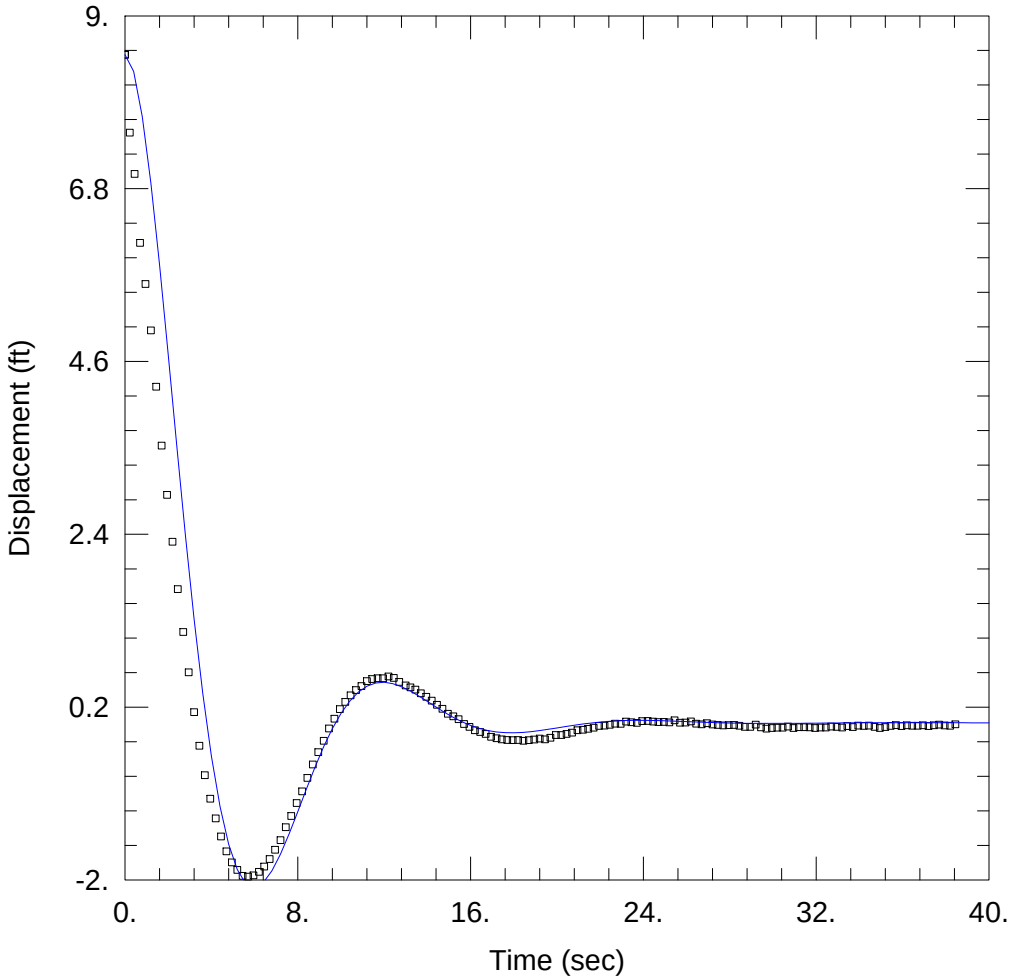
Saturated Thickness: 183. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-554M1)

Initial Displacement: 8.223 ft
Total Well Penetration Depth: 119. ft
Casing Radius: 0.083 ft
Static Water Column Height: 119. ft
Screen Length: 10. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 64.07 ft/day
Le = 92.74 ft



MW-554M1_TEST 2_10 FT

Data Set: R:\Demo Area 1\2013_Monitoring_Report\Slug Tests\MW-554M1_T2_10ft.aqt
Date: 11/15/12 Time: 16:40:10

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

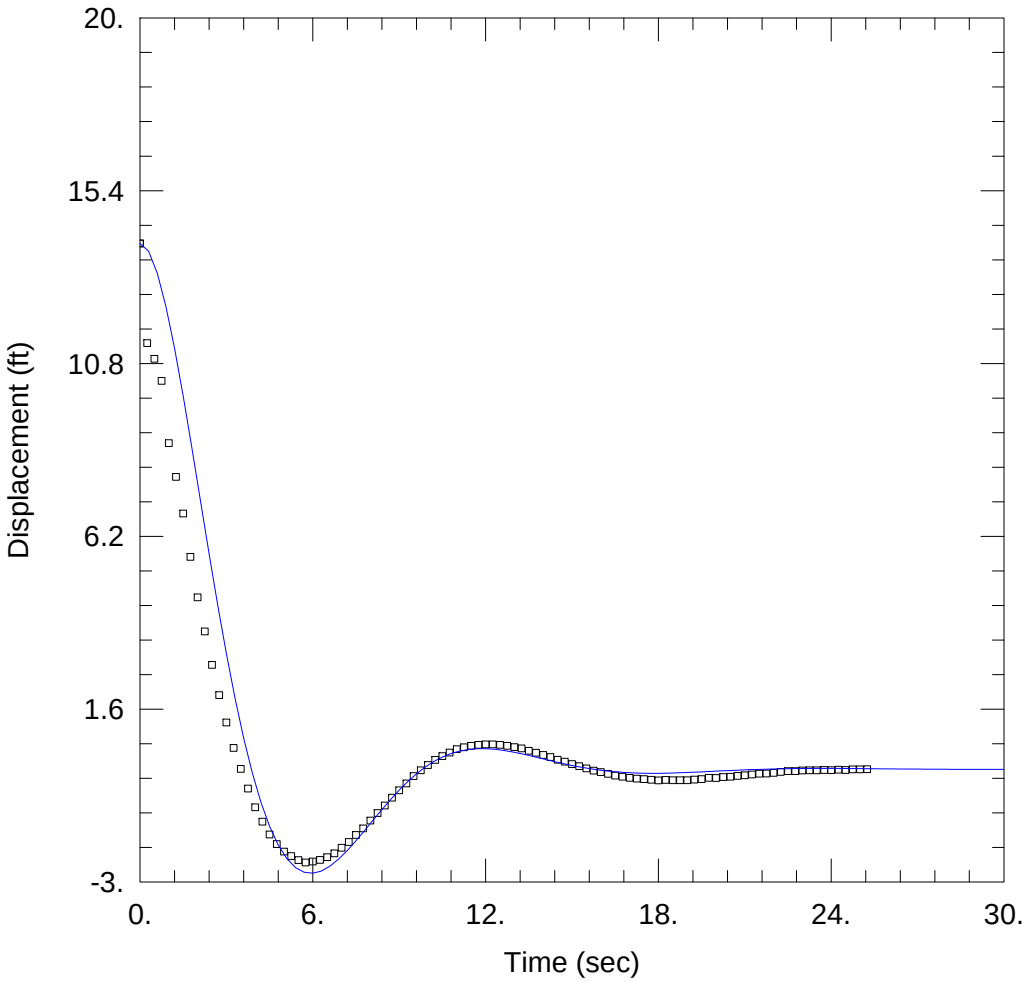
Saturated Thickness: 183. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-554M1)

Initial Displacement: 8.505 ft
Total Well Penetration Depth: 119. ft
Casing Radius: 0.083 ft
Static Water Column Height: 119. ft
Screen Length: 10. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 61.75 ft/day
Le = 96.74 ft



MW-554M1_TEST 3_15 FT

Data Set: R:\Demo Area 1\2013_Monitoring_Report\Slug Tests\MW-554M1_T3.aqt
Date: 11/15/12 Time: 16:41:05

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

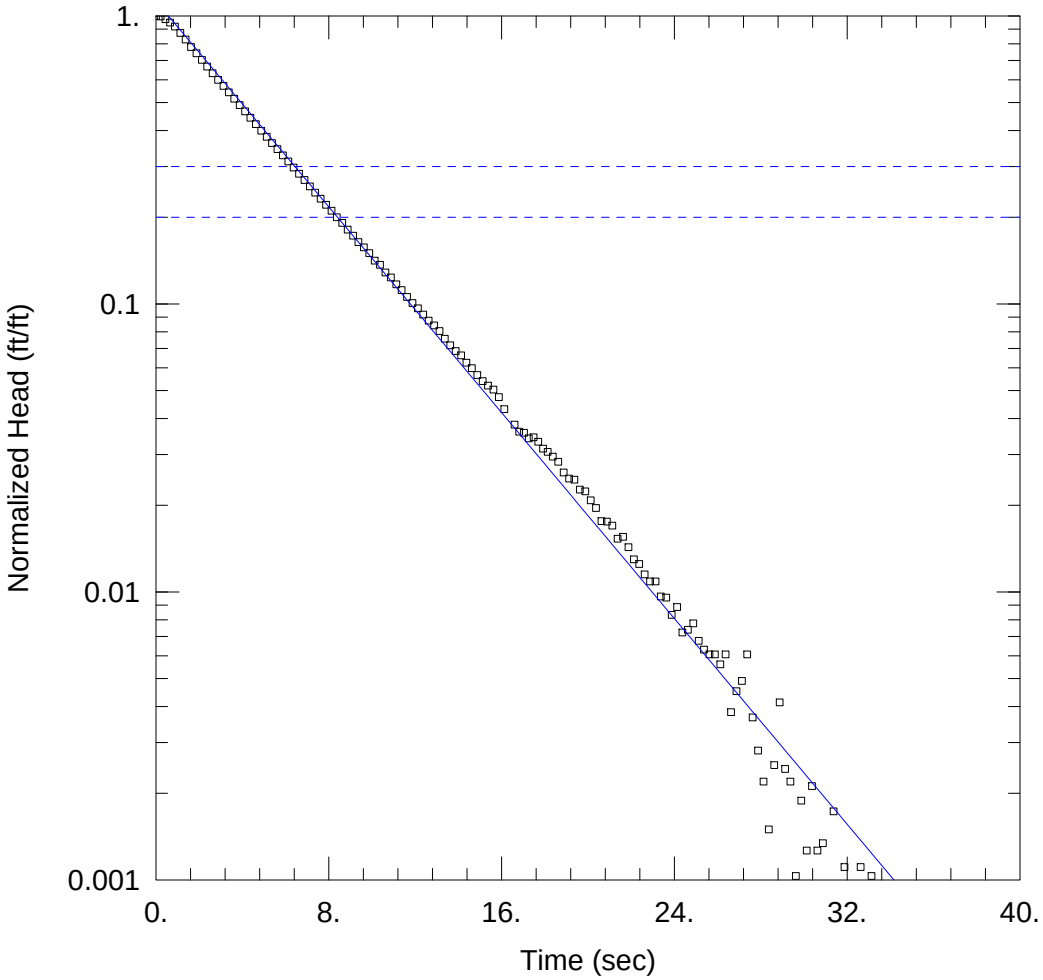
Saturated Thickness: 183. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-554M1)

Initial Displacement: 14. ft
Total Well Penetration Depth: 119. ft
Casing Radius: 0.083 ft
Static Water Column Height: 119. ft
Screen Length: 10. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 56.48 ft/day
Le = 90.71 ft



MW-554M2_TEST 1_15 FT

Data Set: R:\Demo Area 1\2013_Monitoring_Report\Slug Tests\MW-554M2_T1.aqt
Date: 11/15/12 Time: 16:37:51

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

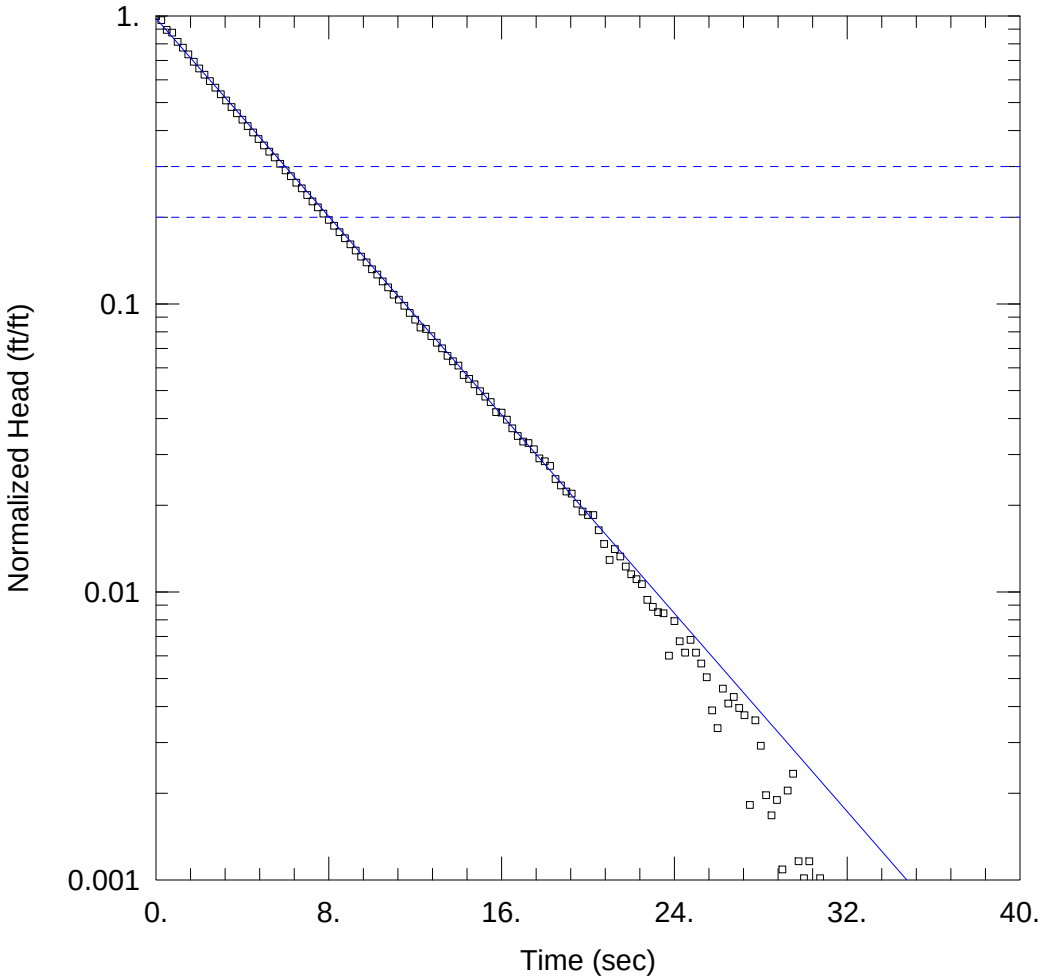
Saturated Thickness: 183. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-554M2)

Initial Displacement: 12.9 ft
Total Well Penetration Depth: 88. ft
Casing Radius: 0.083 ft
Static Water Column Height: 88. ft
Screen Length: 10. ft
Well Radius: 0.42 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 16.16 ft/day
y0 = 14.52 ft



MW-554M2_TEST2_15 FT

Data Set: R:\Demo Area 1\2013_Monitoring_Report\Slug Tests\MW-554M2_T2.aqt
Date: 11/15/12 Time: 16:37:40

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

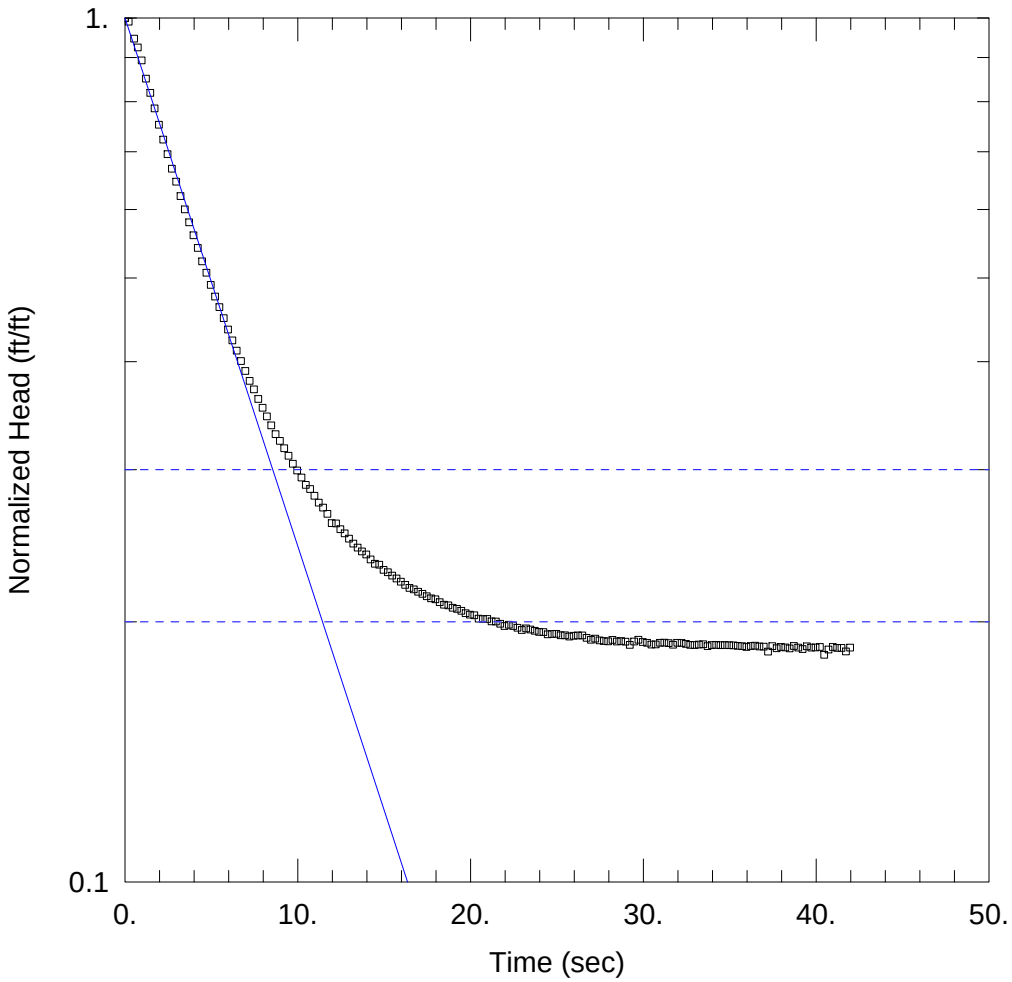
Saturated Thickness: 183. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-554M2)

Initial Displacement: 13.61 ft
Total Well Penetration Depth: 88. ft
Casing Radius: 0.083 ft
Static Water Column Height: 88. ft
Screen Length: 10. ft
Well Radius: 0.42 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 14.75 ft/day
y0 = 13.37 ft



MW-554M2_TEST3_SLOPE1

Data Set: R:\Demo Area 1\2013_Monitoring_Report\Slug Tests\MW-554M2_T3.aqt
Date: 11/15/12 Time: 16:37:07

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

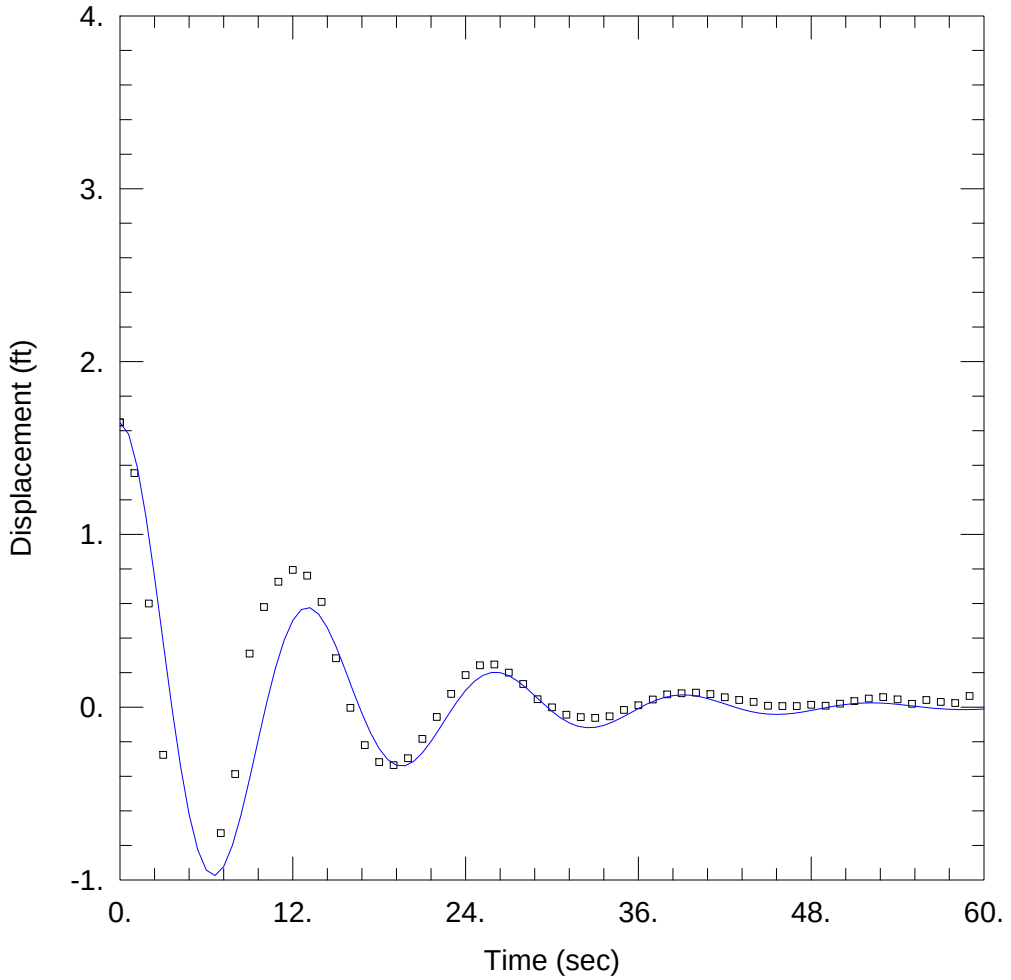
Saturated Thickness: 183. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-554M2)

Initial Displacement: 15.72 ft
Total Well Penetration Depth: 88. ft
Casing Radius: 0.083 ft
Static Water Column Height: 88. ft
Screen Length: 10. ft
Well Radius: 0.42 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 9.513 ft/day
y0 = 15.73 ft



MW-556M1 - FALLING HEAD

Data Set: R:\Demo Area 1\2013_Technical_Memorandum\Slug Tests\MW-556M1_T1_FAlling.aqt
Date: 12/03/12 Time: 13:21:20

PROJECT INFORMATION

Company: USACE
Location: MMR
Test Well: MW-556M1
Test Date: 11/30/2012

AQUIFER DATA

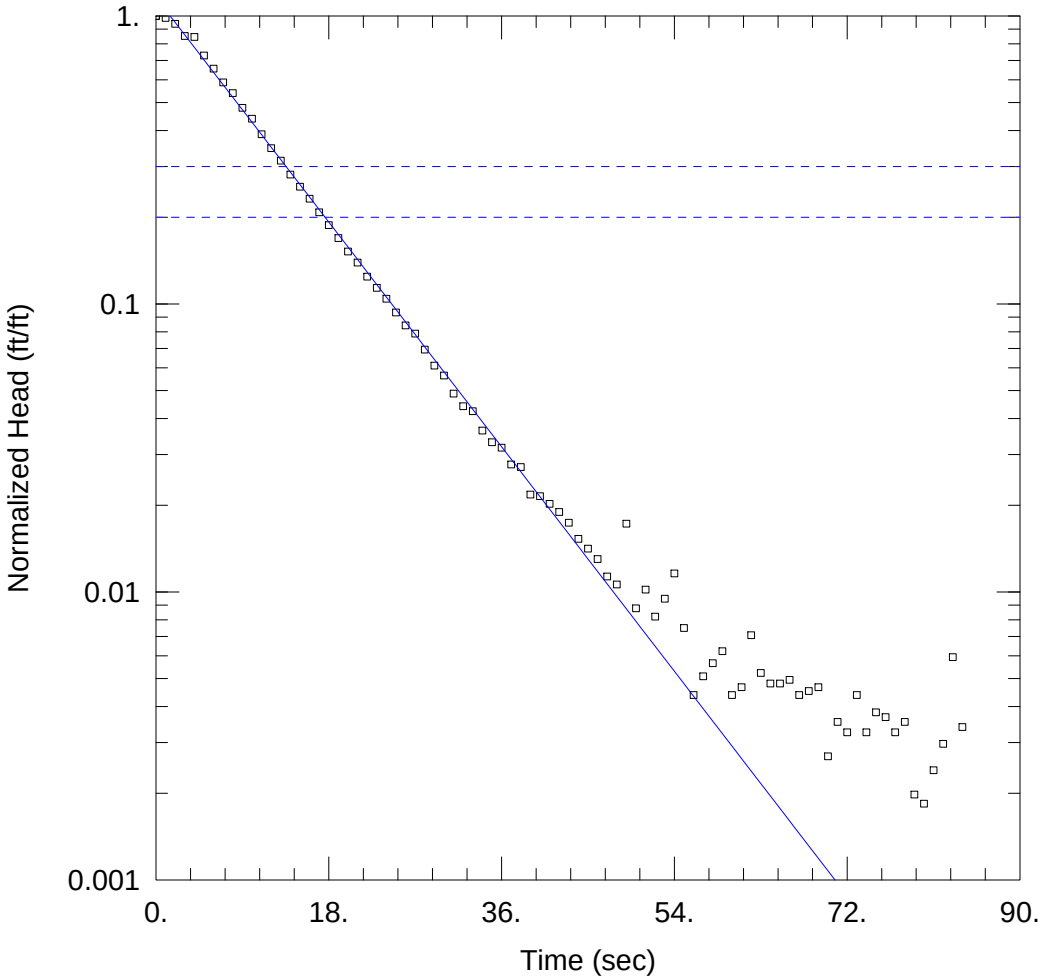
Saturated Thickness: 190. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-556M1)

Initial Displacement: 1.648 ft
Total Well Penetration Depth: 153. ft
Casing Radius: 0.042 ft
Static Water Column Height: 153. ft
Screen Length: 10. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 88.56 ft/day
Le = 134.6 ft



MW-556M2 - FALLING HEAD

Data Set: R:\Demo Area 1\2013_Technical_Memorandum\Slug Tests\MW-556M2_T2_Falling.aqt
Date: 12/03/12 Time: 13:20:00

PROJECT INFORMATION

Company: USACE
Location: MMR
Test Well: MW-556M2
Test Date: 11/30/2012

AQUIFER DATA

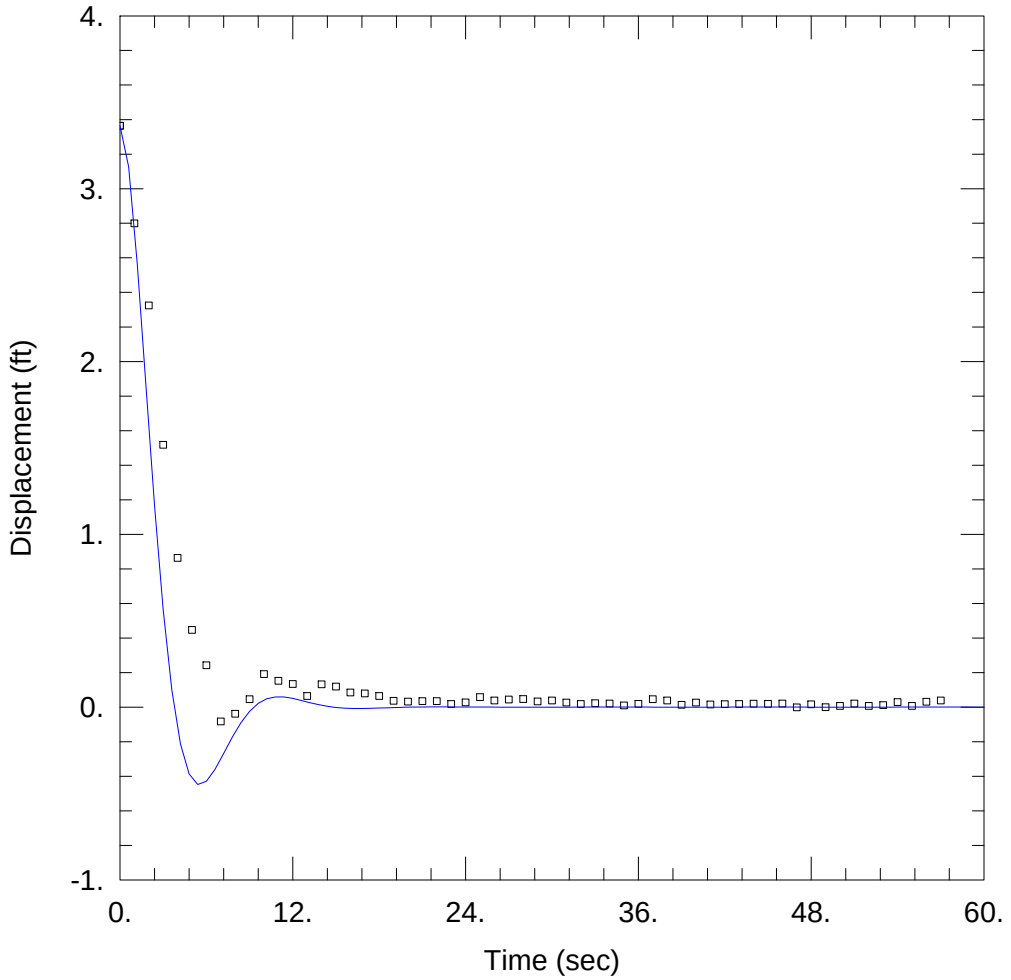
Saturated Thickness: 190. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-556M2)

Initial Displacement: 7.071 ft
Total Well Penetration Depth: 111. ft
Casing Radius: 0.042 ft
Static Water Column Height: 111. ft
Screen Length: 10. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 1.186 ft/day
y0 = 8.191 ft



MW-559M1 - FALLING HEAD

Data Set: R:\Demo Area 1\2013_Technical_Memorandum\Slug Tests\MW-559M1_T1.aqt
Date: 12/03/12 Time: 14:37:21

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

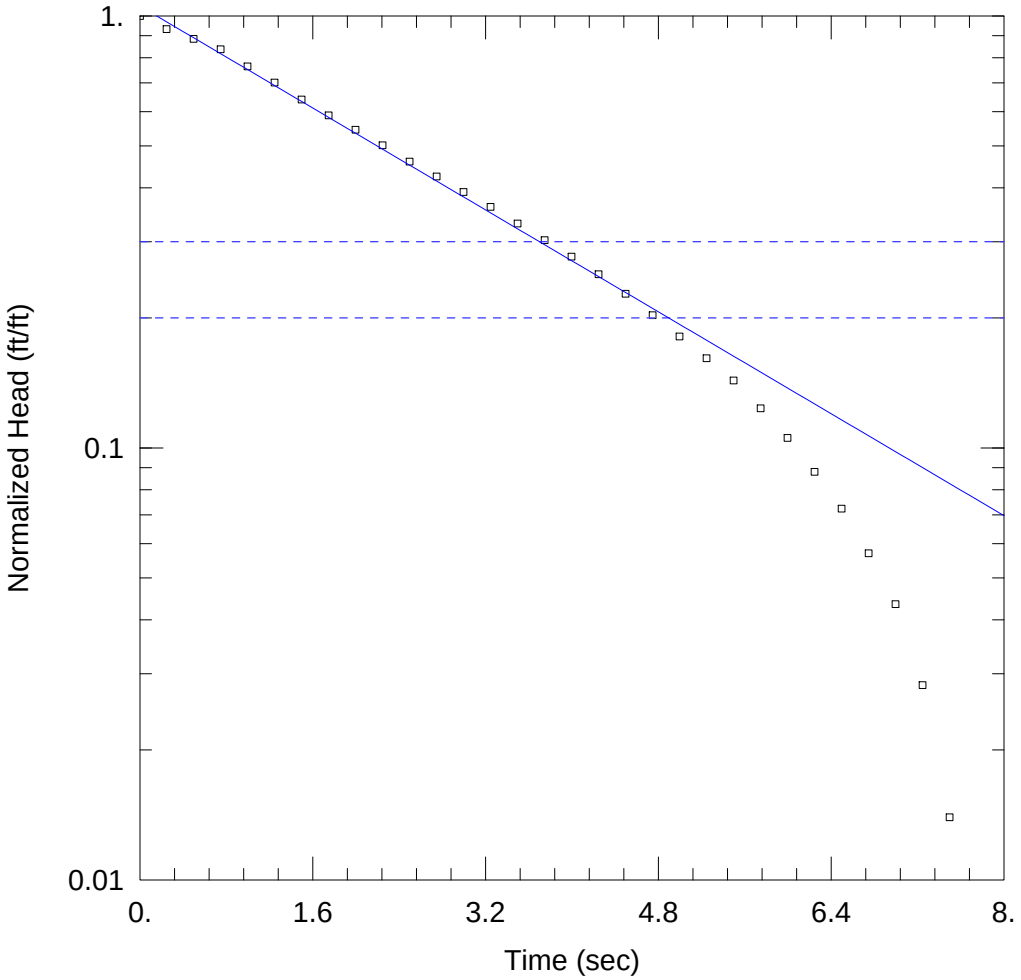
Saturated Thickness: 180. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-559M1)

Initial Displacement: 3.364 ft
Total Well Penetration Depth: 129. ft
Casing Radius: 0.042 ft
Static Water Column Height: 129. ft
Screen Length: 10. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 10.61 ft/day
Le = 70.47 ft



MW-559M2_TEST1_B=180 FT

Data Set: R:\Demo Area 1\2013_Monitoring_Report\Slug Tests\MW-559M2_T1.aqt
Date: 11/15/12 Time: 16:42:07

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

Saturated Thickness: 180. ft
Anisotropy Ratio (Kz/Kr): 1.

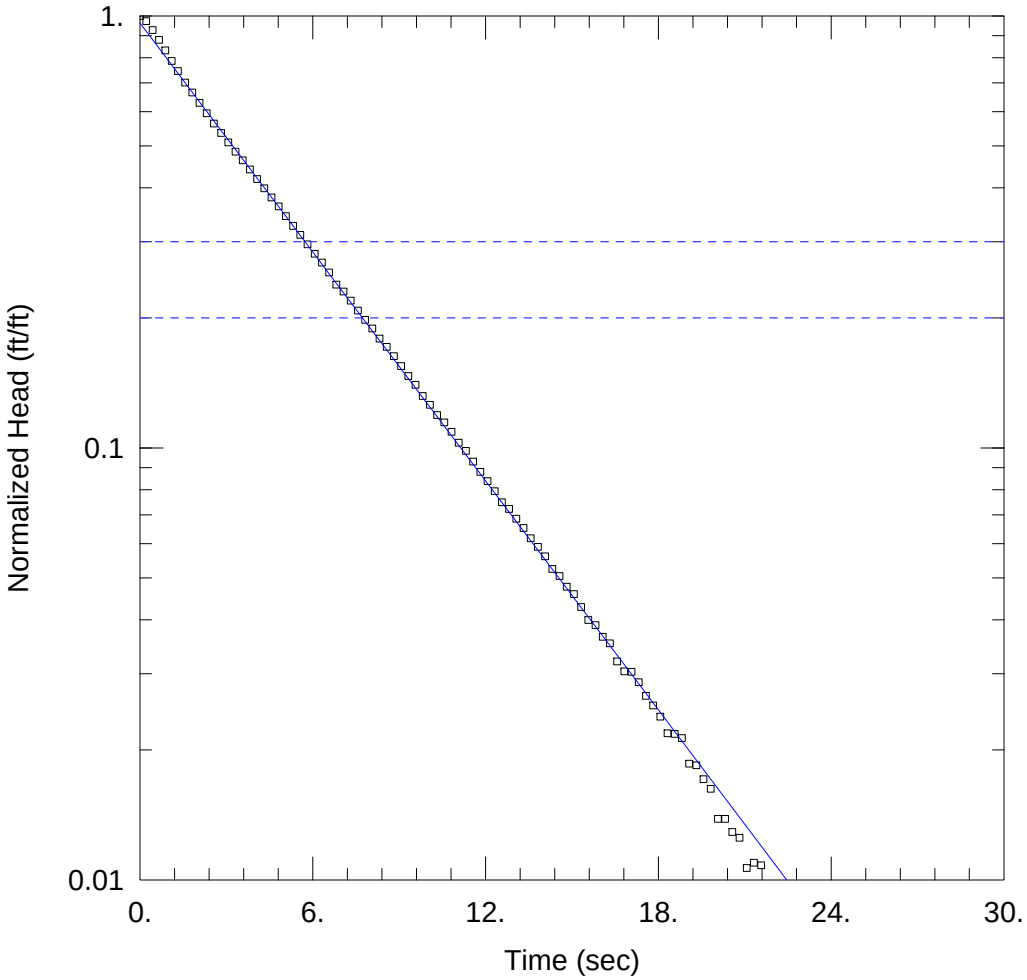
WELL DATA (MW-559M2)

Initial Displacement: 10.71 ft
Total Well Penetration Depth: 81. ft
Casing Radius: 0.042 ft
Static Water Column Height: 81. ft
Screen Length: 10. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.4

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 5.44 ft/day
y0 = 11.28 ft



MW-559M2 - TEST 2

Data Set: R:\Demo Area 1\2013_Monitoring_Report\Slug Tests\MW-559M2_T2_B_180ft.aqt
Date: 11/15/12 Time: 16:42:58

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

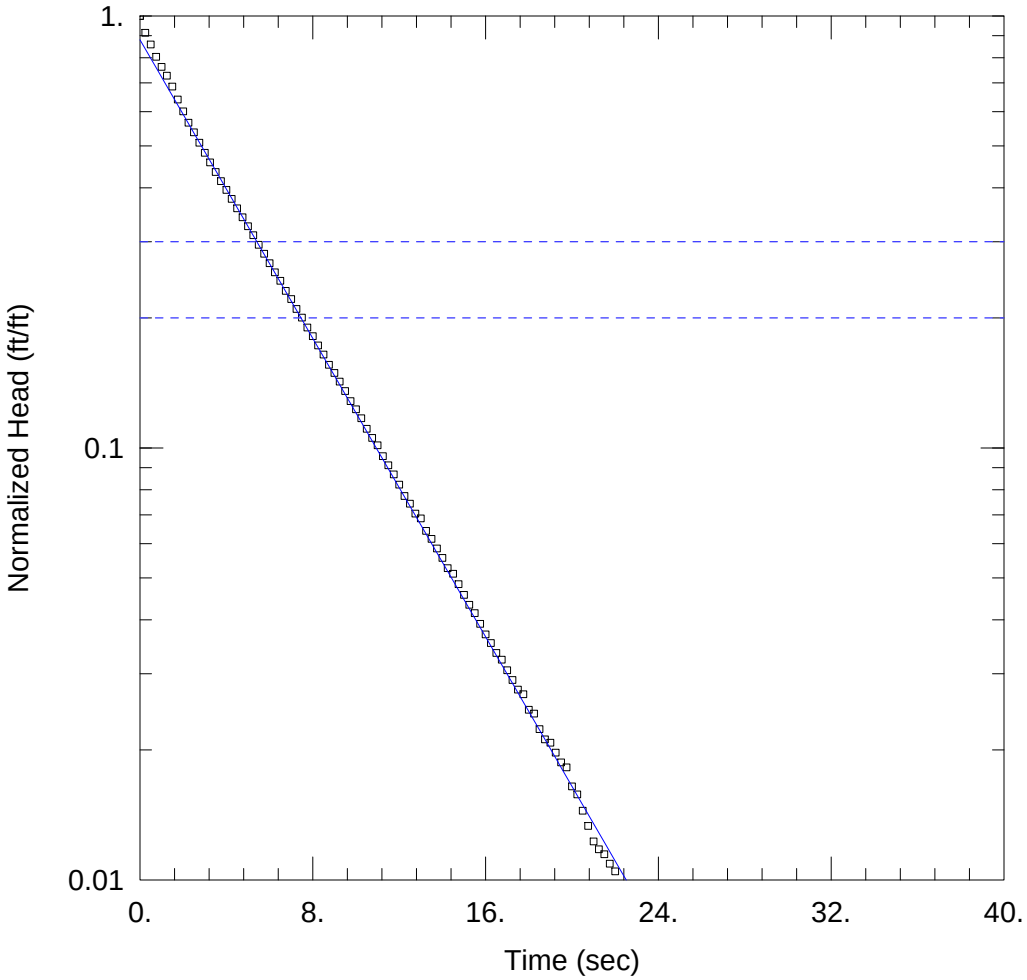
Saturated Thickness: 180. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-559M2)

Initial Displacement: 12.86 ft
Total Well Penetration Depth: 81. ft
Casing Radius: 0.042 ft
Static Water Column Height: 81. ft
Screen Length: 10. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.4

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 2.714 ft/day
y0 = 12.39 ft



MW-559M2 - TEST 3

Data Set: R:\Demo Area 1\2013_Monitoring_Report\Slug Tests\MW-559M2_T3_B_180ft.aqt
Date: 11/15/12 Time: 16:43:48

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

Saturated Thickness: 180. ft Anisotropy Ratio (Kz/Kr): 1.

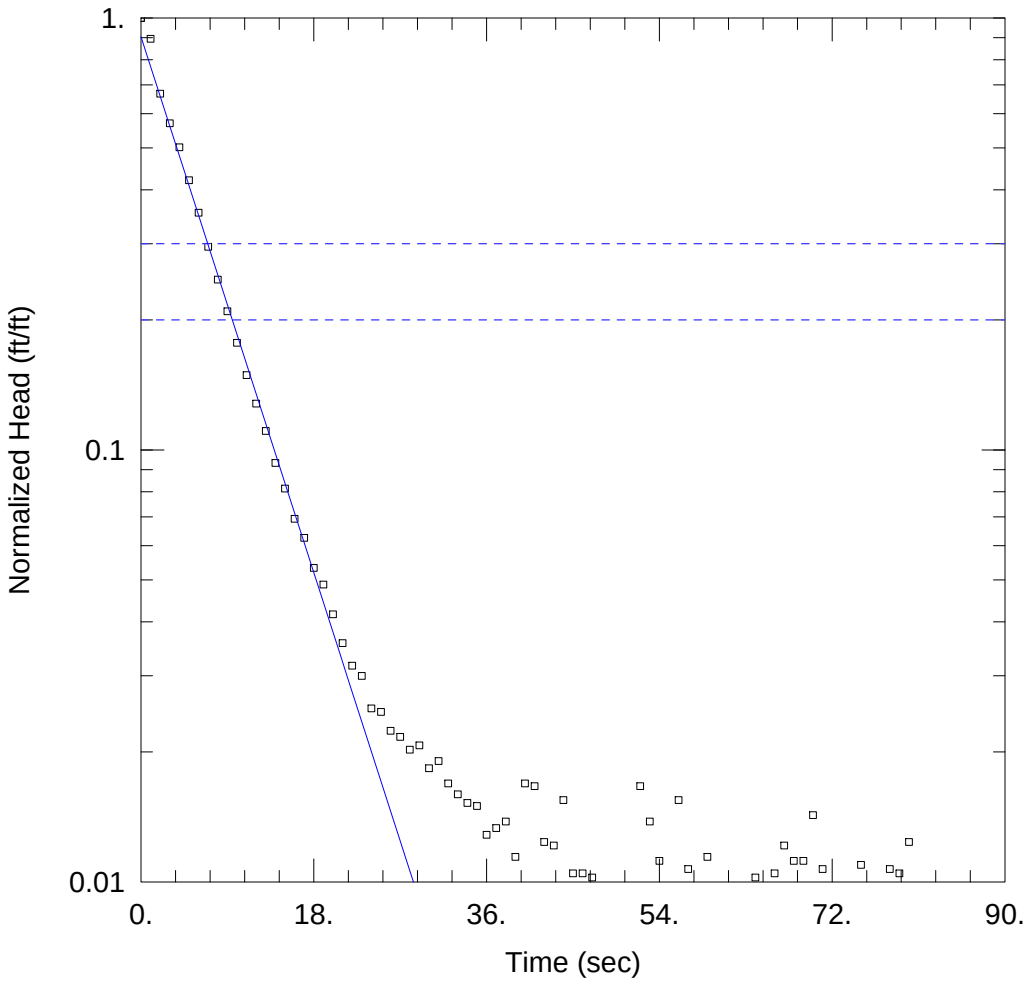
WELL DATA (MW-559M2)

Initial Displacement: 16. ft
Total Well Penetration Depth: 81. ft
Casing Radius: 0.042 ft
Static Water Column Height: 81. ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 2.275 ft/day
y0 = 14.09 ft



MW-559M2 - TEST 1 FALLING (REPLICATE OF PNEUMATIC) - 180 FEET

Data Set: R:\Demo Area 1\2013_Technical_Memorandum\Slug Tests\MW-559M2_T1_Falling_B_180ft.aqt
Date: 12/03/12 Time: 13:51:39

PROJECT INFORMATION

Company: USACE
Location: MMR
Test Well: MW-559M2
Test Date: 11/30/2012

AQUIFER DATA

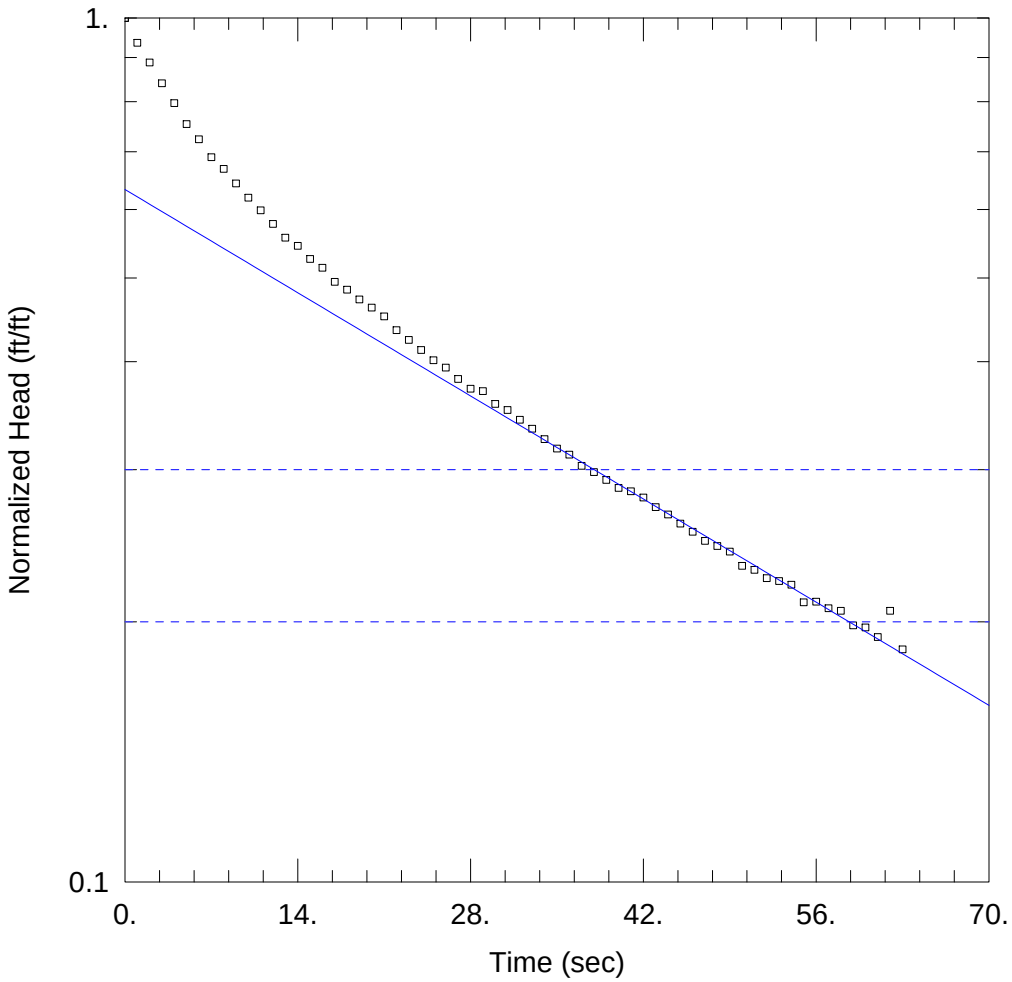
Saturated Thickness: 180. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-559M2)

Initial Displacement: 4.202 ft
Total Well Penetration Depth: 81. ft
Casing Radius: 0.042 ft
Static Water Column Height: 81. ft
Screen Length: 10. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.4

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 1.815 ft/day
y0 = 3.801 ft



PHMP-3D - FALLING HEAD (EST.) _UNSATURATED ZONE

Data Set: R:\Demo Area 1\2013_Technical_Memorandum\Slug Tests\PMHP-3D_Falling-T1.aqt
Date: 12/03/12 Time: 13:18:30

PROJECT INFORMATION

Company: USACE
Location: MMR
Test Well: MW-556M2
Test Date: 11/30/2012

AQUIFER DATA

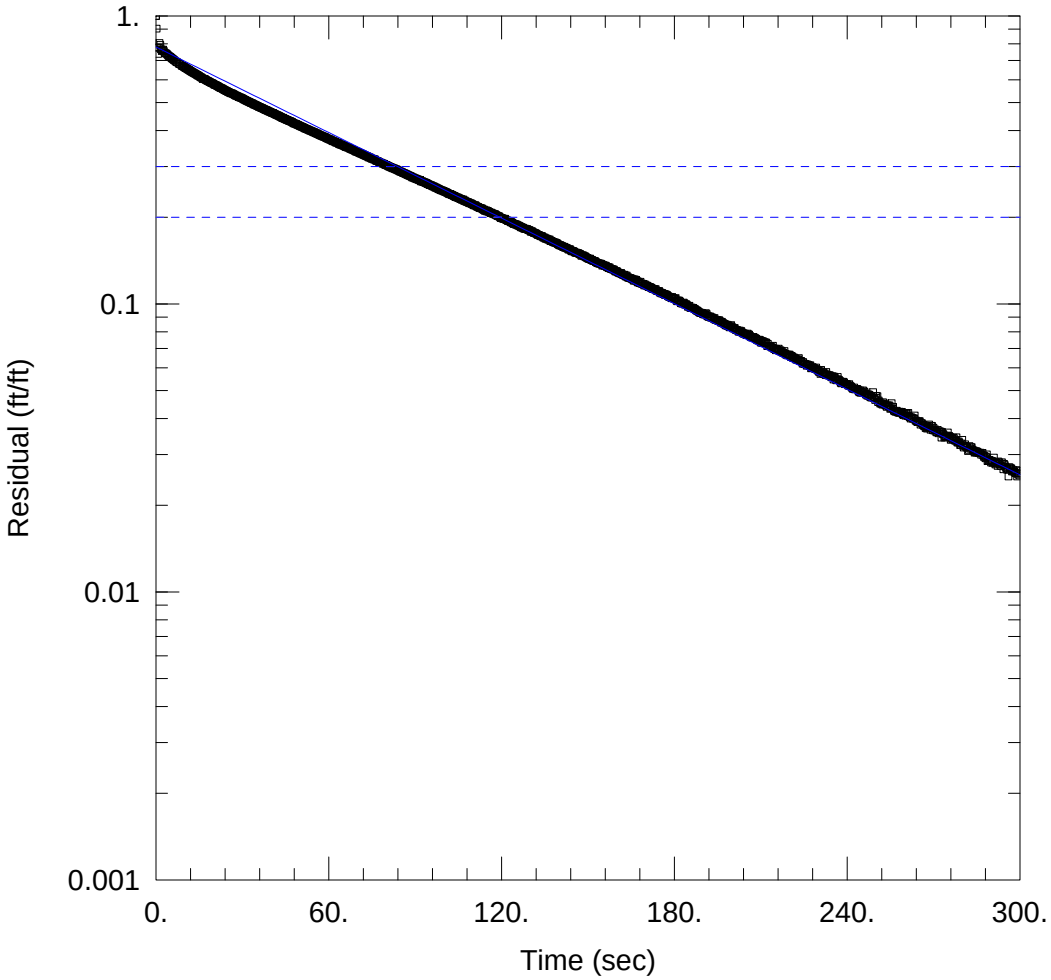
Saturated Thickness: 160. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (PMHP-3D)

Initial Displacement: 3.583 ft
Total Well Penetration Depth: 5. ft
Casing Radius: 0.083 ft
Static Water Column Height: 5. ft
Screen Length: 5. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 7.5 ft/day
y0 = 2.268 ft



MW-598M2_T1

Data Set: \...\MW-598M2_T1.aqt
Date: 03/07/13 Time: 17:15:42

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

Saturated Thickness: 145. ft Anisotropy Ratio (Kz/Kr): 1.

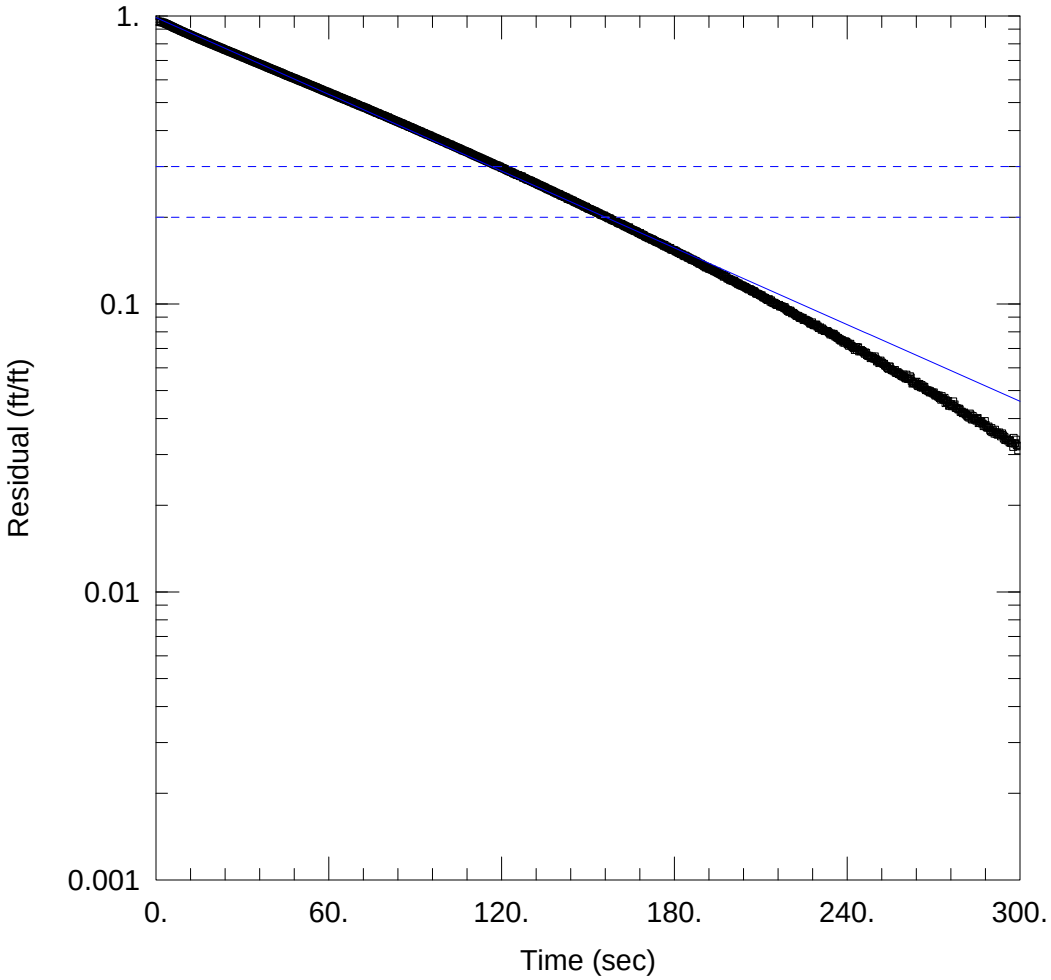
WELL DATA (MW-598M2)

Initial Displacement: 13.4 ft
Total Well Penetration Depth: 55. ft
Casing Radius: 0.083 ft
Static Water Column Height: 55. ft
Screen Length: 10. ft
Well Radius: 0.333 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.7954 ft/day
y0 = 10.45 ft



MW-598M1_T1

Data Set: \...\MW-598M1_T1.aqt
Date: 03/07/13 Time: 16:58:01

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

Saturated Thickness: 145. ft Anisotropy Ratio (Kz/Kr): 1.

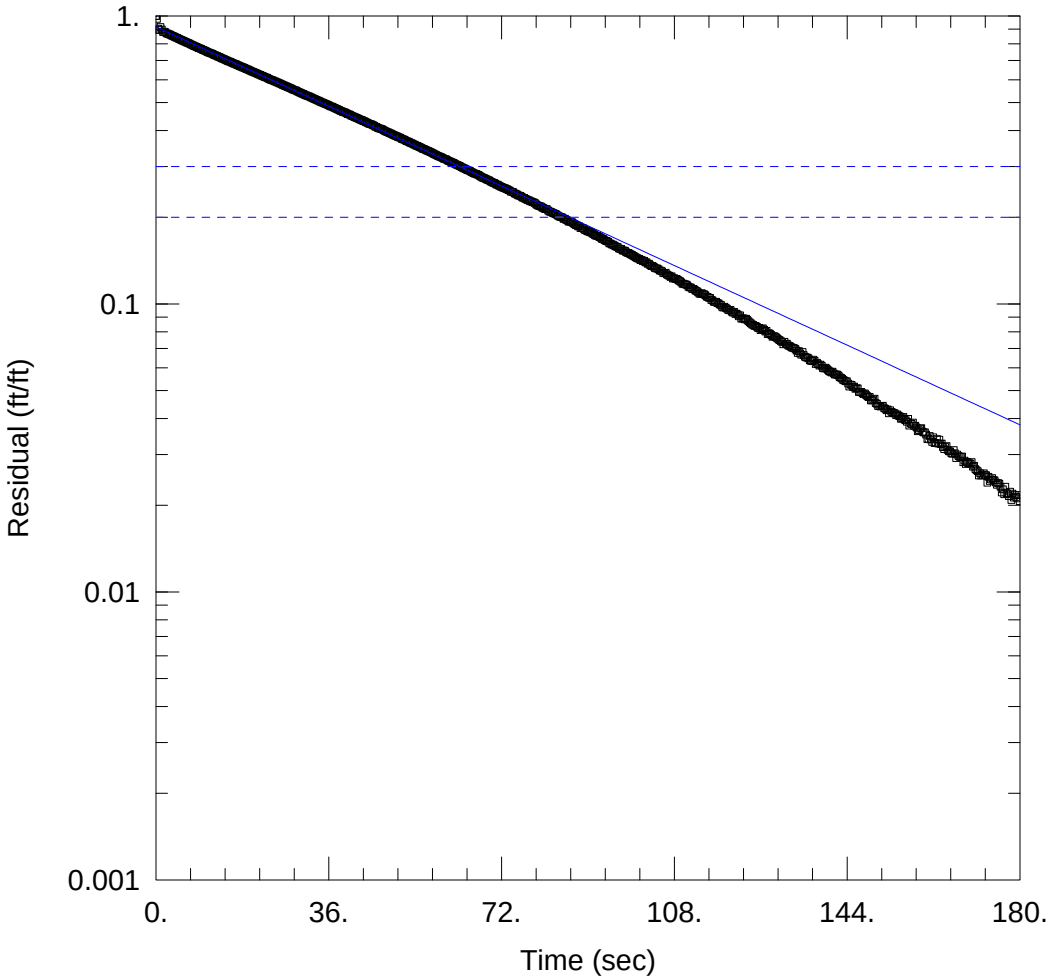
WELL DATA (MW-598M1)

Initial Displacement: 14.48 ft
Total Well Penetration Depth: 87.5 ft
Casing Radius: 0.083 ft
Static Water Column Height: 87.5 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.8329 ft/day
y0 = 14.29 ft



MW-598M1_T2

Data Set: \...\MW-598M1_T1.aqt
Date: 03/07/13 Time: 16:54:32

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

Saturated Thickness: 145. ft Anisotropy Ratio (Kz/Kr): 1.

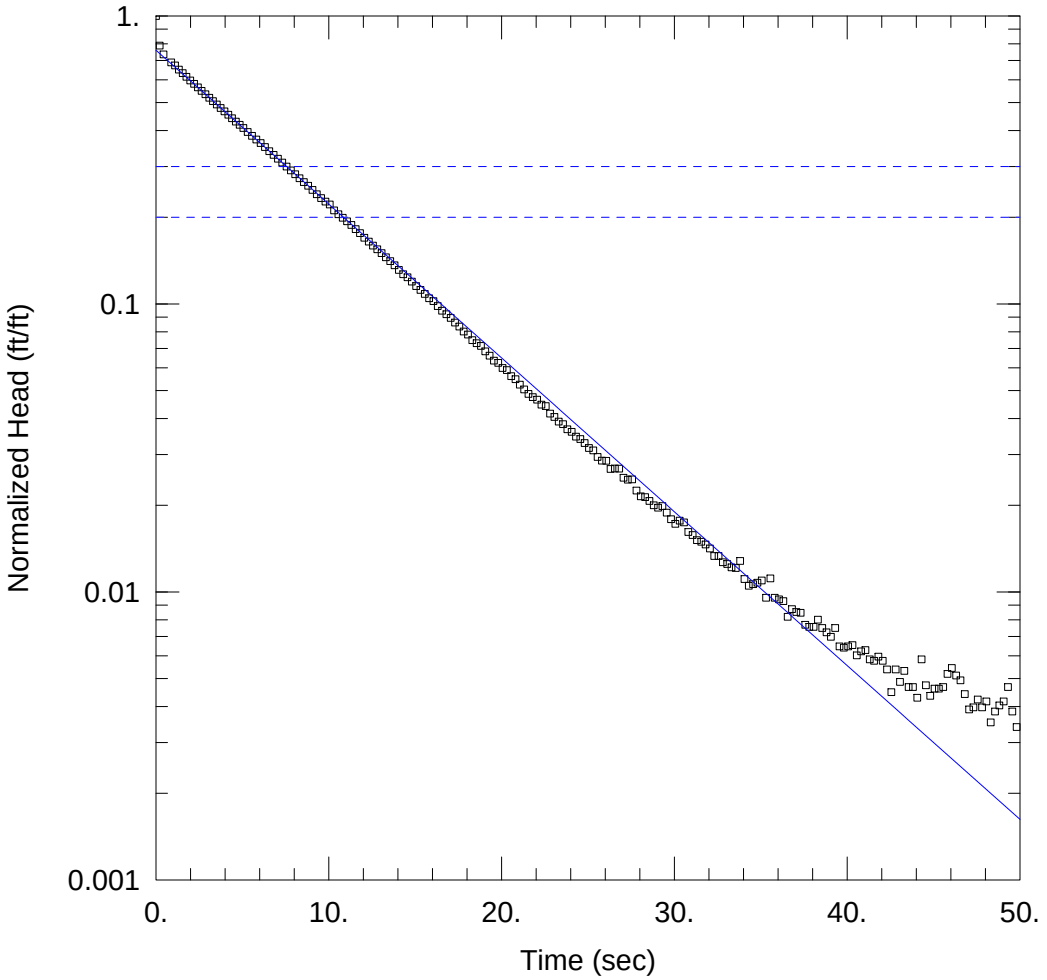
WELL DATA (MW-598M1)

Initial Displacement: 15.58 ft
Total Well Penetration Depth: 87.5 ft
Casing Radius: 0.083 ft
Static Water Column Height: 87.5 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 1.44 ft/day
y0 = 14.28 ft



MW-600M2 TEST 3

Data Set: \...\MW-600M2_T3.aqt
Date: 03/07/13 Time: 11:30:55

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

Saturated Thickness: 180. ft Anisotropy Ratio (Kz/Kr): 1.

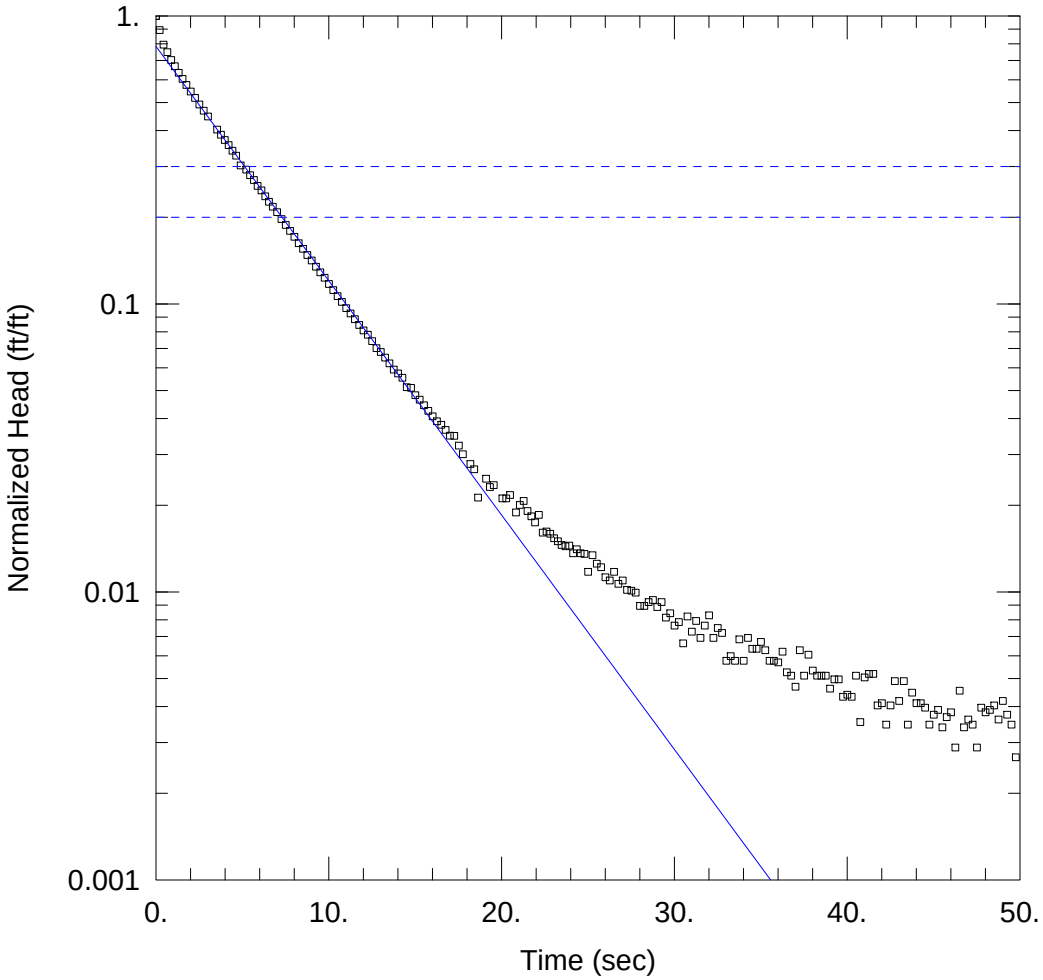
WELL DATA (MW-600M2)

Initial Displacement: 15.61 ft
Total Well Penetration Depth: 32. ft
Casing Radius: 0.083 ft
Static Water Column Height: 32. ft
Screen Length: 10. ft
Well Radius: 0.333 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 7.92 ft/day
y0 = 11.86 ft



MW-600M2 TEST 1

Data Set: G:\Demo Area 1\2013_Technical_Memorandum\Slug Tests\MW-600M2_T1.aqt
Date: 03/06/13 Time: 16:55:43

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

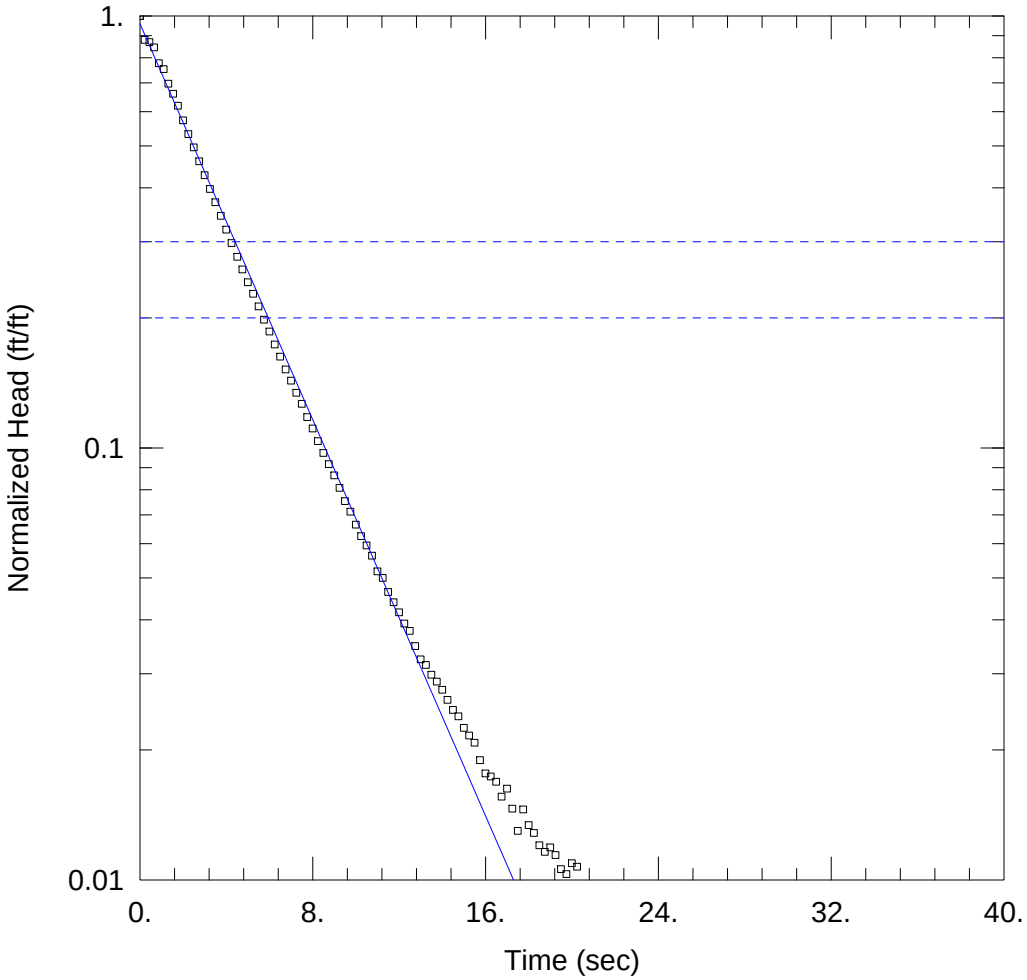
Saturated Thickness: 180. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-600M2)

Initial Displacement: 13.88 ft
Total Well Penetration Depth: 32. ft
Casing Radius: 0.083 ft
Static Water Column Height: 32. ft
Screen Length: 10. ft
Well Radius: 0.333 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 12.06 ft/day
y0 = 10.88 ft



MW-600M1 TEST 3

Data Set: G:\Demo Area 1\2013_Technical_Memorandum\Slug Tests\MW-600M1_T3.aqt
Date: 03/06/13 Time: 16:25:09

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

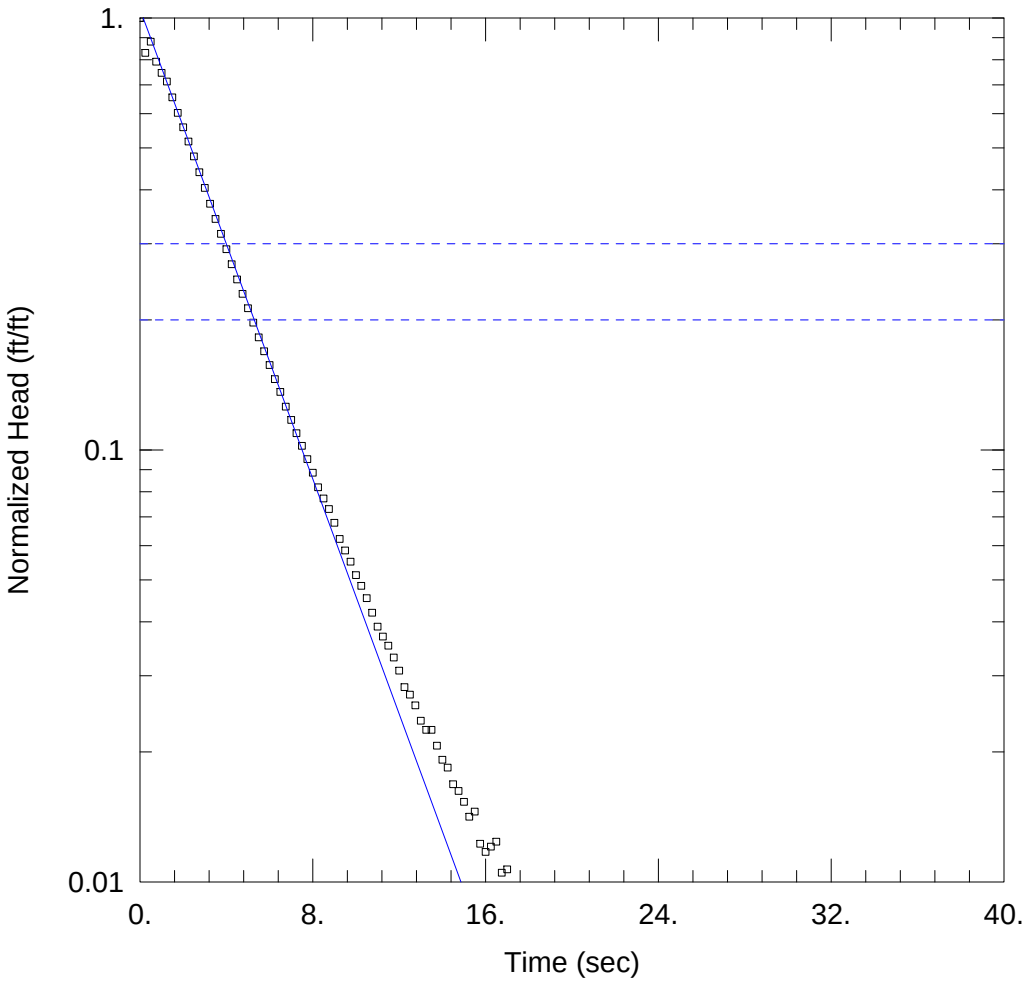
Saturated Thickness: 180. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-600M1)

Initial Displacement: 14.63 ft
Total Well Penetration Depth: 111. ft
Casing Radius: 0.083 ft
Static Water Column Height: 110. ft
Screen Length: 10. ft
Well Radius: 0.333 ft
Gravel Pack Porosity: 0.4

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 20. ft/day
y0 = 14.03 ft



MW-600M1 TEST 1

Data Set: G:\Demo Area 1\2013_Technical_Memorandum\Slug Tests\MW-600M1_T1.aqt
Date: 03/06/13 Time: 16:14:39

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

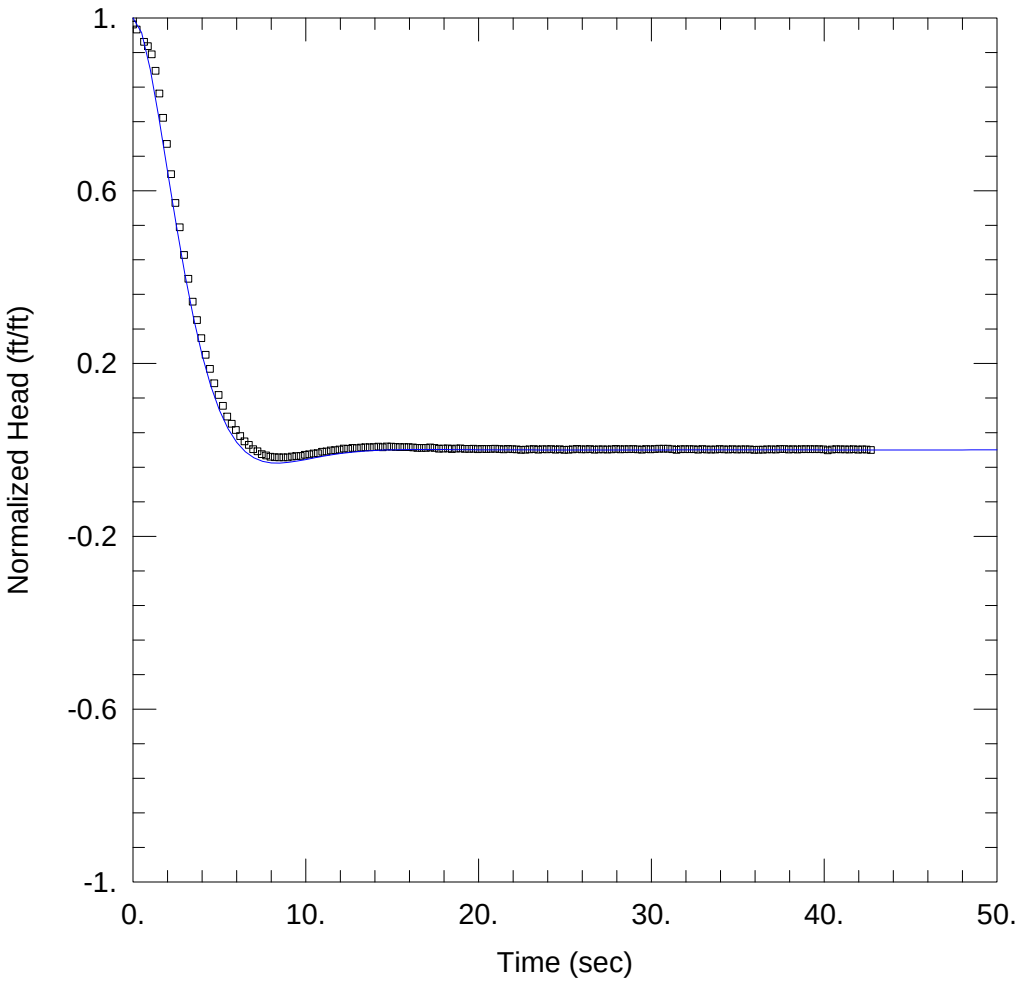
Saturated Thickness: 180. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-600M1)

Initial Displacement: 15.33 ft
Total Well Penetration Depth: 111. ft
Casing Radius: 0.083 ft
Static Water Column Height: 110. ft
Screen Length: 10. ft
Well Radius: 0.333 ft
Gravel Pack Porosity: 0.4

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 23.73 ft/day
y0 = 16.07 ft



MW-601M1 TEST 2

Data Set: G:\Demo Area 1\2013_Technical_Memorandum\Slug Tests\MW-601M1_T2.aqt
Date: 03/06/13 Time: 14:58:18

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

Saturated Thickness: 180. ft
Anisotropy Ratio (Kz/Kr): 1.

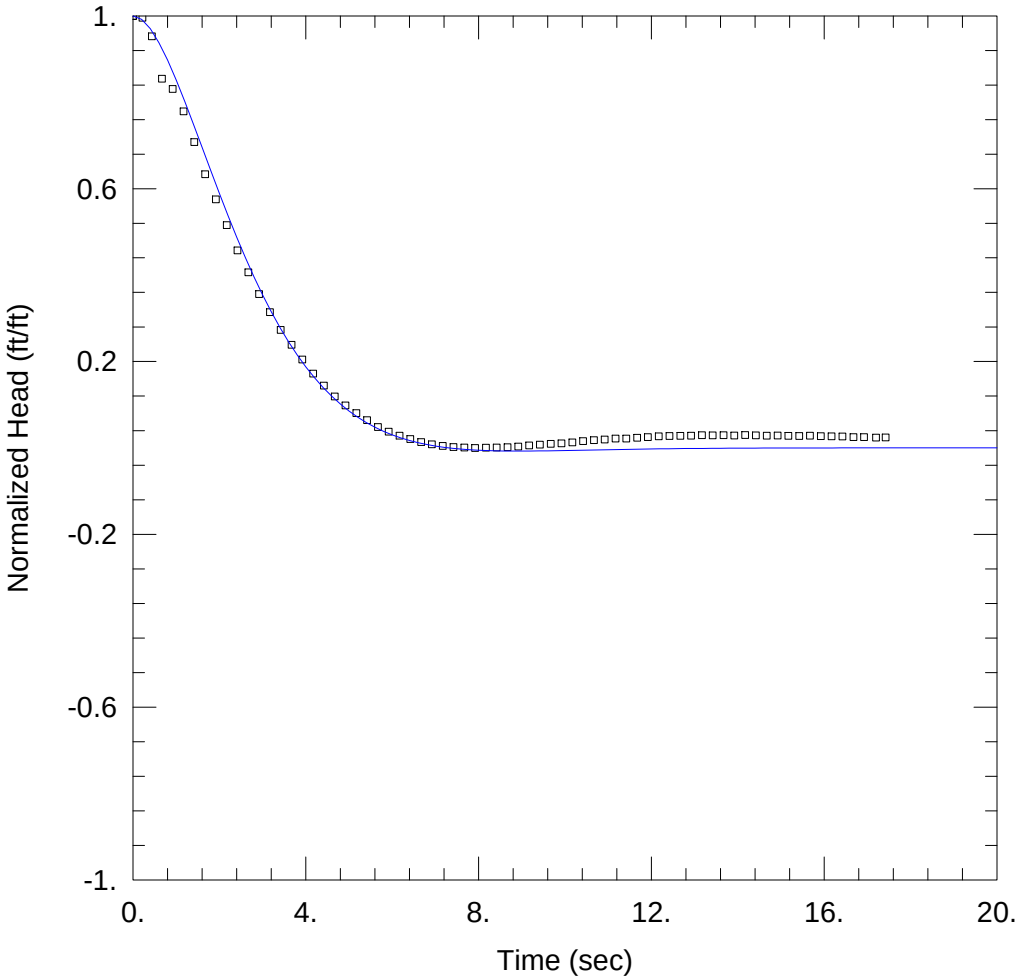
WELL DATA (MW-601M1)

Initial Displacement: 11. ft
Total Well Penetration Depth: 119. ft
Casing Radius: 0.083 ft
Static Water Column Height: 119. ft
Screen Length: 10. ft
Well Radius: 0.333 ft
Gravel Pack Porosity: 0.4

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 29.72 ft/day
Le = 101.4 ft



MW-601M1 TEST 1

Data Set: G:\Demo Area 1\2013_Technical_Memorandum\Slug Tests\MW-601M1_T1.aqt
Date: 03/06/13 Time: 14:19:18

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

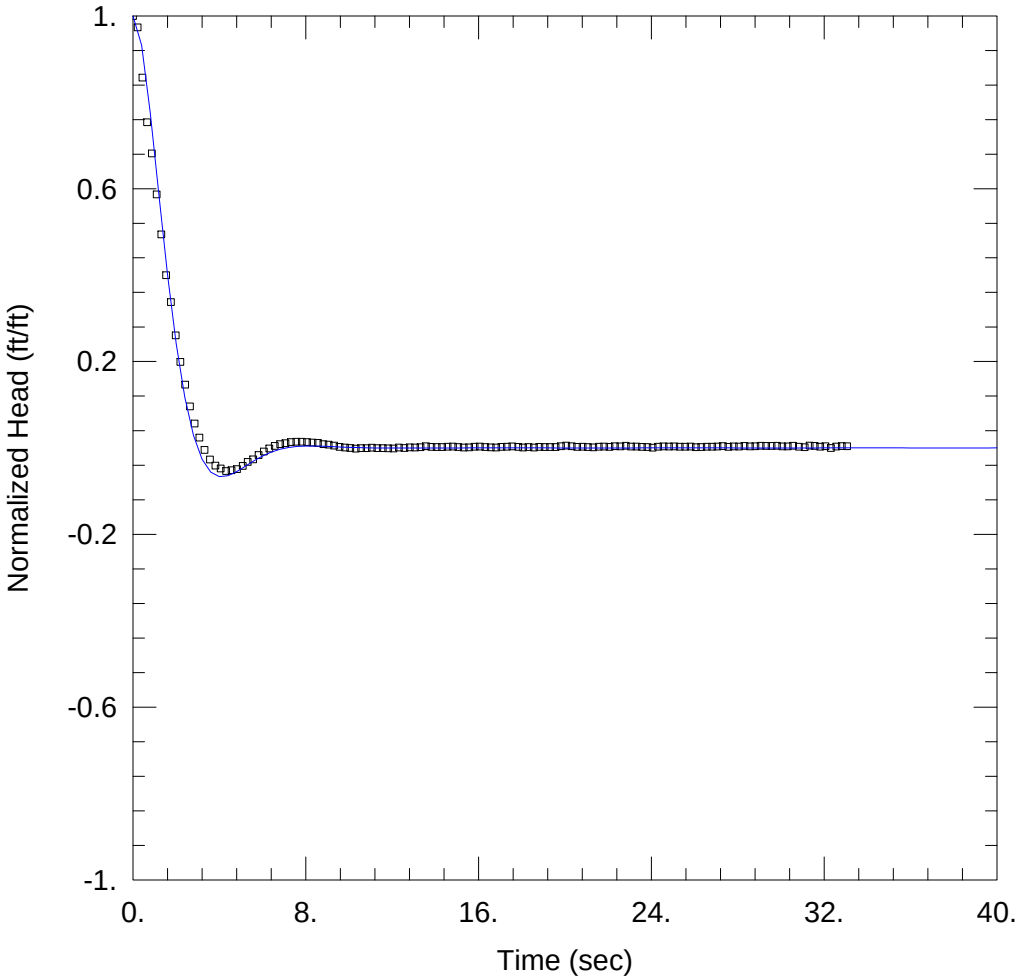
Saturated Thickness: 180. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-601M1)

Initial Displacement: 12.81 ft
Total Well Penetration Depth: 119. ft
Casing Radius: 0.083 ft
Static Water Column Height: 119. ft
Screen Length: 10. ft
Well Radius: 0.333 ft
Gravel Pack Porosity: 0.4

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 30.46 ft/day
Le = 75. ft



MW-601M2 TEST 1

Data Set: G:\Demo Area 1\2013_Technical_Memorandum\Slug Tests\MW-601M2_T1.aqt
Date: 03/06/13 Time: 15:34:48

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

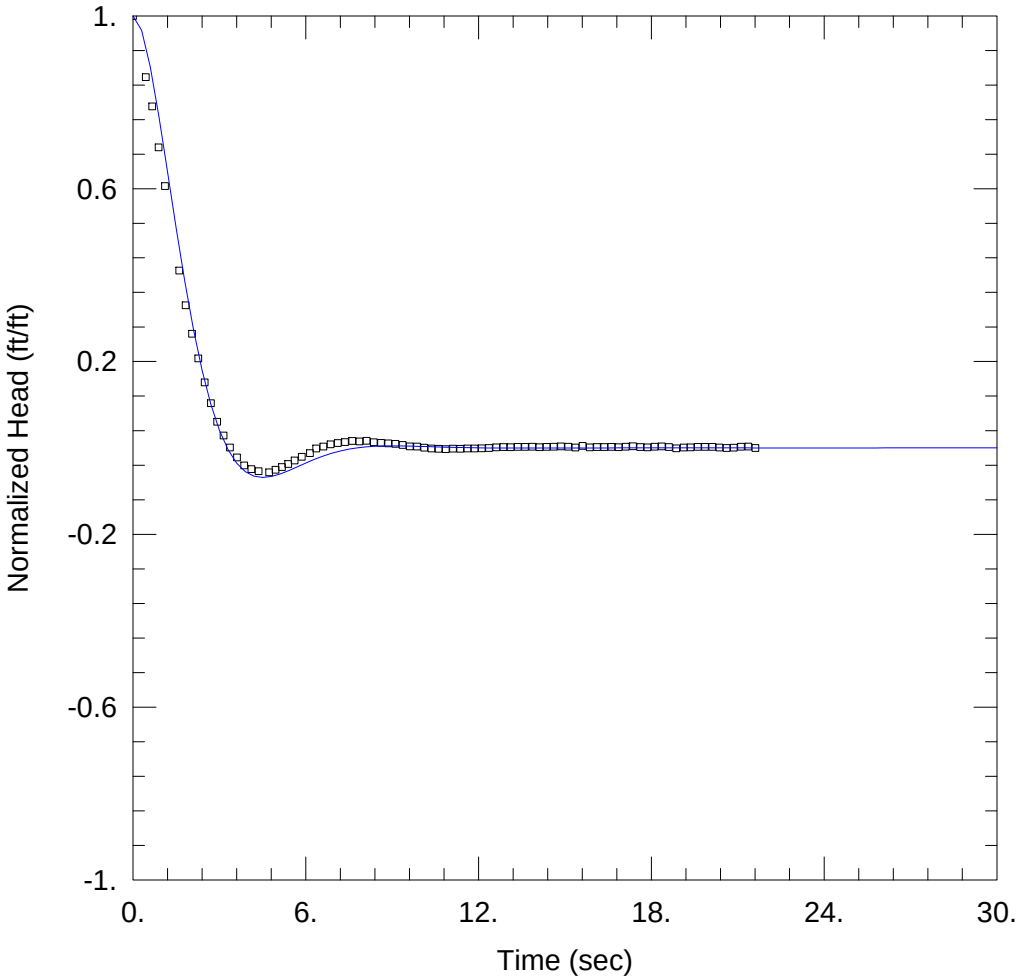
Saturated Thickness: 180. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-601M1)

Initial Displacement: 8.32 ft
Total Well Penetration Depth: 33. ft
Casing Radius: 0.083 ft
Static Water Column Height: 40. ft
Screen Length: 10. ft
Well Radius: 0.333 ft
Gravel Pack Porosity: 0.4

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 50.65 ft/day
Le = 31.55 ft



MW-601M2 TEST 2

Data Set: G:\Demo Area 1\2013_Technical_Memorandum\Slug Tests\MW-601M2_T2.aqt
Date: 03/06/13 Time: 15:33:27

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

Saturated Thickness: 180. ft
Anisotropy Ratio (Kz/Kr): 1.

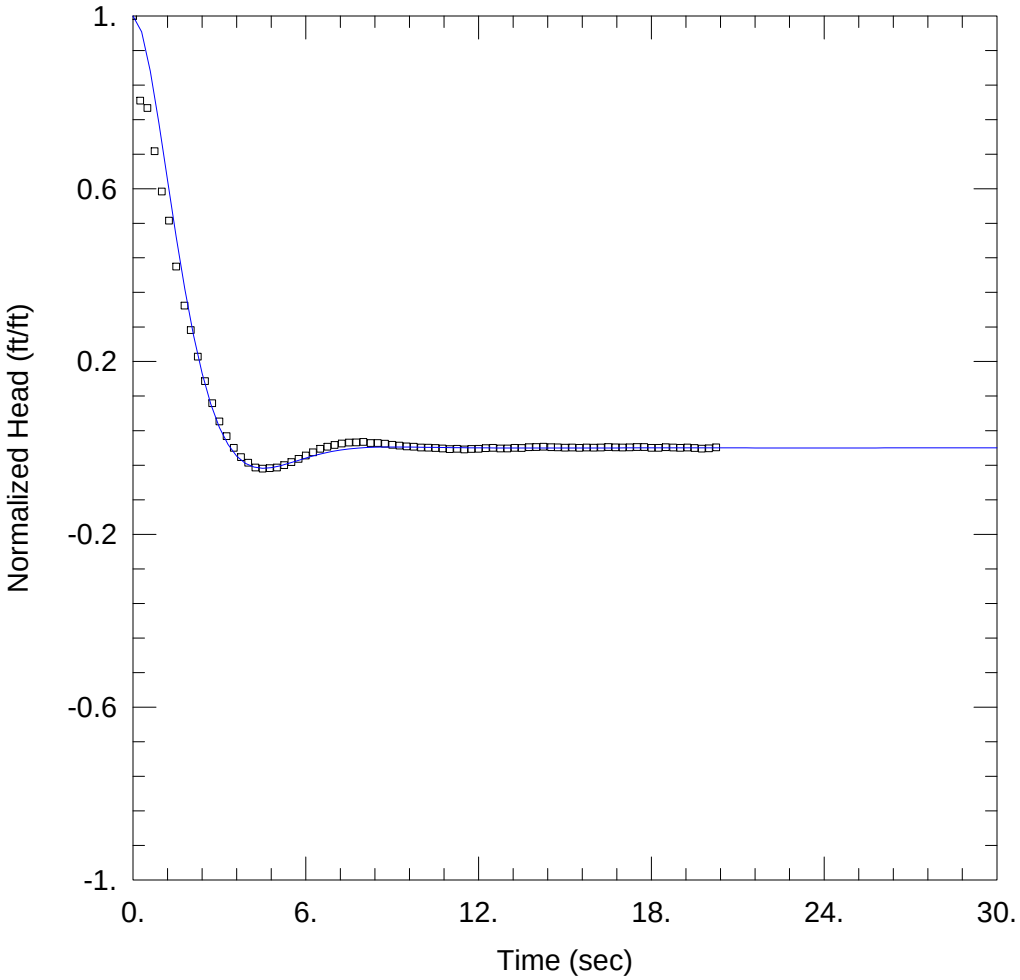
WELL DATA (MW-601M2)

Initial Displacement: 8.8 ft
Total Well Penetration Depth: 33. ft
Casing Radius: 0.083 ft
Static Water Column Height: 40. ft
Screen Length: 10. ft
Well Radius: 0.333 ft
Gravel Pack Porosity: 0.4

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 46.14 ft/day
Le = 38.34 ft



MW-601M2 TEST 3

Data Set: G:\Demo Area 1\2013_Technical_Memorandum\Slug Tests\MW-601M2_T3.aqt
Date: 03/06/13 Time: 15:44:16

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

Saturated Thickness: 180. ft
Anisotropy Ratio (Kz/Kr): 1.

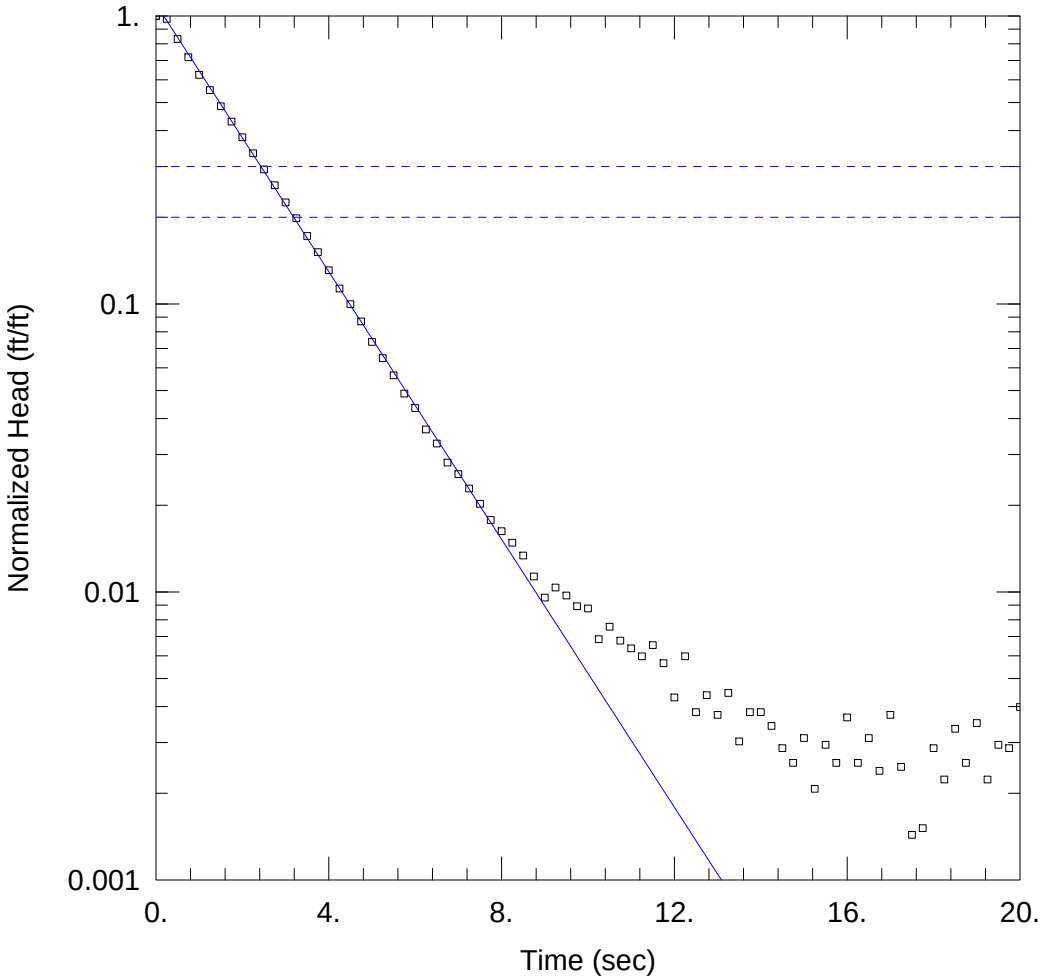
WELL DATA (MW-601M2)

Initial Displacement: 10.6 ft
Total Well Penetration Depth: 33. ft
Casing Radius: 0.083 ft
Static Water Column Height: 40. ft
Screen Length: 10. ft
Well Radius: 0.333 ft
Gravel Pack Porosity: 0.4

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar

K = 45.4 ft/day
Le = 34.31 ft



MW-602M2_T3

Data Set: \...\MW-602M2_T3.aqt
Date: 03/07/13 Time: 14:54:10

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

Saturated Thickness: 180. ft Anisotropy Ratio (Kz/Kr): 1.

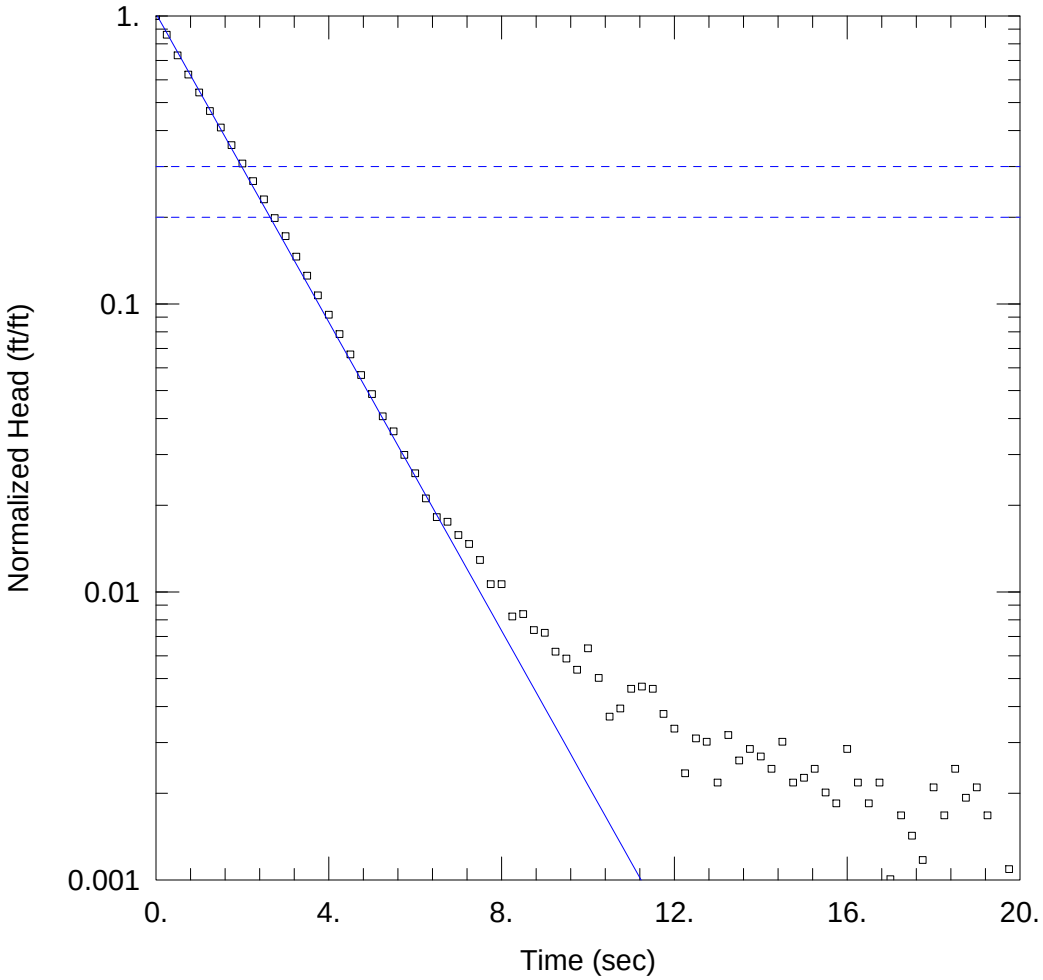
WELL DATA (MW-602M2)

Initial Displacement: 12.55 ft
Total Well Penetration Depth: 35. ft
Casing Radius: 0.083 ft
Static Water Column Height: 35. ft
Screen Length: 10. ft
Well Radius: 0.333 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 34.85 ft/day
y0 = 13.81 ft



MW-602M2_T1

Data Set: \...\MW-602M2_T1.aqt
Date: 03/07/13 Time: 14:51:30

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

Saturated Thickness: 180. ft Anisotropy Ratio (Kz/Kr): 1.

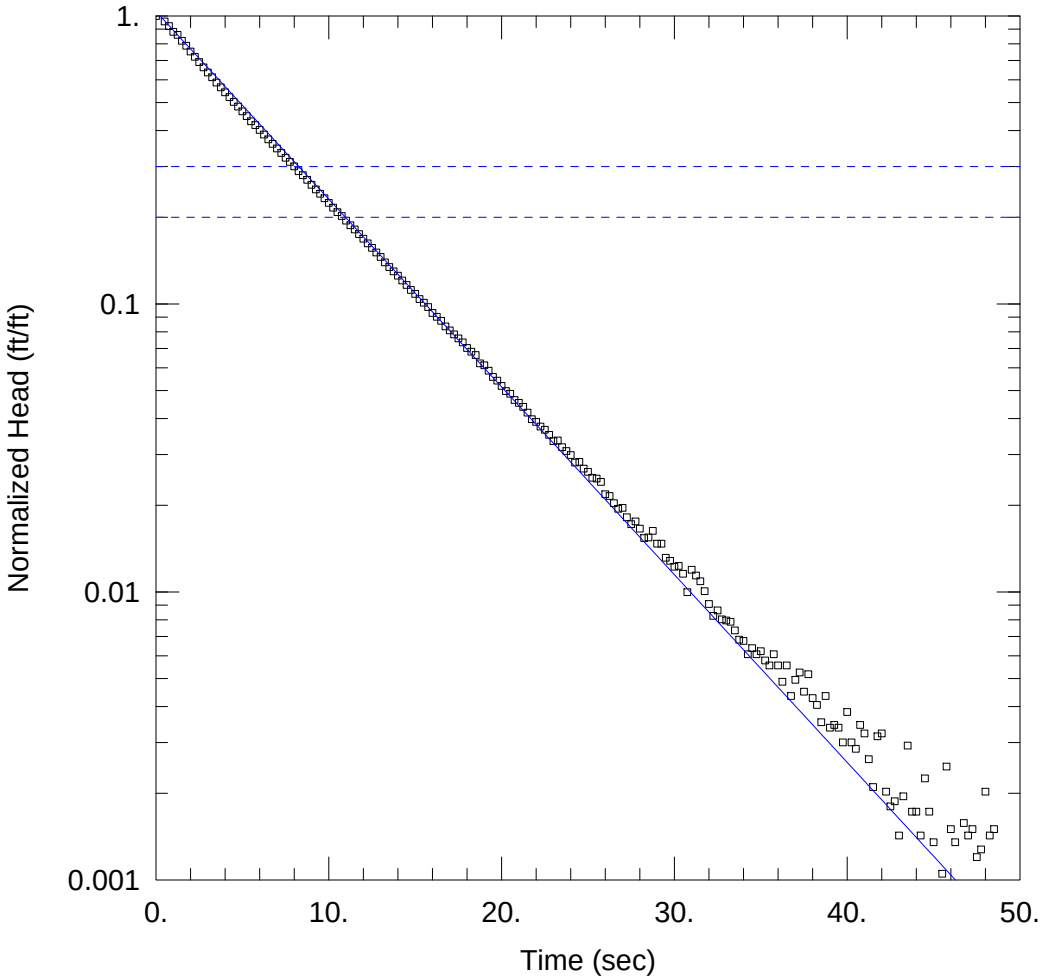
WELL DATA (MW-602M2)

Initial Displacement: 11.93 ft
Total Well Penetration Depth: 35. ft
Casing Radius: 0.083 ft
Static Water Column Height: 35. ft
Screen Length: 10. ft
Well Radius: 0.333 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 40.17 ft/day
y0 = 12.16 ft



MW-602M1_T3

Data Set: \...\MW-602M1_T3.aqt
Date: 03/07/13 Time: 14:03:03

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

Saturated Thickness: 180. ft
Anisotropy Ratio (Kz/Kr): 1.

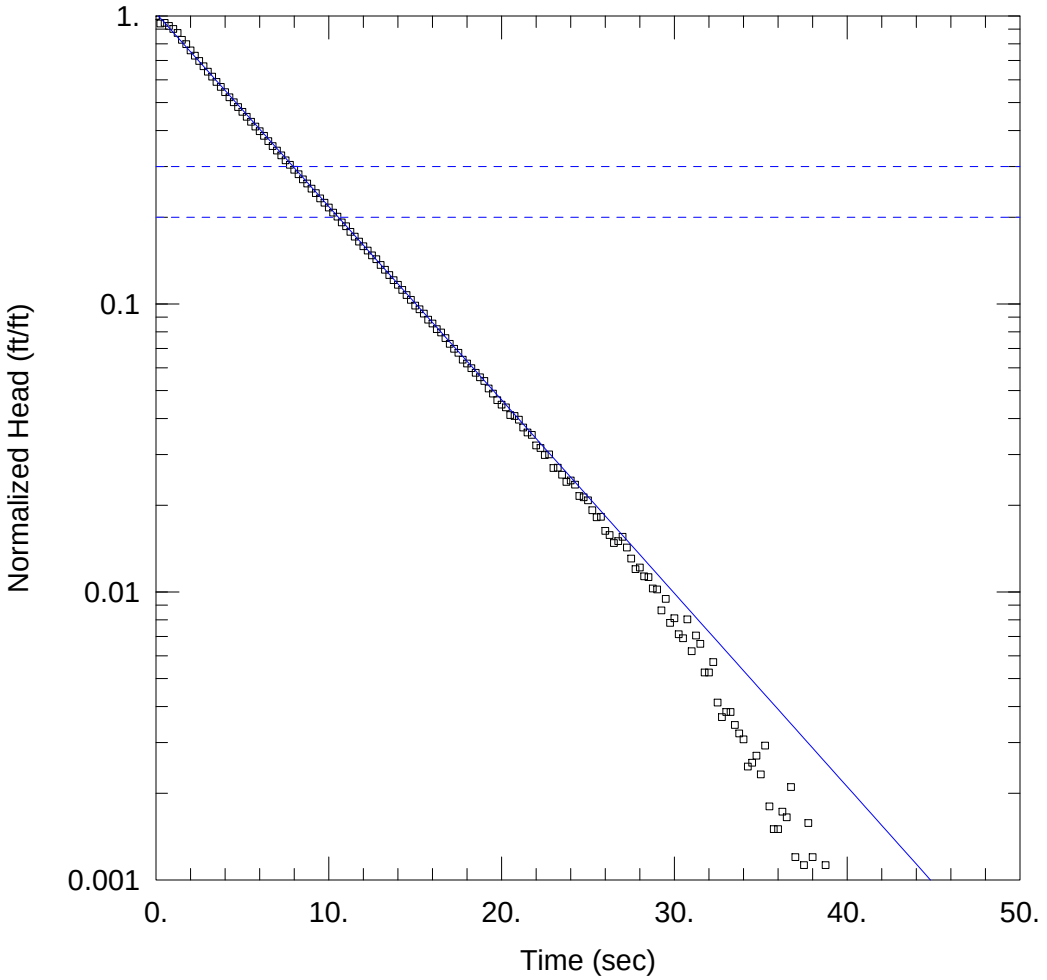
WELL DATA (MW-602M1)

Initial Displacement: 13.33 ft
Total Well Penetration Depth: 117. ft
Casing Radius: 0.083 ft
Static Water Column Height: 117. ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 12.53 ft/day
y0 = 13.81 ft



MW-602M1_T2

Data Set: \...\MW-602M1_T2.aqt
Date: 03/07/13 Time: 13:27:17

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

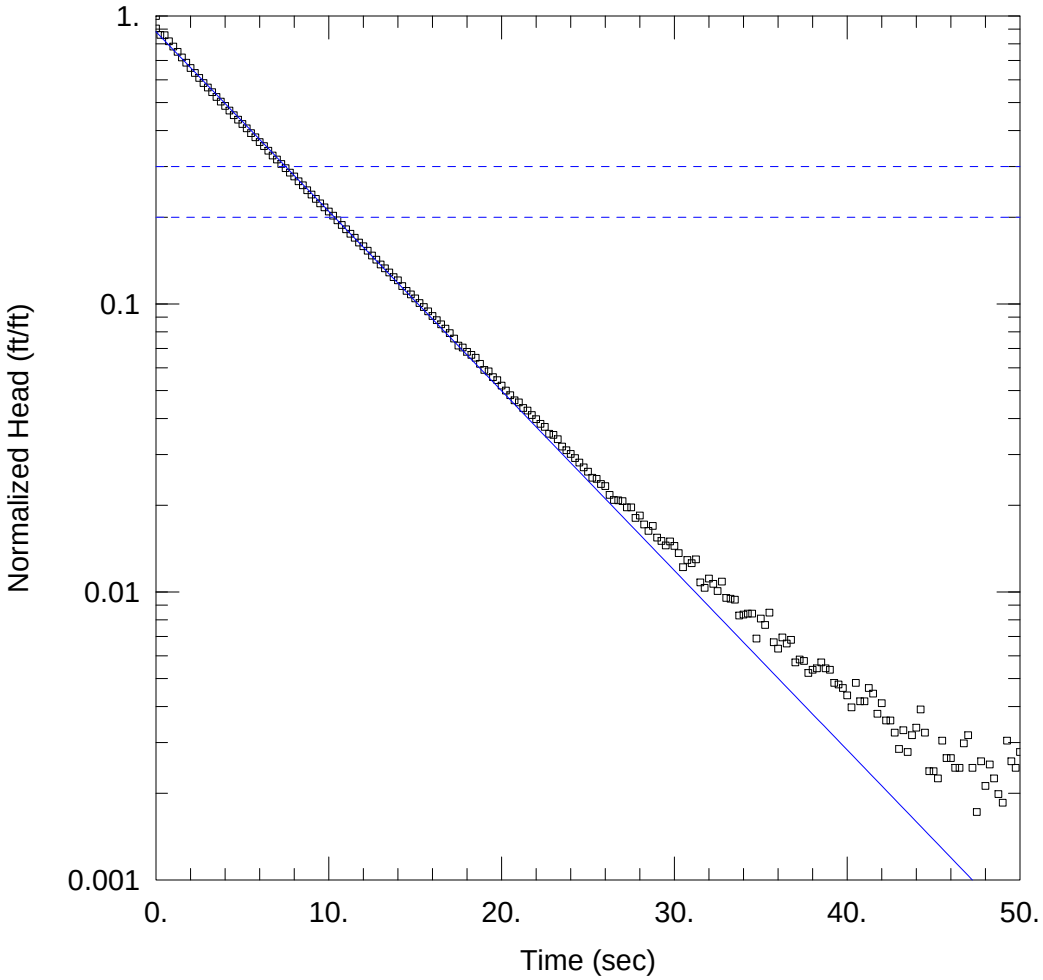
Saturated Thickness: 180. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-602M1)

Initial Displacement: 13.33 ft
Total Well Penetration Depth: 117. ft
Casing Radius: 0.083 ft
Static Water Column Height: 117. ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 12.91 ft/day
y0 = 13.63 ft



MW-603M1_T2

Data Set: \...\MW-603M1_T2.aqt
Date: 03/07/13 Time: 15:46:10

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

Saturated Thickness: 180. ft Anisotropy Ratio (Kz/Kr): 1.

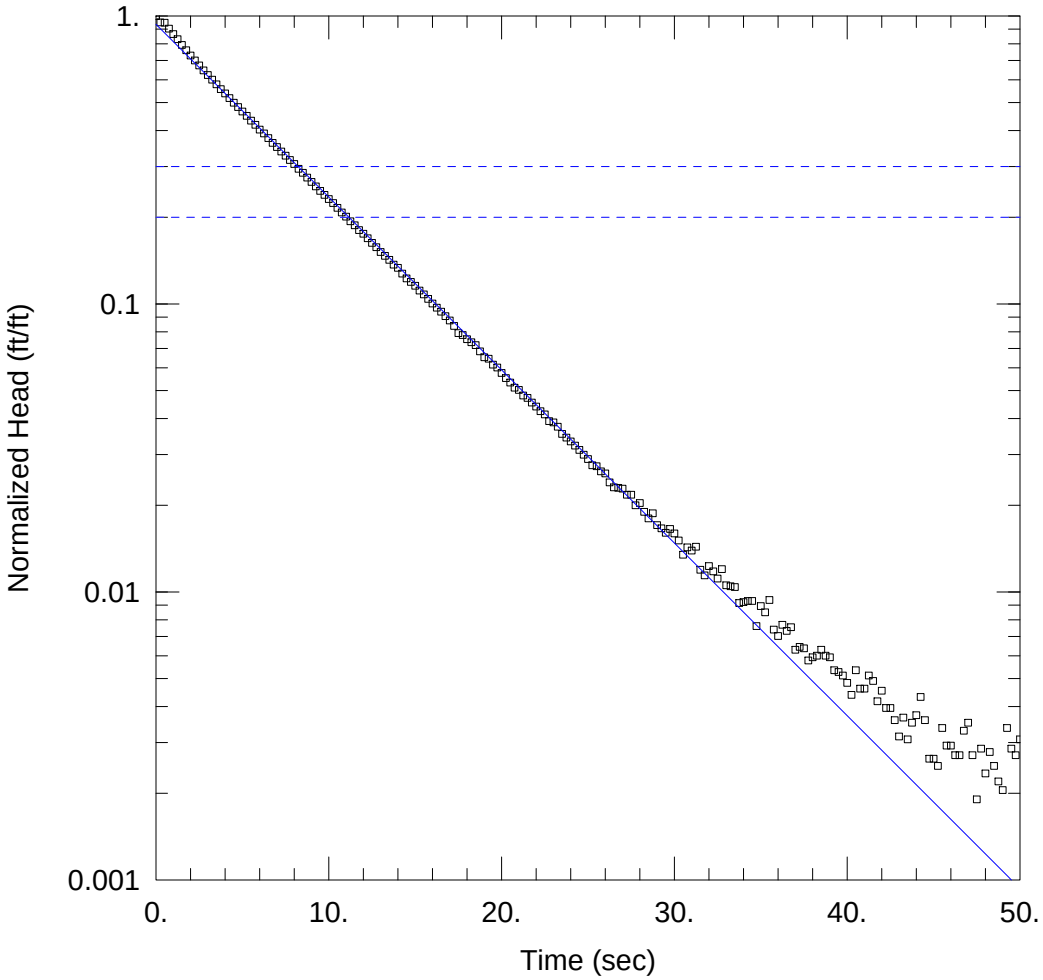
WELL DATA (MW-603M1)

Initial Displacement: 15.1 ft
Total Well Penetration Depth: 117. ft
Casing Radius: 0.083 ft
Static Water Column Height: 117. ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 11.99 ft/day
y0 = 13.31 ft



MW-603M1_T3

Data Set: \...\MW-603M1_T3.aqt
Date: 03/07/13 Time: 15:15:09

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

Saturated Thickness: 180. ft Anisotropy Ratio (Kz/Kr): 1.

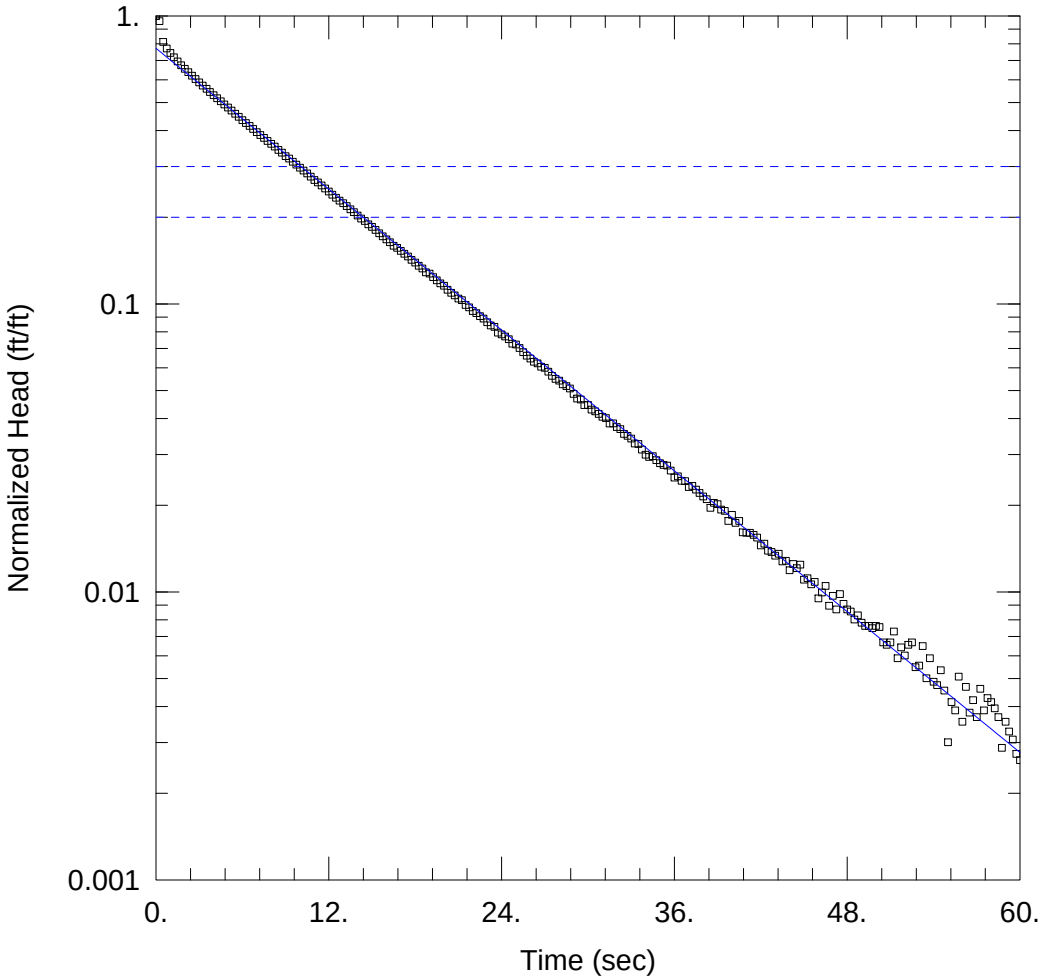
WELL DATA (MW-603M1)

Initial Displacement: 13.66 ft
Total Well Penetration Depth: 117. ft
Casing Radius: 0.083 ft
Static Water Column Height: 117. ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 11.54 ft/day
y0 = 12.77 ft



MW-603M2_T1

Data Set: \...\MW-603M2_T1.aqt
Date: 03/07/13 Time: 15:57:09

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

Saturated Thickness: 180. ft Anisotropy Ratio (Kz/Kr): 1.

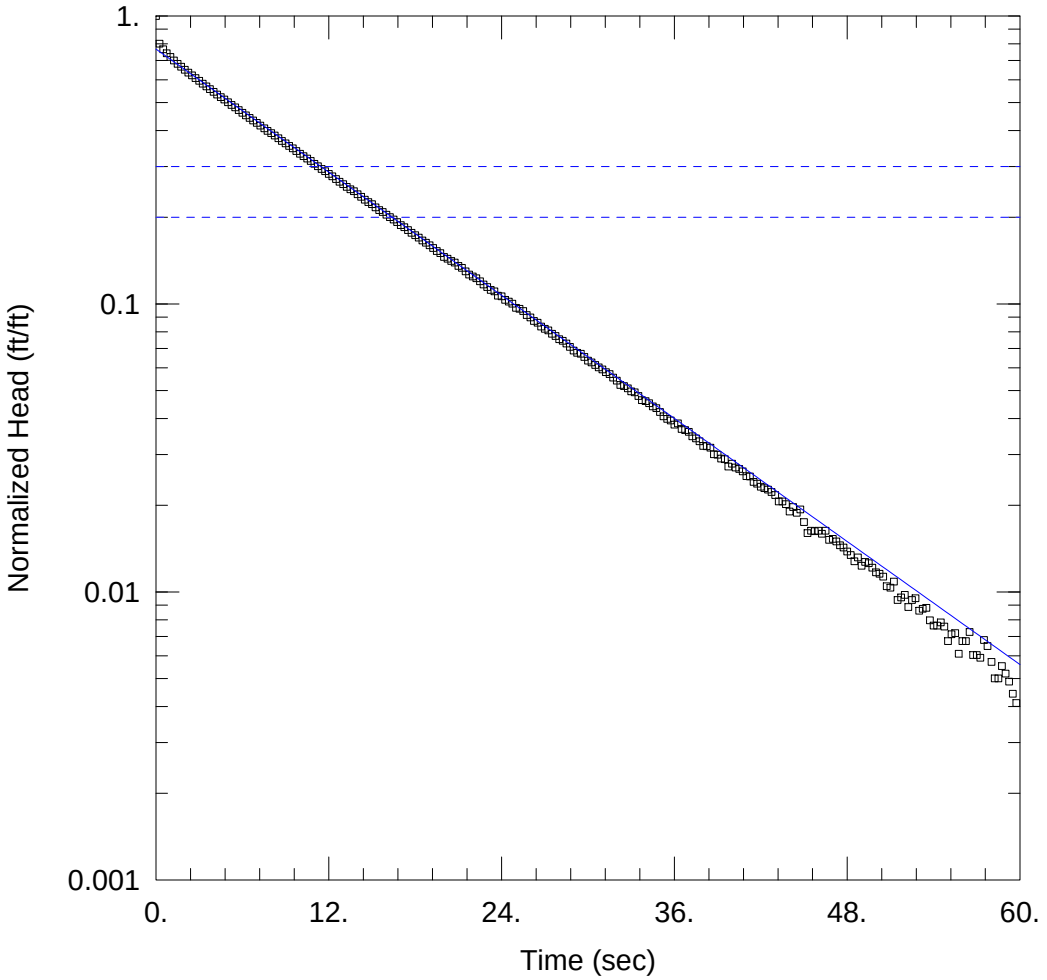
WELL DATA (MW-603M1)

Initial Displacement: 14.96 ft
Total Well Penetration Depth: 35.5 ft
Casing Radius: 0.083 ft
Static Water Column Height: 35.5 ft
Screen Length: 10. ft
Well Radius: 0.333 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 6.122 ft/day
y0 = 11.55 ft



MW-603M2_T2

Data Set: \...\MW-603M2_T2.aqt
Date: 03/07/13 Time: 16:12:33

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

Saturated Thickness: 180. ft Anisotropy Ratio (Kz/Kr): 1.

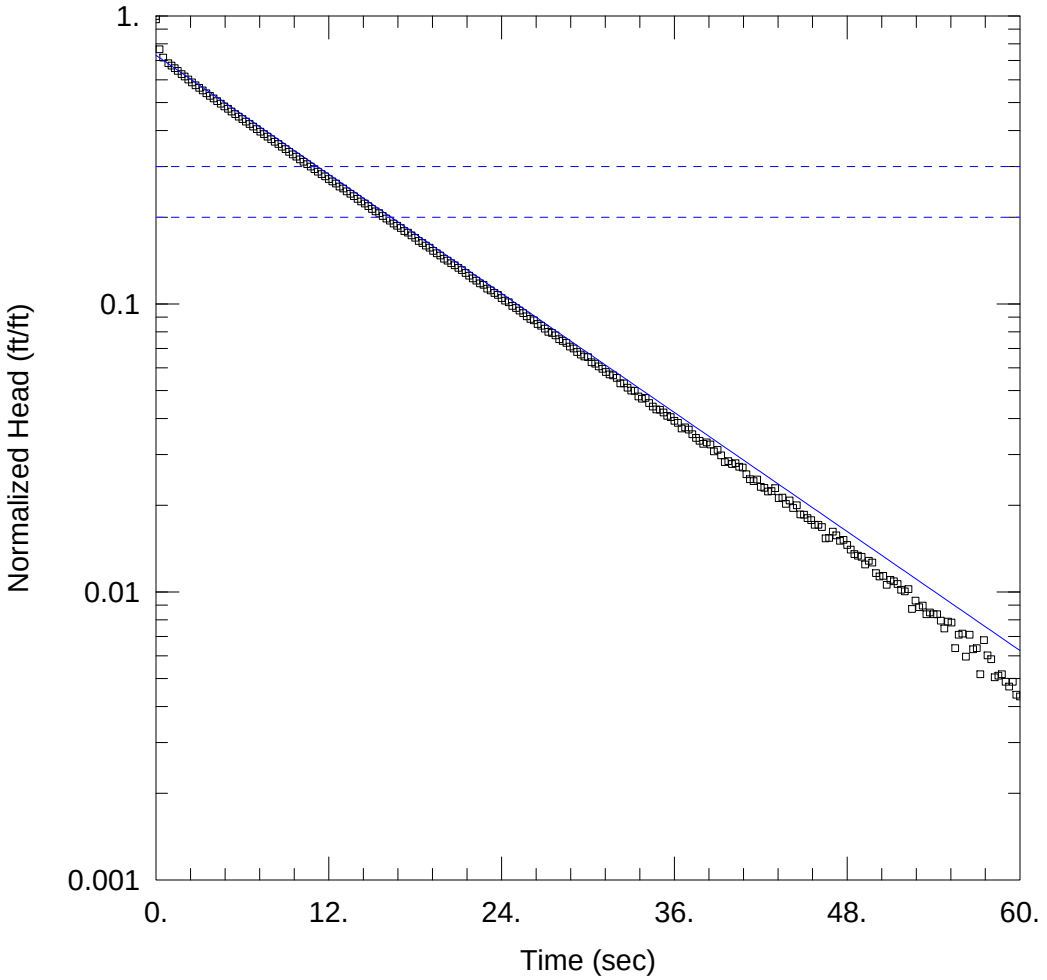
WELL DATA (MW-603M1)

Initial Displacement: 15.57 ft
Total Well Penetration Depth: 35.5 ft
Casing Radius: 0.083 ft
Static Water Column Height: 35.5 ft
Screen Length: 10. ft
Well Radius: 0.333 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 5.352 ft/day
y0 = 11.94 ft



MW-603M2_T3

Data Set: \...\MW-603M2_T3.aqt
Date: 03/07/13 Time: 16:07:32

PROJECT INFORMATION

Company: USACE
Location: MMR

AQUIFER DATA

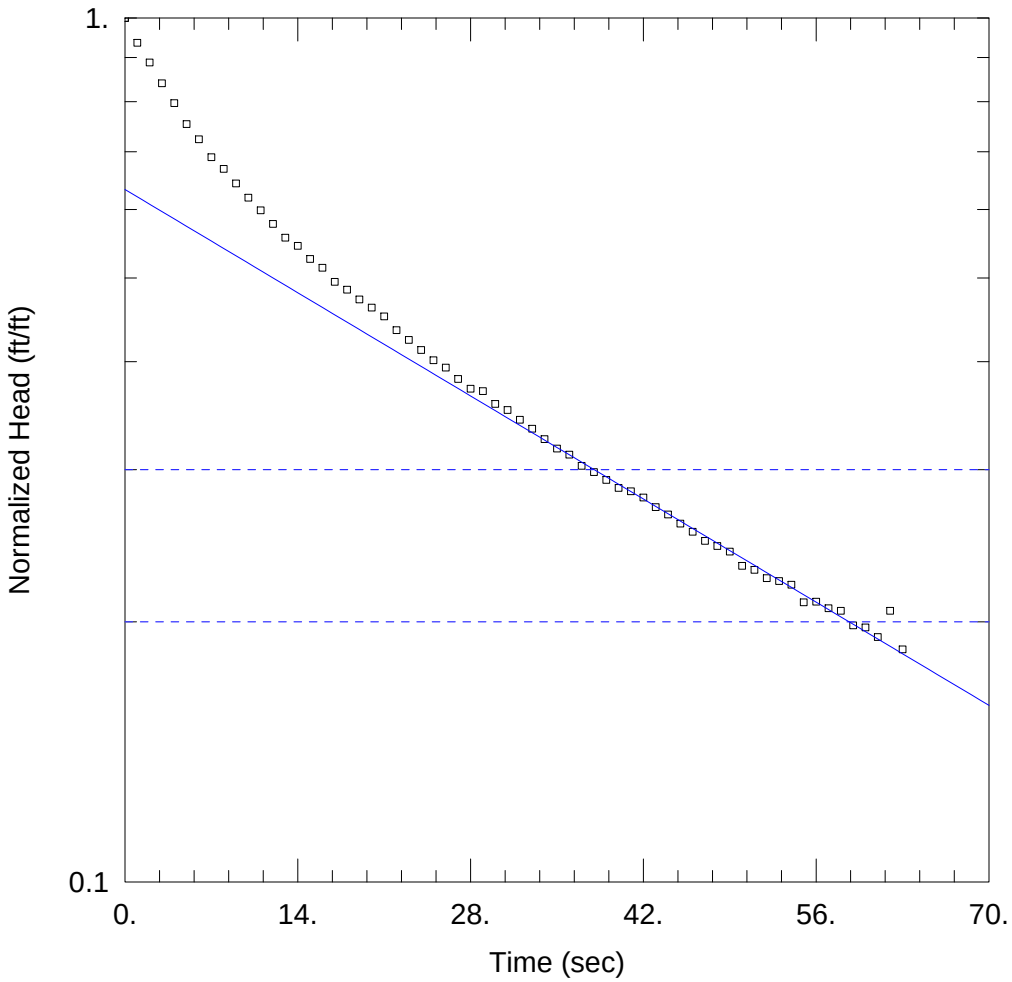
Saturated Thickness: 180. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-603M1)

Initial Displacement: 16.62 ft
Total Well Penetration Depth: 35.5 ft
Casing Radius: 0.083 ft
Static Water Column Height: 35.5 ft
Screen Length: 10. ft
Well Radius: 0.333 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 5.176 ft/day
y0 = 12.13 ft



PHMP-3D - FALLING HEAD (EST.) _UNSATURATED ZONE

Data Set: R:\Demo Area 1\2013_Technical_Memorandum\Slug Tests\PMHP-3D_Falling-T1.aqt
Date: 12/03/12 Time: 13:18:30

PROJECT INFORMATION

Company: USACE
Location: MMR
Test Well: MW-556M2
Test Date: 11/30/2012

AQUIFER DATA

Saturated Thickness: 160. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (PMHP-3D)

Initial Displacement: 3.583 ft
Total Well Penetration Depth: 5. ft
Casing Radius: 0.083 ft
Static Water Column Height: 5. ft
Screen Length: 5. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 7.5 ft/day
y0 = 2.268 ft

Appendix C

Perchlorate and Explosive COC Chemical Results For Monitoring Well Samples – Inception to Date

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	D1-EW-1	145	36	-54	N	0.277		0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	11/20/2012
1	D1-EW-1	145	36	-54	N	0.316		0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	8/21/2012
1	D1-EW-1	145	36	-54	N	0.39		0.221	U	0.221	U	0.221	U	0.221	U	0.221	U	0.221	U	0.221	U	3/29/2012
1	D1-EW-1	145	36	-54	N	0.429		0.217	UJ	0.217	UJ	0.217	UJ	0.217	UJ	0.217	UJ	0.217	UJ	0.217	UJ	12/15/2011
1	D1-EW-1	145	36	-54	N	0.515		0.144	J	0.205	U	0.205	U	0.205	U	0.205	U	0.205	U	0.205	U	8/23/2011
1	D1-EW-1	145	36	-54	N	0.938		0.444		0.235	U	0.235	U	0.235	U	0.235	U	0.235	U	0.235	U	4/19/2011
1	D1-EW-1	145	36	-54	N	1.17		0.665		0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	12/21/2010
1	D1-EW-1	145	36	-54	N	1.52		0.792		0.187	J	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	9/7/2010
1	D1-EW-1	145	36	-54	FD	1.47		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/19/2010
1	D1-EW-1	145	36	-54	N	1.47		0.695		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/19/2010
1	D1-EW-1	145	36	-54	N	10.9		1.92	J	0.384	J	0.22	UJ	0.22	UJ	0.22	UJ	0.22	UJ	0.22	UJ	12/2/2009
1	D1-EW-1	145	36	-54	N	1.68		0.801		0.112	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	11/2/2009
1	D1-EW-1	145	36	-54	N	1.33		0.975		0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	6/9/2009
1	D1-EW-1	145	36	-54	N	3.7		2		0.28		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/16/2008
1	D1-EW-1	145	36	-54	N	5.02		4.06		0.797		0.22	U	0.22	U	0.22	UJ	0.22	U	0.22	U	4/23/2008
1	D1-EW-1	145	36	-54	N	N/A		4.3		0.63		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/5/2007
1	D1-EW-501	148	60	-40	N	0.205		1.31		0.839		0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	11/20/2012
1	D1-EW-501	148	60	-40	FD	N/A		1.78		0.816		0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	8/21/2012
1	D1-EW-501	148	60	-40	N	0.223		1.71		0.864		0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	8/21/2012
1	D1-EW-501	148	60	-40	N	0.242		1.78	J	1.04	J	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	4/19/2012
1	D1-EW-501	148	60	-40	N	0.261		1.75		1.01		0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	12/15/2011
1	D1-EW-501	148	60	-40	FD	N/A		2.14		1.12		0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	8/23/2011
1	D1-EW-501	148	60	-40	N	0.324		1.96		1.14		0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	8/23/2011
1	D1-EW-501	148	60	-40	N	0.362		1.9	J	0.809	J	0.206	UJ	0.206	UJ	0.206	UJ	0.206	UJ	0.206	UJ	4/19/2011
1	D1-EW-501	148	60	-40	N	0.622		4.12		1.52		0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	1/6/2011
1	D1-EW-501	148	60	-40	N	0.423		1.8	J	0.567	J	0.206	UJ	0.206	UJ	0.206	UJ	0.206	UJ	0.206	UJ	8/18/2010
1	D1-EW-501	148	60	-40	N	0.5		2.02		0.835		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/19/2010
1	D1-EW-501	148	60	-40	N	0.462		1.64		0.837		0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	12/2/2009
1	D1-EW-501	148	60	-40	N	1	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	10/1/2009
1	D1-EW-501	148	60	-40	N	1	U	1.44		1.09		0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	9/1/2009
1	D1-EW-501	148	60	-40	N	1	U	2.48		0.999		0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	6/9/2009
1	D1-EW-501	148	60	-40	N	0.81	J	3.4		1.2		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/16/2008
1	D1-EW-501	148	60	-40	N	1.28		5.89		1.26		0.217	U	0.217	U	0.217	UJ	0.217	U	0.217	U	4/23/2008
1	D1-EW-502	138	50	-50	N	0.989		0.788		0.102	J	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	11/20/2012
1	D1-EW-502	138	50	-50	N	1.09		1.02		0.29		0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	8/21/2012
1	D1-EW-502	138	50	-50	N	1.23		1.25		0.275		0.225	U	0.225	U	0.225	U	0.225	U	0.225	U	4/19/2012
1	D1-EW-502	138	50	-50	N	1.3		1.39		0.25		0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	12/15/2011
1	D1-EW-502	138	50	-50	N	1.57		1.69		0.357		0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	8/23/2011
1	D1-EW-502	138	50	-50	N	1.59		1.21		0.417		0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	4/19/2011
1	D1-EW-502	138	50	-50	N	1.52		1.4		0.349		0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	12/21/2010
1	D1-EW-502	138	50	-50	FD	1.81		1.41	J	0.303	J	0.217	UJ	0.217	UJ	0.217	UJ	0.217	UJ	0.217	UJ	8/18/2010
1	D1-EW-502	138	50	-50	N	1.8		1.47	J	0.461	J	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	8/18/2010
1	D1-EW-502	138	50	-50	FD	2.97		N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/5/2010
1	D1-EW-502	138	50	-50	N	2.96		3.04		0.576		0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	5/5/2010
1	D1-EW-502	138	50	-50	N	2.69		2.39		0.42		0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	12/2/2009
1	D1-EW-502	138	50	-50	N	0.57		0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	11/3/2009
1	D1-EW-502	138	50	-50	N	2.2		2.22		0.426		0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	9/30/2009
1	D1-EW-502	138	50	-50	N	3.34		2.84		0.505		0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	6/9/2009
1	D1-EW-502	138	50	-50	N	6.7		3.8		0.56		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/16/2008
1	D1-EW-502	138	50	-50	N	11.7		6.91		0.781		0.21	U	0.21	U	0.21	UJ	0.21	U	0.21	U	4/23/2008
1	MW-114M1	147	-30	-40	N	0.456		0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	4/25/2012
1	MW-114M1	147	-30	-40	N	0.386		0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	12/15/2011
1	MW-114M1	147	-30	-40	N	0.401		0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	4/12/2011
1	MW-114M1	147	-30	-40	N	0.679		0.343		0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	12/23/2010
1	MW-114M1	147	-30	-40	N	1.15		0.697		0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	8/18/2010

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-114M1	147	-30	-40	FD	1.12		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/13/2010
1	MW-114M1	147	-30	-40	N	1.15		0.792		0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	4/13/2010
1	MW-114M1	147	-30	-40	FD	2.19		N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/16/2009
1	MW-114M1	147	-30	-40	N	2.16		1.3		0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	11/16/2009
1	MW-114M1	147	-30	-40	FD	4.95		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2009
1	MW-114M1	147	-30	-40	N	4.85		4.54		0.384		0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	4/21/2009
1	MW-114M1	147	-30	-40	N	9.23		10.6	J	0.514	J	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	4/8/2008
1	MW-114M1	147	-30	-40	N	2.91		2.02		0.275	U	0.275	U	0.275	U	0.275	U	0.275	U	0.275	U	4/19/2007
1	MW-114M1	147	-30	-40	N	N/A		1.3		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/2/2007
1	MW-114M1	147	-30	-40	N	0.814	J	0.27		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/18/2006
1	MW-114M1	147	-30	-40	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/8/2006
1	MW-114M1	147	-30	-40	N	N/A		0.26	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/21/2005
1	MW-114M1	147	-30	-40	N	1.7	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/13/2005
1	MW-114M1	147	-30	-40	N	N/A		0.56		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/7/2004
1	MW-114M1	147	-30	-40	N	4.36		0.67		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/30/2004
1	MW-114M1	147	-30	-40	N	9.67		1.4		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2004
1	MW-114M1	147	-30	-40	N	13.4		1.6		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/9/2004
1	MW-114M1	147	-30	-40	N	7.7	J	1.1		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/2/2003
1	MW-114M1	147	-30	-40	N	9.6		1.2		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/27/2003
1	MW-114M1	147	-30	-40	N	11		1.7		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/13/2002
1	MW-114M1	147	-30	-40	N	14		2.5		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/9/2002
1	MW-114M1	147	-30	-40	N	12		2.1		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/21/2002
1	MW-114M1	147	-30	-40	N	22.1		3.3		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/21/2001
1	MW-114M1	147	-30	-40	N	10		1.6		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/18/2001
1	MW-114M1	147	-30	-40	N	13		N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/14/2001
1	MW-114M1	147	-30	-40	N	N/A		2	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/14/2001
1	MW-114M1	147	-30	-40	N	11		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/28/2000
1	MW-114M1	147	-30	-40	N	N/A		0.4		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/24/2000
1	MW-114M2	147	27	17	N	0.583		0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	4/25/2012
1	MW-114M2	147	27	17	N	0.575		0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	12/15/2011
1	MW-114M2	147	27	17	N	0.7		0.218	U	0.218	U	0.218	U	0.218	U	0.218	U	0.218	U	0.218	U	4/12/2011
1	MW-114M2	147	27	17	N	0.654		0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	12/23/2010
1	MW-114M2	147	27	17	N	1.27		0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	4/13/2010
1	MW-114M2	147	27	17	N	1.62		0.228		0.248	J	0.204	U	0.204	U	0.204	U	0.204	U	0.177	J	11/16/2009
1	MW-114M2	147	27	17	FD	1.73		1.29		0.541		0.213	U	0.213	U	0.213	U	0.213	U	0.285		4/21/2009
1	MW-114M2	147	27	17	N	1.69		1.3		0.539		0.215	U	0.215	U	0.215	U	0.215	U	0.284		4/21/2009
1	MW-114M2	147	27	17	FD	2.56		2.98		0.776		0.21	U	0.21	U	0.21	U	0.21	U	0.296		12/23/2008
1	MW-114M2	147	27	17	N	2.56		3.44		0.909	J	0.208	U	0.208	U	0.208	U	0.208	U	0.336		12/23/2008
1	MW-114M2	147	27	17	N	13.3		33.7		6.9		0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	4/8/2008
1	MW-114M2	147	27	17	N	N/A		102		17.3		0.215	U	0.215	U	0.215	U	0.215	U	0.968		1/31/2008
1	MW-114M2	147	27	17	FD	38.6		195	J	22.3	J	0.22	U	0.22	U	0.22	U	0.22	U	1.33		12/6/2007
1	MW-114M2	147	27	17	N	N/A		112	J	12	J	0.22	UJ	0.22	UJ	0.22	UJ	0.22	UJ	0.811	J	12/6/2007
1	MW-114M2	147	27	17	N	92.7		86.5		20.2		0.281	U	0.281	U	0.281	U	0.281	U	1.46		4/19/2007
1	MW-114M2	147	27	17	N	103		220	J	24	J	0.25	U	0.25	U	0.25	U	0.25	U	R		4/18/2006
1	MW-114M2	147	27	17	N	54		R		R		0.25	U	0.25	U	0.25	U	0.25	U	R		4/13/2005
1	MW-114M2	147	27	17	N	40.8		R		R		0.25	U	0.25	U	0.25	U	0.25	U	R		7/30/2004
1	MW-114M2	147	27	17	N	37.7		R		R		0.25	U	0.25	U	0.25	U	0.25	U	R		4/19/2004
1	MW-114M2	147	27	17	N	42.3		R		R		0.25	U	0.25	U	0.25	U	0.25	U	R		2/9/2004
1	MW-114M2	147	27	17	N	52	J	220		26		0.25	U	0.25	U	0.25	U	0.25	U	1.4		10/1/2003
1	MW-114M2	147	27	17	N	56		200		31		0.25	U	0.25	U	0.25	U	0.25	U	1.5	J	5/27/2003
1	MW-114M2	147	27	17	N	71		220		28		0.25	U	0.25	U	0.25	U	0.25	U	1.4	J	11/13/2002
1	MW-114M2	147	27	17	N	64		210		24		0.25	U	0.25	U	0.42	J	0.25	U	1.3	J	8/9/2002
1	MW-114M2	147	27	17	N	72		190		19	J	0.25	U	0.25	U	0.25	U	0.25	U	1.1	J	5/29/2002
1	MW-114M2	147	27	17	N	127		N/A		N/A		N/A		N/A		N/A		N/A		N/A		1/10/2002
1	MW-114M2	147	27	17	N	N/A		170		15	J	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.69	J	1/7/2002

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-114M2	147	27	17	N	207		140		9.3	J	0.25	U	0.25	U	0.25	U	0.25	U	0.5	J	6/19/2001
1	MW-114M2	147	27	17	N	N/A		120	J	10	J	0.25	U	0.25	U	0.25	U	0.25	U	0.53	J	3/14/2001
1	MW-114M2	147	27	17	N	260		N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/14/2001
1	MW-114M2	147	27	17	N	300		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/29/2000
1	MW-114M2	147	27	17	FD	N/A		140		14		0.25	U	0.25	U	0.25	U	0.25	U	0.5	J	10/24/2000
1	MW-114M2	147	27	17	N	N/A		140		14		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/24/2000
1	MW-129M1	136	0	-10	N	0.016	J	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	5/3/2012
1	MW-129M1	136	0	-10	N	0.102		0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	5/3/2011
1	MW-129M1	136	0	-10	N	0.0397	J	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	4/15/2010
1	MW-129M1	136	0	-10	FD	0.942	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/22/2009
1	MW-129M1	136	0	-10	N	0.897	J	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	4/22/2009
1	MW-129M1	136	0	-10	N	21.2		16.8		0.891		0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	4/22/2008
1	MW-129M1	136	0	-10	N	28	J	7.79	J	0.287	U	0.287	U	0.287	U	0.287	UJ	0.287	UJ	0.287	UJ	4/18/2007
1	MW-129M1	136	0	-10	N	4.34		0.35		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2006
1	MW-129M1	136	0	-10	N	1.5	J	1.7		0.26		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/5/2005
1	MW-129M1	136	0	-10	N	3.68		1.7		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/6/2004
1	MW-129M1	136	0	-10	N	6.54		2.5		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/7/2004
1	MW-129M1	136	0	-10	N	6.62		2.2		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/10/2004
1	MW-129M1	136	0	-10	N	8.5	J	1.6		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/2/2003
1	MW-129M1	136	0	-10	N	N/A		1.7		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/24/2003
1	MW-129M1	136	0	-10	N	5.9	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/21/2003
1	MW-129M1	136	0	-10	N	2.2		0.26		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/13/2002
1	MW-129M1	136	0	-10	N	1.9		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/19/2002
1	MW-129M1	136	0	-10	N	N/A		0.5		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/10/2002
1	MW-129M1	136	0	-10	N	N/A		0.72		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/27/2002
1	MW-129M1	136	0	-10	N	4.63		1.7		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/12/2002
1	MW-129M1	136	0	-10	N	5.92	J	1.5		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/21/2001
1	MW-129M1	136	0	-10	N	6		0.48		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/19/2001
1	MW-129M1	136	0	-10	N	9		0.62	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/14/2001
1	MW-129M1	136	0	-10	N	10		N/A		N/A		N/A		N/A		N/A		N/A		N/A		1/2/2001
1	MW-129M1	136	0	-10	N	N/A		0.66	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/3/2000
1	MW-129M2	136	20	10	N	0.043	J	0.205	UJ	0.205	UJ	0.205	UJ	0.205	UJ	0.205	UJ	0.205	UJ	0.205	UJ	5/3/2012
1	MW-129M2	136	20	10	N	0.052		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/13/2011
1	MW-129M2	136	20	10	N	0.071		0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	5/3/2011
1	MW-129M2	136	20	10	N	0.061		0.227	U	0.227	U	0.227	U	0.227	U	0.227	U	0.227	U	0.227	U	12/27/2010
1	MW-129M2	136	0	-10	N	0.476		0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	4/15/2010
1	MW-129M2	136	20	10	FD	0.637		N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/16/2009
1	MW-129M2	136	20	10	N	0.65		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	11/16/2009
1	MW-129M2	136	20	10	FD	1.93		0.548		0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	4/22/2009
1	MW-129M2	136	20	10	N	1.99		0.583		0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	4/22/2009
1	MW-129M2	136	20	10	N	12.9		1.97	J	0.6	J	0.227	UJ	0.227	UJ	0.227	UJ	0.227	UJ	0.227	UJ	12/23/2008
1	MW-129M2	136	20	10	N	13.9		61.1		2.01	J	0.213	UJ	0.213	UJ	0.213	UJ	0.213	UJ	0.213	UJ	4/22/2008
1	MW-129M2	136	20	10	N	N/A		68.6		3.09		0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	1/31/2008
1	MW-129M2	136	20	10	N	35.1		71.9		3		0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	12/6/2007
1	MW-129M2	136	20	10	N	15.5		6.27		0.284	U	0.284	U	0.284	U	0.284	U	0.284	U	0.284	U	4/19/2007
1	MW-129M2	136	20	10	N	60.1		14		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2006
1	MW-129M2	136	20	10	N	4.5	J	4.4		0.4		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/5/2005
1	MW-129M2	136	20	10	N	4.74		2.8		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/6/2004
1	MW-129M2	136	20	10	N	5.27		2.1		0.38		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/7/2004
1	MW-129M2	136	20	10	N	5.13		2.8		0.52		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/10/2004
1	MW-129M2	136	20	10	N	6.7	J	3.8		0.56		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/2/2003
1	MW-129M2	136	20	10	N	14	J	13		1.4		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/24/2003
1	MW-129M2	136	20	10	FD	15		13		1.5		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/13/2002
1	MW-129M2	136	20	10	N	16		13	J	1.5	J	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	11/13/2002
1	MW-129M2	136	20	10	N	13		8.4		0.82		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/19/2002

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-129M2	136	20	10	N	N/A		7.9		0.77		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/10/2002
1	MW-129M2	136	20	10	FD	N/A		7.9		0.77		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/27/2002
1	MW-129M2	136	20	10	N	N/A		7.6		0.75		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/27/2002
1	MW-129M2	136	20	10	N	0.72	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/12/2002
1	MW-129M2	136	20	10	N	6.93	J	10		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/21/2001
1	MW-129M2	136	20	10	N	8		1.8		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/20/2001
1	MW-129M2	136	20	10	N	6		1.2	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/14/2001
1	MW-129M2	136	20	10	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		1/2/2001
1	MW-129M2	136	20	10	N	N/A		1.7		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/3/2000
1	MW-129M3	136	40	30	N	0.15		0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	5/3/2012
1	MW-129M3	136	40	30	N	0.231		0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	5/3/2011
1	MW-129M3	136	40	30	N	0.218		0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	4/15/2010
1	MW-129M3	136	40	30	N	0.535	J	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	4/22/2009
1	MW-129M3	136	40	30	N	1.64		0.699		0.227	U	0.227	U	0.227	U	0.227	U	0.227	U	0.227	U	4/22/2008
1	MW-129M3	136	40	30	N	1	U	0.275	U	0.275	U	0.275	U	0.275	U	0.275	U	0.275	U	0.275	U	4/19/2007
1	MW-129M3	136	40	30	N	0.436	J	0.41		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2006
1	MW-129M3	136	40	30	N	0.54	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/21/2005
1	MW-129M3	136	40	30	N	1.2	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/7/2004
1	MW-129M3	136	40	30	N	0.36	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/6/2004
1	MW-129M3	136	40	30	N	0.35U		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/7/2004
1	MW-129M3	136	40	30	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/10/2004
1	MW-129M3	136	40	30	N	0.59	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/2/2003
1	MW-129M3	136	40	30	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/24/2003
1	MW-129M3	136	40	30	N	0.7	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/13/2002
1	MW-129M3	136	40	30	FD	1.5	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/19/2002
1	MW-129M3	136	40	30	N	2	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/19/2002
1	MW-129M3	136	40	30	N	0.69	J	0.32		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/15/2002
1	MW-129M3	136	40	30	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/21/2001
1	MW-129M3	136	40	30	FD	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/20/2001
1	MW-129M3	136	40	30	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/20/2001
1	MW-129M3	136	40	30	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/14/2001
1	MW-129M3	136	40	30	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		1/2/2001
1	MW-129M3	136	40	30	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/3/2000
1	MW-139M1	149	-45	-55	N	0.013	J	0.205	U	0.205	U	0.205	U	0.205	U	0.205	U	0.205	U	0.205	U	4/25/2012
1	MW-139M1	149	-45	-55	N	0.015	J	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	4/28/2011
1	MW-139M1	149	-45	-55	N	0.079		0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	4/14/2010
1	MW-139M1	149	-45	-55	N	1	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	4/30/2009
1	MW-139M1	149	-45	-55	N	1	U	0.22	UJ	0.22	UJ	0.22	UJ	0.22	UJ	0.22	UJ	0.22	UJ	0.22	UJ	4/8/2008
1	MW-139M1	149	-45	-55	N	2.55	J	0.284	U	0.284	U	0.284	U	0.284	U	0.284	U	0.284	U	0.284	U	4/18/2007
1	MW-139M1	149	-45	-55	N	1.38	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/29/2006
1	MW-139M1	149	-45	-55	N	0.37	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/13/2006
1	MW-139M1	149	-45	-55	N	0.444	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/16/2005
1	MW-139M1	149	-45	-55	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		6/23/2005
1	MW-139M1	149	-45	-55	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/6/2005
1	MW-139M1	149	-45	-55	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/6/2004
1	MW-139M1	149	-45	-55	N	0.505	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/4/2004
1	MW-139M1	149	-45	-55	N	0.595	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/14/2004
1	MW-139M1	149	-45	-55	N	0.401	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/27/2004
1	MW-139M1	149	-45	-55	N	0.42	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/10/2003
1	MW-139M1	149	-45	-55	N	0.65	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/28/2003
1	MW-139M1	149	-45	-55	N	1.4		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/13/2002
1	MW-139M1	149	-45	-55	N	1.6		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/9/2002
1	MW-139M1	149	-45	-55	N	1.86		0.25	U	0.25	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/17/2002
1	MW-139M1	149	-45	-55	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/27/2001
1	MW-139M1	149	-45	-55	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/20/2001

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-139M1	149	-45	-55	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/15/2001
1	MW-139M1	149	-45	-55	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/29/2000
1	MW-139M2	149	-5	-15	N	0.186		0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	4/25/2012
1	MW-139M2	149	-5	-15	N	N/A		0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	12/28/2011
1	MW-139M2	149	-5	-15	FD	1.04		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/28/2011
1	MW-139M2	149	-5	-15	N	1.07		0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	4/28/2011
1	MW-139M2	149	-5	-15	N	N/A		0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	12/27/2010
1	MW-139M2	149	-5	-15	N	7.23		0.232		0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	4/14/2010
1	MW-139M2	149	-5	-15	N	N/A		0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	11/16/2009
1	MW-139M2	149	-5	-15	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/30/2009
1	MW-139M2	149	-5	-15	N	1	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	4/30/2009
1	MW-139M2	149	-5	-15	N	N/A		0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	12/22/2008
1	MW-139M2	149	-5	-15	N	10.9		4.02		0.444	U	0.444	U	0.444	U	0.444	U	0.444	U	0.444	U	4/8/2008
1	MW-139M2	149	-5	-15	N	N/A		4.63		0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	12/6/2007
1	MW-139M2	149	-5	-15	N	1	UJ	3.53		0.269	U	0.269	U	0.269	U	0.269	U	0.269	U	0.269	U	4/18/2007
1	MW-139M2	149	-5	-15	N	N/A		3.2		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/2/2007
1	MW-139M2	149	-5	-15	N	3.86		1.7		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/13/2006
1	MW-139M2	149	-5	-15	N	N/A		0.92		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/7/2006
1	MW-139M2	149	-5	-15	N	N/A		0.3		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/23/2005
1	MW-139M2	149	-5	-15	N	2.94		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/7/2005
1	MW-139M2	149	-5	-15	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/6/2004
1	MW-139M2	149	-5	-15	N	3.5	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/4/2004
1	MW-139M2	149	-5	-15	N	0.6	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/14/2004
1	MW-139M2	149	-5	-15	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/27/2004
1	MW-139M2	149	-5	-15	N	13		0.32		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/10/2003
1	MW-139M2	149	-5	-15	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/28/2003
1	MW-139M2	149	-5	-15	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/13/2002
1	MW-139M2	149	-5	-15	FD	1.3		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/9/2002
1	MW-139M2	149	-5	-15	N	1.2		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/9/2002
1	MW-139M2	149	-5	-15	N	2.77		0.25	U	0.25	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/17/2002
1	MW-139M2	149	-5	-15	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/27/2001
1	MW-139M2	149	-5	-15	N	3	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/20/2001
1	MW-139M2	149	-5	-15	N	11	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/15/2001
1	MW-139M2	149	-5	-15	N	8		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/29/2000
1	MW-139M3	149	30	20	N	0.118		0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	4/28/2011
1	MW-139M3	149	30	20	N	N/A		0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	4/14/2010
1	MW-139M3	149	30	20	N	0.121		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/14/2010
1	MW-139M3	149	30	20	N	1	UJ	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	5/1/2009
1	MW-139M3	149	30	20	FD	1	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	4/8/2008
1	MW-139M3	149	30	20	N	1	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	4/8/2008
1	MW-139M3	149	30	20	FD	1	UJ	0.281	UJ	0.281	UJ	0.281	UJ	0.281	UJ	0.281	UJ	0.281	UJ	0.281	UJ	4/18/2007
1	MW-139M3	149	30	20	N	1	UJ	0.298	U	0.298	U	0.298	U	0.298	U	0.298	U	0.298	U	0.298	U	4/18/2007
1	MW-139M3	149	30	20	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/13/2006
1	MW-139M3	149	30	20	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/7/2005
1	MW-139M3	149	30	20	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/4/2004
1	MW-139M3	149	30	20	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/14/2004
1	MW-139M3	149	30	20	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/27/2004
1	MW-139M3	149	30	20	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/10/2003
1	MW-139M3	149	30	20	FD	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/28/2003
1	MW-139M3	149	30	20	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/28/2003
1	MW-139M3	149	30	20	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/13/2002
1	MW-139M3	149	30	20	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/9/2002
1	MW-139M3	149	30	20	N	1	U	0.25	U	0.25	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/17/2002
1	MW-139M3	149	30	20	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/27/2001
1	MW-139M3	149	30	20	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/20/2001

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-139M3	149	30	20	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/15/2001
1	MW-139M3	149	30	20	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/29/2000
1	MW-162M1	140	-50	-60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/19/2007
1	MW-162M1	140	-50	-60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/18/2006
1	MW-162M1	140	-50	-60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/18/2005
1	MW-162M1	140	-50	-60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/28/2004
1	MW-162M1	140	-50	-60	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/6/2004
1	MW-162M1	140	-50	-60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/1/2004
1	MW-162M1	140	-50	-60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		10/10/2003
1	MW-162M1	140	-50	-60	N	2	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/26/2003
1	MW-162M1	140	-50	-60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/13/2002
1	MW-162M1	140	-50	-60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/8/2002
1	MW-162M1	140	-50	-60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/17/2002
1	MW-162M1	140	-50	-60	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/18/2002
1	MW-162M1	140	-50	-60	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/15/2001
1	MW-162M1	140	-50	-60	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/4/2001
1	MW-162M2	140	15	5	N	0.041	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/29/2012
1	MW-162M2	140	15	5	N	0.046	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/18/2011
1	MW-162M2	140	15	5	N	0.0446	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/13/2010
1	MW-162M2	140	15	5	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/20/2009
1	MW-162M2	140	15	5	N	1.18		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/10/2008
1	MW-162M2	140	15	5	N	1.42		0.287	UJ	0.287	UJ	0.287	UJ	0.287	UJ	0.287	UJ	0.287	UJ	0.287	UJ	4/19/2007
1	MW-162M2	140	15	5	N	0.869	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		1/2/2007
1	MW-162M2	140	15	5	N	4.33		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/18/2006
1	MW-162M2	140	15	5	N	4.6		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/12/2005
1	MW-162M2	140	15	5	N	5.1	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		6/21/2005
1	MW-162M2	140	15	5	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2005
1	MW-162M2	140	15	5	N	10	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/7/2004
1	MW-162M2	140	15	5	N	6.2		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/28/2004
1	MW-162M2	140	15	5	N	4.11		0.25	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/16/2004
1	MW-162M2	140	15	5	N	3.91	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/1/2004
1	MW-162M2	140	15	5	N	4.4		N/A		N/A		N/A		N/A		N/A		N/A		N/A		10/10/2003
1	MW-162M2	140	15	5	FD	3.4	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/27/2003
1	MW-162M2	140	15	5	N	3.5	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/27/2003
1	MW-162M2	140	15	5	N	1.9		N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/14/2002
1	MW-162M2	140	15	5	FD	2	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/8/2002
1	MW-162M2	140	15	5	N	2.4	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/8/2002
1	MW-162M2	140	15	5	N	2.03		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/18/2002
1	MW-162M2	140	15	5	N	1.55	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/18/2002
1	MW-162M2	140	15	5	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/15/2001
1	MW-162M2	140	15	5	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/5/2001
1	MW-162M3	140	55	45	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/20/2007
1	MW-162M3	140	55	45	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/18/2006
1	MW-162M3	140	55	45	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/19/2005
1	MW-162M3	140	55	45	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/28/2004
1	MW-162M3	140	55	45	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/6/2004
1	MW-162M3	140	55	45	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/1/2004
1	MW-162M3	140	55	45	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		10/10/2003
1	MW-162M3	140	55	45	N	2	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/27/2003
1	MW-162M3	140	55	45	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/15/2002
1	MW-162M3	140	55	45	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/8/2002
1	MW-162M3	140	55	45	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/18/2002
1	MW-162M3	140	55	45	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/18/2002
1	MW-162M3	140	55	45	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/22/2002
1	MW-162M3	140	55	45	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/16/2001

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-162M3	140	55	45	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/5/2001
1	MW-165M1	143	-41	-51	N	0.015	J	0.212	U	0.212	U	0.212	U	0.212	U	0.212	U	0.212	U	0.212	U	3/29/2012
1	MW-165M1	143	-41	-51	N	0.015	J	0.227	U	0.227	U	0.227	U	0.227	U	0.227	U	0.227	U	0.227	U	4/19/2011
1	MW-165M1	143	-41	-51	N	0.407		0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	4/15/2010
1	MW-165M1	143	-41	-51	N	1	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	4/16/2009
1	MW-165M1	143	-41	-51	N	1	U	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	4/18/2008
1	MW-165M1	143	-41	-51	N	1	U	0.269	U	0.269	U	0.269	U	0.269	U	0.269	U	0.269	U	0.269	U	4/16/2007
1	MW-165M1	143	-41	-51	FD	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/29/2006
1	MW-165M1	143	-41	-51	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/29/2006
1	MW-165M1	143	-41	-51	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/14/2006
1	MW-165M1	143	-41	-51	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/19/2005
1	MW-165M1	143	-41	-51	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/8/2005
1	MW-165M1	143	-41	-51	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/14/2005
1	MW-165M1	143	-41	-51	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/7/2004
1	MW-165M1	143	-41	-51	N	3.54	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/5/2004
1	MW-165M1	143	-41	-51	N	3.05		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/9/2004
1	MW-165M1	143	-41	-51	N	3.15	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/1/2004
1	MW-165M1	143	-41	-51	N	2.5		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/10/2003
1	MW-165M1	143	-41	-51	N	4	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/27/2003
1	MW-165M1	143	-41	-51	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/13/2002
1	MW-165M1	143	-41	-51	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/10/2002
1	MW-165M1	143	-41	-51	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/18/2002
1	MW-165M1	143	-41	-51	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/7/2002
1	MW-165M1	143	-41	-51	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/16/2001
1	MW-165M1	143	-41	-51	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/7/2001
1	MW-165M2	143	19	9	N	0.142		0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	3/29/2012
1	MW-165M2	143	19	9	N	0.158		0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	12/15/2011
1	MW-165M2	143	19	9	N	0.233		0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	4/19/2011
1	MW-165M2	143	19	9	N	0.277		0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	12/23/2010
1	MW-165M2	143	19	9	N	0.357		0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	4/15/2010
1	MW-165M2	143	19	9	N	1.09		0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	11/16/2009
1	MW-165M2	143	19	9	FD	1	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	4/16/2009
1	MW-165M2	143	19	9	N	1	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	4/16/2009
1	MW-165M2	143	19	9	N	0.781	J	0.213	U	0.213	UJ	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	12/16/2008
1	MW-165M2	143	19	9	N	5.41		11.6		2.13		0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	4/18/2008
1	MW-165M2	143	19	9	N	6.55		26.9		2.16		0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	2/1/2008
1	MW-165M2	143	19	9	N	26.2		171		9.58		0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	12/6/2007
1	MW-165M2	143	19	9	N	5.05		1.99		0.28		0.269	U	0.269	U	0.269	U	0.269	U	0.269	U	4/16/2007
1	MW-165M2	143	19	9	N	6.57		1.8		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/28/2006
1	MW-165M2	143	19	9	N	3.89		0.74		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/14/2006
1	MW-165M2	143	19	9	FD	N/A		1.3		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/7/2006
1	MW-165M2	143	19	9	N	N/A		1.3		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/7/2006
1	MW-165M2	143	19	9	FD	6.14		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/15/2005
1	MW-165M2	143	19	9	N	5.92		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/15/2005
1	MW-165M2	143	19	9	N	0.62	J	0.56		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/8/2005
1	MW-165M2	143	19	9	N	9.8		R		R		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/14/2005
1	MW-165M2	143	19	9	N	94	J	R		R		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/7/2004
1	MW-165M2	143	19	9	N	41.3		10		1.6		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/6/2004
1	MW-165M2	143	19	9	N	39		10		1.8		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/9/2004
1	MW-165M2	143	19	9	FD	50.9	J	13		2.1		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/1/2004
1	MW-165M2	143	19	9	N	50.9	J	13		2.1		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/1/2004
1	MW-165M2	143	19	9	FD	58	J	12		1.6		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/11/2003
1	MW-165M2	143	19	9	N	57	J	12		1.5	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/11/2003
1	MW-165M2	143	19	9	N	110	J	R		R		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/27/2003
1	MW-165M2	143	19	9	N	78		19		2		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/26/2002

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-165M2	143	19	9	N	64		23		2.2		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/10/2002
1	MW-165M2	143	19	9	N	83.5		26		2.2	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/18/2002
1	MW-165M2	143	19	9	N	81.2		N/A		N/A		N/A		N/A		N/A		N/A		N/A		1/10/2002
1	MW-165M2	143	19	9	N	N/A		27	J	2.3		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/7/2002
1	MW-165M2	143	19	9	N	102		50		3.6		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/16/2001
1	MW-165M2	143	19	9	N	122	J	60		4.1		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/8/2001
1	MW-165M3	143	49	39	N	0.027	J	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	4/19/2011
1	MW-165M3	143	49	39	N	0.0274	J	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	4/15/2010
1	MW-165M3	143	49	39	N	1	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	4/16/2009
1	MW-165M3	143	49	39	N	1	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	4/21/2008
1	MW-165M3	143	49	39	N	1	U	0.291	UJ	0.291	UJ	0.291	UJ	0.291	UJ	0.291	UJ	0.291	UJ	0.291	UJ	4/16/2007
1	MW-165M3	143	49	39	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/14/2006
1	MW-165M3	143	49	39	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/14/2006
1	MW-165M3	143	49	39	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/14/2005
1	MW-165M3	143	49	39	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/5/2004
1	MW-165M3	143	49	39	N	0.35U		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2004
1	MW-165M3	143	49	39	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/1/2004
1	MW-165M3	143	49	39	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/14/2003
1	MW-165M3	143	49	39	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/28/2003
1	MW-165M3	143	49	39	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/26/2002
1	MW-165M3	143	49	39	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/10/2002
1	MW-165M3	143	49	39	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2002
1	MW-165M3	143	49	39	N	2	U	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	2/13/2002
1	MW-165M3	143	49	39	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/16/2001
1	MW-165M3	143	49	39	FD	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/9/2001
1	MW-165M3	143	49	39	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/9/2001
1	MW-172M1	128	-71	-81	N	0.025	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/27/2011
1	MW-172M1	128	-71	-81	N	0.083		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/14/2010
1	MW-172M1	128	-71	-81	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/7/2009
1	MW-172M1	128	-71	-81	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/18/2008
1	MW-172M1	128	-71	-81	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/13/2007
1	MW-172M1	128	-71	-81	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/13/2006
1	MW-172M1	128	-71	-81	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/5/2005
1	MW-172M1	128	-71	-81	N	1	U	0.25	U	0.25	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/28/2004
1	MW-172M1	128	-71	-81	N	0.35U		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2004
1	MW-172M1	128	-71	-81	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/10/2004
1	MW-172M1	128	-71	-81	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/14/2003
1	MW-172M1	128	-71	-81	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/28/2003
1	MW-172M1	128	-71	-81	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/3/2003
1	MW-172M1	128	-71	-81	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		9/18/2002
1	MW-172M1	128	-71	-81	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/18/2002
1	MW-172M1	128	-71	-81	N	2	U	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	2/8/2002
1	MW-172M1	128	-71	-81	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/21/2001
1	MW-172M1	128	-71	-81	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/21/2001
1	MW-172M2	128	-41	-51	N	0.119		N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/29/2012
1	MW-172M2	128	-41	-51	N	0.121		0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	4/27/2011
1	MW-172M2	128	-41	-51	N	0.127		0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	4/14/2010
1	MW-172M2	128	-41	-51	N	1	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	5/7/2009
1	MW-172M2	128	-41	-51	N	0.378	J	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	4/18/2008
1	MW-172M2	128	-41	-51	N	0.25	J	0.278	UJ	0.278	UJ	0.278	UJ	0.278	UJ	0.278	UJ	0.278	UJ	0.278	UJ	4/13/2007
1	MW-172M2	128	-41	-51	N	0.616	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/29/2006
1	MW-172M2	128	-41	-51	FD	0.551	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/14/2006
1	MW-172M2	128	-41	-51	N	0.388	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/14/2006
1	MW-172M2	128	-41	-51	N	0.688	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/19/2005
1	MW-172M2	128	-41	-51	N	2.1	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/5/2005

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-172M2	128	-41	-51	N	4.1		0.25	U	0.25	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/28/2004
1	MW-172M2	128	-41	-51	N	4.39		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2004
1	MW-172M2	128	-41	-51	FD	4.44		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/10/2004
1	MW-172M2	128	-41	-51	N	4.45		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/10/2004
1	MW-172M2	128	-41	-51	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/15/2003
1	MW-172M2	128	-41	-51	N	6.8		N/A		N/A		N/A		N/A		N/A		N/A		N/A		10/15/2003
1	MW-172M2	128	-41	-51	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/28/2003
1	MW-172M2	128	-41	-51	N	6.8	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/28/2003
1	MW-172M2	128	-41	-51	N	6.8		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/26/2002
1	MW-172M2	128	-41	-51	N	7.1		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/18/2002
1	MW-172M2	128	-41	-51	N	5.45		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/8/2002
1	MW-172M2	128	-41	-51	N	3.94	J	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	9/21/2001
1	MW-172M2	128	-41	-51	N	3	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/21/2001
1	MW-172M3	128	19	9	N	0.097		0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	4/27/2011
1	MW-172M3	128	19	9	N	0.0273	J	0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	4/14/2010
1	MW-172M3	128	19	9	N	1	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	5/7/2009
1	MW-172M3	128	19	9	N	1	U	0.227	UJ	0.227	UJ	0.227	UJ	0.227	UJ	0.227	UJ	0.227	UJ	0.227	UJ	4/18/2008
1	MW-172M3	128	19	9	N	1	U	0.284	U	0.284	U	0.284	U	0.284	U	0.284	U	0.284	U	0.284	U	4/13/2007
1	MW-172M3	128	19	9	N	0.417	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/14/2006
1	MW-172M3	128	19	9	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/14/2006
1	MW-172M3	128	19	9	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/5/2005
1	MW-172M3	128	19	9	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/5/2005
1	MW-172M3	128	19	9	N	1	U	0.25	U	0.25	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/28/2004
1	MW-172M3	128	19	9	N	0.35U		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2004
1	MW-172M3	128	19	9	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/10/2004
1	MW-172M3	128	19	9	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/15/2003
1	MW-172M3	128	19	9	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/28/2003
1	MW-172M3	128	19	9	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/3/2003
1	MW-172M3	128	19	9	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/18/2002
1	MW-172M3	128	19	9	FD	2	U	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	2/8/2002
1	MW-172M3	128	19	9	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/8/2002
1	MW-172M3	128	19	9	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/24/2001
1	MW-172M3	128	19	9	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/21/2001
1	MW-19D	109	-184	-189	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/27/2003
1	MW-19D	109	-184	-189	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/23/2002
1	MW-19D	109	-184	-189	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/30/2001
1	MW-19D	109	-184	-189	N	N/A		R		R		R		R		R		R		R		5/2/2001
1	MW-19D	109	-184	-189	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/8/2000
1	MW-19D	109	-184	-189	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/15/1999
1	MW-19D	109	-184	-189	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/11/1999
1	MW-19D	109	-184	-189	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/17/1998
1	MW-19D	109	-184	-189	N	N/A		0.4	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/4/1998
1	MW-19S	109	56	46	N	N/A		10.6		5.3		0.228		0.203	U	0.203	U	0.306		0.388		11/26/2012
1	MW-19S	109	56	46	FD	N/A		11.5	J	4.58	J	0.217	UJ	0.217	UJ	0.217	UJ	0.267	J	0.217	UJ	4/17/2012
1	MW-19S	109	56	46	N	N/A		10.9		4.62		0.21	U	0.21	U	0.21	U	0.259		0.21	U	4/17/2012
1	MW-19S	109	56	46	N	N/A		11.9		12.8		0.634		0.2	U	0.2	U	0.392		0.353		12/13/2011
1	MW-19S	109	56	46	N	0.293		12.3		3.61		0.172	J	0.222	U	0.222	U	0.348		0.275		4/18/2011
1	MW-19S	109	71	61	N	N/A		6.26		6.2		0.449		0.21	U	0.21	U	0.272		0.242		12/22/2010
1	MW-19S	109	71	61	FD	N/A		11.2		2.82		0.21	U	0.21	U	0.21	U	0.227		0.28		4/22/2010
1	MW-19S	109	71	61	N	0.559		11.6		2.86		0.208	U	0.208	U	0.208	U	0.262		0.275		4/22/2010
1	MW-19S	109	71	61	N	N/A		12		5.03		0.204	U	0.204	U	0.204	U	0.377		0.34		11/16/2009
1	MW-19S	109	71	61	N	1	U	9.45		3.23		0.21	U	0.21	U	0.21	U	0.319		0.467		4/29/2009
1	MW-19S	109	71	61	N	N/A		6.41	J	2.32	J	0.213	UJ	0.213	UJ	0.213	UJ	0.316	J	0.429	J	12/29/2008
1	MW-19S	109	71	61	N	1	UJ	13		3.36		0.238	U	0.238	U	0.238	U	0.259		0.402		4/24/2008
1	MW-19S	109	71	61	N	N/A		16.4		11.8		0.373		0.227	U	0.227	U	0.222	J	0.227	U	12/7/2007

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-19S	109	71	61	N	1	U	24.7		5.43		0.272	U	0.272	U	0.272	UJ	0.403		0.541		4/30/2007
1	MW-19S	109	71	61	N	0.83	J	34		40		0.49		0.25	U	0.25	U	1.1		1		1/3/2007
1	MW-19S	109	71	61	N	1	U	19		7.6		0.25	U	0.25	U	0.25	U	0.51	NJ	0.82		4/12/2006
1	MW-19S	109	71	61	N	N/A		9.8		3.9		0.25	U	0.25	U	0.25	U	0.42		0.75		2/8/2006
1	MW-19S	109	71	61	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/13/2005
1	MW-19S	109	71	61	N	1	U	14		6.5		0.25	U	0.25	U	0.25	U	0.43		0.78		8/8/2005
1	MW-19S	109	71	61	N	1.86	J	R		R		R		0.25	U	0.25	U	R		R		6/1/2004
1	MW-19S	109	71	61	N	2.71	J	R		R		R		0.25	U	0.25	U	R		R		2/28/2004
1	MW-19S	109	71	61	N	7.8	J	80		31		1	J	0.25	U	0.25	U	1.1	J	1.3		9/27/2003
1	MW-19S	109	71	61	N	4.1	J	99		28	J	1.5	J	0.25	U	0.25	U	1.6		1.8	J	8/7/2002
1	MW-19S	109	71	61	N	5.2		120		32	J	1.8	J	0.25	U	0.25	U	1.5		1.4	J	5/29/2002
1	MW-19S	109	71	61	N	18.6	J	120		46	J	2.2	J	0.25	U	0.25	U	2.2		2.3		12/27/2001
1	MW-19S	109	71	61	N	8.49		120		43		2.4		0.25	U	5.8	U	1.5	J	1.7	J	8/24/2001
1	MW-19S	109	71	61	N	41		200		51		1.3	J	0.25	U	0.25	U	1.2		1.4	J	6/18/2001
1	MW-19S	109	71	61	N	12		45	J	40	J	1.6	J	0.25	U	0.25	U	1	J	1.4	J	12/8/2000
1	MW-19S	109	71	61	N	5	J	290		67		2	J	0.26	J	0.25	U	1.7		2.4	J	8/8/2000
1	MW-19S	109	71	61	N	N/A		N/A		N/A		N/A		5	U	5	U	N/A		N/A		6/6/2000
1	MW-19S	109	71	61	N	N/A		160		50	J	3.9	J	0.25	U	0.25	U	1.5		1.6	J	5/23/2000
1	MW-19S	109	71	61	N	N/A		150	J	49	J	3.7	J	0.25	U	0.25	U	1.4	J	1.6	J	5/12/2000
1	MW-19S	109	71	61	N	N/A		240		76		2.6	J	0.25	U	0.25	U	3.1		4.6	J	9/10/1999
1	MW-19S	109	71	61	N	N/A		250		71		7.2	J	5	U	0.25	UJ	2.9	J	4	J	2/12/1999
1	MW-19S	109	71	61	N	N/A		N/A		N/A		N/A		0.3	J	0.25	U	3.4		N/A		7/20/1998
1	MW-19S	109	71	61	N	N/A		N/A		N/A		10	J	0.25	U	0.25	U	2.3	J	4.4	J	3/5/1998
1	MW-214M1	147	-51	-61	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/12/2007
1	MW-214M1	147	-51	-61	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/11/2006
1	MW-214M1	147	-51	-61	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/5/2005
1	MW-214M1	147	-51	-61	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/30/2004
1	MW-214M1	147	-51	-61	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/21/2004
1	MW-214M1	147	-51	-61	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/19/2004
1	MW-214M1	147	-51	-61	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		2/5/2004
1	MW-214M1	147	-51	-61	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/5/2003
1	MW-214M1	147	-51	-61	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/4/2002
1	MW-214M1	147	-51	-61	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/21/2002
1	MW-214M2	147	-18	-28	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/12/2011
1	MW-214M2	147	-18	-28	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/13/2010
1	MW-214M2	147	-18	-28	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/20/2009
1	MW-214M2	147	-18	-28	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/16/2008
1	MW-214M2	147	-18	-28	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/13/2007
1	MW-214M2	147	-18	-28	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/28/2006
1	MW-214M2	147	-18	-28	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/12/2006
1	MW-214M2	147	-18	-28	N	0.391	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/16/2005
1	MW-214M2	147	-18	-28	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		6/21/2005
1	MW-214M2	147	-18	-28	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/8/2004
1	MW-214M2	147	-18	-28	N	0.61	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/2/2004
1	MW-214M2	147	-18	-28	N	0.35	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/21/2004
1	MW-214M2	147	-18	-28	N	0.65	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/19/2004
1	MW-214M2	147	-18	-28	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		2/5/2004
1	MW-214M2	147	-18	-28	N	0.72	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/5/2003
1	MW-214M2	147	-18	-28	N	0.6	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/4/2002
1	MW-214M2	147	-18	-28	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/21/2002
1	MW-214M3	147	7	-3	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/13/2007
1	MW-214M3	147	7	-3	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/12/2006
1	MW-214M3	147	7	-3	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/12/2006
1	MW-214M3	147	7	-3	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/5/2005
1	MW-214M3	147	7	-3	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/3/2004

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-214M3	147	7	-3	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/21/2004
1	MW-214M3	147	7	-3	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/19/2004
1	MW-214M3	147	7	-3	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		2/5/2004
1	MW-214M3	147	7	-3	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/6/2003
1	MW-214M3	147	7	-3	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		2/4/2003
1	MW-214M3	147	7	-3	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/4/2002
1	MW-214M3	147	7	-3	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/21/2002
1	MW-255M1	167	-39	-49	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/29/2007
1	MW-255M1	167	-39	-49	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/17/2006
1	MW-255M1	167	-39	-49	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/17/2006
1	MW-255M1	167	-39	-49	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/20/2005
1	MW-255M1	167	-39	-49	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/5/2004
1	MW-255M1	167	-39	-49	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/1/2004
1	MW-255M1	167	-39	-49	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/3/2003
1	MW-255M1	167	-39	-49	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/31/2003
1	MW-255M1	167	-39	-49	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/31/2003
1	MW-255M2	167	-3	-13	N	0.183		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/17/2012
1	MW-255M2	167	-3	-13	N	0.086		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/26/2011
1	MW-255M2	167	-3	-13	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/13/2010
1	MW-255M2	167	-3	-13	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/20/2009
1	MW-255M2	167	-3	-13	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/15/2008
1	MW-255M2	167	-3	-13	N	0.622	J	0.227	UJ	0.227	UJ	0.227	UJ	0.227	UJ	0.227	UJ	0.227	UJ	0.227	UJ	8/28/2007
1	MW-255M2	167	-3	-13	N	2.75	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/29/2007
1	MW-255M2	167	-3	-13	N	1.59	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/29/2006
1	MW-255M2	167	-3	-13	N	0.441	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/17/2006
1	MW-255M2	167	-3	-13	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/16/2005
1	MW-255M2	167	-3	-13	FD	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		6/21/2005
1	MW-255M2	167	-3	-13	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		6/21/2005
1	MW-255M2	167	-3	-13	FD	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		6/21/2005
1	MW-255M2	167	-3	-13	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		6/21/2005
1	MW-255M2	167	-3	-13	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/9/2004
1	MW-255M2	167	-3	-13	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/9/2004
1	MW-255M2	167	-3	-13	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/5/2004
1	MW-255M2	167	-3	-13	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/1/2004
1	MW-255M2	167	-3	-13	N	0.36	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/3/2003
1	MW-255M2	167	-3	-13	N	1.1		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/31/2003
1	MW-255M2	167	-3	-13	N	0.54	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/31/2003
1	MW-255M3	167	31	21	FD	0.772	J	0.225	UJ	0.225	UJ	0.225	UJ	0.225	UJ	0.225	UJ	0.225	UJ	0.225	UJ	8/28/2007
1	MW-255M3	167	31	21	N	0.795	J	0.225	UJ	0.225	UJ	0.225	UJ	0.225	UJ	0.225	UJ	0.225	UJ	0.225	UJ	8/28/2007
1	MW-255M3	167	31	21	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/29/2007
1	MW-255M3	167	31	21	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/17/2006
1	MW-255M3	167	31	21	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/20/2005
1	MW-255M3	167	31	21	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/5/2004
1	MW-255M3	167	31	21	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/1/2004
1	MW-255M3	167	31	21	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/1/2004
1	MW-255M3	167	31	21	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/11/2003
1	MW-255M3	167	31	21	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/31/2003
1	MW-255M3	167	31	21	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/31/2003
1	MW-255M3	167	31	21	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/31/2003
1	MW-31D	154	21	16	N	1	U	0.278	U	0.278	U	0.278	U	0.278	U	0.278	UJ	0.278	U	0.278	U	4/27/2007
1	MW-31D	154	21	16	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/13/2006
1	MW-31D	154	21	16	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/30/2005
1	MW-31D	154	21	16	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/27/2004
1	MW-31D	154	21	16	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/11/2004
1	MW-31D	154	21	16	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/28/2004
1	MW-31D	154	21	16	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/27/2003
1	MW-31D	154	21	16	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/27/2003

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-31D	154	21	16	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/15/2002
1	MW-31D	154	21	16	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/7/2002
1	MW-31D	154	21	16	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/22/2002
1	MW-31D	154	21	16	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/4/2002
1	MW-31D	154	21	16	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/2/2001
1	MW-31D	154	21	16	N	5	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/2/2001
1	MW-31D	154	21	16	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/18/2000
1	MW-31D	154	21	16	N	N/A		150		29		3.9	J	0.52	J	0.25	U	2.8		2.7	J	8/9/2000
1	MW-31D	154	21	16	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/15/2000
1	MW-31D	154	21	16	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/15/1999
1	MW-31D	154	21	16	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/1/1999
1	MW-31D	154	21	16	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/14/1998
1	MW-31M	154	41	31	N	N/A		1.04		0.98		0.204	U	0.204	U	0.204	U	0.363		0.276		11/26/2012
1	MW-31M	154	41	31	N	0.18		5.11		4.63		0.204	U	0.204	U	0.204	U	0.401		0.361		4/24/2012
1	MW-31M	154	41	31	N	N/A		6.1		4.86		0.213	U	0.213	U	0.213	U	0.336		0.341		12/27/2011
1	MW-31M	154	41	31	N	0.456		6.88		4.13		0.217	U	0.217	U	0.217	U	0.304		0.25		4/18/2011
1	MW-31M	154	41	31	N	0.425		4.58		3.7		0.208	U	0.208	U	0.208	U	0.321		0.252		12/21/2010
1	MW-31M	154	41	31	N	0.113		1.45		0.588		0.204	U	0.204	U	0.204	U	0.204	U	0.132	J	4/8/2010
1	MW-31M	154	41	31	N	0.055		0.221		2.35		0.21	U	0.21	U	0.21	U	0.254		0.208	J	11/18/2009
1	MW-31M	154	41	31	FD	N/A		20.1		3.15		0.213	U	0.213	U	0.213	U	0.221		0.354		4/20/2009
1	MW-31M	154	41	31	N	1	U	20.5		4.05		0.213	U	0.213	U	0.213	U	0.221		0.301		4/20/2009
1	MW-31M	154	41	31	N	1	U	0.219		1.84	J	0.21	U	0.21	U	0.21	U	0.211		0.472		12/16/2008
1	MW-31M	154	41	31	N	0.737	J	21.2		42.6		0.222	U	0.222	U	0.222	U	0.222	U	0.4		4/24/2008
1	MW-31M	154	41	31	N	0.501	J	11.6	J	7.84	J	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	12/7/2007
1	MW-31M	154	41	31	N	0.928	J	25.9		31.1		0.266	U	0.266	U	0.266	U	0.266	U	0.382		4/26/2007
1	MW-31M	154	41	31	N	2.68		26		9.1		0.25	U	0.25	U	0.25	U	0.25	U	0.83		4/13/2006
1	MW-31M	154	41	31	N	16		R		R		0.25	U	0.25	U	0.25	U	0.25	U	R		4/30/2005
1	MW-31M	154	41	31	N	7.44	J	R		R		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/27/2004
1	MW-31M	154	41	31	N	0.474	J	2		0.5		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/11/2004
1	MW-31M	154	41	31	N	0.628	J	1.2		0.68	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/28/2004
1	MW-31M	154	41	31	N	2.9		1.4		0.28		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/27/2003
1	MW-31M	154	41	31	N	1.8	J	8.1		1.1	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/27/2003
1	MW-31M	154	41	31	N	5.2		4.6		1.3		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/15/2002
1	MW-31M	154	41	31	N	10	J	7.8		1.3		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/7/2002
1	MW-31M	154	41	31	FD	3.04	J	7.2		0.32		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/22/2002
1	MW-31M	154	41	31	N	2.98	J	7.4		0.31		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/22/2002
1	MW-31M	154	41	31	N	1.66	J	1.2		0.25	U	0.25	U	0.25	U	0.25	U	0.27		0.25	U	1/4/2002
1	MW-31M	154	41	31	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/2/2001
1	MW-31M	154	41	31	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.3		0.25	U	8/2/2001
1	MW-31M	154	41	31	N	19		70		26		5.2		0.39	J	0.25	U	3.3		3.8		5/23/2001
1	MW-31M	154	41	31	N	5	U	1.6	J	1.2	J	0.25	U	0.25	U	0.25	U	0.36	J	0.3	J	12/8/2000
1	MW-31M	154	41	31	N	50	J	14		1.8	J	0.25	U	0.25	U	0.25	U	0.38		0.41	J	8/9/2000
1	MW-31M	154	41	31	N	N/A		19		0.89	J	0.25	U	0.25	U	0.25	U	0.38	J	0.55		5/15/2000
1	MW-31M	154	41	31	N	N/A		29		13		0.5	U	0.5	U	0.5	U	0.5	U	1.7	J	9/15/1999
1	MW-31M	154	41	31	N	N/A		370		27		0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	1.3	J	2/2/1999
1	MW-31M	154	41	31	N	N/A		N/A		N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/15/1998
1	MW-31S	154	56	51	FD	N/A		2.1		1.41		1.5		0.175	J	0.205	U	0.56		0.6		11/26/2012
1	MW-31S	154	56	51	N	N/A		2.08		1.42		1.5		0.235		0.204	U	0.552		0.577		11/26/2012
1	MW-31S	154	56	51	FD	N/A		4.17		4.06		1.58		0.236		0.202	U	0.501		0.281		4/24/2012
1	MW-31S	154	56	51	N	0.12		4.27	J	3.73	J	1.56	J	0.228	J	0.206	UJ	0.482	J	0.285	J	4/24/2012
1	MW-31S	154	56	51	FD	N/A		6.75		2.64		1.72		0.237		0.225	U	0.588		0.246		12/27/2011
1	MW-31S	154	56	51	N	N/A		6.86		2.65		1.74		0.26		0.21	U	0.602		0.216		12/27/2011
1	MW-31S	154	56	51	FD	N/A		2.47		1.89		2.06		0.204	J	0.217	U	0.795		0.323		4/18/2011
1	MW-31S	154	56	51	N	0.303		3.06		2.04		1.86		0.227	J	0.235	U	0.788		0.296		4/18/2011
1	MW-31S	154	56	51	N	0.651		4.39		2.2		2.23		0.292		0.208	U	0.942		0.378		12/21/2010

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-31S	154	56	41	N	0.443		7.09		3.58		2.1		0.229		0.206	U	1.03		0.538		4/8/2010
1	MW-31S	154	56	51	N	0.229		5.46		3.19		2.66		0.209		0.206	U	1.18		0.632		11/18/2009
1	MW-31S	154	56	51	N	1	U	4.97		9.23		2.53		0.193	J	0.217	U	1.03		0.919		4/20/2009
1	MW-31S	154	56	51	N	1	U	10.6	J	5.24	J	2.66		0.22		0.208	U	0.894		1.02		12/16/2008
1	MW-31S	154	56	51	N	0.47	J	12.7		9.94		2.5		0.235	U	0.235	U	0.795		0.77		4/24/2008
1	MW-31S	154	56	51	N	0.741	J	28.2		7.22		2.83		0.217	U	0.217	U	1.06		0.913		12/7/2007
1	MW-31S	154	56	51	N	1	U	6.3		5.88		2.84		0.154	J	0.269	U	0.9		0.831		4/26/2007
1	MW-31S	154	56	51	N	1.62		27	J	13		4.8		R		0.25	U	1.2	NJ	0.95		4/13/2006
1	MW-31S	154	56	51	N	4.6		R		R		R		R		0.25	U	R		R		4/30/2005
1	MW-31S	154	56	51	N	4.7	J	13	J	12	J	6.3		0.35	J	0.25	U	1.7		1.2	J	10/27/2004
1	MW-31S	154	56	51	N	5.02		R		R		R		R		0.25	U	R		R		5/11/2004
1	MW-31S	154	56	51	N	7.77	J	R		R		R		R		0.25	U	R		R		2/28/2004
1	MW-31S	154	56	51	FD	5.3		62		28		5.2	J	0.44	J	0.25	U	2.5		2.2		9/27/2003
1	MW-31S	154	56	51	N	4.6		63		29		5.2	J	0.46	J	0.25	U	2.5	J	2.3		9/27/2003
1	MW-31S	154	56	51	N	10		R		R		R		0.44	U	0.25	U	R		R		3/28/2003
1	MW-31S	154	56	51	N	4.9		N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/15/2002
1	MW-31S	154	56	51	N	N/A		11		16		5.5		0.36	J	0.25	U	2.8		3		11/15/2002
1	MW-31S	154	56	51	N	7.2	J	85		31	J	5.9		0.41	J	0.25	U	3		3.1	J	8/7/2002
1	MW-31S	154	56	51	N	12		130		24	J	5.5		0.38		0.25	U	3.4	J	2.4	J	5/29/2002
1	MW-31S	154	56	51	N	12.5		31		11	J	5.9		0.46	J	0.25	U	3.6		3.2		1/4/2002
1	MW-31S	154	56	51	N	16.2		88		20		5.4		0.4	J	0.25	U	3.6	J	3	J	8/24/2001
1	MW-31S	154	56	51	N	20	J	81		29		5.2		0.36	J	0.25	U	3.2		3.8		5/2/2001
1	MW-31S	154	56	51	N	30		120		43	J	5.2	J	0.46	J	0.25	U	3.2	J	3.3	J	12/8/2000
1	MW-31S	154	56	51	N	40	J	140		28		3.9	J	0.46	J	0.25	U	2.7		2.6	J	8/9/2000
1	MW-31S	154	56	51	N	N/A		110		28	J	3.3		0.52	J	0.25	U	2.4		3		5/15/2000
1	MW-31S	154	56	51	N	N/A		50		35		1.2		0.75	U	0.75	U	1.5		4.3	J	9/15/1999
1	MW-31S	154	56	51	N	N/A		210		24		0.25	U	0.39	J	0.25	U	1.8	J	1.5	J	2/1/1999
1	MW-31S	154	56	51	N	N/A		N/A		N/A		0.25	U	0.34		0.25	U	1.3		0.9	J	7/15/1998
1	MW-32D	163	-18	-23	N	0.271		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/27/2011
1	MW-32D	163	-18	-23	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/15/2010
1	MW-32D	163	-18	-23	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/29/2009
1	MW-32D	163	-18	-23	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/22/2008
1	MW-32D	163	-18	-23	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/22/2008
1	MW-32D	163	-18	-23	N	1.18	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/29/2007
1	MW-32D	163	-18	-23	N	0.393	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/19/2006
1	MW-32D	163	-18	-23	N	0.83	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		6/23/2005
1	MW-32D	163	-18	-23	N	0.71	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/15/2004
1	MW-32D	163	-18	-23	N	4.78		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/3/2004
1	MW-32D	163	-18	-23	N	2.35		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2004
1	MW-32D	163	-18	-23	N	2.2	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/10/2004
1	MW-32D	163	-18	-23	N	2.2	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/18/2003
1	MW-32D	163	-18	-23	N	0.44	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/31/2003
1	MW-32D	163	-18	-23	N	0.66	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		1/29/2003
1	MW-32D	163	-18	-23	N	0.64	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/22/2002
1	MW-32D	163	-18	-23	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/16/1999
1	MW-32D	163	-18	-23	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/2/1999
1	MW-32D	163	-18	-23	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/16/1998
1	MW-32M	163	2	-8	N	0.177		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/28/2011
1	MW-32M	163	2	-8	N	0.0232	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/15/2010
1	MW-32M	163	2	-8	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/30/2009
1	MW-32M	163	2	-8	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/23/2008
1	MW-32M	163	2	-8	N	0.339	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/29/2007
1	MW-32M	163	2	-8	N	0.304	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/29/2006
1	MW-32M	163	2	-8	N	0.544	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/19/2006
1	MW-32M	163	2	-8	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/20/2005

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-32M	163	2	-8	FD	4.03		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/4/2004
1	MW-32M	163	2	-8	N	4.21		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/4/2004
1	MW-32M	163	2	-8	N	4.14		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2004
1	MW-32M	163	2	-8	N	3.93		N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/4/2004
1	MW-32M	163	2	-8	FD	2.8	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/18/2003
1	MW-32M	163	2	-8	N	2.6	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/18/2003
1	MW-32M	163	2	-8	N	2.5		N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/31/2003
1	MW-32M	163	2	-8	FD	2.3		N/A		N/A		N/A		N/A		N/A		N/A		N/A		1/29/2003
1	MW-32M	163	2	-8	N	2.3		N/A		N/A		N/A		N/A		N/A		N/A		N/A		1/29/2003
1	MW-32M	163	2	-8	N	1.97		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/22/2002
1	MW-32M	163	2	-8	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/16/1999
1	MW-32M	163	2	-8	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/3/1999
1	MW-32M	163	2	-8	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/16/1998
1	MW-32S	165	19	14	N	0.04	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/27/2011
1	MW-32S	165	19	14	N	0.0112	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/15/2010
1	MW-32S	165	19	14	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/30/2009
1	MW-32S	165	19	14	N	0.952	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/22/2008
1	MW-32S	165	19	14	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/29/2007
1	MW-32S	165	19	14	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/1/2006
1	MW-32S	165	19	14	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		6/23/2005
1	MW-32S	165	19	14	N	1	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/16/2004
1	MW-32S	165	19	14	N	1.26		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/4/2004
1	MW-32S	165	19	14	N	1.04		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/22/2004
1	MW-32S	165	19	14	N	1.69		N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/4/2004
1	MW-32S	165	19	14	N	2	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/18/2003
1	MW-32S	165	19	14	N	1.5	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/31/2003
1	MW-32S	165	19	14	N	2.1		N/A		N/A		N/A		N/A		N/A		N/A		N/A		1/29/2003
1	MW-32S	165	19	14	N	1.38		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/23/2002
1	MW-32S	165	19	14	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/16/1999
1	MW-32S	165	19	14	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/3/1999
1	MW-32S	165	19	14	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/22/1998
1	MW-33D	164	-18	-23	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/27/2011
1	MW-33D	164	-18	-23	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/14/2010
1	MW-33D	164	-18	-23	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/1/2009
1	MW-33D	164	-18	-23	N	0.458	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/17/2008
1	MW-33D	164	-18	-23	N	0.438	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/17/2007
1	MW-33D	164	-18	-23	N	2.02		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/14/2006
1	MW-33D	164	-18	-23	FD	0.7	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		6/21/2005
1	MW-33D	164	-18	-23	N	0.7	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		6/21/2005
1	MW-33D	164	-18	-23	N	1.1	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/8/2004
1	MW-33D	164	-18	-23	N	0.83	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/3/2004
1	MW-33D	164	-18	-23	N	0.476	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2004
1	MW-33D	164	-18	-23	N	0.839	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/4/2004
1	MW-33D	164	-18	-23	N	1.1		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/3/2003
1	MW-33D	164	-18	-23	N	1.6	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/31/2003
1	MW-33D	164	-18	-23	N	3		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2/6/2003
1	MW-33D	164	-18	-23	FD	2.2		N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/15/2002
1	MW-33D	164	-18	-23	N	2.2		N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/15/2002
1	MW-33D	164	-18	-23	N	2	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/8/2002
1	MW-33D	164	-18	-23	N	2.02		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/23/2002
1	MW-33D	164	-18	-23	N	1.54	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/26/2001
1	MW-33D	164	-18	-23	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/30/2001
1	MW-33D	164	-18	-23	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/7/2001
1	MW-33D	164	-18	-23	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/18/2000
1	MW-33D	164	-18	-23	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/16/1999

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-33D	164	-18	-23	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/3/1999
1	MW-33D	164	-18	-23	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/21/1998
1	MW-33M	164	2	-8	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/27/2011
1	MW-33M	164	2	-8	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/14/2010
1	MW-33M	164	2	-8	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/1/2009
1	MW-33M	164	2	-8	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/17/2008
1	MW-33M	164	2	-8	N	0.269	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/17/2007
1	MW-33M	164	2	-8	N	0.673	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/14/2006
1	MW-33M	164	2	-8	N	0.64	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/22/2005
1	MW-33M	164	2	-8	N	0.767	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/3/2004
1	MW-33M	164	2	-8	FD	0.41	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2004
1	MW-33M	164	2	-8	N	0.48	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2004
1	MW-33M	164	2	-8	N	1.06		N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/5/2004
1	MW-33M	164	2	-8	N	1.1		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/3/2003
1	MW-33M	164	2	-8	N	1.5	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/31/2003
1	MW-33M	164	2	-8	N	1.7		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2/6/2003
1	MW-33M	164	2	-8	N	1.9		N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/18/2002
1	MW-33M	164	2	-8	N	2.1	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/8/2002
1	MW-33M	164	2	-8	N	1.72		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/23/2002
1	MW-33M	164	2	-8	N	1.38	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/26/2001
1	MW-33M	164	2	-8	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/30/2001
1	MW-33M	164	2	-8	FD	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/7/2001
1	MW-33M	164	2	-8	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/7/2001
1	MW-33M	164	2	-8	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/18/2000
1	MW-33M	164	2	-8	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/16/1999
1	MW-33M	164	2	-8	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/3/1999
1	MW-33M	164	2	-8	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/20/1998
1	MW-33S	164	17	12	N	0.045	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/27/2011
1	MW-33S	164	17	12	N	0.0287	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/14/2010
1	MW-33S	164	17	12	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/1/2009
1	MW-33S	164	17	12	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/18/2008
1	MW-33S	164	17	12	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/17/2007
1	MW-33S	164	17	12	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/14/2006
1	MW-33S	164	17	12	FD	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/22/2005
1	MW-33S	164	17	12	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/22/2005
1	MW-33S	164	17	12	N	0.442	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/3/2004
1	MW-33S	164	17	12	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/22/2004
1	MW-33S	164	17	12	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/4/2004
1	MW-33S	164	17	12	N	0.56	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/3/2003
1	MW-33S	164	17	12	N	1.3	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/31/2003
1	MW-33S	164	17	12	N	1.3		N/A		N/A		N/A		N/A		N/A		N/A		N/A		2/6/2003
1	MW-33S	164	17	12	N	1.6		N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/18/2002
1	MW-33S	164	17	12	N	1.6	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/8/2002
1	MW-33S	164	17	12	N	1.72		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/23/2002
1	MW-33S	164	17	12	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/30/2001
1	MW-33S	164	17	12	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/18/2000
1	MW-33S	164	17	12	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/16/1999
1	MW-33S	164	17	12	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/4/1999
1	MW-33S	164	17	12	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/21/1998
1	MW-34M1	145	-6	-16	FD	1.5		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/25/2012
1	MW-34M1	145	-6	-16	N	1.56		0.205	U	0.205	U	0.205	U	0.205	U	0.205	U	0.205	U	0.205	U	4/25/2012
1	MW-34M1	145	-6	-16	FD	2.97		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/28/2011
1	MW-34M1	145	-6	-16	N	3.03		0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	4/28/2011
1	MW-34M1	145	-6	-16	N	3.7		0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	4/14/2010
1	MW-34M1	145	-6	-16	N	1.69		0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	4/30/2009

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-34M1	145	-6	-16	N	0.863	J	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	4/21/2008
1	MW-34M1	145	-6	-16	N	1.64		0.465	J	0.275	UJ	0.275	UJ	0.275	UJ	0.275	UJ	0.275	UJ	0.275	UJ	4/25/2007
1	MW-34M1	145	-6	-16	N	7.35		6.6		0.85		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/18/2006
1	MW-34M1	145	-6	-16	N	3.1		4.7		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/21/2005
1	MW-34M1	145	-6	-16	N	3.32	J	3.7		0.44		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/5/2004
1	MW-34M1	145	-6	-16	N	5.28		6.8		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/14/2004
1	MW-34M1	145	-6	-16	N	3.43		2.6		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/5/2004
1	MW-34M1	145	-6	-16	N	6.9		4.9		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/12/2003
1	MW-34M1	145	-6	-16	N	8	J	4.3		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/24/2003
1	MW-34M1	145	-6	-16	N	8		0.32	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/15/2002
1	MW-34M1	145	-6	-16	N	7.1	J	0.28	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/20/2002
1	MW-34M1	145	-6	-16	N	7.9		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/24/2002
1	MW-34M1	145	-6	-16	N	17.7		0.53		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/26/2001
1	MW-34M1	145	-6	-16	FD	31.4		0.85		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/31/2001
1	MW-34M1	145	-6	-16	N	30.8		0.87	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/31/2001
1	MW-34M1	145	-6	-16	N	46		1.5		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/5/2001
1	MW-34M1	145	-6	-16	N	109		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/18/2000
1	MW-34M1	145	-6	-16	N	N/A		4.5		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/17/2000
1	MW-34M1	145	-6	-16	N	N/A		5		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/11/2000
1	MW-34M1	145	-6	-16	N	N/A		2.2		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/17/2000
1	MW-34M1	145	-6	-16	N	N/A		0.79		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/25/1999
1	MW-34M1	145	-6	-16	N	N/A		0.39		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/16/1999
1	MW-34M1	145	-6	-16	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/19/1999
1	MW-34M2	145	14	4	N	0.756		0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	4/25/2012
1	MW-34M2	145	14	4	N	0.754		0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	4/28/2011
1	MW-34M2	145	14	4	N	1.13		0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	4/14/2010
1	MW-34M2	145	14	4	N	0.699	J	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	4/30/2009
1	MW-34M2	145	14	4	N	3.61		0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	4/21/2008
1	MW-34M2	145	14	4	N	2.05		1.7		0.269	U	0.269	U	0.269	U	0.269	U	0.269	U	0.269	U	4/25/2007
1	MW-34M2	145	14	4	N	N/A		2.7		0.27		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/2/2007
1	MW-34M2	145	14	4	N	6.13		4.9		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/18/2006
1	MW-34M2	145	14	4	N	N/A		3.9		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/8/2006
1	MW-34M2	145	14	4	N	N/A		4.8		0.55		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/22/2005
1	MW-34M2	145	14	4	N	3.9		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2005
1	MW-34M2	145	14	4	N	N/A		2.2		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/8/2004
1	MW-34M2	145	14	4	N	5.87	J	2.1		0.33		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/5/2004
1	MW-34M2	145	14	4	N	5.23		3.2		0.34	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/14/2004
1	MW-34M2	145	14	4	N	7.02		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/5/2004
1	MW-34M2	145	14	4	N	7.3		3.9		0.34		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/12/2003
1	MW-34M2	145	14	4	N	10	J	1.9		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/24/2003
1	MW-34M2	145	14	4	N	14		1.2		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/15/2002
1	MW-34M2	145	14	4	N	17		0.66	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/20/2002
1	MW-34M2	145	14	4	N	19.6		0.5		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/24/2002
1	MW-34M2	145	14	4	N	5.85	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/26/2001
1	MW-34M2	145	14	4	N	16.2		0.37		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/30/2001
1	MW-34M2	145	14	4	N	28	J	0.87		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/1/2001
1	MW-34M2	145	14	4	N	34		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/18/2000
1	MW-34M2	145	14	4	N	N/A		2.5		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/17/2000
1	MW-34M2	145	14	4	N	60	J	3.1		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/10/2000
1	MW-34M2	145	14	4	N	N/A		4.7		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/18/2000
1	MW-34M2	145	14	4	N	N/A		1.9		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/25/1999
1	MW-34M2	145	14	4	N	N/A		1.3		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/16/1999
1	MW-34M2	145	14	4	N	N/A		6.2		0.3		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/19/1999
1	MW-34M3	145	34	24	N	0.027	J	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	5/3/2011
1	MW-34M3	145	34	24	N	0.243		0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	4/14/2010

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-34M3	145	34	24	N	1	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	4/30/2009
1	MW-34M3	145	34	24	N	1.12		0.232	U	0.232	U	0.232	U	0.232	U	0.232	U	0.232	U	0.232	U	4/23/2008
1	MW-34M3	145	34	24	N	1	U	0.275	U	0.275	U	0.275	U	0.275	U	0.275	U	0.275	U	0.275	U	4/26/2007
1	MW-34M3	145	34	24	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/18/2006
1	MW-34M3	145	34	24	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/22/2005
1	MW-34M3	145	34	24	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2005
1	MW-34M3	145	34	24	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/8/2004
1	MW-34M3	145	34	24	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/6/2004
1	MW-34M3	145	34	24	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/14/2004
1	MW-34M3	145	34	24	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/5/2004
1	MW-34M3	145	34	24	N	1	U	0.37		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/12/2003
1	MW-34M3	145	34	24	FD	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/24/2003
1	MW-34M3	145	34	24	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/24/2003
1	MW-34M3	145	34	24	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/15/2002
1	MW-34M3	145	34	24	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/20/2002
1	MW-34M3	145	34	24	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/24/2002
1	MW-34M3	145	34	24	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/26/2001
1	MW-34M3	145	34	24	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/31/2001
1	MW-34M3	145	34	24	N	5	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/1/2001
1	MW-34M3	145	34	24	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/18/2000
1	MW-34M3	145	34	24	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/17/2000
1	MW-34M3	145	34	24	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/10/2000
1	MW-34M3	145	34	24	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/18/2000
1	MW-34M3	145	34	24	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/25/1999
1	MW-34M3	145	34	24	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/16/1999
1	MW-34M3	145	34	24	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/19/1999
1	MW-35M1	154	-1	-11	N	3.5	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/25/2004
1	MW-35M1	154	-1	-11	FD	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/1/2003
1	MW-35M1	154	-1	-11	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/1/2003
1	MW-35M1	154	-1	-11	N	3.9		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/8/2003
1	MW-35M1	154	-1	-11	N	4.2		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/18/2002
1	MW-35M1	154	-1	-11	N	5		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/19/2002
1	MW-35M1	154	-1	-11	N	6.44	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/24/2002
1	MW-35M1	154	-1	-11	N	6.34	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/21/2001
1	MW-35M1	154	-1	-11	N	5.4		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/3/2001
1	MW-35M1	154	-1	-11	N	4	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/4/2001
1	MW-35M1	154	-1	-11	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/27/2001
1	MW-35M1	154	-1	-11	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/18/2000
1	MW-35M1	154	-1	-11	FD	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/17/2000
1	MW-35M1	154	-1	-11	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/17/2000
1	MW-35M1	154	-1	-11	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/9/2000
1	MW-35M1	154	-1	-11	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	UJ	0.25	U	0.25	U	5/22/2000
1	MW-35M1	154	-1	-11	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/28/1999
1	MW-35M1	154	-1	-11	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/20/1999
1	MW-35M1	154	-1	-11	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/19/1999
1	MW-35M2	154	54	44	N	0.033	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/26/2011
1	MW-35M2	154	54	44	N	0.0244	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/13/2010
1	MW-35M2	154	54	44	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/20/2009
1	MW-35M2	154	54	44	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/8/2008
1	MW-35M2	154	54	44	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/27/2007
1	MW-35M2	154	54	44	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/18/2006
1	MW-35M2	154	54	44	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/22/2005
1	MW-35M2	154	54	44	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/25/2004
1	MW-35M2	154	54	44	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/17/2004
1	MW-35M2	154	54	44	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/8/2003

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-35M2	154	54	44	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/18/2002
1	MW-35M2	154	54	44	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/20/2002
1	MW-35M2	154	54	44	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/24/2002
1	MW-35M2	154	54	44	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/21/2001
1	MW-35M2	154	54	44	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/3/2001
1	MW-35M2	154	54	44	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/7/2001
1	MW-35M2	154	54	44	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/27/2001
1	MW-35M2	154	54	44	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/18/2000
1	MW-35M2	154	54	44	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/17/2000
1	MW-35M2	154	54	44	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/9/2000
1	MW-35M2	154	54	44	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	UJ	0.25	U	0.25	U	5/22/2000
1	MW-35M2	154	54	44	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/28/1999
1	MW-35M2	154	54	44	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/19/1999
1	MW-35M2	154	54	44	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/22/1999
1	MW-35S	154	70	60	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/14/2002
1	MW-35S	154	70	60	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/3/2001
1	MW-35S	154	70	60	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/22/2001
1	MW-35S	154	70	60	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/27/2001
1	MW-35S	154	70	60	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/18/2000
1	MW-35S	154	70	60	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/10/2000
1	MW-35S	154	70	60	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	UJ	0.25	U	0.25	U	5/22/2000
1	MW-35S	154	70	60	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/28/1999
1	MW-35S	154	70	60	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/19/1999
1	MW-35S	154	70	60	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/22/1999
1	MW-36M1	144	-8	-18	N	0.779		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/17/2012
1	MW-36M1	144	-8	-18	FD	1.76		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/12/2011
1	MW-36M1	144	-8	-18	N	1.75		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/12/2011
1	MW-36M1	144	-8	-18	FD	5.4		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/13/2010
1	MW-36M1	144	-8	-18	N	5.26		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/13/2010
1	MW-36M1	144	-8	-18	N	4.26		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/22/2009
1	MW-36M1	144	-7	-17	N	0.738	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/23/2008
1	MW-36M1	144	-7	-17	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/26/2007
1	MW-36M1	144	-7	-17	N	0.624	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/18/2006
1	MW-36M1	144	-7	-17	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/21/2005
1	MW-36M1	144	-7	-17	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/3/2004
1	MW-36M1	144	-7	-17	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/22/2004
1	MW-36M1	144	-7	-17	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/22/2004
1	MW-36M1	144	-7	-17	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/3/2004
1	MW-36M1	144	-7	-17	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/12/2003
1	MW-36M1	144	-7	-17	N	2	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/25/2003
1	MW-36M1	144	-7	-17	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/18/2002
1	MW-36M1	144	-7	-17	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/8/2002
1	MW-36M1	144	-7	-17	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/24/2002
1	MW-36M1	144	-7	-17	N	2	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		1/8/2002
1	MW-36M1	144	-7	-17	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/2/2001
1	MW-36M1	144	-7	-17	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/15/2001
1	MW-36M1	144	-7	-17	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/18/2000
1	MW-36M1	144	-7	-17	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/10/2000
1	MW-36M1	144	-7	-17	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/25/1999
1	MW-36M1	144	-7	-17	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/17/1999
1	MW-36M1	144	-7	-17	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/5/1999
1	MW-36M2	144	13	3	N	1.39		0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	4/17/2012
1	MW-36M2	144	13	3	N	1.7		0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	4/12/2011
1	MW-36M2	144	13	3	FD	2.6		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/13/2010
1	MW-36M2	144	13	3	N	2.6		0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	4/13/2010

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-36M2	144	13	3	N	1.92		0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	4/22/2009
1	MW-36M2	144	13	3	N	2.06		0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	4/23/2008
1	MW-36M2	144	13	3	N	1.48		0.272	U	0.272	U	0.272	U	0.272	U	0.272	U	0.272	U	0.272	U	4/26/2007
1	MW-36M2	144	13	3	N	2.29		0.25		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/18/2006
1	MW-36M2	144	13	3	N	5.3		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2005
1	MW-36M2	144	13	3	N	2.9	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/3/2004
1	MW-36M2	144	13	3	N	1.9		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/22/2004
1	MW-36M2	144	13	3	FD	3.09		N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/3/2004
1	MW-36M2	144	13	3	N	3.13		N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/3/2004
1	MW-36M2	144	13	3	N	4.8		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/12/2003
1	MW-36M2	144	13	3	N	3.7	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/25/2003
1	MW-36M2	144	13	3	N	4.2	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/18/2002
1	MW-36M2	144	13	3	N	4	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/8/2002
1	MW-36M2	144	13	3	N	3.44		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/24/2002
1	MW-36M2	144	13	3	FD	2.16		N/A		N/A		N/A		N/A		N/A		N/A		N/A		1/8/2002
1	MW-36M2	144	13	3	N	1.86	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		1/8/2002
1	MW-36M2	144	13	3	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/2/2001
1	MW-36M2	144	13	3	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/2/2001
1	MW-36M2	144	13	3	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/17/2001
1	MW-36M2	144	13	3	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/18/2000
1	MW-36M2	144	13	3	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/10/2000
1	MW-36M2	144	13	3	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/25/1999
1	MW-36M2	144	13	3	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/17/1999
1	MW-36M2	144	13	3	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/5/1999
1	MW-36S	144	71	61	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/22/2004
1	MW-36S	144	71	61	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/3/2004
1	MW-36S	144	71	61	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/12/2003
1	MW-36S	144	71	61	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/12/2003
1	MW-36S	144	71	61	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/14/2002
1	MW-36S	144	71	61	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/2/2001
1	MW-36S	144	71	61	FD	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/18/2000
1	MW-36S	144	71	61	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/18/2000
1	MW-36S	144	71	61	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/20/2000
1	MW-36S	144	71	61	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/25/1999
1	MW-36S	144	71	61	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/17/1999
1	MW-36S	144	71	61	N	N/A		N/A		N/A		N/A		5	U	5	U	N/A		N/A		8/3/1999
1	MW-36S	144	71	61	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/5/1999
1	MW-46D	226	-69	-79	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/22/2005
1	MW-46D	226	-69	-79	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/17/2004
1	MW-46D	226	-69	-79	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/19/2003
1	MW-46D	226	-69	-79	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/2/2002
1	MW-46D	226	-69	-79	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/11/2002
1	MW-46D	226	-69	-79	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/6/2001
1	MW-46D	226	-69	-79	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/24/2000
1	MW-46D	226	-69	-79	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/2/1999
1	MW-46D	226	-69	-79	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/24/1999
1	MW-46D	226	-69	-79	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/1/1999
1	MW-46M1	226	-36	-46	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/22/2005
1	MW-46M1	226	-36	-46	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/17/2004
1	MW-46M1	226	-36	-46	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/19/2003
1	MW-46M1	226	-36	-46	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/2/2002
1	MW-46M1	226	-36	-46	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/12/2002
1	MW-46M1	226	-36	-46	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/7/2001
1	MW-46M1	226	-36	-46	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/23/2000
1	MW-46M1	226	-36	-46	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/1/1999

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-46M1	226	-36	-46	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	UJ	0.25	U	0.25	U	8/24/1999
1	MW-46M1	226	-36	-46	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/29/1999
1	MW-46M2	226	11	1	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/22/2005
1	MW-46M2	226	11	1	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/17/2004
1	MW-46M2	226	11	1	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/19/2003
1	MW-46M2	226	11	1	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		10/3/2002
1	MW-46M2	226	11	1	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/3/2002
1	MW-46M2	226	11	1	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/12/2002
1	MW-46M2	226	11	1	N	5	U	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	8/7/2001
1	MW-46M2	226	11	1	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/23/2000
1	MW-46M2	226	11	1	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/1/1999
1	MW-46M2	226	11	1	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/24/1999
1	MW-46M2	226	11	1	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/30/1999
1	MW-46M3	226	44	34	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/25/2005
1	MW-46M3	226	44	34	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/17/2004
1	MW-46M3	226	44	34	N	1	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	11/20/2003
1	MW-46M3	226	44	34	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		10/3/2002
1	MW-46M3	226	44	34	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/3/2002
1	MW-46M3	226	44	34	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/10/2002
1	MW-46M3	226	44	34	FD	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/7/2001
1	MW-46M3	226	44	34	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/7/2001
1	MW-46M3	226	44	34	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/23/2000
1	MW-46M3	226	44	34	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/1/1999
1	MW-46M3	226	44	34	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/23/1999
1	MW-46M3	226	44	34	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/31/1999
1	MW-46S	226	72	62	N	5	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/12/2000
1	MW-46S	226	72	62	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/19/1999
1	MW-46S	226	72	62	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	UJ	0.25	U	0.25	U	8/25/1999
1	MW-46S	226	72	62	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/26/1999
1	MW-47D	159	-35	-45	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/25/2005
1	MW-47D	159	-35	-45	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		1/12/2005
1	MW-47D	159	-35	-45	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/31/2004
1	MW-47D	159	-35	-45	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/5/2004
1	MW-47D	159	-35	-45	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/19/2003
1	MW-47D	159	-35	-45	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/1/2003
1	MW-47D	159	-35	-45	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/5/2003
1	MW-47D	159	-35	-45	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/2/2002
1	MW-47D	159	-35	-45	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/3/2002
1	MW-47D	159	-35	-45	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/9/2002
1	MW-47D	159	-35	-45	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/19/2001
1	MW-47D	159	-35	-45	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/2/1999
1	MW-47D	159	-35	-45	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	UJ	0.25	U	0.25	U	8/24/1999
1	MW-47D	159	-35	-45	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/25/1999
1	MW-47M1	159	-10	-20	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/25/2005
1	MW-47M1	159	-10	-20	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		2/15/2005
1	MW-47M1	159	-10	-20	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/31/2004
1	MW-47M1	159	-10	-20	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/5/2004
1	MW-47M1	159	-10	-20	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/19/2003
1	MW-47M1	159	-10	-20	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/1/2003
1	MW-47M1	159	-10	-20	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/5/2003
1	MW-47M1	159	-10	-20	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/2/2002
1	MW-47M1	159	-10	-20	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/3/2002
1	MW-47M1	159	-10	-20	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/3/2002
1	MW-47M1	159	-10	-20	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/9/2002
1	MW-47M1	159	-10	-20	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/19/2001

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-47M1	159	-10	-20	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/2/1999
1	MW-47M1	159	-10	-20	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	UJ	0.25	U	0.25	U	8/24/1999
1	MW-47M1	159	-10	-20	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/26/1999
1	MW-47M2	159	27	17	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/22/2005
1	MW-47M2	159	27	17	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/22/2005
1	MW-47M2	159	27	17	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		2/15/2005
1	MW-47M2	159	27	17	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/31/2004
1	MW-47M2	159	27	17	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/5/2004
1	MW-47M2	159	27	17	FD	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/19/2003
1	MW-47M2	159	27	17	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/19/2003
1	MW-47M2	159	27	17	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/1/2003
1	MW-47M2	159	27	17	FD	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/5/2003
1	MW-47M2	159	27	17	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/5/2003
1	MW-47M2	159	27	17	FD	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/2/2002
1	MW-47M2	159	27	17	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/2/2002
1	MW-47M2	159	27	17	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/3/2002
1	MW-47M2	159	27	17	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/9/2002
1	MW-47M2	159	27	17	FD	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/20/2001
1	MW-47M2	159	27	17	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/20/2001
1	MW-47M2	159	27	17	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/2/1999
1	MW-47M2	159	27	17	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	UJ	0.25	U	0.25	U	8/25/1999
1	MW-47M2	159	27	17	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/26/1999
1	MW-47M3	159	44	34	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/3/2002
1	MW-47M3	159	44	34	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/19/2001
1	MW-47M3	159	44	34	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/2/1999
1	MW-47M3	159	44	34	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/25/1999
1	MW-47M3	159	44	34	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/29/1999
1	MW-47S	159	69	59	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/17/1999
1	MW-47S	159	69	59	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	UJ	0.25	U	0.25	U	8/25/1999
1	MW-47S	159	69	59	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/30/1999
1	MW-64M2	160	60	55	FD	N/A		N/A		N/A		N/A		4.8	U	4.8	U	N/A		N/A		8/15/2011
1	MW-64M2	160	60	55	N	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	8/15/2011
1	MW-64M2	160	60	55	N	0.05	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	9/27/2010
1	MW-64M2	160	60	55	N	0.2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/31/2009
1	MW-64M2	160	60	55	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/9/2005
1	MW-64M2	160	60	55	FD	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/26/2004
1	MW-64M2	160	60	55	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/26/2004
1	MW-64M2	160	60	55	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/12/2003
1	MW-64M2	160	60	55	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/21/2003
1	MW-64M2	160	60	55	FD	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/8/2001
1	MW-64M2	160	60	55	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/8/2001
1	MW-64M2	160	60	55	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/15/2000
1	MW-64M2	160	60	55	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/20/2000
1	MW-64M2	160	60	55	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/7/2000
1	MW-64M2	160	60	55	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/20/1999
1	MW-73S	109	57	47	N	N/A		0.561		0.228		0.205	U	0.205	U	0.205	U	0.205	U	0.205	U	11/26/2012
1	MW-73S	109	57	47	N	0.321		1.23		0.489		0.218	U	0.218	U	0.218	U	0.218	U	0.218	U	4/17/2012
1	MW-73S	109	57	47	N	N/A		1.6		0.556		0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	12/27/2011
1	MW-73S	109	57	47	N	0.548		2.4		0.719		0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	4/18/2011
1	MW-73S	109	55	45	N	0.09		3.49		2.9		0.208	U	0.208	U	0.208	U	0.154	J	0.228		12/22/2010
1	MW-73S	109	55	45	N	0.917		1.22		0.518		0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	4/22/2010
1	MW-73S	109	70	61	N	0.598		1.98		0.571		0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	11/16/2009
1	MW-73S	109	70	61	N	0.902	J	1.27		0.568		0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	4/29/2009
1	MW-73S	109	70	61	N	0.994	J	1.54	J	0.693	J	0.21	UJ	0.21	UJ	0.21	UJ	0.102	J	0.124	J	12/29/2008
1	MW-73S	109	70	60	FD	1.1		2.44		0.923		0.238	U	0.238	U	0.238	U	0.238	U	0.238	U	4/24/2008

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-73S	109	70	60	N	1.1		2.46		1.04		0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	4/24/2008
1	MW-73S	109	70	60	N	1	U	4.32		2.31		0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	12/7/2007
1	MW-73S	109	70	60	FD	1	U	2.64		1.32		0.287	U	0.287	U	0.287	UJ	0.287	U	0.287	U	4/30/2007
1	MW-73S	109	70	60	N	1	U	2.6		1.28		0.278	U	0.278	U	0.278	UJ	0.278	U	0.278	U	4/30/2007
1	MW-73S	109	70	60	N	1	U	9.7		3.4		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/3/2007
1	MW-73S	109	70	60	FD	0.566	J	9.7		3.7		0.25	U	0.25	U	0.25	U	0.29	NJ	0.28		4/12/2006
1	MW-73S	109	70	60	N	0.533	J	9.7		3.7		0.25	U	0.25	U	0.25	U	0.28	NJ	0.28		4/12/2006
1	MW-73S	109	70	60	N	N/A		R		4.8		0.25	U	0.25	U	0.25	U	R		0.25	U	2/8/2006
1	MW-73S	109	70	60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/13/2005
1	MW-73S	109	70	60	N	1		9.3		3		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/8/2005
1	MW-73S	109	70	60	N	2.46	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		6/1/2004
1	MW-73S	109	70	60	N	N/A		11		2.6	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/1/2004
1	MW-73S	109	70	60	N	3	J	18		4.7		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/28/2004
1	MW-73S	109	70	60	N	3.9		12		2.2		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/27/2003
1	MW-73S	109	70	60	N	1.9		34	J	6.3	J	0.91	J	0.25	U	0.25	U	0.65	J	0.53	J	8/20/2002
1	MW-73S	109	70	60	N	3.3		79		20	J	0.25	UJ	0.25	UJ	0.25	UJ	0.31	J	0.79	J	1/11/2002
1	MW-73S	109	70	60	N	10		22		4.4		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/14/2001
1	MW-73S	109	70	60	FD	6		N/A		N/A		N/A		5	U	5	U	N/A		N/A		12/19/2000
1	MW-73S	109	70	60	N	5	U	N/A		N/A		N/A		5.1	U	5.1	U	N/A		N/A		12/19/2000
1	MW-73S	109	70	60	FD	N/A		29		8.4		0.36	J	0.25	U	0.25	U	0.38		0.29	J	11/14/2000
1	MW-73S	109	70	60	N	N/A		28		8.4		0.36	J	0.25	U	0.25	U	0.39		0.26	J	11/14/2000
1	MW-73S	109	70	60	N	N/A		29		6.8		0.39	J	0.25	U	0.25	U	0.54		0.33	J	9/5/2000
1	MW-73S	109	70	60	N	N/A		44		8.6	J	0.54	J	0.25	U	0.25	U	0.74		0.68	J	6/2/2000
1	MW-73S	109	70	60	N	N/A		57		16		0.75	U	0.75	U	0.75	U	0.97		1.1	J	11/2/1999
1	MW-73S	109	70	60	N	N/A		63		18		1	U	1	U	1	U	1	U	1.3	J	9/16/1999
1	MW-73S	109	70	60	N	N/A		50	J	12	J	0.75	U	0.75	U	0.75	U	0.75	U	0.75	J	7/9/1999
1	MW-74M1	163	-7	-17	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/23/2007
1	MW-74M1	163	-7	-17	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/20/2006
1	MW-74M1	163	-7	-17	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/22/2005
1	MW-74M1	163	-7	-17	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/8/2004
1	MW-74M1	163	-7	-17	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/3/2004
1	MW-74M1	163	-7	-17	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/5/2004
1	MW-74M1	163	-7	-17	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/5/2004
1	MW-74M1	163	-7	-17	N	0.42	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/2/2004
1	MW-74M1	163	-7	-17	N	0.9	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/4/2003
1	MW-74M1	163	-7	-17	FD	0.49	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/24/2003
1	MW-74M1	163	-7	-17	N	2	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/24/2003
1	MW-74M1	163	-7	-17	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/18/2002
1	MW-74M1	163	-7	-17	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/8/2002
1	MW-74M1	163	-7	-17	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		6/5/2002
1	MW-74M1	163	-7	-17	N	N/A		0.99		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/25/2002
1	MW-74M1	163	-7	-17	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/3/2002
1	MW-74M1	163	-7	-17	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/13/2001
1	MW-74M1	163	-7	-17	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/8/2001
1	MW-74M1	163	-7	-17	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/2/2001
1	MW-74M1	163	-7	-17	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/6/2000
1	MW-74M1	163	-7	-17	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/1/2000
1	MW-74M1	163	-7	-17	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/1/2000
1	MW-74M1	163	-7	-17	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/14/2000
1	MW-74M2	163	38	28	N	0.254		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/18/2011
1	MW-74M2	163	38	28	N	0.538		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/8/2010
1	MW-74M2	163	38	28	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/29/2009
1	MW-74M2	163	38	28	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/23/2008
1	MW-74M2	163	38	28	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/23/2008
1	MW-74M2	163	38	28	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/24/2007

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-74M2	163	38	28	N	0.274	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		1/3/2007
1	MW-74M2	163	38	28	N	0.583	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2006
1	MW-74M2	163	38	28	N	0.487	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/14/2005
1	MW-74M2	163	38	28	FD	0.7	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		6/22/2005
1	MW-74M2	163	38	28	N	0.72	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		6/22/2005
1	MW-74M2	163	38	28	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2005
1	MW-74M2	163	38	28	FD	0.55	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/8/2004
1	MW-74M2	163	38	28	N	0.56	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/8/2004
1	MW-74M2	163	38	28	N	0.56	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/3/2004
1	MW-74M2	163	38	28	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/5/2004
1	MW-74M2	163	38	28	N	0.39	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/2/2004
1	MW-74M2	163	38	28	FD	0.41	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/4/2003
1	MW-74M2	163	38	28	N	0.39	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/4/2003
1	MW-74M2	163	38	28	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/25/2003
1	MW-74M2	163	38	28	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/18/2002
1	MW-74M2	163	38	28	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/8/2002
1	MW-74M2	163	38	28	N	0.45	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/30/2002
1	MW-74M2	163	38	28	N	0.73	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/25/2002
1	MW-74M2	163	38	28	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/3/2002
1	MW-74M2	163	38	28	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/10/2001
1	MW-74M2	163	38	28	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/2/2001
1	MW-74M2	163	38	28	FD	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/6/2000
1	MW-74M2	163	38	28	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/6/2000
1	MW-74M2	163	38	28	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/1/2000
1	MW-74M2	163	38	28	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/1/2000
1	MW-74M2	163	38	28	FD	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/14/2000
1	MW-74M2	163	38	28	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/14/2000
1	MW-74M3	163	63	53	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/24/2007
1	MW-74M3	163	63	53	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2006
1	MW-74M3	163	63	53	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/19/2005
1	MW-74M3	163	63	53	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/11/2004
1	MW-74M3	163	63	53	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/5/2004
1	MW-74M3	163	63	53	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/2/2004
1	MW-74M3	163	63	53	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/4/2003
1	MW-74M3	163	63	53	N	2	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/24/2003
1	MW-74M3	163	63	53	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/19/2002
1	MW-74M3	163	63	53	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/19/2002
1	MW-74M3	163	63	53	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/8/2002
1	MW-74M3	163	63	53	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		6/5/2002
1	MW-74M3	163	63	53	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/3/2002
1	MW-74M3	163	63	53	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/13/2001
1	MW-74M3	163	63	53	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/10/2001
1	MW-74M3	163	63	53	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/7/2000
1	MW-74M3	163	63	53	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/1/2000
1	MW-74M3	163	63	53	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/1/2000
1	MW-74M3	163	63	53	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/14/2000
1	MW-75M1	150	10	0	N	0.042	J	0.205	U	0.205	U	0.205	U	0.205	U	0.205	U	0.205	U	0.205	U	4/23/2012
1	MW-75M1	150	10	0	N	0.12		0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	4/18/2011
1	MW-75M1	150	10	0	N	0.056		0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	4/8/2010
1	MW-75M1	150	10	0	N	1	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	4/28/2009
1	MW-75M1	150	10	0	N	1	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	4/25/2008
1	MW-75M1	150	10	0	N	1	UJ	0.281	U	0.281	U	0.281	U	0.281	U	0.281	U	0.281	U	0.281	U	4/24/2007
1	MW-75M1	150	10	0	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/21/2006
1	MW-75M1	150	10	0	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		6/22/2005
1	MW-75M1	150	10	0	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/12/2005

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-75M1	150	10	0	N	0.356	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/8/2004
1	MW-75M1	150	10	0	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/3/2004
1	MW-75M1	150	10	0	N	0.524	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/7/2004
1	MW-75M1	150	10	0	N	0.37	J	0.25	U	0.25	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/25/2004
1	MW-75M1	150	10	0	N	0.61	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/3/2003
1	MW-75M1	150	10	0	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/25/2003
1	MW-75M1	150	10	0	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/18/2002
1	MW-75M1	150	10	0	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/18/2002
1	MW-75M1	150	10	0	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/19/2002
1	MW-75M1	150	10	0	N	0.57	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/24/2002
1	MW-75M1	150	10	0	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/4/2002
1	MW-75M1	150	10	0	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/9/2001
1	MW-75M1	150	10	0	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/9/2001
1	MW-75M1	150	10	0	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/7/2000
1	MW-75M1	150	10	0	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/1/2000
1	MW-75M1	150	10	0	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/1/2000
1	MW-75M1	150	10	0	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/27/2000
1	MW-75M2	150	35	25	N	0.682		0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	4/23/2012
1	MW-75M2	150	35	25	N	0.51		0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	4/18/2011
1	MW-75M2	150	35	25	N	0.358		0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	4/8/2010
1	MW-75M2	150	35	25	N	1	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	4/28/2009
1	MW-75M2	150	35	25	N	1	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	4/25/2008
1	MW-75M2	150	35	25	N	1	UJ	0.456		0.275	U	0.275	U	0.275	U	0.275	U	0.275	U	0.275	U	4/24/2007
1	MW-75M2	150	35	25	N	N/A		0.37		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/3/2007
1	MW-75M2	150	35	25	N	0.514	J	0.3		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/21/2006
1	MW-75M2	150	35	25	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/10/2006
1	MW-75M2	150	35	25	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/22/2005
1	MW-75M2	150	35	25	N	1.9	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/15/2005
1	MW-75M2	150	35	25	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/8/2004
1	MW-75M2	150	35	25	FD	1.1		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/3/2004
1	MW-75M2	150	35	25	N	1.1		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/3/2004
1	MW-75M2	150	35	25	FD	2.46		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/7/2004
1	MW-75M2	150	35	25	N	2.59		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/7/2004
1	MW-75M2	150	35	25	FD	2.84		0.25	U	0.25	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/25/2004
1	MW-75M2	150	35	25	N	3.08		0.25	U	0.25	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/25/2004
1	MW-75M2	150	35	25	N	4.2		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/4/2003
1	MW-75M2	150	35	25	N	6.8	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/26/2003
1	MW-75M2	150	35	25	N	3.6	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/18/2002
1	MW-75M2	150	35	25	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/18/2002
1	MW-75M2	150	35	25	FD	3.2		0.5	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/19/2002
1	MW-75M2	150	35	25	N	2.8		0.5	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/19/2002
1	MW-75M2	150	35	25	N	N/A		0.76	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/28/2002
1	MW-75M2	150	35	25	N	4.89		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/25/2002
1	MW-75M2	150	35	25	N	4.08		0.81	J	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	1/7/2002
1	MW-75M2	150	35	25	N	6.24		1.6		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/9/2001
1	MW-75M2	150	35	25	FD	9	J	1.4		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/9/2001
1	MW-75M2	150	35	25	N	9	J	1.4		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/9/2001
1	MW-75M2	150	35	25	N	5	U	1.2	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/7/2000
1	MW-75M2	150	35	25	N	N/A		0.69		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/2/2000
1	MW-75M2	150	35	25	N	N/A		1.6	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/1/2000
1	MW-75M2	150	35	25	N	N/A		1.6		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/27/2000
1	MW-75S	150	69	59	N	1	UJ	0.284	U	0.284	U	0.284	U	0.284	U	0.284	U	0.284	U	0.284	U	4/24/2007
1	MW-75S	150	69	59	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/21/2006
1	MW-75S	150	69	59	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/15/2005
1	MW-75S	150	69	59	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/3/2004

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-75S	150	69	59	N	0.35U		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/7/2004
1	MW-75S	150	69	59	N	1	U	0.25	U	0.25	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/25/2004
1	MW-75S	150	69	59	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/4/2003
1	MW-75S	150	69	59	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/20/2002
1	MW-75S	150	69	59	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/3/2002
1	MW-75S	150	69	59	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/10/2001
1	MW-75S	150	69	59	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/9/2001
1	MW-75S	150	69	59	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/7/2000
1	MW-75S	150	69	59	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/1/2000
1	MW-75S	150	69	59	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/2/2000
1	MW-75S	150	69	59	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/27/2000
1	MW-76M1	136	11	1	N	0.124		2.47		3.21		0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	4/23/2012
1	MW-76M1	136	11	1	FD	N/A		3.57		2.81		0.105	U	0.105	U	0.105	U	0.105	U	0.045	J	4/20/2011
1	MW-76M1	136	11	1	N	0.296		3.59		2.72		0.108	U	0.108	U	0.108	U	0.108	U	0.078	J	4/20/2011
1	MW-76M1	136	11	1	FD	N/A		13.9		10.1		0.235	U	0.235	U	0.235	U	0.235	U	0.121	J	12/22/2010
1	MW-76M1	136	11	1	N	1.05		13.7		9.82		0.21	U	0.21	U	0.21	U	0.21	U	0.0962	J	12/22/2010
1	MW-76M1	136	11	1	FD	N/A		13.5		5.84		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/8/2010
1	MW-76M1	136	11	1	N	0.904		14.2		5.92		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/8/2010
1	MW-76M1	136	11	1	N	0.425	J	10.6		5.53		0.21	U	0.21	U	0.21	U	0.21	U	0.126	J	4/29/2009
1	MW-76M1	136	11	1	N	1	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	4/24/2008
1	MW-76M1	136	11	1	N	1	U	3.9		1.35		0.278	U	0.278	U	0.278	U	0.278	U	0.278	U	4/20/2007
1	MW-76M1	136	11	1	N	0.322	J	0.46		0.32		0.25	U	0.25	U	0.25	U	0.25	U	0.26		4/19/2006
1	MW-76M1	136	11	1	N	1.6		13		11	J	0.25	U	0.25	U	0.25	U	0.25	U	0.81		4/14/2005
1	MW-76M1	136	11	1	N	47.3		R		R		0.25	U	0.25	U	0.25	U	0.25	U	R		8/11/2004
1	MW-76M1	136	11	1	N	17.9		R		R		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/21/2004
1	MW-76M1	136	11	1	N	16.4		R		R		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/24/2004
1	MW-76M1	136	11	1	N	97	J	170		19	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/27/2003
1	MW-76M1	136	11	1	N	200	J	R		R		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/25/2003
1	MW-76M1	136	11	1	N	11	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/18/2002
1	MW-76M1	136	11	1	N	N/A		2.7		1.7		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/18/2002
1	MW-76M1	136	11	1	N	3.1		14	J	4		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/19/2002
1	MW-76M1	136	11	1	N	15.3		79		5.3	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/24/2002
1	MW-76M1	136	11	1	N	30.6		110		3.5	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/28/2001
1	MW-76M1	136	11	1	N	16		90		2.1		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/13/2001
1	MW-76M1	136	11	1	N	8		28		1		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/7/2001
1	MW-76M1	136	11	1	N	N/A		5.3		0.69	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/7/2000
1	MW-76M1	136	11	1	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/6/2000
1	MW-76M1	136	11	1	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/1/2000
1	MW-76M1	136	11	1	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/2/2000
1	MW-76M1	136	11	1	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/24/2000
1	MW-76M2	136	31	21	FD	N/A		2.27		2.46		0.206	U	0.206	U	0.206	U	0.182	J	0.349		11/26/2012
1	MW-76M2	136	31	21	N	N/A		2.43		2.37		0.204	U	0.204	U	0.204	U	0.194	J	0.297		11/26/2012
1	MW-76M2	136	31	21	FD	N/A		6.22		7.61		0.204	U	0.204	U	0.204	U	0.184	J	0.318		4/23/2012
1	MW-76M2	136	31	21	N	0.218		6.33		7.29		0.206	U	0.206	U	0.206	U	0.179	J	0.273		4/23/2012
1	MW-76M2	136	31	21	N	0.439		13.5		7.38		0.21	U	0.21	U	0.21	U	0.21	U	0.216		12/27/2011
1	MW-76M2	136	31	21	FD	N/A		5.95	J	4.78	J	0.106	U	0.106	U	0.106	U	0.053	J	0.144		4/20/2011
1	MW-76M2	136	31	21	N	0.921		5.8		4.48		0.108	U	0.108	U	0.108	U	0.108	U	0.139		4/20/2011
1	MW-76M2	136	31	21	N	1.14		13.7		10.4		0.215	U	0.215	U	0.215	U	0.215	U	0.313		12/22/2010
1	MW-76M2	136	31	21	FD	N/A		9.16		3.62		0.204	U	0.204	U	0.204	U	0.204	U	0.235		4/8/2010
1	MW-76M2	136	31	21	N	1.29		10.4		3.33		0.2	U	0.2	U	0.2	U	0.2	U	0.222	J	4/8/2010
1	MW-76M2	136	31	21	FD	N/A		12.7		7.44		0.206	U	0.206	U	0.206	U	0.206	U	0.528		11/16/2009
1	MW-76M2	136	31	21	N	1.4		12		6.8		0.222	U	0.222	U	0.222	U	0.222	U	0.413		11/16/2009
1	MW-76M2	136	31	21	N	1.28		22.8		9.68		0.215	U	0.215	U	0.215	U	0.215	U	0.558		4/29/2009
1	MW-76M2	136	31	21	N	1.51		21.4		11.5	J	0.206	U	0.206	U	0.206	U	0.206	U	0.58		12/16/2008
1	MW-76M2	136	31	21	N	1.67		22.9		9.15		0.213	U	0.213	U	0.213	U	0.213	U	0.534		4/24/2008

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-76M2	136	31	21	N	0.526	J	9.44		6.14		0.22	U	0.22	U	0.22	U	0.22	U	0.592		12/7/2007
1	MW-76M2	136	31	21	N	1.49		22.6		8.32		0.281	U	0.281	U	0.281	U	0.281	U	0.617		4/23/2007
1	MW-76M2	136	31	21	N	3.5		R		13		0.25	U	0.25	U	0.25	U	0.25	U	0.71		4/19/2006
1	MW-76M2	136	31	21	N	25	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/13/2005
1	MW-76M2	136	31	21	N	N/A		R		R		0.25	U	0.25	U	R		0.25	U	R		4/13/2005
1	MW-76M2	136	31	21	N	57.2		R		R		0.25	U	0.25	U	R		0.25	U	R		8/11/2004
1	MW-76M2	136	31	21	N	93.1		R		R		0.25	U	0.25	U	R		0.25	U	R		4/22/2004
1	MW-76M2	136	31	21	N	115		R		R		0.25	U	0.25	U	0.82	U	0.25	U	R		2/24/2004
1	MW-76M2	136	31	21	N	210		150		29		0.25	U	0.25	U	0.64	J	0.25	U	0.25	U	12/3/2003
1	MW-76M2	136	31	21	FD	500	J	R		R		0.25	U	0.25	U	0.25	U	0.25	U	R		3/26/2003
1	MW-76M2	136	31	21	N	500	J	R		R		0.25	U	0.25	U	0.25	U	0.25	U	R		3/26/2003
1	MW-76M2	136	31	21	N	290		160		16		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/20/2002
1	MW-76M2	136	31	21	N	250		160	J	13	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/19/2002
1	MW-76M2	136	31	21	N	174		130		9.2	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/24/2002
1	MW-76M2	136	31	21	N	126		92		9	J	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	1/7/2002
1	MW-76M2	136	31	21	FD	22.5		48		6		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/13/2001
1	MW-76M2	136	31	21	N	22.1		51		6.2		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/13/2001
1	MW-76M2	136	31	21	N	17		56		6.4		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/7/2001
1	MW-76M2	136	31	21	N	N/A		46		5.5	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/7/2000
1	MW-76M2	136	31	21	N	11		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/6/2000
1	MW-76M2	136	31	21	N	N/A		31		5.1		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/2/2000
1	MW-76M2	136	31	21	N	N/A		37	J	5	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/2/2000
1	MW-76M2	136	31	21	FD	N/A		29		3.9		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/24/2000
1	MW-76M2	136	31	21	N	N/A		31		4.2	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/24/2000
1	MW-76S	136	51	41	N	0.846		0.951	J	0.619	J	0.202	UJ	0.202	UJ	0.202	UJ	0.202	UJ	0.202	UJ	4/23/2012
1	MW-76S	136	51	41	N	0.744		0.291		0.104	U	0.104	U	0.104	U	0.104	U	0.104	U	0.104	U	4/20/2011
1	MW-76S	136	51	41	N	0.521		1.67		0.538		0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	4/8/2010
1	MW-76S	136	51	41	N	0.748	J	0.552		0.336		0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	4/29/2009
1	MW-76S	136	51	41	N	1.11		3.44		0.629		0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	4/24/2008
1	MW-76S	136	51	41	N	2.58		7.88		2.52		0.281	U	0.281	U	0.281	U	0.281	U	0.281	U	4/23/2007
1	MW-76S	136	51	41	N	1.92		3.8		0.96		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2006
1	MW-76S	136	51	41	N	3.2	J	3.9	J	0.48	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/13/2005
1	MW-76S	136	51	41	N	2.11		3.5		3		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/11/2004
1	MW-76S	136	51	41	N	11.3		14		6.6		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/21/2004
1	MW-76S	136	51	41	N	19.1		R		R		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/24/2004
1	MW-76S	136	51	41	N	19		18		5.8		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/27/2003
1	MW-76S	136	51	41	N	26	J	10		5.4		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/18/2002
1	MW-76S	136	51	41	N	88		31	J	5.5	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/20/2002
1	MW-76S	136	51	41	N	175		25		1.3		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/24/2002
1	MW-76S	136	51	41	N	41.2		9.9	J	1	J	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	12/28/2001
1	MW-76S	136	51	41	N	13.3		4.5		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/10/2001
1	MW-76S	136	51	41	N	7		2.1		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/7/2001
1	MW-76S	136	51	41	N	N/A		1.3		0.58	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/7/2000
1	MW-76S	136	51	41	N	5		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/7/2000
1	MW-76S	136	51	41	N	N/A		4.1		2.1		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/1/2000
1	MW-76S	136	51	41	N	N/A		7.5	J	2.5	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/2/2000
1	MW-76S	136	51	41	N	N/A		11		0.9		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/20/2000
1	MW-77M1	151	-29	-39	N	0.053		0.226	U	0.226	U	0.226	U	0.226	U	0.226	U	0.226	U	0.226	U	4/19/2012
1	MW-77M1	151	-29	-39	N	0.08		0.105	UJ	0.105	UJ	0.105	UJ	0.105	UJ	0.105	UJ	0.105	UJ	0.105	UJ	4/20/2011
1	MW-77M1	151	-29	-39	N	0.105		0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	4/8/2010
1	MW-77M1	151	-29	-39	N	1	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	4/21/2009
1	MW-77M1	151	-29	-39	N	1	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	4/25/2008
1	MW-77M1	151	-29	-39	N	1	U	0.272	U	0.272	U	0.272	U	0.272	U	0.272	UJ	0.272	U	0.272	UJ	4/23/2007
1	MW-77M1	151	-29	-39	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/20/2006
1	MW-77M1	151	-29	-39	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		6/23/2005

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-77M1	151	-29	-39	FD	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2005
1	MW-77M1	151	-29	-39	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2005
1	MW-77M1	151	-29	-39	FD	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/8/2004
1	MW-77M1	151	-29	-39	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/8/2004
1	MW-77M1	151	-29	-39	N	1	U	0.25	U	0.25	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/28/2004
1	MW-77M1	151	-29	-39	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/5/2004
1	MW-77M1	151	-29	-39	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/12/2004
1	MW-77M1	151	-29	-39	N	0.81	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/27/2003
1	MW-77M1	151	-29	-39	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/26/2003
1	MW-77M1	151	-29	-39	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/19/2002
1	MW-77M1	151	-29	-39	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/19/2002
1	MW-77M1	151	-29	-39	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/7/2002
1	MW-77M1	151	-29	-39	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/24/2002
1	MW-77M1	151	-29	-39	N	0.436	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/26/2001
1	MW-77M1	151	-29	-39	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/13/2001
1	MW-77M1	151	-29	-39	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/11/2001
1	MW-77M1	151	-29	-39	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/7/2000
1	MW-77M1	151	-29	-39	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/6/2000
1	MW-77M1	151	-29	-39	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/1/2000
1	MW-77M1	151	-29	-39	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/2/2000
1	MW-77M1	151	-29	-39	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/24/2000
1	MW-77M2	151	31	21	N	N/A		1.64		0.869		0.206	U	0.206	U	0.206	U	0.142	J	0.2	J	11/19/2012
1	MW-77M2	151	31	21	N	0.289		2.5	J	1.16	J	0.208	UJ	0.208	UJ	0.208	UJ	0.14	J	0.208	UJ	4/19/2012
1	MW-77M2	151	31	21	N	0.284		1.92		1.07		0.21	U	0.21	U	0.21	U	0.21	U	0.254		12/27/2011
1	MW-77M2	151	31	21	FD	N/A		0.672	J	0.601	J	0.105	UJ	0.105	UJ	0.105	UJ	0.067	J	0.142	J	4/20/2011
1	MW-77M2	151	31	21	N	0.321		0.653		0.654		0.105	U	0.105	U	0.105	U	0.069	J	0.128		4/20/2011
1	MW-77M2	151	31	21	FD	N/A		5.09		3.9		0.208	U	0.208	U	0.208	U	0.176	J	0.372		12/21/2010
1	MW-77M2	151	31	21	N	0.477		4.89		3.82		0.213	U	0.213	U	0.213	U	0.175	J	0.432		12/21/2010
1	MW-77M2	151	31	21	FD	N/A		29.5		12.8		0.204	U	0.204	U	0.204	U	0.261		0.588		4/8/2010
1	MW-77M2	151	31	21	N	1.27		29.8		13		0.227	UJ	0.227	UJ	0.227	UJ	0.239	J	0.58	J	4/8/2010
1	MW-77M2	151	31	21	N	1.89		30.1		5.21		0.206	U	0.206	U	0.206	U	0.198	J	0.392		11/16/2009
1	MW-77M2	151	31	21	FD	N/A		9.76		4.45		0.22	U	0.22	U	0.22	U	0.162	J	0.399		4/21/2009
1	MW-77M2	151	31	21	N	0.838	J	9.76		4.54		0.22	U	0.22	U	0.22	U	0.171	J	0.402		4/21/2009
1	MW-77M2	151	31	21	N	1.1		11.9	J	6.53	J	0.208	U	0.208	U	0.208	U	0.15	J	0.356		12/16/2008
1	MW-77M2	151	31	21	N	2.28		37.4		12.5		0.217	U	0.217	U	0.217	U	0.108	J	0.263		4/25/2008
1	MW-77M2	151	31	21	N	3.64		54.8		13.6		0.215	U	0.215	U	0.215	U	0.168	J	0.636		12/6/2007
1	MW-77M2	151	31	21	N	2.64		37.4		15.7		0.287	U	0.287	U	0.287	U	0.33		0.99		4/23/2007
1	MW-77M2	151	31	21	N	7.08		R		R		0.25	U	0.25	U	R		R		1.4		4/20/2006
1	MW-77M2	151	31	21	N	7		R		R		0.25	U	0.25	U	0.25	U	0.25	U	R		4/20/2005
1	MW-77M2	151	31	21	FD	5.1		12		1.9		0.25	U	0.25	U	0.25	U	0.25	U	0.53	J	7/28/2004
1	MW-77M2	151	31	21	N	5.1		11		1.9		0.25	U	0.25	U	0.25	U	0.25	U	0.56	J	7/28/2004
1	MW-77M2	151	31	21	N	N/A		14		1.8		0.25	U	0.25	U	0.25	U	0.25	U	0.56		4/5/2004
1	MW-77M2	151	31	21	N	5.7	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/5/2004
1	MW-77M2	151	31	21	N	5.32		12		2		0.25	U	0.25	U	0.25	U	0.25	U	0.57		2/12/2004
1	MW-77M2	151	31	21	N	9.1		14		2.3		0.25	U	0.25	U	0.25	U	0.25	U	0.69		9/27/2003
1	MW-77M2	151	31	21	N	5.4	J	10		1		0.25	U	0.25	U	0.25	U	0.25	U	0.6		3/26/2003
1	MW-77M2	151	31	21	N	7.2		8		0.54		0.25	U	0.25	U	0.25	U	0.25	U	0.48	J	11/19/2002
1	MW-77M2	151	31	21	N	7.2	J	5		0.61		0.25	U	0.25	U	0.25	U	0.25	U	0.65		8/7/2002
1	MW-77M2	151	31	21	N	8.01		5.4		1.5	J	0.25	U	0.25	U	0.25	U	0.25	U	0.89		4/24/2002
1	MW-77M2	151	31	21	N	12.3		26		3.2		0.25	U	0.25	U	0.25	U	0.25	U	1	J	12/26/2001
1	MW-77M2	151	31	21	N	13.9		29		7.1		0.25	U	0.25	U	0.25	U	0.25	U	1.6	J	8/10/2001
1	MW-77M2	151	31	21	N	16	J	39		9.3	J	0.25	U	0.25	U	0.25	U	0.25	U	1.5		5/10/2001
1	MW-77M2	151	31	21	N	N/A		93		18	J	0.25	U	0.25	U	0.25	U	0.25	U	2.2	J	12/7/2000
1	MW-77M2	151	31	21	N	28		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/6/2000
1	MW-77M2	151	31	21	N	N/A		97	J	20	J	0.25	U	0.25	U	0.25	U	0.25	U	2	J	8/1/2000

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-77M2	151	31	21	N	N/A		100	J	25	J	0.25	U	0.25	U	0.25	U	0.25	U	1.8	J	5/2/2000
1	MW-77M2	151	31	21	N	N/A		150		24		0.25	U	0.25	U	0.25	U	0.25	U	1.8	NJ	1/25/2000
1	MW-77S	151	68	58	N	0.028	J	0.227	U	0.227	U	0.227	U	0.227	U	0.227	U	0.227	U	0.227	U	4/19/2012
1	MW-77S	151	68	58	N	0.027	J	0.105	U	0.105	U	0.105	U	0.105	U	0.105	U	0.105	U	0.105	U	4/20/2011
1	MW-77S	151	68	58	N	0.0245	J	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	4/13/2010
1	MW-77S	151	68	58	N	1	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	4/21/2009
1	MW-77S	151	68	58	N	1	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	4/25/2008
1	MW-77S	151	68	58	N	1	U	0.272	U	0.272	U	0.272	U	0.272	U	0.272	U	0.272	U	0.272	U	4/23/2007
1	MW-77S	151	68	58	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/20/2006
1	MW-77S	151	68	58	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/21/2005
1	MW-77S	151	68	58	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/28/2004
1	MW-77S	151	68	58	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/5/2004
1	MW-77S	151	68	58	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/12/2004
1	MW-77S	151	68	58	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/27/2003
1	MW-77S	151	68	58	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/7/2002
1	MW-77S	151	68	58	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/29/2002
1	MW-77S	151	68	58	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/29/2002
1	MW-77S	151	68	58	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/26/2001
1	MW-77S	151	68	58	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/24/2001
1	MW-77S	151	68	58	FD	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/10/2001
1	MW-77S	151	68	58	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/10/2001
1	MW-77S	151	68	58	FD	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/7/2000
1	MW-77S	151	68	58	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/7/2000
1	MW-77S	151	68	58	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/6/2000
1	MW-77S	151	68	58	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/1/2000
1	MW-77S	151	68	58	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/2/2000
1	MW-77S	151	68	58	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/24/2000
1	MW-78M1	146	11	1	N	0.077		0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	4/23/2012
1	MW-78M1	146	11	1	N	0.06		0.105	U	0.105	U	0.105	U	0.105	U	0.105	U	0.105	U	0.105	U	4/20/2011
1	MW-78M1	146	11	1	N	0.26		0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	4/13/2010
1	MW-78M1	146	11	1	N	1	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	4/28/2009
1	MW-78M1	146	11	1	N	1	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	4/23/2008
1	MW-78M1	146	11	1	N	1	U	0.275	U	0.275	U	0.275	U	0.275	U	0.275	U	0.275	U	0.275	U	4/20/2007
1	MW-78M1	146	11	1	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/2/2007
1	MW-78M1	146	11	1	N	0.339	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2006
1	MW-78M1	146	11	1	FD	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/10/2006
1	MW-78M1	146	11	1	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/10/2006
1	MW-78M1	146	11	1	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/23/2005
1	MW-78M1	146	11	1	N	2.1		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/20/2005
1	MW-78M1	146	11	1	N	N/A		0.56		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/8/2004
1	MW-78M1	146	11	1	N	2.84		0.26		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/11/2004
1	MW-78M1	146	11	1	N	4.37		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/6/2004
1	MW-78M1	146	11	1	N	4.83		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/23/2004
1	MW-78M1	146	11	1	N	5.3		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/4/2003
1	MW-78M1	146	11	1	N	4.9	J	0.38	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/26/2003
1	MW-78M1	146	11	1	N	4.1		0.35		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/20/2002
1	MW-78M1	146	11	1	FD	3	J	0.42	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/20/2002
1	MW-78M1	146	11	1	N	4.6	J	0.4	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/20/2002
1	MW-78M1	146	11	1	N	2.07		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/25/2002
1	MW-78M1	146	11	1	N	0.396	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/27/2001
1	MW-78M1	146	11	1	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/14/2001
1	MW-78M1	146	11	1	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/10/2001
1	MW-78M1	146	11	1	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/6/2000
1	MW-78M1	146	11	1	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/2/2000
1	MW-78M1	146	11	1	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/8/2000

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-78M1	146	11	1	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/7/2000
1	MW-78M2	146	31	21	N	0.469		0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	4/23/2012
1	MW-78M2	146	31	21	N	0.6		0.104	U	0.104	U	0.104	U	0.104	U	0.104	U	0.104	U	0.104	U	4/20/2011
1	MW-78M2	146	31	21	N	0.754		0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	4/13/2010
1	MW-78M2	146	31	21	N	1	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	4/28/2009
1	MW-78M2	146	31	21	FD	0.379	J	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	4/24/2008
1	MW-78M2	146	31	21	N	0.442	J	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	4/24/2008
1	MW-78M2	146	31	21	FD	0.82	J	0.269	U	0.269	U	0.269	U	0.269	U	0.269	U	0.269	U	0.269	U	4/20/2007
1	MW-78M2	146	31	21	N	0.866	J	0.278	U	0.278	U	0.278	U	0.278	U	0.278	U	0.278	U	0.278	U	4/20/2007
1	MW-78M2	146	31	21	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/2/2007
1	MW-78M2	146	31	21	N	1.05		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2006
1	MW-78M2	146	31	21	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/8/2006
1	MW-78M2	146	31	21	FD	N/A		0.9		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/23/2005
1	MW-78M2	146	31	21	N	N/A		0.98		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/23/2005
1	MW-78M2	146	31	21	N	3.5		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/20/2005
1	MW-78M2	146	31	21	N	N/A		0.59		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/8/2004
1	MW-78M2	146	31	21	N	6.48		1		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/12/2004
1	MW-78M2	146	31	21	N	8.2		1	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/6/2004
1	MW-78M2	146	31	21	FD	8.18	J	1	J	0.25	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/24/2004
1	MW-78M2	146	31	21	N	8.34		0.94	J	0.25	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/24/2004
1	MW-78M2	146	31	21	N	11		0.45		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/4/2003
1	MW-78M2	146	31	21	N	4.7	J	0.96		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/27/2003
1	MW-78M2	146	31	21	N	8.7		0.87		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/20/2002
1	MW-78M2	146	31	21	N	6.3	J	0.65	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/20/2002
1	MW-78M2	146	31	21	N	4.75		0.38		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/25/2002
1	MW-78M2	146	31	21	N	4.43		0.8		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/28/2001
1	MW-78M2	146	31	21	N	11.4		0.48		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/15/2001
1	MW-78M2	146	31	21	N	9	J	0.25		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/10/2001
1	MW-78M2	146	31	21	N	19		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/6/2000
1	MW-78M2	146	31	21	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/3/2000
1	MW-78M2	146	31	21	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/9/2000
1	MW-78M2	146	31	21	FD	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/7/2000
1	MW-78M2	146	31	21	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/7/2000
1	MW-78M3	146	61	51	N	1	U	0.278	U	0.278	U	0.278	U	0.278	U	0.278	U	0.278	U	0.278	U	4/20/2007
1	MW-78M3	146	61	51	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2006
1	MW-78M3	146	61	51	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2006
1	MW-78M3	146	61	51	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/20/2005
1	MW-78M3	146	61	51	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/20/2005
1	MW-78M3	146	61	51	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/12/2004
1	MW-78M3	146	61	51	N	0.35U		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/6/2004
1	MW-78M3	146	61	51	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/23/2004
1	MW-78M3	146	61	51	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/4/2003
1	MW-78M3	146	61	51	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/26/2003
1	MW-78M3	146	61	51	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/20/2002
1	MW-78M3	146	61	51	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/20/2002
1	MW-78M3	146	61	51	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/25/2002
1	MW-78M3	146	61	51	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/28/2001
1	MW-78M3	146	61	51	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/15/2001
1	MW-78M3	146	61	51	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/11/2001
1	MW-78M3	146	61	51	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/6/2000
1	MW-78M3	146	61	51	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/2/2000
1	MW-78M3	146	61	51	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/9/2000
1	MW-78M3	146	61	51	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/7/2000
1	MW-79M1	159	3	-7	N	1	U	0.291	U	0.291	U	0.291	U	0.291	U	0.291	UJ	0.291	U	0.291	U	4/27/2007
1	MW-79M1	159	3	-7	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/12/2006

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
1	MW-79M1	159	3	-7	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/30/2005
1	MW-79M1	159	3	-7	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/29/2004
1	MW-79M1	159	3	-7	N	1	U	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	5/15/2003
1	MW-79M1	159	3	-7	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/25/2002
1	MW-79M1	159	3	-7	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/16/2001
1	MW-79M1	159	3	-7	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/7/2000
1	MW-79M1	159	3	-7	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/1/2000
1	MW-79M1	159	3	-7	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/10/2000
1	MW-79M1	159	3	-7	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/25/2000
1	MW-79M2	159	43	33	N	1	U	0.281	U	0.281	U	0.281	U	0.281	U	0.281	UJ	0.281	U	0.281	U	4/27/2007
1	MW-79M2	159	43	33	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/12/2006
1	MW-79M2	159	43	33	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/30/2005
1	MW-79M2	159	43	33	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/30/2005
1	MW-79M2	159	43	33	FD	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/29/2004
1	MW-79M2	159	43	33	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/29/2004
1	MW-79M2	159	43	33	FD	1	U	0.25	U	0.25	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/15/2003
1	MW-79M2	159	43	33	N	1	U	0.25	U	0.25	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/15/2003
1	MW-79M2	159	43	33	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/25/2002
1	MW-79M2	159	43	33	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/16/2001
1	MW-79M2	159	43	33	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/7/2000
1	MW-79M2	159	43	33	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/1/2000
1	MW-79M2	159	43	33	FD	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/9/2000
1	MW-79M2	159	43	33	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/9/2000
1	MW-79M2	159	43	33	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/25/2000
1	MW-79S	159	70	60	N	1	U	0.275	U	0.275	U	0.275	U	0.275	U	0.275	UJ	0.275	U	0.275	U	4/27/2007
1	MW-79S	159	70	60	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/12/2006
1	MW-79S	159	70	60	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/30/2005
1	MW-79S	159	70	60	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/29/2004
1	MW-79S	159	70	60	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/30/2005
1	MW-79S	159	70	60	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/29/2004
1	MW-79S	159	70	60	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/16/2001
1	MW-79S	159	70	60	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/7/2000
1	MW-79S	159	70	60	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/1/2000
1	MW-79S	159	70	60	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/8/2000
1	MW-79S	159	70	60	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/25/2000
1	PHOP01	66	22	20	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/10/2003
1	PHOP01	66	22	20	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/10/2003
1	PHOP01	66	22	20	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/17/2003
1	PHOP02	65	-3	-5	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/10/2003
1	PHOP02	65	-3	-5	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/10/2003
1	PHOP02	65	-3	-5	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/17/2003
1	PW-304	155	30	15	N	1	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	5/7/2009
1	PW-304	155	30	15	N	1	U	0.232	U	0.232	U	0.232	U	0.232	U	0.232	U	0.232	U	0.232	U	1/16/2008
1	PW-304	155	30	15	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/21/2005
1	PW-304	155	30	15	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/7/2004
2	D1-EW-503	178	30	-50	N	0.236		0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	11/20/2012
2	D1-EW-503	178	30	-50	N	0.257		0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	8/21/2012
2	D1-EW-503	178	30	-50	N	0.281		0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	4/19/2012
2	D1-EW-503	178	30	-50	N	0.332		0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	12/14/2011
2	D1-EW-503	178	30	-50	N	0.4		0.206	UJ	0.206	UJ	0.206	UJ	0.206	UJ	0.206	UJ	0.206	UJ	0.206	UJ	8/23/2011
2	D1-EW-503	178	30	-50	N	0.423		0.225	U	0.225	U	0.225	U	0.225	U	0.225	U	0.225	U	0.225	U	4/19/2011
2	D1-EW-503	178	30	-50	N	0.404		0.241	U	0.241	U	0.241	U	0.241	U	0.241	U	0.241	U	0.241	U	12/21/2010
2	D1-EW-503	178	30	-50	N	0.389		0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	8/18/2010
2	D1-EW-503	178	30	-50	N	0.435		0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	4/19/2010
2	D1-EW-503	178	30	-50	N	0.479		0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	12/2/2009
2	D1-EW-503	178	30	-50	N	0.368	J	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	6/9/2009
2	D1-EW-503	178	30	-50	N	1.5		0.35		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/16/2008

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
2	D1-EW-503	178	30	-50	N	3.98		1.45		0.22	U	0.22	U	0.22	U	0.22	UJ	0.22	U	0.22	U	4/23/2008
2	D1-EW-503	178	-117	-127	N	N/A		3.2		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/5/2007
2	MW-173M1	193	-50	-60	N	1	U	0.266	U	0.266	U	0.266	U	0.266	U	0.266	U	0.266	U	0.266	U	4/10/2007
2	MW-173M1	193	-50	-60	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/10/2006
2	MW-173M1	193	-50	-60	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/18/2005
2	MW-173M1	193	-50	-60	N	0.35U		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2004
2	MW-173M1	193	-50	-60	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/28/2003
2	MW-173M1	193	-50	-60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/14/2002
2	MW-173M1	193	-50	-60	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/14/2002
2	MW-173M1	193	-50	-60	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/3/2002
2	MW-173M1	193	-50	-60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		9/3/2002
2	MW-173M1	193	-50	-60	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/23/2002
2	MW-173M1	193	-50	-60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/15/2002
2	MW-173M1	193	-50	-60	N	2	U	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	1/25/2002
2	MW-173M1	193	-50	-60	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/8/2001
2	MW-173M1	193	-50	-60	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/18/2001
2	MW-173M2	193	-15	-25	FD	1	U	0.272	U	0.272	U	0.272	U	0.272	U	0.272	U	0.272	U	0.272	U	4/10/2007
2	MW-173M2	193	-15	-25	N	1	U	0.269	U	0.269	U	0.269	U	0.269	U	0.269	UJ	0.269	U	0.269	U	4/10/2007
2	MW-173M2	193	-15	-25	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/10/2006
2	MW-173M2	193	-15	-25	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/18/2005
2	MW-173M2	193	-15	-25	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/29/2004
2	MW-173M2	193	-15	-25	N	0.35U		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2004
2	MW-173M2	193	-15	-25	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		2/10/2004
2	MW-173M2	193	-15	-25	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/14/2003
2	MW-173M2	193	-15	-25	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/28/2003
2	MW-173M2	193	-15	-25	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/28/2003
2	MW-173M2	193	-15	-25	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/14/2002
2	MW-173M2	193	-15	-25	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/14/2002
2	MW-173M2	193	-15	-25	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/14/2002
2	MW-173M2	193	-15	-25	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/9/2002
2	MW-173M2	193	-15	-25	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2002
2	MW-173M2	193	-15	-25	N	2	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/13/2002
2	MW-173M2	193	-15	-25	N	2	U	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	1/25/2002
2	MW-173M2	193	-15	-25	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/8/2001
2	MW-173M2	193	-15	-25	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/19/2001
2	MW-173M3	193	5	-5	N	1	U	0.278	U	0.278	U	0.278	U	0.278	U	0.278	U	0.278	U	0.278	U	4/10/2007
2	MW-173M3	193	5	-5	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/27/2006
2	MW-173M3	193	5	-5	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/11/2006
2	MW-173M3	193	5	-5	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/4/2005
2	MW-173M3	193	5	-5	N	0.45	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/18/2005
2	MW-173M3	193	5	-5	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/8/2004
2	MW-173M3	193	5	-5	N	0.621	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/29/2004
2	MW-173M3	193	5	-5	FD	0.532	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2004
2	MW-173M3	193	5	-5	N	0.75	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2004
2	MW-173M3	193	5	-5	N	0.842	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		2/11/2004
2	MW-173M3	193	5	-5	FD	0.602	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/14/2003
2	MW-173M3	193	5	-5	N	0.653	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/14/2003
2	MW-173M3	193	5	-5	N	1.1		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/27/2003
2	MW-173M3	193	5	-5	N	0.48	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/15/2002
2	MW-173M3	193	5	-5	N	0.7	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/9/2002
2	MW-173M3	193	5	-5	N	0.88	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/19/2002
2	MW-173M3	193	5	-5	N	0.67	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/12/2002
2	MW-173M3	193	5	-5	N	0.63	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/25/2002
2	MW-173M3	193	5	-5	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/8/2001
2	MW-173M3	193	5	-5	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/19/2001
2	MW-175M1	184	-80	-90	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/10/2007

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
2	MW-175M1	184	-80	-90	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/11/2006
2	MW-175M1	184	-80	-90	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/8/2005
2	MW-175M1	184	-80	-90	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/28/2004
2	MW-175M1	184	-80	-90	N	0.35U		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/16/2004
2	MW-175M1	184	-80	-90	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/31/2003
2	MW-175M1	184	-80	-90	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		9/30/2003
2	MW-175M1	184	-80	-90	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/22/2003
2	MW-175M1	184	-80	-90	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/15/2002
2	MW-175M1	184	-80	-90	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/15/2002
2	MW-175M1	184	-80	-90	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/12/2002
2	MW-175M1	184	-80	-90	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/18/2002
2	MW-175M1	184	-80	-90	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/28/2002
2	MW-175M1	184	-80	-90	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/7/2001
2	MW-175M1	184	-80	-90	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/22/2001
2	MW-175M1	184	-80	-90	N	5	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/13/2001
2	MW-175M2	184	-15	-25	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/10/2007
2	MW-175M2	184	-15	-25	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/11/2006
2	MW-175M2	184	-15	-25	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/4/2005
2	MW-175M2	184	-15	-25	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/8/2005
2	MW-175M2	184	-15	-25	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/7/2004
2	MW-175M2	184	-15	-25	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/28/2004
2	MW-175M2	184	-15	-25	N	0.35U		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/16/2004
2	MW-175M2	184	-15	-25	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/31/2003
2	MW-175M2	184	-15	-25	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		9/30/2003
2	MW-175M2	184	-15	-25	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/22/2003
2	MW-175M2	184	-15	-25	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/15/2002
2	MW-175M2	184	-15	-25	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/13/2002
2	MW-175M2	184	-15	-25	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/13/2002
2	MW-175M2	184	-15	-25	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/18/2002
2	MW-175M2	184	-15	-25	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/28/2002
2	MW-175M2	184	-15	-25	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/8/2001
2	MW-175M2	184	-15	-25	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/14/2001
2	MW-175M3	184	22	17	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/11/2007
2	MW-175M3	184	22	17	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/11/2006
2	MW-175M3	184	22	17	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/4/2005
2	MW-175M3	184	22	17	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/4/2005
2	MW-175M3	184	22	17	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/8/2005
2	MW-175M3	184	22	17	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/7/2004
2	MW-175M3	184	22	17	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/28/2004
2	MW-175M3	184	22	17	N	0.35U		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/16/2004
2	MW-175M3	184	22	17	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/31/2003
2	MW-175M3	184	22	17	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		9/30/2003
2	MW-175M3	184	22	17	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/22/2003
2	MW-175M3	184	22	17	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/15/2002
2	MW-175M3	184	22	17	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/13/2002
2	MW-175M3	184	22	17	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/18/2002
2	MW-175M3	184	22	17	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/18/2002
2	MW-175M3	184	22	17	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/28/2002
2	MW-175M3	184	22	17	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/8/2001
2	MW-175M3	184	22	17	N	5	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/15/2001
2	MW-186M1	181	-21	-31	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/30/2002
2	MW-186M1	181	-21	-31	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/8/2002
2	MW-186M1	181	-21	-31	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/24/2002
2	MW-186M2	181	-1	-11	N	1	U	0.25	U	0.25	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/29/2002
2	MW-186M2	181	-1	-11	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/8/2002

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
2	MW-186M2	181	-1	-11	N	2	U	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	1/23/2002
2	MW-210M1	162	-39	-49	N	0.119		0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	5/2/2012
2	MW-210M1	162	-39	-49	N	0.288		0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	4/19/2011
2	MW-210M1	162	-39	-49	N	0.193		0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	4/20/2010
2	MW-210M1	162	-39	-49	N	1.18		0.182	J	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	5/7/2009
2	MW-210M1	162	-39	-49	N	8.26		0.279		0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	4/17/2008
2	MW-210M1	162	-39	-49	N	7.74		0.272	U	0.272	U	0.272	U	0.272	U	0.272	U	0.272	U	0.272	U	4/17/2007
2	MW-210M1	162	-39	-49	FD	4.77		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/28/2006
2	MW-210M1	162	-39	-49	N	4.67		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/28/2006
2	MW-210M1	162	-39	-49	N	4.07		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/17/2006
2	MW-210M1	162	-39	-49	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/10/2006
2	MW-210M1	162	-39	-49	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/21/2005
2	MW-210M1	162	-39	-49	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/6/2004
2	MW-210M1	162	-39	-49	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/5/2004
2	MW-210M1	162	-39	-49	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/20/2004
2	MW-210M1	162	-39	-49	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/10/2004
2	MW-210M1	162	-39	-49	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/5/2004
2	MW-210M1	162	-39	-49	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/21/2003
2	MW-210M1	162	-39	-49	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/21/2003
2	MW-210M1	162	-39	-49	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/28/2002
2	MW-210M1	162	-39	-49	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/6/2002
2	MW-210M2	162	6	-4	N	0.982		0.202	UJ	0.202	UJ	0.202	UJ	0.202	UJ	0.202	UJ	0.202	UJ	0.202	UJ	5/2/2012
2	MW-210M2	162	6	-4	FD	2.78		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/19/2011
2	MW-210M2	162	6	-4	N	2.81		0.208	UJ	0.208	UJ	0.208	UJ	0.208	UJ	0.208	UJ	0.208	UJ	0.208	UJ	4/19/2011
2	MW-210M2	162	6	-4	FD	3.54		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/23/2010
2	MW-210M2	162	6	-4	N	3.48		0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	12/23/2010
2	MW-210M2	162	6	-4	FD	3.96		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/20/2010
2	MW-210M2	162	6	-4	N	3.9		0.622		0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	4/20/2010
2	MW-210M2	162	6	-4	N	3.22		0.414		0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	11/16/2009
2	MW-210M2	162	6	-4	N	1.94		0.408		0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	5/7/2009
2	MW-210M2	162	6	-4	N	2.12		0.616	J	0.299	J	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	12/30/2008
2	MW-210M2	162	6	-4	N	3.98		2.23		0.587		0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	4/21/2008
2	MW-210M2	162	6	-4	N	3.31		1.12		0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	1/31/2008
2	MW-210M2	162	6	-4	N	1.39		0.643		0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	12/6/2007
2	MW-210M2	162	6	-4	N	243		53.4		3.96		0.272	U	0.272	U	0.272	U	0.272	U	0.272	U	4/17/2007
2	MW-210M2	162	6	-4	N	226		60		3.7		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/28/2006
2	MW-210M2	162	6	-4	N	95.1		21	J	0.95		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/17/2006
2	MW-210M2	162	6	-4	N	N/A		R		R		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/7/2006
2	MW-210M2	162	6	-4	FD	99		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/15/2005
2	MW-210M2	162	6	-4	N	102		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/15/2005
2	MW-210M2	162	6	-4	N	15		1		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/21/2005
2	MW-210M2	162	6	-4	N	56	J	5.7		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/6/2004
2	MW-210M2	162	6	-4	N	59	J	7.9		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/5/2004
2	MW-210M2	162	6	-4	FD	43		4.1		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/20/2004
2	MW-210M2	162	6	-4	N	44		3.9		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/20/2004
2	MW-210M2	162	6	-4	N	23		1.4		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/11/2004
2	MW-210M2	162	6	-4	N	N/A		0.88		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/5/2004
2	MW-210M2	162	6	-4	N	N/A		0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	2/28/2003
2	MW-210M2	162	6	-4	N	9.93		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/28/2002
2	MW-210M2	162	6	-4	FD	11		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/6/2002
2	MW-210M2	162	6	-4	N	12		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/6/2002
2	MW-210M3	162	41	31	N	0.038	J	0.202	UJ	0.202	UJ	0.202	UJ	0.202	UJ	0.202	UJ	0.202	UJ	0.202	UJ	5/2/2012
2	MW-210M3	162	41	31	N	0.031	J	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	4/19/2011
2	MW-210M3	162	41	31	N	0.0422	J	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	4/20/2010
2	MW-210M3	162	41	31	N	1	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	5/7/2009

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
2	MW-210M3	162	41	31	N	1	U	0.225	U	0.225	U	0.225	U	0.225	U	0.225	U	0.225	U	0.225	U	4/21/2008
2	MW-210M3	162	41	31	FD	1	UJ	0.275	U	0.275	U	0.275	U	0.275	U	0.275	U	0.275	U	0.275	U	4/18/2007
2	MW-210M3	162	41	31	N	1	UJ	0.287	U	0.287	U	0.287	U	0.287	U	0.287	U	0.287	U	0.287	U	4/18/2007
2	MW-210M3	162	41	31	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/17/2006
2	MW-210M3	162	41	31	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/20/2005
2	MW-210M3	162	41	31	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/5/2004
2	MW-210M3	162	41	31	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/20/2004
2	MW-210M3	162	41	31	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/11/2004
2	MW-210M3	162	41	31	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/5/2004
2	MW-210M3	162	41	31	N	N/A		0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	2/28/2003
2	MW-210M3	162	41	31	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/25/2002
2	MW-210M3	162	41	31	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/6/2002
2	MW-211M1	200	0	-10	FD	28.1	J	15		1.62		0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	11/27/2012
2	MW-211M1	200	0	-10	N	27.7	J	15.1		1.67		0.205	U	0.205	U	0.205	U	0.205	U	0.205	U	11/27/2012
2	MW-211M1	200	0	-10	FD	51		21.8		1.12	J	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	5/2/2012
2	MW-211M1	200	0	-10	N	51.2		17.4	J	0.756	J	0.202	UJ	0.202	UJ	0.202	UJ	0.202	UJ	0.202	UJ	5/2/2012
2	MW-211M1	200	0	-10	FD	56.2		23.4		1.13		0.225	U	0.225	U	0.225	U	0.225	U	0.225	U	12/28/2011
2	MW-211M1	200	0	-10	N	55.9		23		0.984		0.227	U	0.227	U	0.227	U	0.227	U	0.227	U	12/28/2011
2	MW-211M1	200	0	-10	FD	59.8		14.3		0.791		0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	4/26/2011
2	MW-211M1	200	0	-10	N	60.2		14.9		0.908		0.216	U	0.216	U	0.216	U	0.216	U	0.216	U	4/26/2011
2	MW-211M1	200	0	-10	FD	62.8		20.4		0.862		0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	12/21/2010
2	MW-211M1	200	0	-10	N	64.8		21.8		0.91		0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	12/21/2010
2	MW-211M1	200	0	-10	FD	92.9		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/27/2010
2	MW-211M1	200	0	-10	N	93.7		15		0.474	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/27/2010
2	MW-211M1	200	0	-10	FD	98.7		11.4		0.181	J	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	11/18/2009
2	MW-211M1	200	0	-10	N	98.4		11.4		0.196	J	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	11/18/2009
2	MW-211M1	200	0	-10	FD	99.2		N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/8/2009
2	MW-211M1	200	0	-10	N	97.1		8.48		0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	5/8/2009
2	MW-211M1	200	0	-10	FD	112		8.22		0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	12/23/2008
2	MW-211M1	200	0	-10	N	116		8.22	J	0.21	UJ	0.21	UJ	0.21	UJ	0.21	UJ	0.21	UJ	0.21	UJ	12/23/2008
2	MW-211M1	200	0	-10	N	149		8.34		0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	4/17/2008
2	MW-211M1	200	0	-10	N	135		9.51		0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	12/5/2007
2	MW-211M1	200	0	-10	N	181		6.45		0.275	U	0.275	U	0.275	U	0.275	UJ	0.275	U	0.275	U	4/9/2007
2	MW-211M1	200	0	-10	N	133		5.6		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/27/2006
2	MW-211M1	200	0	-10	N	89.7		4.6		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/10/2006
2	MW-211M1	200	0	-10	N	N/A		5		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/7/2006
2	MW-211M1	200	0	-10	N	64.5		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/8/2005
2	MW-211M1	200	0	-10	FD	50.8		5.8		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/8/2005
2	MW-211M1	200	0	-10	N	50.6		5.7		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/8/2005
2	MW-211M1	200	0	-10	N	25	J	4		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/5/2005
2	MW-211M1	200	0	-10	N	33	J	7.7		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/6/2004
2	MW-211M1	200	0	-10	N	13		1.2		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/30/2004
2	MW-211M1	200	0	-10	N	11		1.1		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/21/2004
2	MW-211M1	200	0	-10	N	9.8		N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/10/2004
2	MW-211M1	200	0	-10	N	5.6		0.56		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/4/2004
2	MW-211M1	200	0	-10	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/28/2003
2	MW-211M1	200	0	-10	FD	0.51	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/28/2002
2	MW-211M1	200	0	-10	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/28/2002
2	MW-211M1	200	0	-10	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/6/2002
2	MW-211M2	200	25	15	N	0.019	J	0.202	UJ	0.202	UJ	0.202	UJ	0.202	UJ	0.202	UJ	0.202	UJ	0.202	UJ	5/2/2012
2	MW-211M2	200	25	15	N	0.014	J	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	12/28/2011
2	MW-211M2	200	25	15	N	0.031	J	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	4/26/2011
2	MW-211M2	200	25	15	N	0.0222	J	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	12/21/2010
2	MW-211M2	200	25	15	N	0.0278	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/27/2010
2	MW-211M2	200	25	15	N	0.0398	J	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	11/18/2009

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
2	MW-211M2	200	25	15	N	1	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	5/8/2009
2	MW-211M2	200	25	15	N	1	U	0.21	UJ	0.21	UJ	0.21	UJ	0.21	UJ	0.21	UJ	0.21	UJ	0.21	UJ	12/29/2008
2	MW-211M2	200	25	15	N	1	U	0.232	U	0.232	U	0.232	U	0.232	U	0.232	U	0.232	U	0.232	U	4/17/2008
2	MW-211M2	200	25	15	N	1	U	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	12/5/2007
2	MW-211M2	200	25	15	N	0.231	J	0.281	U	0.281	U	0.281	U	0.281	U	0.281	UJ	0.281	U	0.281	U	4/9/2007
2	MW-211M2	200	25	15	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/27/2006
2	MW-211M2	200	25	15	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/10/2006
2	MW-211M2	200	25	15	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/9/2006
2	MW-211M2	200	25	15	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/8/2005
2	MW-211M2	200	25	15	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/8/2005
2	MW-211M2	200	25	15	N	3	J	0.38		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/5/2005
2	MW-211M2	200	25	15	FD	0.66	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/6/2004
2	MW-211M2	200	25	15	N	0.72	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/6/2004
2	MW-211M2	200	25	15	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/30/2004
2	MW-211M2	200	25	15	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/21/2004
2	MW-211M2	200	25	15	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/11/2004
2	MW-211M2	200	25	15	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/11/2004
2	MW-211M2	200	25	15	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/4/2004
2	MW-211M2	200	25	15	N	3.5		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/28/2003
2	MW-211M2	200	25	15	N	3.02		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/29/2002
2	MW-211M2	200	25	15	N	3		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/6/2002
2	MW-211M3	200	50	40	N	0.042	J	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	4/26/2011
2	MW-211M3	200	50	40	N	0.0287	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/27/2010
2	MW-211M3	200	50	40	N	1	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	5/8/2009
2	MW-211M3	200	50	40	N	1	U	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	4/17/2008
2	MW-211M3	200	50	40	N	1	U	0.278	U	0.278	U	0.278	U	0.278	U	0.278	UJ	0.278	U	0.278	U	4/9/2007
2	MW-211M3	200	50	40	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/10/2006
2	MW-211M3	200	50	40	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/10/2006
2	MW-211M3	200	50	40	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/10/2006
2	MW-211M3	200	50	40	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/5/2005
2	MW-211M3	200	50	40	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/5/2005
2	MW-211M3	200	50	40	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/30/2004
2	MW-211M3	200	50	40	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/21/2004
2	MW-211M3	200	50	40	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/11/2004
2	MW-211M3	200	50	40	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		2/4/2004
2	MW-211M3	200	50	40	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		2/4/2004
2	MW-211M3	200	50	40	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/28/2003
2	MW-211M3	200	50	40	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/28/2002
2	MW-211M3	200	50	40	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/6/2002
2	MW-221M1	202	-14	-24	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/5/2007
2	MW-221M1	202	-14	-24	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/7/2006
2	MW-221M1	202	-14	-24	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/4/2005
2	MW-221M1	202	-14	-24	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/19/2005
2	MW-221M1	202	-14	-24	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/7/2004
2	MW-221M1	202	-14	-24	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/30/2004
2	MW-221M1	202	-14	-24	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		2/4/2004
2	MW-221M1	202	-14	-24	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/10/2003
2	MW-221M1	202	-14	-24	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/1/2002
2	MW-221M1	202	-14	-24	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/1/2002
2	MW-221M1	202	-14	-24	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/30/2002
2	MW-221M2	202	24	14	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/6/2007
2	MW-221M2	202	24	14	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/7/2006
2	MW-221M2	202	24	14	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/4/2005
2	MW-221M2	202	24	14	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/19/2005
2	MW-221M2	202	24	14	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/7/2004
2	MW-221M2	202	24	14	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/30/2004

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
2	MW-221M2	202	24	14	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/20/2004
2	MW-221M2	202	24	14	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/15/2004
2	MW-221M2	202	24	14	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/15/2004
2	MW-221M2	202	24	14	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		2/4/2004
2	MW-221M2	202	24	14	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/10/2003
2	MW-221M2	202	24	14	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/1/2002
2	MW-221M2	202	24	14	FD	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/30/2002
2	MW-221M2	202	24	14	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/30/2002
2	MW-221M3	202	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/6/2007
2	MW-221M3	202	46	36	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/7/2006
2	MW-221M3	202	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/7/2006
2	MW-221M3	202	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/4/2005
2	MW-221M3	202	46	36	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/19/2005
2	MW-221M3	202	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/19/2005
2	MW-221M3	202	46	36	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/7/2004
2	MW-221M3	202	46	36	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/30/2004
2	MW-221M3	202	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/30/2004
2	MW-221M3	202	46	36	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		2/4/2004
2	MW-221M3	202	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		2/4/2004
2	MW-221M3	202	46	36	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/10/2003
2	MW-221M3	202	46	36	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/1/2002
2	MW-221M3	202	46	36	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/30/2002
2	MW-221M3	202	46	36	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/30/2002
2	MW-341M1	218	-71	-81	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/13/2011
2	MW-341M1	218	-72	-82	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/16/2010
2	MW-341M1	218	-72	-82	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/8/2009
2	MW-341M1	218	-72	-82	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/16/2008
2	MW-341M1	218	-72	-82	FD	1	U	0.278	U	0.278	U	0.278	U	0.278	U	0.278	UJ	0.278	U	0.278	U	4/6/2007
2	MW-341M1	218	-72	-82	N	1	U	0.272	U	0.272	U	0.272	U	0.272	U	0.272	UJ	0.272	U	0.272	U	4/6/2007
2	MW-341M1	218	-72	-82	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/7/2006
2	MW-341M1	218	-72	-82	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/18/2005
2	MW-341M1	218	-72	-82	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/10/2004
2	MW-341M1	218	-72	-82	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/30/2004
2	MW-341M2	218	-46	-51	N	0.715		N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/1/2012
2	MW-341M2	218	-46	-51	N	0.637		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/14/2011
2	MW-341M2	218	-47	-52	N	0.743		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/16/2010
2	MW-341M2	218	-47	-52	N	0.501	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/8/2009
2	MW-341M2	218	-47	-52	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/16/2008
2	MW-341M2	218	-47	-52	N	1	U	0.278	UJ	0.278	UJ	0.278	UJ	0.278	UJ	0.278	UJ	0.278	UJ	0.278	UJ	4/6/2007
2	MW-341M2	218	-47	-52	N	0.228	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/7/2006
2	MW-341M2	218	-47	-52	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/8/2005
2	MW-341M2	218	-47	-52	N	0.56	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/18/2005
2	MW-341M2	218	-47	-52	N	0.428	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/10/2004
2	MW-341M2	218	-47	-52	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/30/2004
2	MW-341M3	218	9	-1	N	0.303		N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/26/2012
2	MW-341M3	218	9	-1	N	0.699		0.236		0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	5/1/2012
2	MW-341M3	218	9	-1	N	0.706		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/13/2011
2	MW-341M3	218	9	-1	N	0.984		0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	4/14/2011
2	MW-341M3	218	8	-2	N	1.58		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/28/2010
2	MW-341M3	218	8	-2	FD	2.36		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/16/2010
2	MW-341M3	218	8	-2	N	2.46		0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	4/16/2010
2	MW-341M3	218	8	-2	N	2.31		N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/16/2009
2	MW-341M3	218	8	-2	N	1.29		0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	5/8/2009
2	MW-341M3	218	9	-1	N	1.11		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/29/2008
2	MW-341M3	218	8	-2	N	0.63	J	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	4/16/2008

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
2	MW-341M3	218	8	-2	N	1.03		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/6/2007
2	MW-341M3	218	8	-2	N	0.953	J	0.275	U	0.275	U	0.275	U	0.275	U	0.275	UJ	0.275	U	0.275	U	4/9/2007
2	MW-341M3	218	8	-2	N	2.64		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/27/2006
2	MW-341M3	218	8	-2	N	1.87		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/2/2006
2	MW-341M3	218	8	-2	N	4.66		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/7/2006
2	MW-341M3	218	8	-2	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/9/2006
2	MW-341M3	218	8	-2	N	7.52		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/8/2005
2	MW-341M3	218	8	-2	N	20		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/8/2005
2	MW-341M3	218	8	-2	N	40	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/18/2005
2	MW-341M3	218	8	-2	N	15.5		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/10/2004
2	MW-341M3	218	8	-2	N	2.95		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/18/2004
2	MW-341M4	218	37	32	N	0.05	U	0.203	UJ	0.203	UJ	0.203	UJ	0.203	UJ	0.203	UJ	0.203	UJ	0.203	UJ	5/1/2012
2	MW-341M4	218	37	32	N	0.169		0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	4/14/2011
2	MW-341M4	218	36	31	N	0.089		0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	4/16/2010
2	MW-341M4	218	36	31	N	1	U	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	5/8/2009
2	MW-341M4	218	36	31	N	1	U	0.235	UJ	0.235	UJ	0.235	UJ	0.235	UJ	0.235	UJ	0.235	UJ	0.235	UJ	4/16/2008
2	MW-341M4	218	36	31	N	1	U	0.266	U	0.266	U	0.266	U	0.266	U	0.266	UJ	0.266	U	0.266	U	4/9/2007
2	MW-341M4	218	36	31	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/27/2006
2	MW-341M4	218	36	31	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/2/2006
2	MW-341M4	218	36	31	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/7/2006
2	MW-341M4	218	36	31	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/9/2006
2	MW-341M4	218	36	31	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/8/2005
2	MW-341M4	218	36	31	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/8/2005
2	MW-341M4	218	36	31	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/18/2005
2	MW-341M4	218	36	31	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/18/2005
2	MW-341M4	218	36	31	N	0.442	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/10/2004
2	MW-341M4	218	36	31	N	14.7		0.7		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/31/2004
3	MW-225M1	152	-23	-33	N	1	U	0.272	U	0.272	U	0.272	U	0.272	U	0.272	U	0.272	U	0.272	U	4/11/2007
3	MW-225M1	152	-23	-33	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/21/2006
3	MW-225M1	152	-23	-33	FD	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/8/2006
3	MW-225M1	152	-23	-33	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/8/2006
3	MW-225M1	152	-23	-33	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/3/2006
3	MW-225M1	152	-23	-33	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/3/2006
3	MW-225M1	152	-23	-33	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/6/2006
3	MW-225M1	152	-23	-33	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/6/2006
3	MW-225M1	152	-23	-33	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/9/2006
3	MW-225M1	152	-23	-33	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/9/2005
3	MW-225M1	152	-23	-33	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/4/2005
3	MW-225M1	152	-23	-33	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/6/2005
3	MW-225M1	152	-23	-33	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/7/2004
3	MW-225M1	152	-23	-33	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/6/2004
3	MW-225M1	152	-23	-33	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		2/4/2004
3	MW-225M1	152	-23	-33	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		2/4/2004
3	MW-225M1	152	-23	-33	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/27/2003
3	MW-225M1	152	-23	-33	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/12/2002
3	MW-225M1	152	-23	-33	N	1	U	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	11/12/2002
3	MW-225M1	152	-23	-33	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/5/2002
3	MW-225M2	152	7	-3	N	0.05	U	0.214	U	0.214	U	0.214	U	0.214	U	0.214	U	0.214	U	0.214	U	4/18/2012
3	MW-225M2	152	7	-3	N	0.05	U	0.21	UJ	0.21	UJ	0.21	UJ	0.21	UJ	0.21	UJ	0.21	UJ	0.21	UJ	12/28/2011
3	MW-225M2	152	7	-3	N	0.05	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	8/24/2011
3	MW-225M2	152	7	-3	N	0.05	U	0.106	U	0.106	U	0.106	U	0.106	U	0.106	U	0.106	U	0.106	U	4/21/2011
3	MW-225M2	152	7	-3	N	0.05	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	12/21/2010
3	MW-225M2	152	7	-3	N	0.05	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	8/18/2010
3	MW-225M2	152	7	-3	N	0.0096	J	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	4/16/2010
3	MW-225M2	152	7	-3	N	0.05	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	11/18/2009

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
3	MW-225M2	152	7	-3	N	1	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	7/29/2009
3	MW-225M2	152	7	-3	N	1	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	4/15/2009
3	MW-225M2	152	7	-3	N	1	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	12/23/2008
3	MW-225M2	152	7	-3	N	1	U	0.217	UJ	0.217	UJ	0.217	UJ	0.217	UJ	0.217	UJ	0.217	UJ	0.217	UJ	9/2/2008
3	MW-225M2	152	7	-3	N	1	UJ	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	4/14/2008
3	MW-225M2	152	7	-3	N	1	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	12/5/2007
3	MW-225M2	152	7	-3	N	1	U	0.272	U	0.272	U	0.272	U	0.272	U	0.272	U	0.272	U	0.272	U	4/11/2007
3	MW-225M2	152	7	-3	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/21/2006
3	MW-225M2	152	7	-3	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/8/2006
3	MW-225M2	152	7	-3	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/3/2006
3	MW-225M2	152	7	-3	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/6/2006
3	MW-225M2	152	7	-3	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/9/2006
3	MW-225M2	152	7	-3	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/9/2005
3	MW-225M2	152	7	-3	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/4/2005
3	MW-225M2	152	7	-3	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/6/2005
3	MW-225M2	152	7	-3	FD	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/7/2004
3	MW-225M2	152	7	-3	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/7/2004
3	MW-225M2	152	7	-3	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/6/2004
3	MW-225M2	152	7	-3	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/2/2004
3	MW-225M2	152	7	-3	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/21/2004
3	MW-225M2	152	7	-3	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/15/2004
3	MW-225M2	152	7	-3	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		2/4/2004
3	MW-225M2	152	7	-3	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/27/2003
3	MW-225M2	152	7	-3	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/27/2003
3	MW-225M2	152	7	-3	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/14/2002
3	MW-225M2	152	7	-3	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/5/2002
3	MW-225M3	152	27	17	N	0.049	J	0.218	U	0.218	U	0.218	U	0.218	U	0.218	U	0.218	U	0.218	U	4/18/2012
3	MW-225M3	152	27	17	N	0.074		0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	12/28/2011
3	MW-225M3	152	27	17	N	0.072		0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	8/24/2011
3	MW-225M3	152	27	17	N	0.065		0.102	U	0.102	U	0.102	U	0.102	U	0.102	U	0.102	U	0.102	U	4/21/2011
3	MW-225M3	152	27	17	N	0.169		0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	12/21/2010
3	MW-225M3	152	27	17	N	0.102		0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	8/18/2010
3	MW-225M3	152	27	17	N	0.093		0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	4/19/2010
3	MW-225M3	152	27	17	N	0.088		0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	11/18/2009
3	MW-225M3	152	27	17	N	1	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	7/29/2009
3	MW-225M3	152	27	17	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/15/2009
3	MW-225M3	152	27	17	N	1	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	4/15/2009
3	MW-225M3	152	27	17	N	1	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	12/23/2008
3	MW-225M3	152	27	17	FD	1	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	9/2/2008
3	MW-225M3	152	27	17	N	1	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	9/2/2008
3	MW-225M3	152	27	17	N	2.37		0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	4/14/2008
3	MW-225M3	152	27	17	FD	13.8		1.14		0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	12/5/2007
3	MW-225M3	152	27	17	N	13.5		0.894	J	0.217	UJ	0.217	UJ	0.217	UJ	0.217	UJ	0.217	UJ	0.217	UJ	12/5/2007
3	MW-225M3	152	27	17	N	20.7		1.22		0.278	U	0.278	U	0.278	U	0.278	U	0.278	U	0.278	U	4/11/2007
3	MW-225M3	152	27	17	N	17.6	J	0.98	J	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	12/21/2006
3	MW-225M3	152	27	17	N	N/A		1.3		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/8/2006
3	MW-225M3	152	27	17	N	16		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/3/2006
3	MW-225M3	152	27	17	N	11.3		1.1		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/6/2006
3	MW-225M3	152	27	17	N	N/A		0.85		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/7/2006
3	MW-225M3	152	27	17	N	14.8		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/9/2005
3	MW-225M3	152	27	17	FD	20.9	J	1.5		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/4/2005
3	MW-225M3	152	27	17	N	20.8	J	1.6		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/4/2005
3	MW-225M3	152	27	17	N	7.7	J	0.33		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/6/2005
3	MW-225M3	152	27	17	N	3.2	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/8/2004
3	MW-225M3	152	27	17	FD	2	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/6/2004

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
3	MW-225M3	152	27	17	N	2.1	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/6/2004
3	MW-225M3	152	27	17	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/2/2004
3	MW-225M3	152	27	17	N	2.62		N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/25/2004
3	MW-225M3	152	27	17	N	2.5		N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/15/2004
3	MW-225M3	152	27	17	N	1.9		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/4/2004
3	MW-225M3	152	27	17	N	0.62	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/27/2003
3	MW-225M3	152	27	17	N	1.5		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/14/2002
3	MW-225M3	152	27	17	N	2.9		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/6/2002
3	MW-231M1	161	-49	-59	N	0.222	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/12/2007
3	MW-231M1	161	-49	-59	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/22/2006
3	MW-231M1	161	-49	-59	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/1/2006
3	MW-231M1	161	-49	-59	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/6/2006
3	MW-231M1	161	-49	-59	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/6/2006
3	MW-231M1	161	-49	-59	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/9/2005
3	MW-231M1	161	-49	-59	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/4/2005
3	MW-231M1	161	-49	-59	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/11/2005
3	MW-231M1	161	-49	-59	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/9/2004
3	MW-231M1	161	-49	-59	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/30/2004
3	MW-231M1	161	-49	-59	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/20/2004
3	MW-231M1	161	-49	-59	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/11/2004
3	MW-231M1	161	-49	-59	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		1/30/2004
3	MW-231M1	161	-49	-59	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/6/2003
3	MW-231M1	161	-49	-59	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/14/2002
3	MW-231M1	161	-49	-59	N	0.51	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/26/2002
3	MW-231M2	161	-5	-15	N	0.156		0.104	U	0.104	U	0.104	U	0.104	U	0.104	U	0.104	U	0.104	U	4/21/2011
3	MW-231M2	161	-5	-15	N	0.203		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/19/2010
3	MW-231M2	161	-5	-15	N	1	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	7/29/2009
3	MW-231M2	161	-5	-15	N	1	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	4/15/2009
3	MW-231M2	161	-5	-15	N	1	U	0.213	UJ	0.213	UJ	0.213	UJ	0.213	UJ	0.213	UJ	0.213	UJ	0.213	UJ	12/22/2008
3	MW-231M2	161	-5	-15	N	1	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	8/29/2008
3	MW-231M2	161	-4	-14	N	1	U	0.444	U	0.444	U	0.444	U	0.444	U	0.444	U	0.444	U	0.444	U	4/15/2008
3	MW-231M2	161	-4	-14	N	1	U	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	12/5/2007
3	MW-231M2	161	-4	-14	N	1	U	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	8/28/2007
3	MW-231M2	161	-4	-14	N	1	UJ	0.281	U	0.281	U	0.281	U	0.281	U	0.281	UJ	0.281	U	0.281	U	4/12/2007
3	MW-231M2	161	-4	-14	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/22/2006
3	MW-231M2	161	-4	-14	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/1/2006
3	MW-231M2	161	-4	-14	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/6/2006
3	MW-231M2	161	-4	-14	FD	0.962	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/9/2005
3	MW-231M2	161	-4	-14	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/9/2005
3	MW-231M2	161	-4	-14	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/4/2005
3	MW-231M2	161	-4	-14	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/4/2005
3	MW-231M2	161	-4	-14	N	0.76	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/12/2005
3	MW-231M2	161	-4	-14	N	0.663	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/9/2004
3	MW-231M2	161	-4	-14	N	0.71	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/30/2004
3	MW-231M2	161	-4	-14	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/20/2004
3	MW-231M2	161	-4	-14	N	0.63	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/11/2004
3	MW-231M2	161	-4	-14	N	0.582	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		1/30/2004
3	MW-231M2	161	-4	-14	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/6/2003
3	MW-231M2	161	-4	-14	N	0.6	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/6/2003
3	MW-231M2	161	-4	-14	N	0.54	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/14/2002
3	MW-231M2	161	-4	-14	N	1.5		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/26/2002
3	MW-231M3	161	45	35	N	0.033	J	0.105	U	0.105	U	0.105	U	0.105	U	0.105	U	0.105	U	0.105	U	4/21/2011
3	MW-231M3	161	45	35	N	N/A		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/19/2010
3	MW-231M3	161	45	35	N	0.0342	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/19/2010
3	MW-231M3	161	45	35	N	1	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	7/29/2009

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
3	MW-231M3	161	45	35	N	1	UJ	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	4/15/2009
3	MW-231M3	161	45	35	N	1	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	12/22/2008
3	MW-231M3	161	45	35	N	1	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	8/29/2008
3	MW-231M3	161	46	36	FD	1	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	4/15/2008
3	MW-231M3	161	46	36	N	1	U	0.217	UJ	0.217	UJ	0.217	UJ	0.217	UJ	0.217	UJ	0.217	UJ	0.217	UJ	4/15/2008
3	MW-231M3	161	46	36	N	1	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	12/6/2007
3	MW-231M3	161	46	36	N	N/A		0.213	U	0.213	U	0.213	U	0.213	U	0.213	UJ	0.213	U	0.213	U	9/10/2007
3	MW-231M3	161	46	36	N	1	U	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	8/28/2007
3	MW-231M3	161	46	36	N	1	UJ	0.263	U	0.263	U	0.263	U	0.263	U	0.263	U	0.263	U	0.263	U	4/12/2007
3	MW-231M3	161	46	36	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/7/2006
3	MW-231M3	161	46	36	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/12/2005
3	MW-231M3	161	46	36	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/30/2004
3	MW-231M3	161	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/21/2004
3	MW-231M3	161	46	36	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/11/2004
3	MW-231M3	161	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		3/11/2004
3	MW-231M3	161	46	36	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		2/2/2004
3	MW-231M3	161	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		2/2/2004
3	MW-231M3	161	46	36	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/12/2003
3	MW-231M3	161	46	36	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/6/2003
3	MW-231M3	161	46	36	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/26/2002
3	MW-240M1	151	-47	-57	N	0.021	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/18/2012
3	MW-240M1	151	-47	-57	N	0.023	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2011
3	MW-240M1	151	-47	-57	N	0.015	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/22/2010
3	MW-240M1	151	-47	-57	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/16/2009
3	MW-240M1	151	-47	-57	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/15/2008
3	MW-240M1	151	-47	-57	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/11/2007
3	MW-240M1	151	-47	-57	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/22/2006
3	MW-240M1	151	-47	-57	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/1/2006
3	MW-240M1	151	-47	-57	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/6/2006
3	MW-240M1	151	-47	-57	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/9/2005
3	MW-240M1	151	-47	-57	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/9/2005
3	MW-240M1	151	-47	-57	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/4/2005
3	MW-240M1	151	-47	-57	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/11/2005
3	MW-240M1	151	-47	-57	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/9/2004
3	MW-240M1	151	-47	-57	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/12/2003
3	MW-240M1	151	-47	-57	N	1	U	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	3/5/2003
3	MW-240M1	151	-47	-57	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/12/2002
3	MW-240M2	151	26	16	N	0.25		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/18/2012
3	MW-240M2	151	26	16	N	0.1		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2011
3	MW-240M2	151	26	16	N	0.179		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/22/2010
3	MW-240M2	151	26	16	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/16/2009
3	MW-240M2	151	26	16	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/15/2008
3	MW-240M2	151	26	16	N	0.228	J	0.269	U	0.269	U	0.269	U	0.269	U	0.269	U	0.269	U	0.269	U	4/12/2007
3	MW-240M2	151	26	16	FD	0.275	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/22/2006
3	MW-240M2	151	26	16	N	0.288	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/22/2006
3	MW-240M2	151	26	16	N	0.267	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/2/2006
3	MW-240M2	151	26	16	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/6/2006
3	MW-240M2	151	26	16	N	0.343	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/9/2005
3	MW-240M2	151	26	16	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/4/2005
3	MW-240M2	151	26	16	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/11/2005
3	MW-240M2	151	26	16	N	0.357	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/9/2004
3	MW-240M2	151	26	16	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/29/2004
3	MW-240M2	151	26	16	N	0.35U		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/16/2004
3	MW-240M2	151	26	16	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/12/2003
3	MW-240M2	151	26	16	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/12/2003

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
3	MW-240M2	151	26	16	N	1	U	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	3/5/2003
3	MW-240M2	151	26	16	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/14/2002
3	MW-240M3	151	46	36	N	0.052		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/18/2012
3	MW-240M3	151	46	36	N	0.022	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2011
3	MW-240M3	151	46	36	N	0.0264	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/22/2010
3	MW-240M3	151	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/16/2009
3	MW-240M3	151	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/15/2008
3	MW-240M3	151	46	36	N	1	UJ	0.272	U	0.272	U	0.272	U	0.272	U	0.272	U	0.272	U	0.272	U	4/12/2007
3	MW-240M3	151	46	36	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/6/2006
3	MW-240M3	151	46	36	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/11/2005
3	MW-240M3	151	46	36	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/11/2005
3	MW-240M3	151	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/29/2004
3	MW-240M3	151	46	36	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	7/29/2004
3	MW-240M3	151	46	36	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/12/2003
3	MW-240M3	151	46	36	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/6/2003
3	MW-240M3	151	46	36	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/6/2003
3	MW-240M3	151	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/14/2002
3	MW-240M3	151	46	36	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/14/2002
3	MW-248M1	161	-57	-67	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/29/2004
3	MW-248M1	161	-57	-67	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/26/2003
3	MW-248M1	161	-57	-67	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/19/2003
3	MW-248M1	161	-57	-67	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/6/2003
3	MW-248M2	161	-17	-27	N	0.085		N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/1/2012
3	MW-248M2	161	-17	-27	N	0.149		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2011
3	MW-248M2	161	-17	-27	N	0.12		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2010
3	MW-248M2	161	-17	-27	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/14/2009
3	MW-248M2	161	-17	-27	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/11/2008
3	MW-248M2	161	-17	-27	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/4/2007
3	MW-248M2	161	-17	-27	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/5/2006
3	MW-248M2	161	-17	-27	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/22/2005
3	MW-248M2	161	-17	-27	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/29/2004
3	MW-248M2	161	-17	-27	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/25/2004
3	MW-248M2	161	-17	-27	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/1/2004
3	MW-248M2	161	-17	-27	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/25/2003
3	MW-248M2	161	-17	-27	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/19/2003
3	MW-248M2	161	-17	-27	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/8/2003
3	MW-248M3	161	18	8	N	0.256		N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/1/2012
3	MW-248M3	161	18	8	N	0.109		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2011
3	MW-248M3	161	18	8	N	0.255		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2010
3	MW-248M3	161	18	8	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/28/2009
3	MW-248M3	161	18	8	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/14/2009
3	MW-248M3	161	18	8	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/30/2008
3	MW-248M3	161	18	8	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		9/3/2008
3	MW-248M3	161	18	8	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/11/2008
3	MW-248M3	161	18	8	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/3/2007
3	MW-248M3	161	18	8	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/31/2007
3	MW-248M3	161	18	8	FD	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/5/2007
3	MW-248M3	161	18	8	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/5/2007
3	MW-248M3	161	18	8	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/19/2006
3	MW-248M3	161	18	8	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/7/2006
3	MW-248M3	161	18	8	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/5/2006
3	MW-248M3	161	18	8	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/7/2005
3	MW-248M3	161	18	8	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/12/2005
3	MW-248M3	161	18	8	FD	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/22/2005
3	MW-248M3	161	18	8	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/22/2005

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
3	MW-248M3	161	18	8	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/9/2004
3	MW-248M3	161	18	8	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/29/2004
3	MW-248M3	161	18	8	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/29/2004
3	MW-248M3	161	18	8	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		5/25/2004
3	MW-248M3	161	18	8	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/2/2004
3	MW-248M3	161	18	8	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/25/2003
3	MW-248M3	161	18	8	N	2	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/19/2003
3	MW-248M3	161	18	8	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/8/2003
3	MW-252M1	161	-13	-23	N	0.087		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/16/2012
3	MW-252M1	161	-13	-23	N	0.052		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/26/2011
3	MW-252M1	161	-13	-23	N	0.132		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2010
3	MW-252M1	161	-13	-23	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/28/2009
3	MW-252M1	161	-13	-23	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/14/2009
3	MW-252M1	161	-13	-23	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/30/2008
3	MW-252M1	161	-13	-23	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		9/2/2008
3	MW-252M1	161	-13	-23	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/11/2008
3	MW-252M1	161	-13	-23	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/11/2008
3	MW-252M1	161	-13	-23	FD	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/4/2007
3	MW-252M1	161	-13	-23	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/4/2007
3	MW-252M1	161	-13	-23	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/28/2007
3	MW-252M1	161	-13	-23	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/5/2007
3	MW-252M1	161	-13	-23	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/19/2006
3	MW-252M1	161	-13	-23	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/2/2006
3	MW-252M1	161	-13	-23	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/5/2006
3	MW-252M1	161	-13	-23	N	0.383	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/16/2005
3	MW-252M1	161	-13	-23	N	0.41	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/20/2005
3	MW-252M1	161	-13	-23	N	0.4	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/29/2004
3	MW-252M1	161	-13	-23	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/6/2003
3	MW-252M1	161	-13	-23	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/8/2003
3	MW-252M1	161	-13	-23	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/26/2003
3	MW-252M2	161	16	6	N	0.115		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/16/2012
3	MW-252M2	161	16	6	N	0.064		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/26/2011
3	MW-252M2	161	16	6	N	0.134		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2010
3	MW-252M2	161	16	6	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/28/2009
3	MW-252M2	161	16	6	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/14/2009
3	MW-252M2	161	16	6	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/30/2008
3	MW-252M2	161	16	6	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		9/2/2008
3	MW-252M2	161	16	6	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/11/2008
3	MW-252M2	161	16	6	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/4/2007
3	MW-252M2	161	16	6	FD	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/31/2007
3	MW-252M2	161	16	6	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/31/2007
3	MW-252M2	161	16	6	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/5/2007
3	MW-252M2	161	16	6	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/19/2006
3	MW-252M2	161	16	6	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/2/2006
3	MW-252M2	161	16	6	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/6/2006
3	MW-252M2	161	16	6	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/16/2005
3	MW-252M2	161	16	6	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/4/2005
3	MW-252M2	161	16	6	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/20/2005
3	MW-252M2	161	16	6	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/9/2004
3	MW-252M2	161	16	6	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/29/2004
3	MW-252M2	161	16	6	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/1/2004
3	MW-252M2	161	16	6	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/6/2003
3	MW-252M2	161	16	6	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/8/2003
3	MW-252M2	161	16	6	N	1	U	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	2/26/2003
3	MW-252M3	161	46	36	N	0.121		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/16/2012

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
3	MW-252M3	161	46	36	N	0.084		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/26/2011
3	MW-252M3	161	46	36	N	0.141		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2010
3	MW-252M3	161	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/28/2009
3	MW-252M3	161	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/14/2009
3	MW-252M3	161	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/30/2008
3	MW-252M3	161	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		9/3/2008
3	MW-252M3	161	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/11/2008
3	MW-252M3	161	46	36	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/4/2007
3	MW-252M3	161	46	36	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/31/2007
3	MW-252M3	161	46	36	FD	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/5/2007
3	MW-252M3	161	46	36	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/5/2007
3	MW-252M3	161	46	36	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/19/2006
3	MW-252M3	161	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/2/2006
3	MW-252M3	161	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/6/2006
3	MW-252M3	161	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/16/2005
3	MW-252M3	161	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/4/2005
3	MW-252M3	161	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2005
3	MW-252M3	161	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/9/2004
3	MW-252M3	161	46	36	N	0.43	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/29/2004
3	MW-252M3	161	46	36	FD	0.41	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/1/2004
3	MW-252M3	161	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/1/2004
3	MW-252M3	161	46	36	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/6/2003
3	MW-252M3	161	46	36	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/3/2003
3	MW-252M3	161	46	36	N	0.555	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	5/8/2003
3	MW-252M3	161	46	36	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/26/2003
3	MW-258M1	92	-17	-27	N	7.44		N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/27/2012
3	MW-258M1	92	-17	-27	FD	6.16		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/24/2012
3	MW-258M1	92	-17	-27	N	6.26		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/24/2012
3	MW-258M1	92	-17	-27	N	4.83		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/14/2011
3	MW-258M1	92	-17	-27	N	3.29		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/22/2011
3	MW-258M1	92	-17	-27	N	1.45		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/14/2011
3	MW-258M1	92	-17	-27	N	1.11		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/22/2010
3	MW-258M1	92	-17	-27	N	0.842		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/17/2010
3	MW-258M1	92	-17	-27	N	0.776		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2010
3	MW-258M1	92	-17	-27	N	0.611		N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/18/2009
3	MW-258M1	92	-17	-27	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/31/2009
3	MW-258M1	92	-17	-27	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/31/2009
3	MW-258M1	92	-17	-27	N	0.414	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/14/2009
3	MW-258M1	92	-17	-27	FD	0.569	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/31/2008
3	MW-258M1	92	-17	-27	N	0.597	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/31/2008
3	MW-258M1	92	-17	-27	FD	0.506	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		9/3/2008
3	MW-258M1	92	-17	-27	N	0.52	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		9/3/2008
3	MW-258M1	92	-17	-27	N	0.54	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/14/2008
3	MW-258M1	92	-17	-27	N	0.602	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/4/2007
3	MW-258M1	92	-17	-27	N	0.605	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/31/2007
3	MW-258M1	92	-17	-27	N	0.76	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/30/2007
3	MW-258M1	92	-17	-27	N	0.442	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/4/2007
3	MW-258M1	92	-17	-27	N	0.868	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/19/2006
3	MW-258M1	92	-17	-27	N	0.777	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/3/2006
3	MW-258M1	92	-17	-27	N	0.759	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/5/2006
3	MW-258M1	92	-17	-27	N	0.833	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/7/2005
3	MW-258M1	92	-17	-27	N	0.67	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		9/29/2005
3	MW-258M1	92	-17	-27	N	0.68	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		6/8/2005
3	MW-258M1	92	-17	-27	N	0.467	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/9/2004
3	MW-258M1	92	-17	-27	N	0.39	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/29/2004

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
3	MW-258M1	92	-17	-27	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/2/2004
3	MW-258M1	92	-17	-27	N	0.36	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/24/2003
3	MW-258M1	92	-17	-27	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/12/2003
3	MW-258M1	92	-17	-27	N	1	U	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	3/7/2003
3	MW-258M2	92	5	0	N	0.107		0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	4/24/2012
3	MW-258M2	92	5	0	N	0.069		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/14/2011
3	MW-258M2	92	5	0	N	N/A		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	9/7/2011
3	MW-258M2	92	5	0	N	0.117		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/22/2011
3	MW-258M2	92	5	0	N	0.15		0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	4/14/2011
3	MW-258M2	92	5	0	N	0.204		0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	12/22/2010
3	MW-258M2	92	5	0	N	0.119		0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	8/17/2010
3	MW-258M2	92	5	0	N	0.068		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/21/2010
3	MW-258M2	92	5	0	N	0.079		0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	11/18/2009
3	MW-258M2	92	5	0	N	1	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	7/31/2009
3	MW-258M2	92	5	0	N	1	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	4/14/2009
3	MW-258M2	92	5	0	N	1	U	0.21	UJ	0.21	UJ	0.21	UJ	0.21	UJ	0.21	UJ	0.21	UJ	0.21	UJ	12/31/2008
3	MW-258M2	92	5	0	N	1	U	0.217	UJ	0.217	UJ	0.217	UJ	0.217	UJ	0.217	UJ	0.217	UJ	0.217	UJ	9/3/2008
3	MW-258M2	92	5	0	FD	1	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	4/14/2008
3	MW-258M2	92	5	0	N	1	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	4/14/2008
3	MW-258M2	92	5	0	N	1	UJ	0.22	UJ	0.22	UJ	0.22	UJ	0.22	UJ	0.22	UJ	0.22	UJ	0.22	UJ	12/4/2007
3	MW-258M2	92	5	0	N	1	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	8/31/2007
3	MW-258M2	92	5	0	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/30/2007
3	MW-258M2	92	5	0	N	1	U	0.269	U	0.269	U	0.269	U	0.269	U	0.269	UJ	0.269	U	0.269	U	4/4/2007
3	MW-258M2	92	5	0	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/20/2006
3	MW-258M2	92	5	0	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	12/20/2006
3	MW-258M2	92	5	0	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/8/2006
3	MW-258M2	92	5	0	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/3/2006
3	MW-258M2	92	5	0	N	0.867	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/5/2006
3	MW-258M2	92	5	0	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/10/2006
3	MW-258M2	92	5	0	N	1.28		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/15/2005
3	MW-258M2	92	5	0	N	1.4		N/A		N/A		N/A		N/A		N/A		N/A		N/A		9/29/2005
3	MW-258M2	92	5	0	N	4		N/A		N/A		N/A		N/A		N/A		N/A		N/A		6/8/2005
3	MW-258M2	92	5	0	N	1.62		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/9/2004
3	MW-258M2	92	5	0	N	1.4		N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/29/2004
3	MW-258M2	92	5	0	N	0.9	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/2/2004
3	MW-258M2	92	5	0	N	0.51	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/24/2003
3	MW-258M2	92	5	0	N	0.4	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/12/2003
3	MW-258M2	92	5	0	N	0.408	J	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	0.25	UJ	3/7/2003
3	MW-258M3	92	15	10	N	0.062		0.202	UJ	0.202	UJ	0.202	UJ	0.202	UJ	0.202	UJ	0.202	UJ	0.202	UJ	4/24/2012
3	MW-258M3	92	15	10	N	0.053		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/14/2011
3	MW-258M3	92	15	10	N	N/A		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	9/7/2011
3	MW-258M3	92	15	10	N	0.069		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/22/2011
3	MW-258M3	92	15	10	N	0.056		0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	0.222	UJ	4/14/2011
3	MW-258M3	92	15	10	N	0.051		0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	12/22/2010
3	MW-258M3	92	15	10	N	0.0424	J	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	8/17/2010
3	MW-258M3	92	15	10	N	0.0359	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/21/2010
3	MW-258M3	92	15	10	N	0.0365	J	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	11/19/2009
3	MW-258M3	92	15	10	N	1	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	7/31/2009
3	MW-258M3	92	15	10	N	1	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	4/15/2009
3	MW-258M3	92	15	10	N	1	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	12/31/2008
3	MW-258M3	92	15	10	N	1	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	9/3/2008
3	MW-258M3	92	15	10	N	1	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	4/14/2008
3	MW-258M3	92	15	10	N	1	UJ	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	0.217	U	12/4/2007
3	MW-258M3	92	15	10	N	1	UJ	0.227	UJ	0.227	UJ	0.227	UJ	0.227	UJ	0.227	UJ	0.227	UJ	0.227	UJ	8/31/2007
3	MW-258M3	92	15	10	N	1	U	0.278	UJ	0.278	U	0.278	U	0.278	U	0.278	UJ	0.278	U	0.278	U	4/4/2007

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
3	MW-258M3	92	15	10	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	4/5/2006
3	MW-258M3	92	15	10	N	0.46	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		9/29/2005
3	MW-258M3	92	15	10	FD	1.9		N/A		N/A		N/A		N/A		N/A		N/A		N/A		6/8/2005
3	MW-258M3	92	15	10	N	1.9		N/A		N/A		N/A		N/A		N/A		N/A		N/A		6/8/2005
3	MW-258M3	92	15	10	N	1.01		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/9/2004
3	MW-258M3	92	15	10	N	0.37	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/29/2004
3	MW-258M3	92	15	10	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/2/2004
3	MW-258M3	92	15	10	N	1	UJ	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/24/2003
3	MW-258M3	92	15	10	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	6/12/2003
3	MW-258M3	92	15	10	FD	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/7/2003
3	MW-258M3	92	15	10	N	0.49	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	3/7/2003
3	MW-352M1	65	-50	-60	N	0.105		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/16/2012
3	MW-352M1	65	-50	-60	N	0.128		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/15/2011
3	MW-352M1	65	-50	-60	N	0.138		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/28/2010
3	MW-352M1	65	-50	-60	N	0.168		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/19/2010
3	MW-352M1	65	-50	-60	N	0.269		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/27/2010
3	MW-352M1	65	-50	-60	N	0.169		N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/19/2009
3	MW-352M1	65	-50	-60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/30/2009
3	MW-352M1	65	-50	-60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/13/2009
3	MW-352M1	65	-50	-60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/17/2008
3	MW-352M1	65	-50	-60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		9/3/2008
3	MW-352M1	65	-50	-60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/9/2008
3	MW-352M1	65	-50	-60	N	0.232		0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	0.206	U	2/1/2008
3	MW-352M1	65	-50	-60	N	0.619	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/3/2007
3	MW-352M1	65	-50	-60	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/31/2007
3	MW-352M1	65	-50	-60	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/3/2007
3	MW-352M1	65	-50	-60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/20/2006
3	MW-352M1	65	-50	-60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/4/2006
3	MW-352M1	65	-50	-60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/4/2006
3	MW-352M1	65	-50	-60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/7/2005
3	MW-352M1	65	-50	-60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/8/2005
3	MW-352M1	65	-50	-60	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/19/2005
3	MW-352M1	65	-50	-60	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/3/2004
3	MW-352M2	65	0	-10	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/16/2012
3	MW-352M2	65	0	-10	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/15/2011
3	MW-352M2	65	0	-10	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/28/2010
3	MW-352M2	65	0	-10	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/19/2010
3	MW-352M2	65	0	-10	N	0.031	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/27/2010
3	MW-352M2	65	0	-10	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/19/2009
3	MW-352M2	65	0	-10	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/30/2009
3	MW-352M2	65	0	-10	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/13/2009
3	MW-352M2	65	0	-10	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/17/2008
3	MW-352M2	65	0	-10	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		9/3/2008
3	MW-352M2	65	0	-10	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/9/2008
3	MW-352M2	65	0	-10	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/3/2007
3	MW-352M2	65	0	-10	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/31/2007
3	MW-352M2	65	0	-10	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/3/2007
3	MW-352M2	65	0	-10	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/21/2006
3	MW-352M2	65	0	-10	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/7/2006
3	MW-352M2	65	0	-10	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/4/2006
3	MW-352M2	65	0	-10	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/7/2005
3	MW-352M2	65	0	-10	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/8/2005
3	MW-352M2	65	0	-10	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/19/2005
3	MW-352M2	65	0	-10	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/3/2004
3	MW-352M3	65	22	12	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/15/2011

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
3	MW-352M3	65	22	12	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/28/2010
3	MW-352M3	65	22	12	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/19/2010
3	MW-352M3	65	22	12	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/27/2010
3	MW-352M3	65	22	12	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/19/2009
3	MW-352M3	65	22	12	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/30/2009
3	MW-352M3	65	22	12	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/13/2009
3	MW-352M3	65	22	12	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/17/2008
3	MW-352M3	65	22	12	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		9/3/2008
3	MW-352M3	65	22	12	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/9/2008
3	MW-352M3	65	22	12	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/3/2007
3	MW-352M3	65	22	12	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/31/2007
3	MW-352M3	65	22	12	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/4/2007
3	MW-352M3	65	22	12	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/21/2006
3	MW-352M3	65	22	12	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/7/2006
3	MW-352M3	65	22	12	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/5/2006
3	MW-352M3	65	22	12	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/7/2005
3	MW-352M3	65	22	12	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		10/4/2005
3	MW-352M3	65	22	12	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/20/2005
3	MW-352M3	65	22	12	FD	1	U	0.25	U	4	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/3/2004
3	MW-352M3	65	22	12	N	1	U	0.25	U	4	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/3/2004
3	MW-353M1	56	-51	-61	N	0.102		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/16/2012
3	MW-353M1	56	-51	-61	N	0.117		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/15/2011
3	MW-353M1	56	-51	-61	N	0.155		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/29/2010
3	MW-353M1	56	-51	-61	N	0.063		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/19/2010
3	MW-353M1	56	-51	-61	N	0.078		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/27/2010
3	MW-353M1	56	-51	-61	N	0.113		N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/19/2009
3	MW-353M1	56	-51	-61	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/30/2009
3	MW-353M1	56	-51	-61	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/13/2009
3	MW-353M1	56	-51	-61	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/17/2008
3	MW-353M1	56	-51	-61	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		9/4/2008
3	MW-353M1	56	-51	-61	N	0.418	J	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/9/2008
3	MW-353M1	56	-51	-61	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/3/2007
3	MW-353M1	56	-51	-61	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/31/2007
3	MW-353M1	56	-51	-61	FD	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/3/2007
3	MW-353M1	56	-51	-61	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/3/2007
3	MW-353M1	56	-51	-61	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/20/2006
3	MW-353M1	56	-51	-61	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/4/2006
3	MW-353M1	56	-51	-61	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/4/2006
3	MW-353M1	56	-51	-61	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/7/2005
3	MW-353M1	56	-51	-61	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/8/2005
3	MW-353M1	56	-51	-61	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/8/2005
3	MW-353M1	56	-51	-61	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2005
3	MW-353M1	56	-51	-61	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/22/2004
3	MW-353M2	56	-1	-11	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/16/2012
3	MW-353M2	56	-1	-11	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/15/2011
3	MW-353M2	56	-1	-11	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/29/2010
3	MW-353M2	56	-1	-11	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/19/2010
3	MW-353M2	56	-1	-11	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/27/2010
3	MW-353M2	56	-1	-11	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/19/2009
3	MW-353M2	56	-1	-11	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/30/2009
3	MW-353M2	56	-1	-11	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/13/2009
3	MW-353M2	56	-1	-11	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/17/2008
3	MW-353M2	56	-1	-11	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		9/4/2008
3	MW-353M2	56	-1	-11	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/9/2008
3	MW-353M2	56	-1	-11	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/3/2007

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
3	MW-353M2	56	-1	-11	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/31/2007
3	MW-353M2	56	-1	-11	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/3/2007
3	MW-353M2	56	-1	-11	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/20/2006
3	MW-353M2	56	-1	-11	FD	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/4/2006
3	MW-353M2	56	-1	-11	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/4/2006
3	MW-353M2	56	-1	-11	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/4/2006
3	MW-353M2	56	-1	-11	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/19/2005
3	MW-353M2	56	-1	-11	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/8/2005
3	MW-353M2	56	-1	-11	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2005
3	MW-353M2	56	-1	-11	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/22/2004
3	MW-353M3	56	21	11	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/15/2011
3	MW-353M3	56	21	11	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/29/2010
3	MW-353M3	56	22	11	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/19/2010
3	MW-353M3	56	21	11	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/27/2010
3	MW-353M3	56	21	11	N	0.05	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/19/2009
3	MW-353M3	56	21	11	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		7/30/2009
3	MW-353M3	56	21	11	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/13/2009
3	MW-353M3	56	21	11	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/17/2008
3	MW-353M3	56	21	11	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		9/4/2008
3	MW-353M3	56	21	11	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/9/2008
3	MW-353M3	56	21	11	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/3/2007
3	MW-353M3	56	21	11	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/31/2007
3	MW-353M3	56	21	11	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/3/2007
3	MW-353M3	56	21	11	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/20/2006
3	MW-353M3	56	21	11	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/4/2006
3	MW-353M3	56	21	11	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/4/2006
3	MW-353M3	56	21	11	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/19/2005
3	MW-353M3	56	21	11	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/8/2005
3	MW-353M3	56	21	11	N	1	UJ	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2005
3	MW-353M3	56	21	11	N	1	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/22/2004
3	MW-531M1	93	-45	-55	N	0.346		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/24/2012
3	MW-531M1	93	-45	-55	N	0.304		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/14/2011
3	MW-531M1	93	-45	-55	N	0.313		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/22/2010
3	MW-531M1	93	-45	-55	N	0.275		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/17/2010
3	MW-531M1	93	-45	-55	N	0.256		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/21/2010
3	MW-532M1	110	-58	-68	N	6.54		N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/27/2012
3	MW-532M1	110	-58	-68	N	7.1		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/21/2012
3	MW-532M1	110	-58	-68	FD	6.91		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/18/2012
3	MW-532M1	110	-58	-68	N	6.96		0.445	J	0.22	UJ	0.22	UJ	0.22	UJ	0.22	UJ	0.22	UJ	0.22	UJ	4/18/2012
3	MW-532M1	110	-58	-68	N	6.7		0.408		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/14/2011
3	MW-532M1	110	-58	-68	N	N/A		0.372		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	9/6/2011
3	MW-532M1	110	-58	-68	N	8.62		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/22/2011
3	MW-532M1	110	-58	-68	FD	6.52		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/14/2011
3	MW-532M1	110	-58	-68	N	6.36		0.374	J	0.21	UJ	0.21	UJ	0.21	UJ	0.21	UJ	0.21	UJ	0.21	UJ	4/14/2011
3	MW-532M1	110	-58	-68	FD	5.85		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/30/2010
3	MW-532M1	110	-58	-68	N	5.89		0.177	J	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	0.222	U	12/30/2010
3	MW-532M1	110	-58	-68	N	5.61		0.219		0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	0.208	U	8/17/2010
3	MW-532M1	110	-58	-68	N	3.19		0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	0.202	U	4/19/2010
3	MW-532M2	110	-28	-38	FD	27.6		N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/27/2012
3	MW-532M2	110	-28	-38	N	27.9	J	1.71		0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	0.203	U	11/27/2012
3	MW-532M2	110	-28	-38	FD	29.6		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/21/2012
3	MW-532M2	110	-28	-38	N	29.4		1.91		0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	0.204	U	8/21/2012
3	MW-532M2	110	-28	-38	FD	26.6		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/18/2012
3	MW-532M2	110	-28	-38	N	26.3		1.58	J	0.218	UJ	0.218	UJ	0.218	UJ	0.218	UJ	0.218	UJ	0.218	UJ	4/18/2012
3	MW-532M2	110	-28	-38	N	28.1		1.51		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/14/2011

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
3	MW-532M2	110	-28	-38	N	N/A		0.802		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	9/6/2011
3	MW-532M2	110	-28	-38	FD	16		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/22/2011
3	MW-532M2	110	-28	-38	N	16.3		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/22/2011
3	MW-532M2	110	-28	-38	FD	16.8		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/14/2011
3	MW-532M2	110	-28	-38	N	16.8		0.534		0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	4/14/2011
3	MW-532M2	110	-28	-38	FD	21.3		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/30/2010
3	MW-532M2	110	-28	-38	N	21.2		0.833		0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	0.215	U	12/30/2010
3	MW-532M2	110	-28	-38	FD	7.21		0.246	J	0.206	UJ	0.206	UJ	0.206	UJ	0.206	UJ	0.206	UJ	0.206	UJ	8/17/2010
3	MW-532M2	110	-28	-38	N	7.25		0.245	J	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	0.215	UJ	8/17/2010
3	MW-532M2	110	-28	-38	FD	7.78		0.356		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/19/2010
3	MW-532M2	110	-28	-38	N	8.28		0.421		0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	0.213	U	4/19/2010
3	MW-533M1	110	-50	-60	N	0.172		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/14/2011
3	MW-533M1	110	-50	-60	N	0.164		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/22/2010
3	MW-533M1	110	-50	-60	N	0.141		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/17/2010
3	MW-533M1	110	-50	-60	N	0.128		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/20/2010
3	MW-542M1	117	-27	-37	N	0.106		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/24/2012
3	MW-542M1	117	-27	-37	N	0.188		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/14/2011
3	MW-542M1	117	-27	-37	N	0.275		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/30/2010
3	MW-542M1	117	-27	-37	N	0.249		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/17/2010
3	MW-542M1	117	-27	-37	N	0.303		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/20/2010
3	MW-543M1	58	-69	-79	N	0.14	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/11/2012
3	MW-543M1	58	-69	-79	N	0.14	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	5/31/2012
3	MW-543M1	58	-69	-79	N	0.13	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/22/2011
3	MW-543M1	58	-69	-79	N	0.13	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	9/19/2011
3	MW-543M1	58	-69	-79	N	0.11	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	6/23/2011
3	MW-543M1	58	-69	-79	N	0.078	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	11/30/2010
3	MW-543M2	58	-34	-44	N	0.16	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/11/2012
3	MW-543M2	58	-34	-44	FD	0.14	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	6/1/2012
3	MW-543M2	58	-34	-44	N	0.13	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	6/1/2012
3	MW-543M2	58	-34	-44	N	0.15	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/22/2011
3	MW-543M2	58	-34	-44	N	0.16	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	9/19/2011
3	MW-543M2	58	-34	-44	N	0.15	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	6/23/2011
3	MW-543M2	58	-34	-44	N	0.12	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/1/2010
3	MW-544M1	74	-88	-98	N	0.7		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/11/2012
3	MW-544M1	74	-88	-98	N	0.84		0.043	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	5/31/2012
3	MW-544M1	74	-88	-98	N	2.17		0.13	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	3/20/2012
3	MW-544M1	74	-88	-98	N	3.43		0.17	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/21/2011
3	MW-544M1	74	-88	-98	FD	3.96		0.24	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	9/20/2011
3	MW-544M1	74	-88	-98	N	4.01		0.23	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	9/20/2011
3	MW-544M1	74	-88	-98	FD	3.37		0.26	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	7/20/2011
3	MW-544M1	74	-88	-98	N	4.14		0.25	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	7/20/2011
3	MW-544M1	74	-88	-98	N	5.8		1.36	UJ	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	6/21/2011
3	MW-544M1	74	-88	-98	N	0.78		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/13/2010
3	MW-544M2	73	-39	-49	N	0.13	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/11/2012
3	MW-544M2	73	-39	-49	N	0.15	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	5/30/2012
3	MW-544M2	73	-39	-49	N	0.11	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	3/20/2012
3	MW-544M2	73	-39	-49	N	0.14	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/22/2011
3	MW-544M2	73	-39	-49	N	0.072	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	9/20/2011
3	MW-544M2	73	-39	-49	N	0.11	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	6/22/2011
3	MW-544M2	73	-39	-49	N	0.3		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/10/2010
3	MW-544M3	74	-4	-14	N	0.061	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/11/2012
3	MW-544M3	74	-4	-14	N	0.059	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	5/31/2012
3	MW-544M3	74	-4	-14	N	0.059	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/21/2011
3	MW-544M3	74	-4	-14	N	0.042	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	9/20/2011
3	MW-544M3	74	-4	-14	N	0.072	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	6/21/2011

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
3	MW-544M3	74	-3	-13	N	0.16	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/9/2010
3	MW-545M1	63	-99	-109	N	1.48		0.076	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/10/2012
3	MW-545M1	63	-99	-109	N	1.49		0.14	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	5/30/2012
3	MW-545M1	63	-99	-109	N	2.38		0.18	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/20/2011
3	MW-545M1	63	-99	-109	N	2.25		0.18	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	9/21/2011
3	MW-545M1	63	-99	-109	N	4.16		0.37	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	6/20/2011
3	MW-545M1	63	-99	-109	N	0.87		0.2	UJ	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/7/2010
3	MW-545M2	63	-79	-89	N	0.95		0.1	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/10/2012
3	MW-545M2	63	-79	-89	N	2.17		0.23		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	5/30/2012
3	MW-545M2	63	-79	-89	N	4.26		0.32		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/21/2011
3	MW-545M2	63	-79	-89	N	6.14		0.61		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	9/21/2011
3	MW-545M2	63	-79	-89	N	7.05		0.5		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	6/16/2011
3	MW-545M2	63	-79	-89	FD	12		1.06	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/7/2010
3	MW-545M2	63	-79	-89	N	12.2		1.08	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/7/2010
3	MW-545M3	63	-39	-49	N	0.38		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/10/2012
3	MW-545M3	63	-39	-49	N	0.48		0.038	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	5/30/2012
3	MW-545M3	63	-39	-49	N	1.35		0.098	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/20/2011
3	MW-545M3	63	-39	-49	N	1.46		0.13	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	9/21/2011
3	MW-545M3	63	-39	-49	FD	7.09		0.58	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	6/16/2011
3	MW-545M3	63	-39	-49	N	7		0.59	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	6/16/2011
3	MW-545M3	63	-39	-49	N	8.96		0.85	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/6/2010
3	MW-545M4	63	-9	-19	N	0.29		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/10/2012
3	MW-545M4	63	-9	-19	N	0.42		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	5/30/2012
3	MW-545M4	63	-9	-19	N	1.33		0.042	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/20/2011
3	MW-545M4	63	-9	-19	N	1.24		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	9/20/2011
3	MW-545M4	63	-9	-19	N	2.54		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	6/16/2011
3	MW-545M4	63	-9	-19	N	2.94		0.2	UJ	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/8/2010
3	MW-546M1	63	-77	-87	N	0.098	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/10/2012
3	MW-546M1	63	-77	-87	N	0.15	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	5/29/2012
3	MW-546M1	63	-77	-87	N	0.23		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/20/2011
3	MW-546M1	63	-77	-87	N	0.21		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	9/22/2011
3	MW-546M1	63	-77	-87	N	0.27		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	6/20/2011
3	MW-546M1	63	-77	-87	N	0.19	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/13/2010
3	MW-546M2	63	-37	-47	N	0.075	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/10/2012
3	MW-546M2	63	-37	-47	N	0.079	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	5/29/2012
3	MW-546M2	63	-37	-47	N	0.093	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/20/2011
3	MW-546M2	63	-37	-47	N	0.12	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	9/22/2011
3	MW-546M2	63	-37	-47	N	0.19	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	6/20/2011
3	MW-546M2	63	-37	-47	N	0.17	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/13/2010
3	MW-554M1	54	-66	-76	N	0.55		0.25	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/12/2012
3	MW-554M1	54	-66	-76	N	2.43		0.18	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	6/1/2012
3	MW-554M1	54	-66	-76	FD	4.9		0.29	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/22/2011
3	MW-554M1	54	-66	-76	N	5.07		0.31	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/22/2011
3	MW-554M1	54	-66	-76	N	5.3		0.4	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	9/23/2011
3	MW-554M1	54	-66	-76	N	5.38		0.32	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	6/29/2011
3	MW-554M1	54	-66	-76	N	5.09		0.25	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	5/20/2011
3	MW-554M2	54	-35	-45	N	0.63		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/12/2012
3	MW-554M2	54	-35	-45	N	1.43		0.072	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	6/1/2012
3	MW-554M2	54	-35	-45	N	2.81		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/27/2011
3	MW-554M2	54	-35	-45	N	2.65		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	9/23/2011
3	MW-554M2	54	-35	-45	N	2.68		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	6/29/2011
3	MW-554M2	54	-35	-45	N	3.02		0.84	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	5/20/2011
3	MW-556M1	50	-103	-113	N	6.29		0.87	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/12/2012
3	MW-556M1	50	-103	-113	N	7.27		0.67		0.2	U	0.2	U	0.2	U	0.2	u	0.2	U	0.2	U	8/20/2012
3	MW-556M1	50	-103	-113	N	6.64		0.56		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	3/26/2012

Demolition Area 1
Perchlorate and Explosive COCs in Groundwater - Inception to Date

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
3	MW-556M1	50	-103	-113	N	6.85		0.48		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/26/2011
3	MW-556M2	50	-61	-71	FD	5.44		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/12/2012
3	MW-556M2	50	-61	-71	N	5.68		0.57		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/12/2012
3	MW-556M2	50	-61	-71	N	9.8		0.93		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	8/20/2012
3	MW-556M2	50	-61	-71	N	13.2		1.55	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	3/26/2012
3	MW-556M2	50	-61	-71	N	14.1		1.14		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/26/2011
3	MW-558M1	56	-78	-88	N	2.65		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/12/2012
3	MW-558M1	56	-78	-88	N	2.56		0.19	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	8/20/2012
3	MW-558M1	56	-78	-88	N	2.13		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	3/26/2012
3	MW-558M1	56	-78	-88	N	2.46		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/27/2011
3	MW-558M2	56	-42	-52	N	3.06		0.29	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/12/2012
3	MW-558M2	56	-42	-52	N	2.99		0.16	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	8/20/2012
3	MW-558M2	56	-42	-52	N	2.35		0.83	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	3/26/2012
3	MW-558M2	56	-42	-52	N	3.11		0.21		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/27/2011
3	MW-559M1	53	-83	-93	N	2.02		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/11/2012
3	MW-559M1	53	-83	-93	N	2.04		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	8/20/2012
3	MW-559M1	53	-83	-93	FD	1.96		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	3/26/2012
3	MW-559M1	53	-83	-93	N	1.92		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	3/26/2012
3	MW-559M1	53	-83	-93	N	2.11		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/27/2011
3	MW-559M2	53	-34	-44	N	0.3		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	12/12/2012
3	MW-559M2	53	-34	-44	N	0.19	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	8/20/2012
3	MW-559M2	53	-34	-44	N	0.12	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	3/27/2012
3	MW-559M2	53	-34	-44	N	0.11	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1/3/2012
3	MW-597M1	59	-89	-99	N	0.11	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	2/28/2013
3	MW-597M2	59	-59	-69	FD	0.1	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	2/28/2013
3	MW-597M2	59	-59	-69	N	0.081	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	2/28/2013
3	XX9514	57	-45	-55	N	2.96		N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/20/2012
3	XX9514	57	-45	-55	N	3.48		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/21/2012
3	XX9514	57	-45	-55	FD	3.31		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/17/2012
3	XX9514	57	-45	-55	N	3.22		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/17/2012
3	XX9514	57	-45	-55	FD	5.01		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/13/2011
3	XX9514	57	-45	-55	N	5.08		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/13/2011
3	XX9514	57	-45	-55	N	9.59		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/23/2011
3	XX9514	57	-45	-55	FD	4.23		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/15/2011
3	XX9514	57	-45	-55	N	4.58		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/15/2011
3	XX9514	57	-45	-55	N	3.85		N/A		N/A		N/A		N/A		N/A		N/A		N/A		12/23/2010
3	XX9514	57	-45	-55	N	1.24		N/A		N/A		N/A		N/A		N/A		N/A		N/A		8/19/2010
3	XX9514	57	-45	-55	N	0.786		N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/22/2010
3	XX9514	57	-45	-55	N	0.21		N/A		N/A		N/A		N/A		N/A		N/A		N/A		11/19/2009
3	XX9514	57	-45	-55	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		9/16/2009
3	XX9514	57	-45	-55	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/10/2008
3	XX9514	57	-45	-55	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/10/2008
3	XX9514	57	-45	-55	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	10/14/2004
3	XX9514	57	-45	-55	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	11/14/2003
3	XX9514	57	-45	-55	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/6/2002
3	XX9514	57	-45	-55	N	1	U	N/A		N/A		N/A		N/A		N/A		N/A		N/A		4/8/2002
3	XX9514	57	-45	-55	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/5/2001
3	XX9514	57	-45	-55	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	8/28/2000
3	XX9514	57	-45	-55	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	9/28/1999
3	XX9514	57	-45	-55	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	1/22/1999
3	XX9514	57	-45	-55	N	N/A		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	2/10/1998
4	MW-569M1	54	-80	-90	N	3.68		1.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/4/2013
4	MW-569M2	54	-30	-40	N	2.08		1.27	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/4/2013
4	MW-571M1	58	-56	-66	N	3.69		1.38	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/4/2013
4	MW-571M2	58	-16	-26	N	3.22		1.91	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/4/2013

Zone	Well	Ground Elevation (feet)	TOS (ft msl)	BOS (ft msl)	Sample Type	Perchlorate	Qualifier	RDX	Qualifier	HMX	Qualifier	TNT	Qualifier	2,4-DNT	Qualifier	2,6-DNT	Qualifier	2A-DNT	Qualifier	4A-DNT	Qualifier	Date
4	MW-582M1	72	-62	-72	N	1.03		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/19/2013
4	MW-582M2	72	-12	-22	N	3.41		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	4/19/2013
4	MW-598M1	65	-57	-67	N	0.91		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	3/5/2013
4	MW-598M2	65	-23	-33	N	1.06		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	3/5/2013

Legend

NAD SP27 = Massachusetts State Plane Coordinate North American Datum of 1927
TOS = Top of Screen
BOS = Bottom of Screen
ft msl = Feet Mean Sea Level
U = Non-Detect
J = Estimated Concentration
UJ = Estimated Non-Detect
N = Normal Field Sample
FD = Field Duplicate

Appendix D

Plume Shell Development

&

Alternatives Analysis

D1 – Perchlorate Plume Shell Development

D2 – RDX Plume Shell Development

D3 – Summary of Alternatives Analysis

D4 – Perchlorate and RDX Animations (Compact Disk)

D1

Perchlorate Plume Shell Development

Introduction

The existing Demo 1 plume shells for contamination west of Pew Road have recently been demonstrated to be outdated and unreliable for the prediction of the distribution and magnitude of perchlorate and RDX concentrations throughout the respective plumes (USACE, 2013). Plume shells representing current levels of groundwater contamination at the Demo 1 area were developed to facilitate a more reliable prediction of perchlorate and RDX concentrations in groundwater for use in evaluating long term remediation alternatives. Plume shell development utilized all of the historic and recent perchlorate and RDX data available for the site through March 2013 from both monitoring wells and profiles. In an effort to develop the most reliable plume shell possible, given the data collected, the recalibrated groundwater flow model for the site was used to forward-migrate all previously measured concentrations to ensure the most complete use of the data available. The following text summarizes the objectives of the plume shell development and the steps involved. It also presents the revised plume shells and comparisons of measured and predicted contaminant concentrations.

Objectives

The goal of plume shell development for the Demo 1 site was to derive a reliable estimate of the magnitude and distribution of perchlorate and RDX concentrations in groundwater, using all existing monitoring well and profile data, for use in simulating future conditions. This objective has been met by using a more reliable flow model for portions of the site west of Pew Road to migrate available historic groundwater concentrations of perchlorate and RDX downgradient through the respective aquifer systems and then contouring the migrated concentrations to develop three-dimensional depictions of contamination. The reliability of the newly developed plume shell was evaluated by comparing measured and predicted contamination data at each of the existing extraction wells and to newly installed monitoring wells.

Methods

The plume shell development, as presented here, is the process of using existing historic groundwater quality data to depict the current distribution and magnitude of known perchlorate and RDX plumes. There are generally three distinctly different approaches to determining initial concentrations in a groundwater quality model, including 1) applying a source of contamination to a fate and transport model and predicting current conditions that can be compared with recent concentration measurements, 2) using a snapshot of groundwater contamination data to develop a contoured three-dimensional plume and 3) using all historic chemical data and a reliable flow model to determine the current locations of all historic data points for use in developing a contoured three-dimensional plume.

If detailed mass and duration information about a contaminant release is available, then simulating a developing plume is a reasonable option. However, the level of information necessary to develop a reliable plume shell is often not available, as is the case at Demo 1. Using a snapshot of chemical data to develop a plume shell is also a straight-forward option, but it is limited in that relatively little data is used. In addition, the contoured plume is independent of any actual or model predicted hydraulics. The option of using forward migrated historic data is

considered a superior method for plume shell development and for initiating a chemical concentration field in a groundwater model because it takes advantage of all available data and is developed using realistic hydraulic conditions. While the steps involved in developing a plume shell using forward-migrated data are relatively complex and require the sequential use of multiple software packages, this approach is considered to be the most reliable for use at Demo 1.

Determining the current location of historically measured perchlorate and RDX contamination is a key component and complicating factor in the plume shell development process. To achieve the goal of plume shell development, the recalibrated groundwater flow model was used to distribute historic perchlorate and RDX data points, which were then coupled with a set of boundary data points and contoured in three dimensions. Reliability of the developed plume shell was evaluated by comparing measured and predicted extraction and monitoring well concentrations and ultimately will be vetted out over time. The newly developed plume shells were then used for all simulations associated with the various cleanup alternatives presented in Section 7 of the Technical Memorandum.

The following text and associated figures and table present a detailed explanation of the plume shell development process and the results of the plume shell development for perchlorate and RDX.

Data query (MS Access)

Perchlorate and RDX concentrations for Demo 1 groundwater were queried from the EDMS database, including all historic monitoring well data, which was applied to the mid-screen elevations, and profile data, which was applied to point locations. The locations and times that samples were collected were used to identify where and when particles were released throughout the flow model simulation prior to the prediction of particle and associated contaminant migration. Chemical data reported in EDMS was qualified as being “Null – No Qualifier”, “Estimated - J”, “Rejected - R” or “Not-Detected (U or UJ)” where “Null” and “Estimated” values were used as reported, “Rejected” values were dismissed, and “Not-Detected” values were assumed to be 0.35 µg/L for perchlorate and 0.25 µg/L for RDX. The perchlorate data for the plume extends from 08 August 2000 through 31 March 2013 and the RDX data extends from 7 November 1997 through 31 March 2013.

Transient groundwater flow simulation (Vistas-MODFLOW)

The recalibrated MODFLOW groundwater flow model for the Demo 1 plume was used to simulate hydrologic conditions throughout a time period extending from the earliest water quality measurement to the most recent. All boundary conditions, with the exception of well extraction rates, were held constant throughout the transient simulation. Groundwater extraction rates varied according to the actual measured rates from wells within each respective model domain. The initial head conditions applied to the model were predicted from an initial steady-state simulation calibrated to a synoptic water level round of 5-6 November 2012.

Particle migration (Vistas-MODPATH)

The development of transient groundwater flow conditions over the time period coincident with the earliest and most recent perchlorate and RDX data points was followed by a particle tracking simulation using the MODPATH particle tracking program. Particle simulations were conducted to determine the recent location of perchlorate and RDX concentrations that were historically measured at various monitoring wells and profile locations. The starting locations and times for the particle simulations were derived from information acquired through EDMS and predicted particle locations were determined for the end of the simulation so that the most recent particle locations and concentrations are known (x, y, z and c). Migrated particle locations and initial concentrations are all presented in the respective Table sections included within this appendix.

2D contouring in GIS (ArcView)

The predicted location and measured concentration data (x, y, z and c) was imported into the ArcView GIS platform and concentrations at ten foot vertical intervals were queried to isolate specific layers of forward migrated perchlorate and RDX concentrations. Concentration contours for each vertical interval were then drawn using 1) the forward-migrated historical concentrations, 2) a map of the suspected source areas, and 3) the previously drawn plumes, as a guide. Contours for perchlorate included 0.35 µg/L, 2 µg/L, 6 µg/L and 15 µg/L and contours for RDX included 0.25 µg/L, 0.6 µg /L, 2 µg /L, 6 µg /L and 15 µg/L. The concentration contours were developed to constrain the perchlorate and RDX plume shell boundaries and to offer some control on the distribution and magnitude of the plume shells. Migrated concentrations outside of the drawn contours were very low or non-detect and were removed from the dataset. The final step in 2D contouring was to transform each of the contours into sets of equally spaced points (x, y, z and c). Migrated particle locations and initial concentrations (perchlorate) or decayed concentrations (RDX), along with contours developed using this information, are all illustrated in the respective Table sections included within this appendix.

3D contouring (GMS)

The significant effort completed to this point resulted in a lengthy set of data points (x, y, z and c) representing both the forward-migrated measured data and a much larger set of boundary contour points. A composite of this set of points was imported into the GMS groundwater modeling software package as a set of “scatter points” and then contoured using the inverse distance weighted (IDW) option and the Constant (Shepard’s Method), the 8 nearest points for correlation, and a relatively small vertical anisotropy ratio of 1-3%. This 3D contouring resulted in a dense network of plume concentrations that were all assigned to the mid-points of GMS grid cells that were developed to be marginally smaller than the grid cells used in the existing Groundwater Vistas flow model. These contoured contaminant concentrations were interpolated over the footprint of the plumes/lobes to the outermost concentration contour, and were then ultimately exported as a set of points (x, y, z and c) for import to the Groundwater Vistas modeling package.

Import to Groundwater Vistas Simulation

Grid centered points (x, y, z and c) exported from the GMS groundwater modeling software were imported to Groundwater Vistas to provide the starting perchlorate and RDX concentrations to the model for simulation using MODFLOW-Surfact. The Groundwater Vistas model was then used to simulate perchlorate and RDX concentrations throughout the model domain for a period extending from the respective plume shell dates forward 75 years with the exception of Alternative 7 (10 Year scenario) which was ran for 50 years, under a variety of alternative cleanup conditions. The perchlorate and RDX plume shell for Demo 1 represents starting conditions as of 31 March 2013.

Comparison with Measured Concentrations and Calibration

The reliability of the newly developed plume shells was evaluated by comparing recently measured and predicted perchlorate and RDX concentrations at respective extraction wells. This comparison was completed as a means of averaging out all of the measured and often contradictory perchlorate and RDX concentrations and to account for elevated concentrations in areas without direct measurements. The extraction well concentrations represent an average of all incoming contaminant diluted by the groundwater extraction rate. While these concentrations cannot directly be used to determine the reliability of point-by-point concentrations within the plume, they can be used to quantify whether the concentrations in the immediate vicinity of the extraction wells are reliable. This approach was taken because the distributed sources and the episodic nature of contaminant releases had produced a very heterogeneous sequence of intermingled plumes rather than a larger cohesive plume. Given the relatively small number of in-plume wells in the monitoring network, the general distribution of contamination is far better understood than the magnitude of contamination. Furthermore, it is presumed that if the concentrations in the immediate vicinity of the extraction wells are reliable, then the concentrations within the other measured portions of the plume are also reliable. This is believed to be true whether or not the point-by-point concentrations are in close agreement; particularly, since there are relatively few points within the plumes to compare.

If concentrations in the immediate vicinity of the extraction well were predicted to be either too high or low, it was assumed that this over or under prediction is consistent throughout the remainder of the measured plume. Thus, it follows that, as a conservative approximation, plume shell concentrations can be calibrated by uniformly adjusting concentrations either higher or lower, as the case may be, to bring measured and predicted concentrations at the extraction wells into close agreement and to better approximate the total mass of contaminant represented by the plume shell. This calibration step was not necessary for either the perchlorate or RDX plume shells developed, although the model did slightly under-estimate the influent concentration at the Pew Road extraction well. However, given the sparseness of the network downgradient of Frank Perkins Road to Pew Road, determining how far upgradient to increase the control contours were not feasible. As such, it was determined for the purpose of this exercise, the influent concentration was sufficiently close for decision making purposes. Although it is understood that total mass coming from this extraction well D1-EW-2 will likely be under-estimated.

Results

Historical water quality data was used to develop updated perchlorate and RDX plume shells at the Demo 1 site for use in simulating groundwater cleanup options. The updated/calibrated groundwater flow model for the site was used to spatially and temporally migrate historical concentrations forward to facilitate the development of concentration contours that were ultimately used to develop the respective three-dimensional plume shells. Measured concentration data from the extraction wells (D1-EW-1, D1-WE-2, D1-EW-3, D1-EW-501, D1-EW-502, and D1-EW-503) were compared with predicted concentrations to determine the reliability of the plume shell at representing concentrations within the model domain.

Perchlorate

At this juncture, the Demo 1 perchlorate plume is segmented into several lobes/plumes as a result of groundwater extraction occurring since September 2004. There are segments of perchlorate plumes 1) upgradient of Frank Perkins Road, 2) upgradient of Pew Road but downgradient of D1-EW-503, 3) downgradient of Pew Road to the Base Boundary and, 4) off-base (west of Route 28).

The predicted mass of the perchlorate in the plume shell is determined to be approximately 22.5 lbs at a concentration greater than 0.35 µg/L and 12 lbs at a concentration greater than 2 µg/L. The uppermost elevation of the perchlorate plume is approximately 55 feet msl just downgradient of the source area and the lowest elevation is approximately -135 feet msl off-base. Predicted extraction well perchlorate concentrations at the Demo 1 site indicates that the plume shell was able to reliably replicate measured concentrations collected since the plume shell was developed at the extraction wells and in monitoring wells sampled after the plume shell was developed (MW-569M1/M2, MW-571M1/M2, and MW-582M1/M2). No further calibration of the plume shell was required.

Figure: Plan View of Perchlorate Plume Contours

Figure: Layer-by-Layer Migrated Perchlorate Data

Figure: Comparison of Measured Versus Measured Post Plume-Shell Development

Table: Migrated Data Points

RDX

At this juncture, the Demo 1 RDX plume is segmented into several lobes/plumes as a result of groundwater extraction occurring since September 2004. The principal plumes/lobes are: 1) a segment that extends from the source to the first upgradient extraction well D1-EW-501, 2) downgradient of Pew Road and the Base Boundary, and 3) off-base (west of Route 28).

The predicted mass of the RDX in the plume shell is determined to be 3 lbs at a concentration greater than 0.25 µg/L and 1.5 lbs at a concentration greater than 0.6 µg/L. The uppermost elevation of the RDX plume is approximately 65 feet msl just at the source area and the lowest elevation is approximately -105 feet msl off-base.

Predicted extraction well RDX concentrations at the Demo 1 plume indicated that the plume shell was able to reliably replicate measured concentrations and no calibration of the plume shell was required.

Figure: Plan View of RDX Plume

Figure: Layer-by-Layer Migrated RDX Data

Figure: RDX Extraction Well Comparisons

Table: Migrated Data points

Development of Cleanup Alternatives

Seven simulations were developed for each plume shell to provide information necessary to evaluate and select a reliable, cost-effective cleanup alternative. The primary difference from one simulation to the next was the extraction rates at the existing wells and proposed wells to achieve faster clean-up times and greater mass removal. The following alternatives were simulated and results summarized in a comparison table. Perchlorate and RDX animations are also included on compact disk for review.

- Alternative 1 - Existing extraction well rates for Frank Perkins Road (FPR) (500 gpm), Pew Road (100 gpm) and Base Boundary (65 gpm).

- Alternative 2 - Existing extraction well rates for Pew Road (100 gpm) and Base Boundary (65 gpm) and FPR simulated at 400 gpm (with D1-EW-503 shut-off after 1 April 2014).

- Alternative 3 - Existing extraction well rates for Frank Perkins Road (FPR) (500 gpm), Pew Road (100 gpm) and Base Boundary (65 gpm) and one off-base extraction well upgradient of Lily Pond pumping at 100 gpm.

- Alternative 4 - Existing extraction well rates for Frank Perkins Road (FPR) (500 gpm), Pew Road (100 gpm) and Base Boundary (65 gpm) and two off-base extraction wells (one upgradient of Lily Pond and one downgradient of Lily Pond) Pumping at 100 gpm each.

- Alternative 5 - Existing extraction well rates for Frank Perkins Road (FPR) (500 gpm), Pew Road (100 gpm), Base Boundary (65 gpm) and one extraction well mid-way between MW-532 and the Base Boundary (80 gpm). The two off-base extraction wells (one upgradient of Lily Pond) and one downgradient of Lily Pond will be simulated at 100 gpm each.

- Alternative 6A - Existing extraction well rates for Pew Road (100 gpm) and Base Boundary (65 gpm) and FPR simulated at 400 gpm (with D1-EW-503 shut-off as of 1 April 2014). This analysis will also include an additional extraction well downgradient of

MW-31M (75 gpm). This wells purpose is to reduce the time-frame for RDX to reach D1-EW-501.

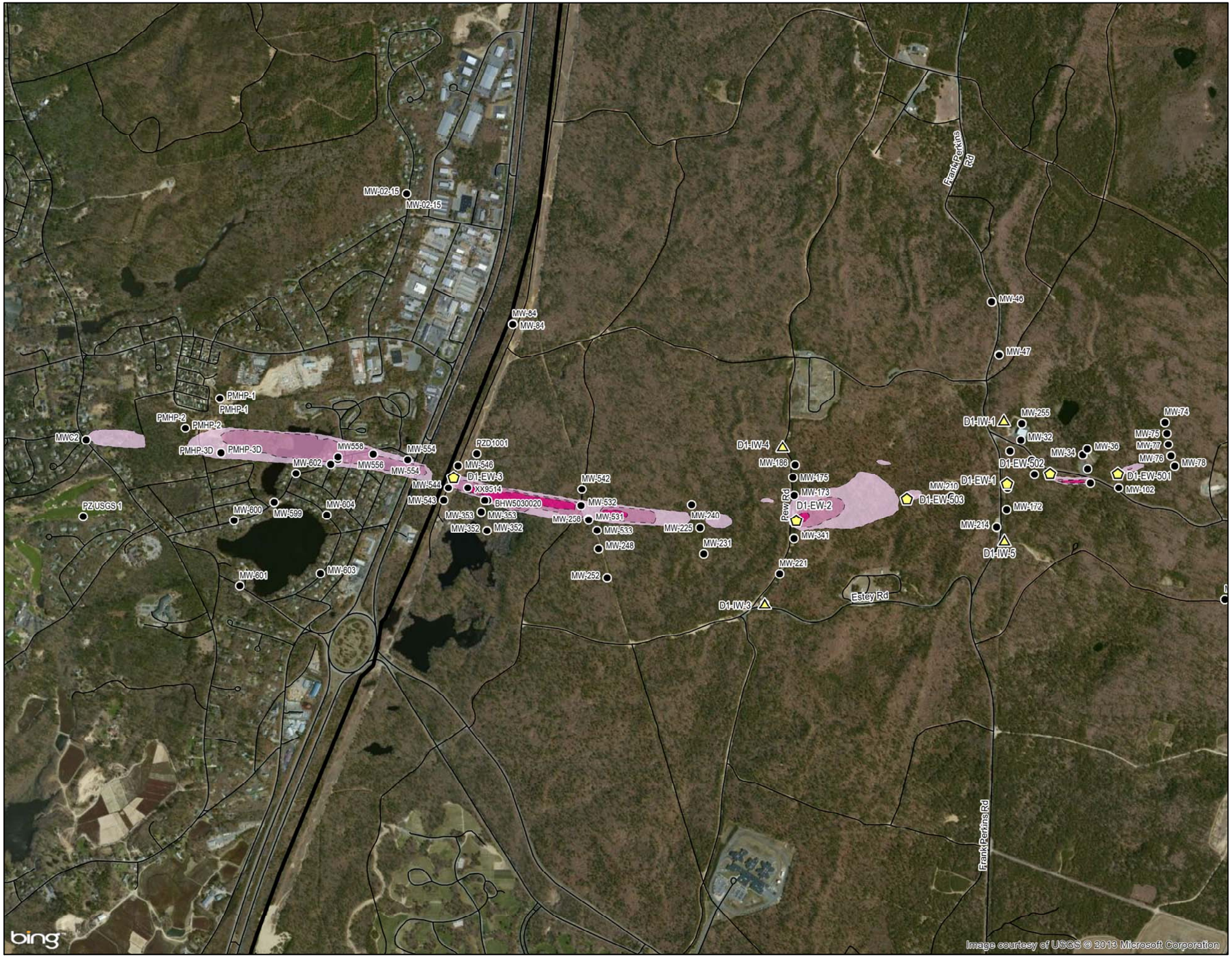
- Alternative 7 – If the aforementioned analyses do not cleanup the on-base portion of the plume within 10 years of the Decision Document, an additional analysis will be added that covers this alternative. This alternative would be designed to achieve Decision Document cleanup dates for perchlorate and RDX.

The previously described perchlorate and RDX plume shells were applied by initiating simulations starting on 1 April 2013 and ran forward for 75 years for Alternatives 1 through 6A, and 50 years for Alternative 7.

Conclusions

The plume shell development process presented in this appendix is considered to be a reliable means of determining the lateral and vertical extents, and to a lesser extent the magnitude of concentrations, throughout the respective plumes. The recalibrated flow model was used to forward-migrate the existing perchlorate and RDX data through the aquifers has been shown to effectively predict average hydraulic conditions and the process of migrating historic perchlorate and RDX data to facilitate a layer-by-layer contouring of data made the best use of existing information. While the plume-wide distribution of profile and monitoring well data tends to better define the extent of contamination, rather than the magnitude of contamination, the plume shells developed and presented here are considered to be reasonable depictions of the respective plumes and are believed to be suitable for use in evaluating cleanup alternatives.

Figures



Impact Area Groundwater Study Program

LEGEND

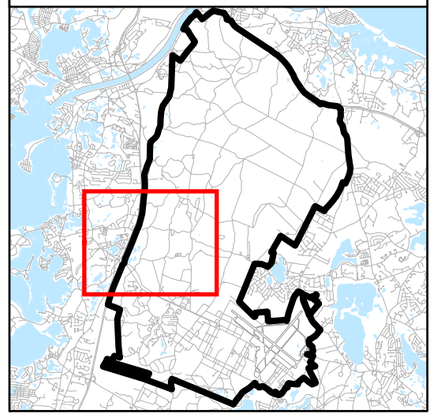
- Extraction Well
- Injection Well
- Monitoring Well

Perchlorate in Groundwater

- 2 to 6 ppb
- 6 to 15 ppb
- 15 to 200 ppb

Note: Groundwater data through March 2013.
Contour lines dashed where inferred.

LOCATION MAP



NOTES & SOURCES

Basemap data from US Geological Survey 7 1/2 minute Topographic Maps. Source: MassGIS
Aerial Photos: Color Digital Orthophotos:
Date Flown: 2002 Source: EarthData International

TITLE

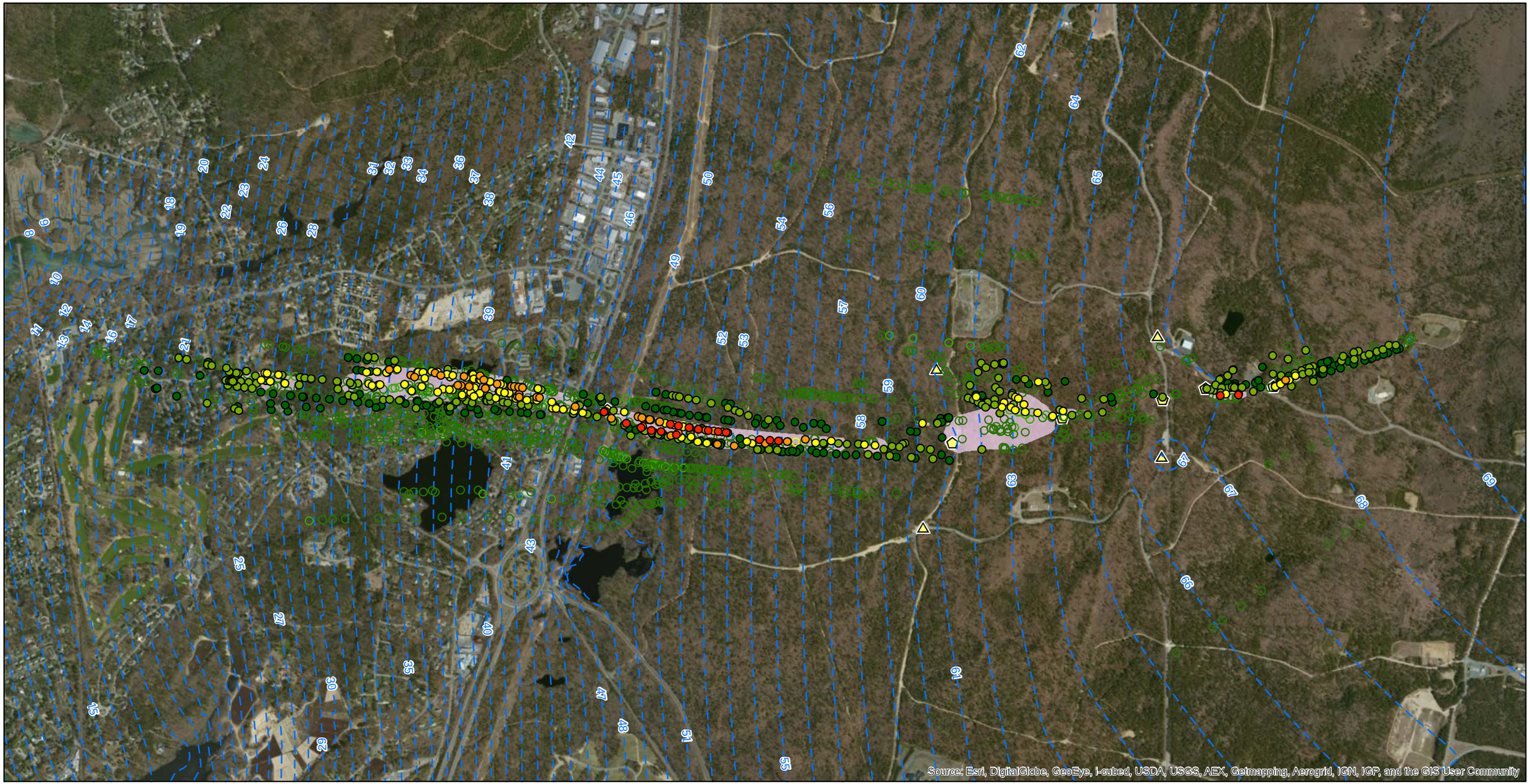
Perchlorate Plume
Demo 1 Groundwater Operable Unit

0 1,250
Feet

N

US Army Corps of Engineers
New England District

M:\MMR\2013\Demo1\TechMemo\Figures\FigA1_051713.pdf
M:\MMR\2013\Demo1\TechMemo\MXDs\FigA1_051713.mxd
May 17, 2013 DWN: MTW CHKD: MRK



Perc Points Used
CONC
- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

Perc Points Deleted
CONC
- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

US Army Corps of Engineers

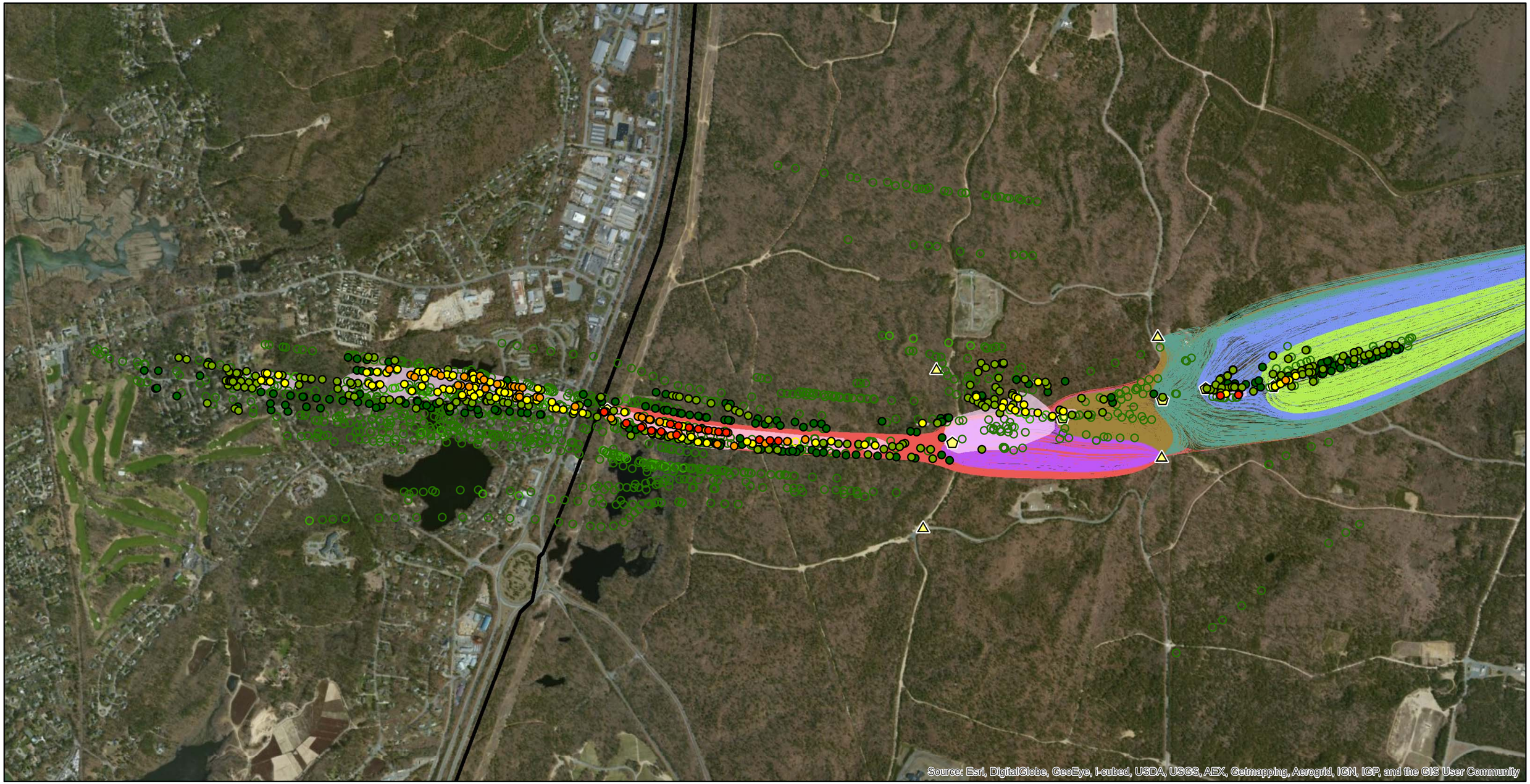
N

0 1,250 2,500
Feet

Demolition Area 1 2013
Perchlorate Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: +55 to -135 feet msl



Perc Points Used

CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

Perc Points Deleted

CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

Capture Zones

- D1-EW-1
- D1-EW-2
- D1-EW-3
- D1-EW-501
- D1-EW-502
- D1-EW-503

US Army Corps of Engineers

N

0 1,250 2,500 Feet

Demolition Area 1 2013
Perchlorate Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: +55 to -135 feet msl

Perc Points Used
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

Perc Points Deleted
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

US Army Corps of Engineers

N

0 1,250 2,500
Feet

Demolition Area 1 2013
Perchlorate Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: 70 to 60 feet msl

Perc Points Used
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

Perc Points Deleted
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

US Army Corps of Engineers

N

0 1,250 2,500
Feet

Demolition Area 1 2013
Perchlorate Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: 60 to 50 feet msl

Perc Points Used
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

Perc Points Deleted
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

US Army Corps of Engineers

N

0 1,250 2,500
Feet

Demolition Area 1 2013
Perchlorate Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: 50 to 40 feet msl

Perc Points Used CONC		Perc Points Deleted CONC	
●	0.0 - 0.35	○	0.0 - 0.35
●	0.35 - 2.00	○	0.35 - 2.00
●	2.00 - 6.00	○	2.00 - 6.00
●	6.00 - 15.00	○	6.00 - 15.00
●	15.00 - 100.00	○	15.00 - 100.00

US Army Corps of Engineers

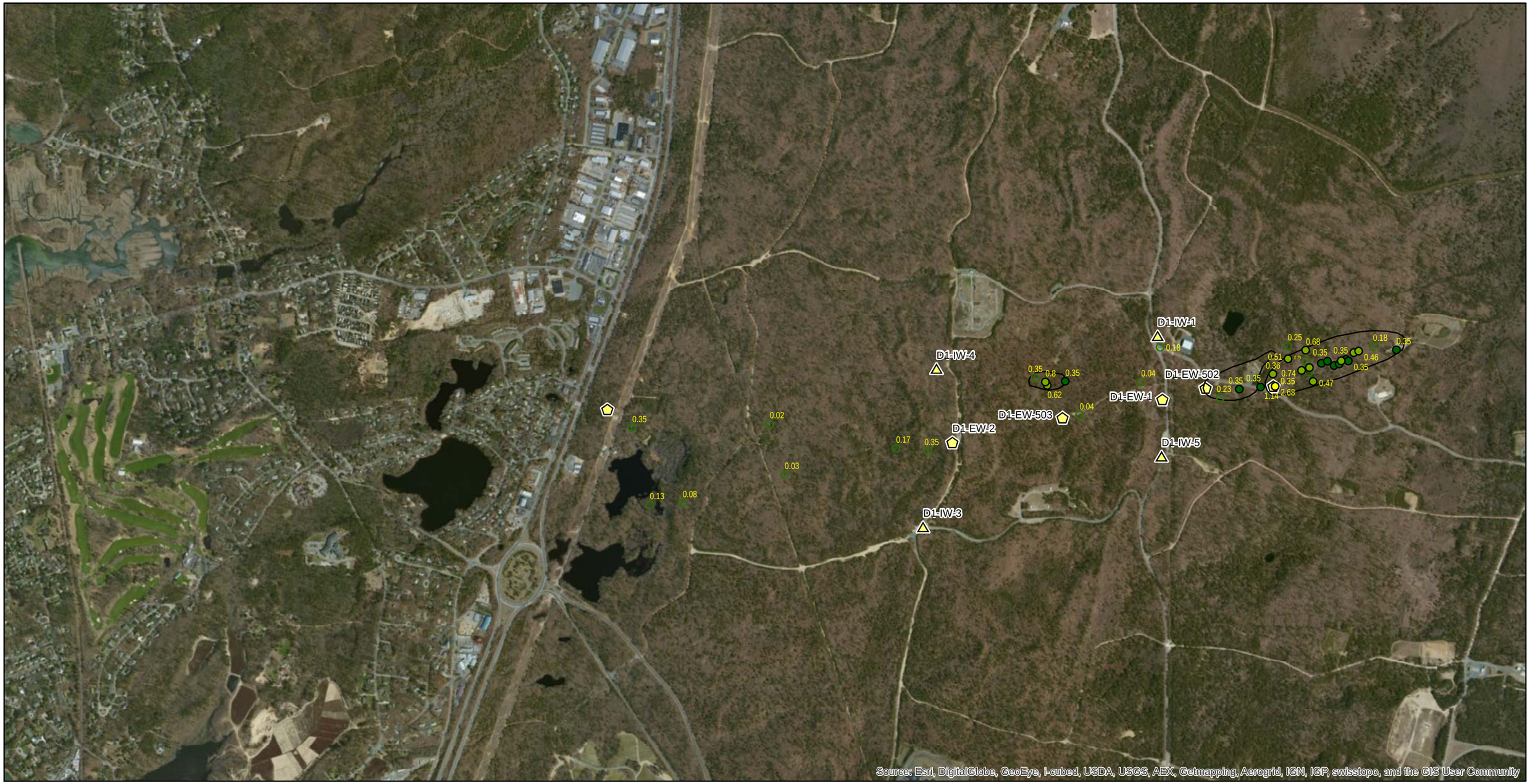
N

0 1,250 2,500 Feet

Demolition Area 1 2013
Perchlorate Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: 40 to 30 feet msl



Perc Points Used
CONC

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- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

Perc Points Deleted
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

US Army Corps of Engineers

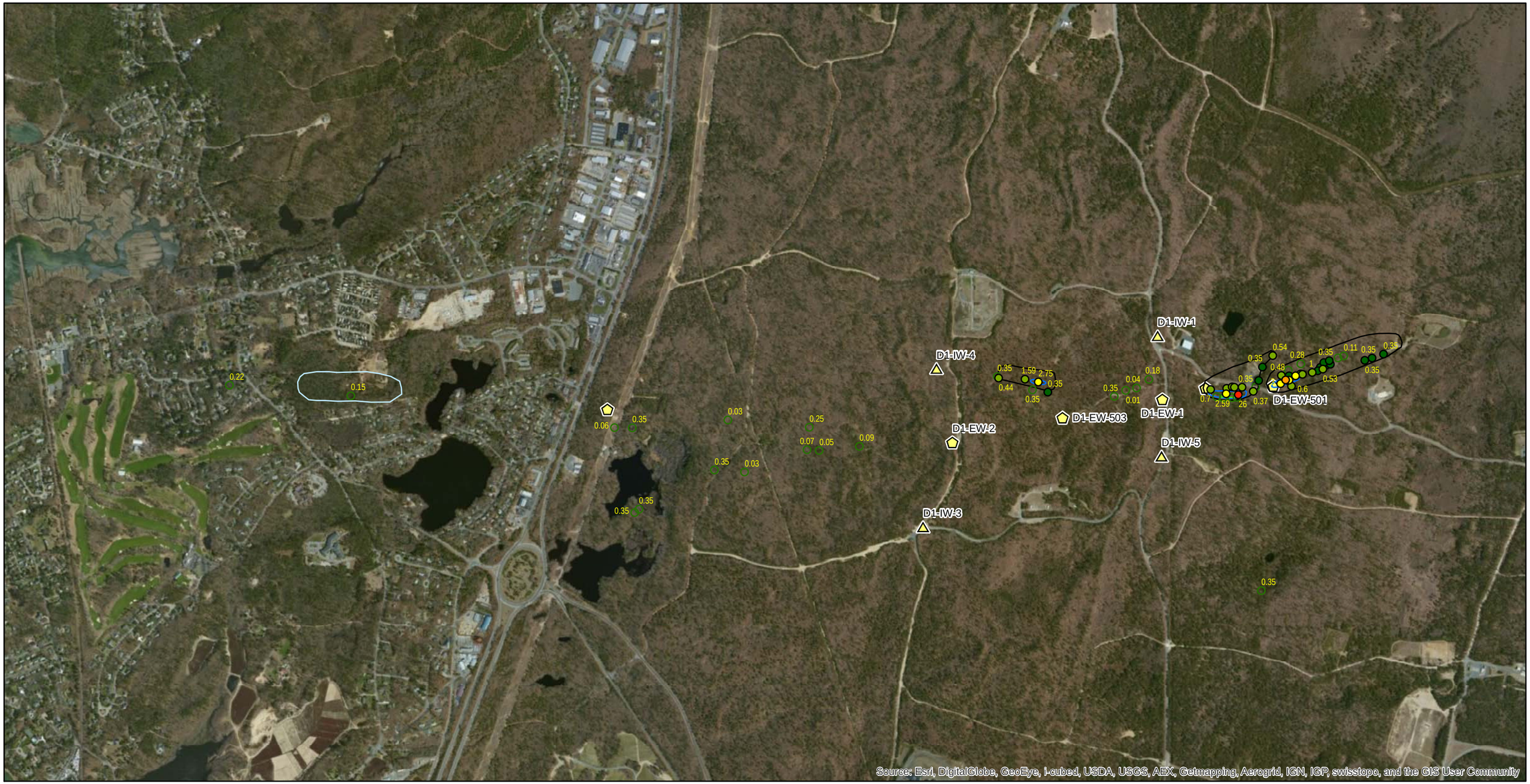
N

0 1,250 2,500
Feet

Demolition Area 1 2013
Perchlorate Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: 30 to 20 feet msl



Perc Points Used

CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

Perc Points Deleted

CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

US Army Corps of Engineers

N

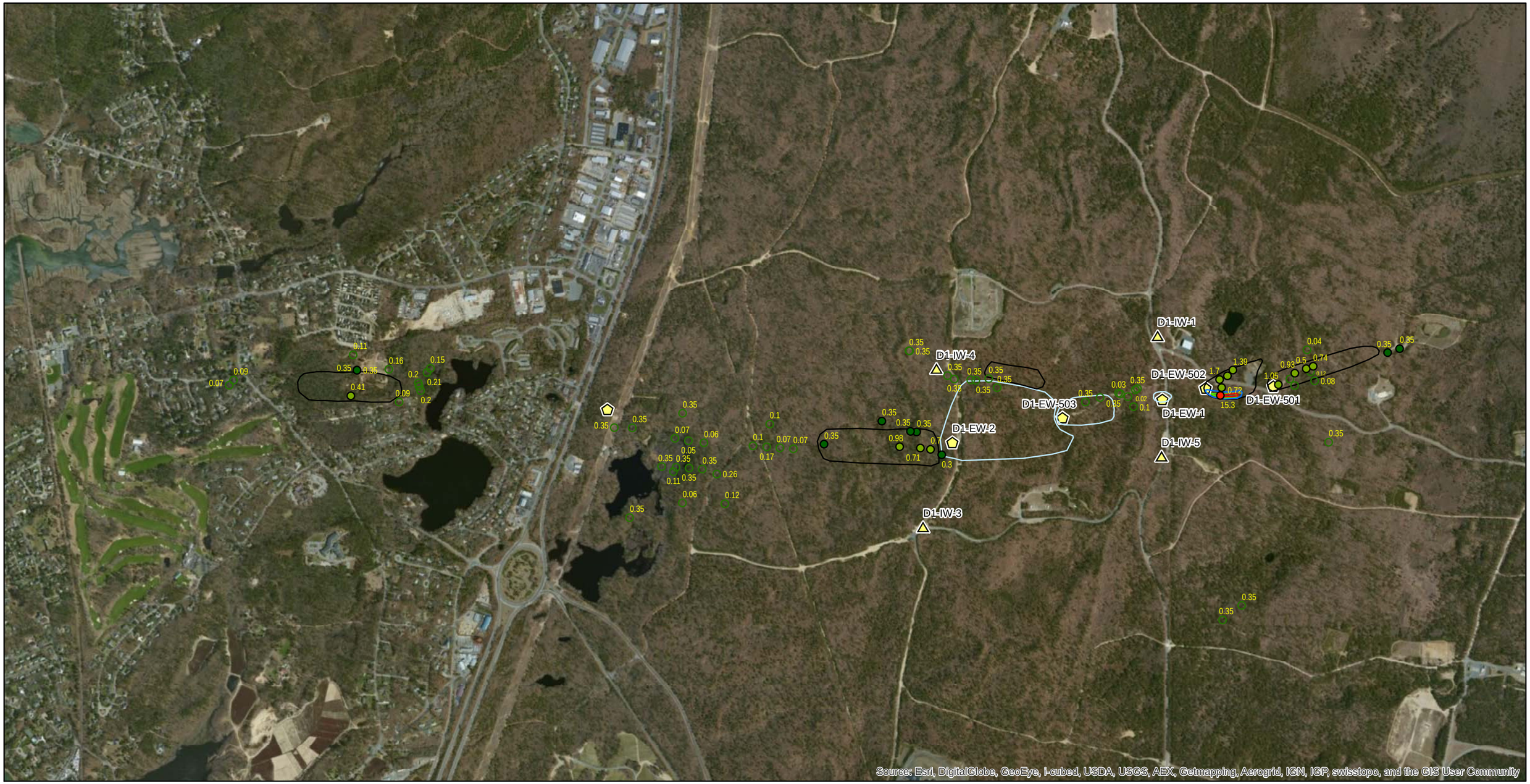
0 1,250 2,500

Feet

Demolition Area 1 2013
Perchlorate Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: 20 to 10 feet msl



Perc Points Used
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

Perc Points Deleted
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

US Army Corps of Engineers

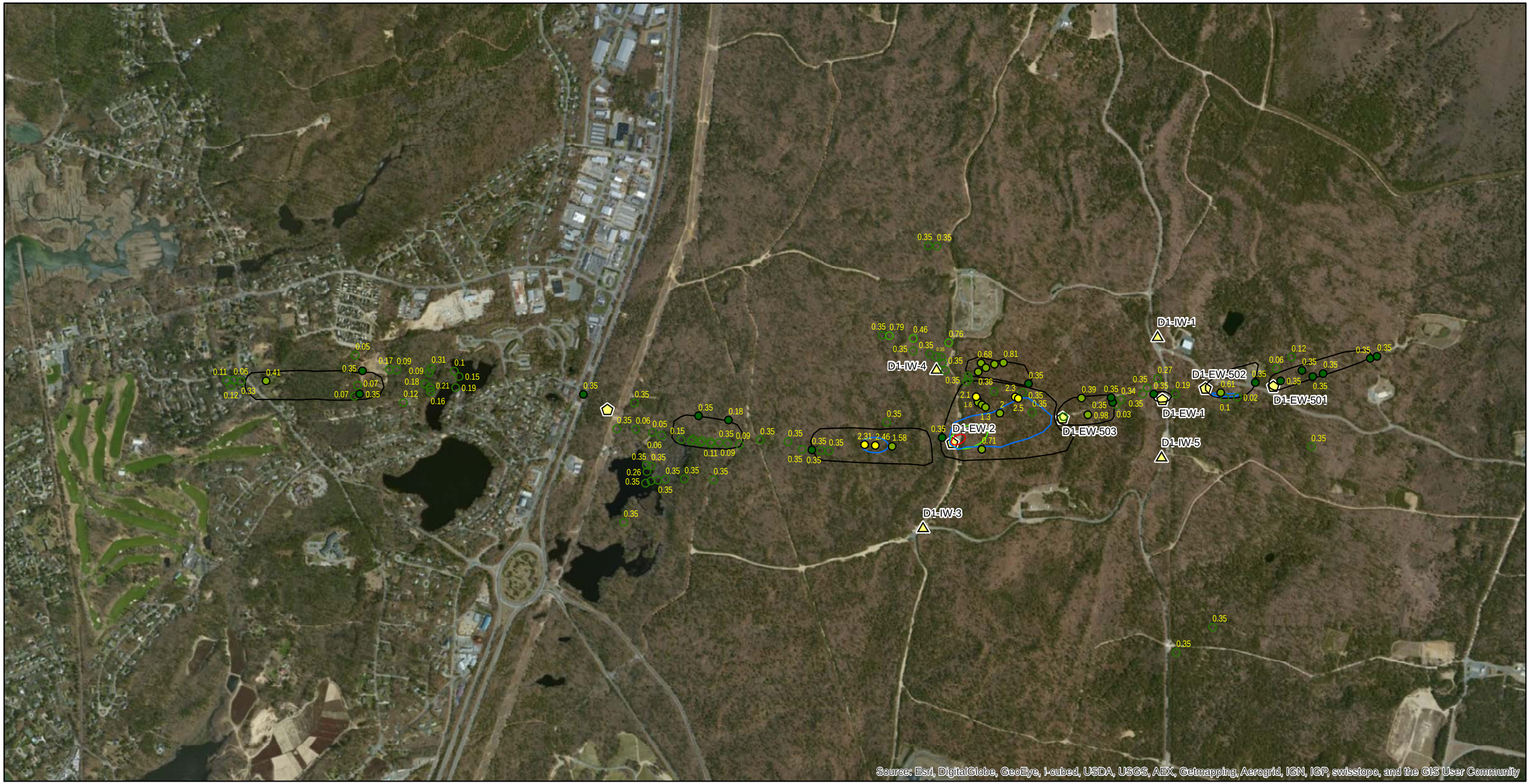
N

0 1,250 2,500
Feet

Demolition Area 1 2013
Perchlorate Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: 10 to 0 feet msl



Perc Points Used
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

Perc Points Deleted
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

US Army Corps of Engineers

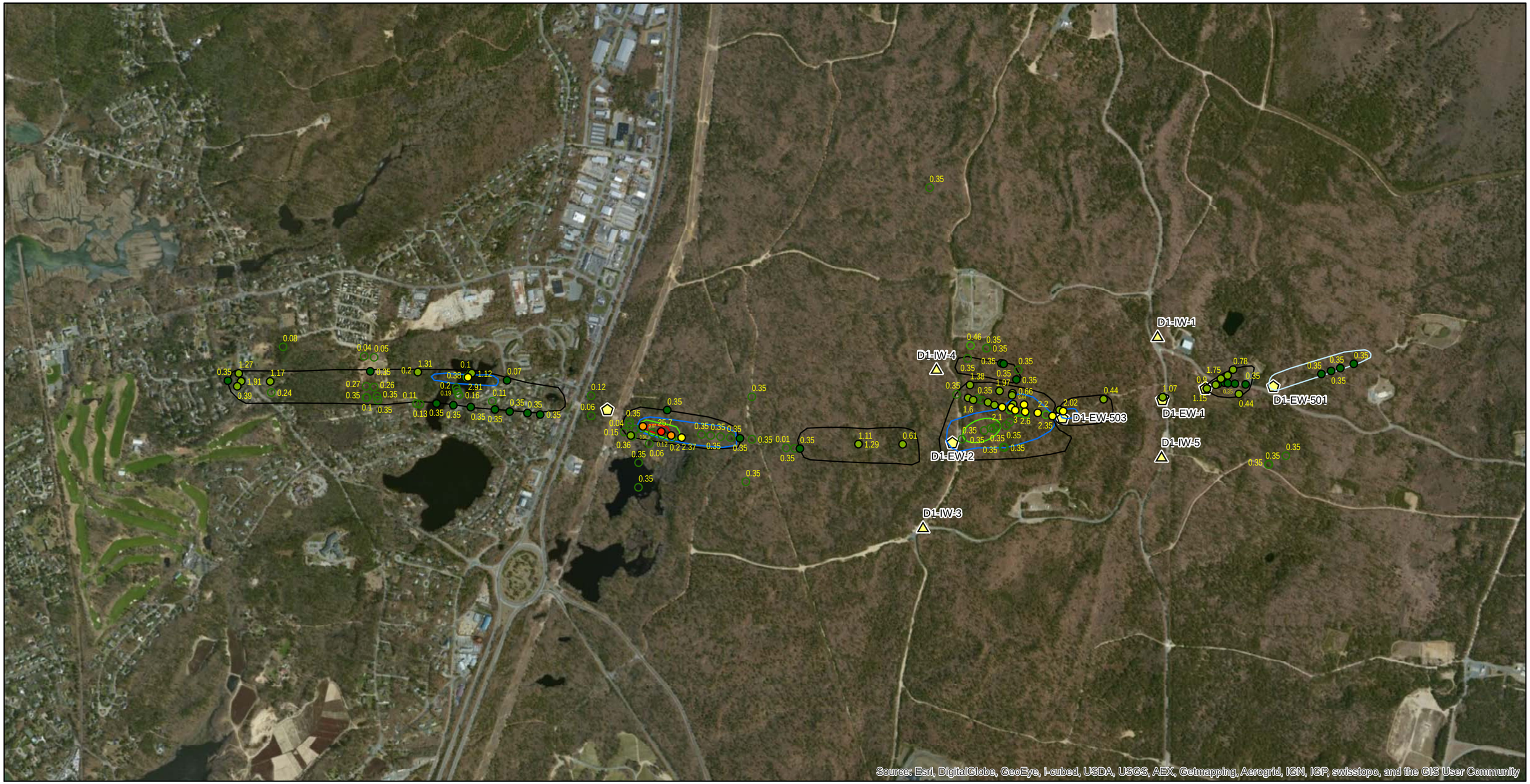
N

0 1,250 2,500
Feet

Demolition Area 1 2013
Perchlorate Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: 0 to -10 feet msl



Perc Points Used
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

Perc Points Deleted
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

US Army Corps of Engineers

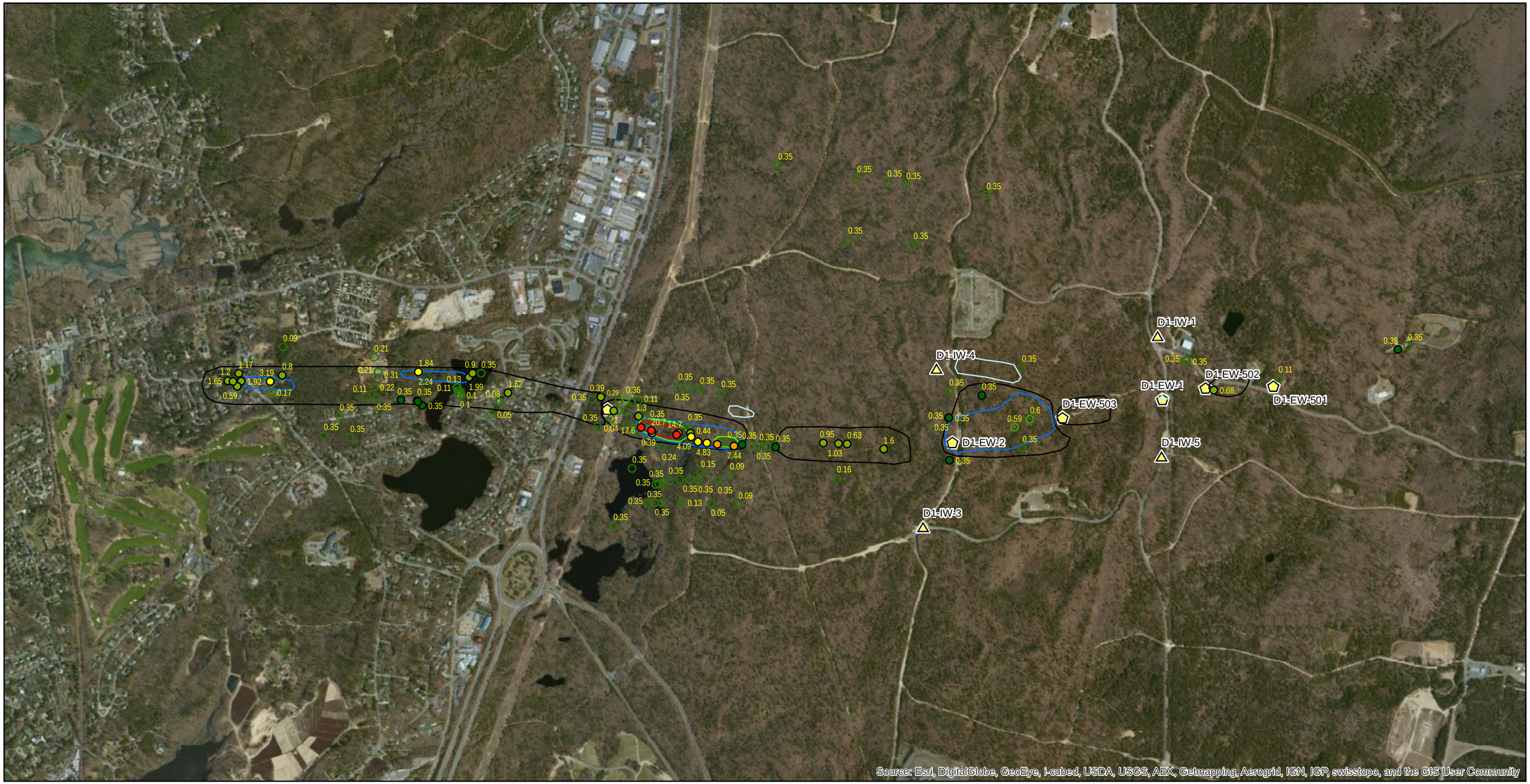
N

0 1,250 2,500
Feet

Demolition Area 1 2013
Perchlorate Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: -10 to -20 feet msl



Perc Points Used
CONC

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- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

Perc Points Deleted
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

US Army Corps of Engineers

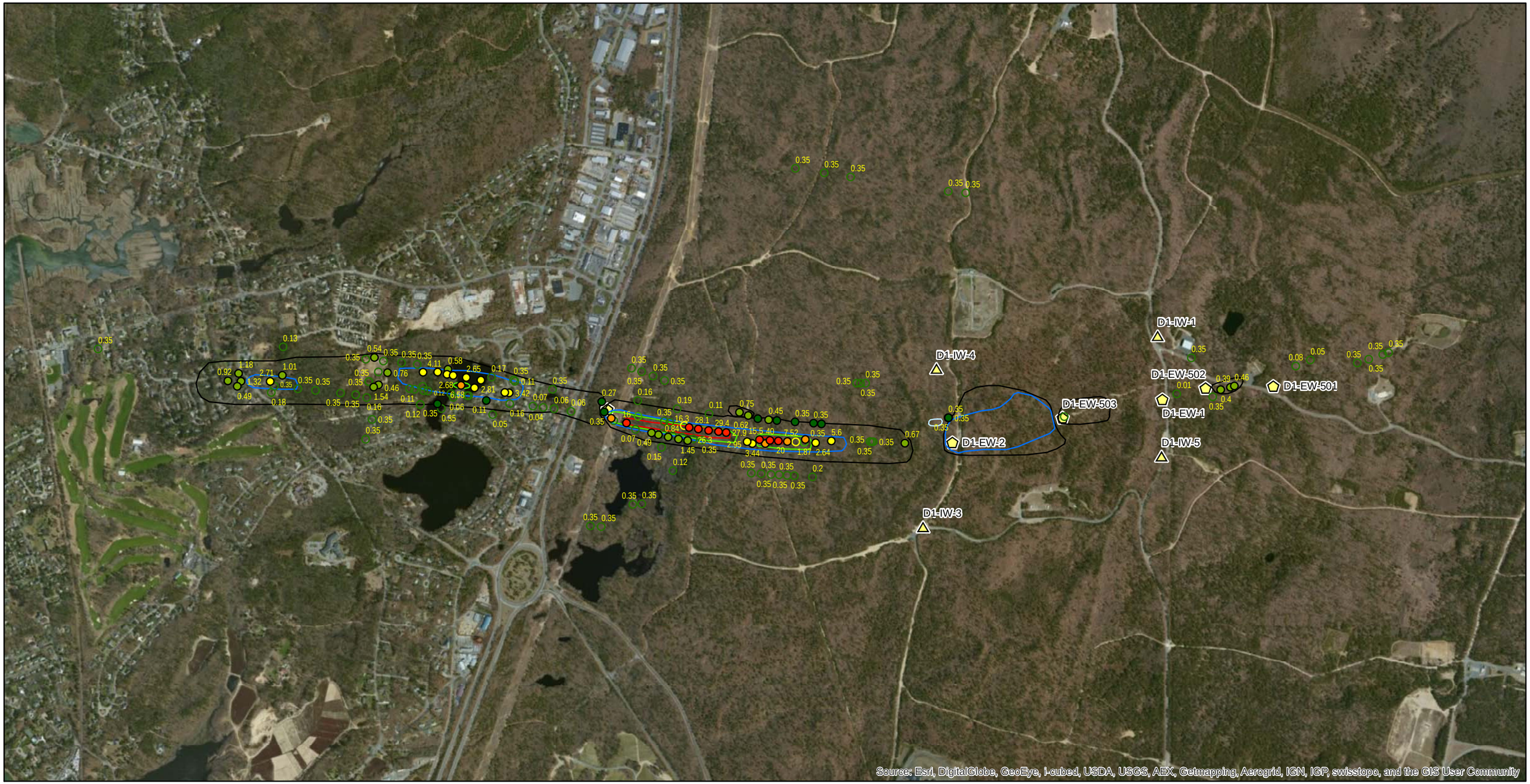
N

0 1,250 2,500
Feet

Demolition Area 1 2013
Perchlorate Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: -20 to -30 feet msl



Perc Points Used
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

Perc Points Deleted
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

US Army Corps of Engineers

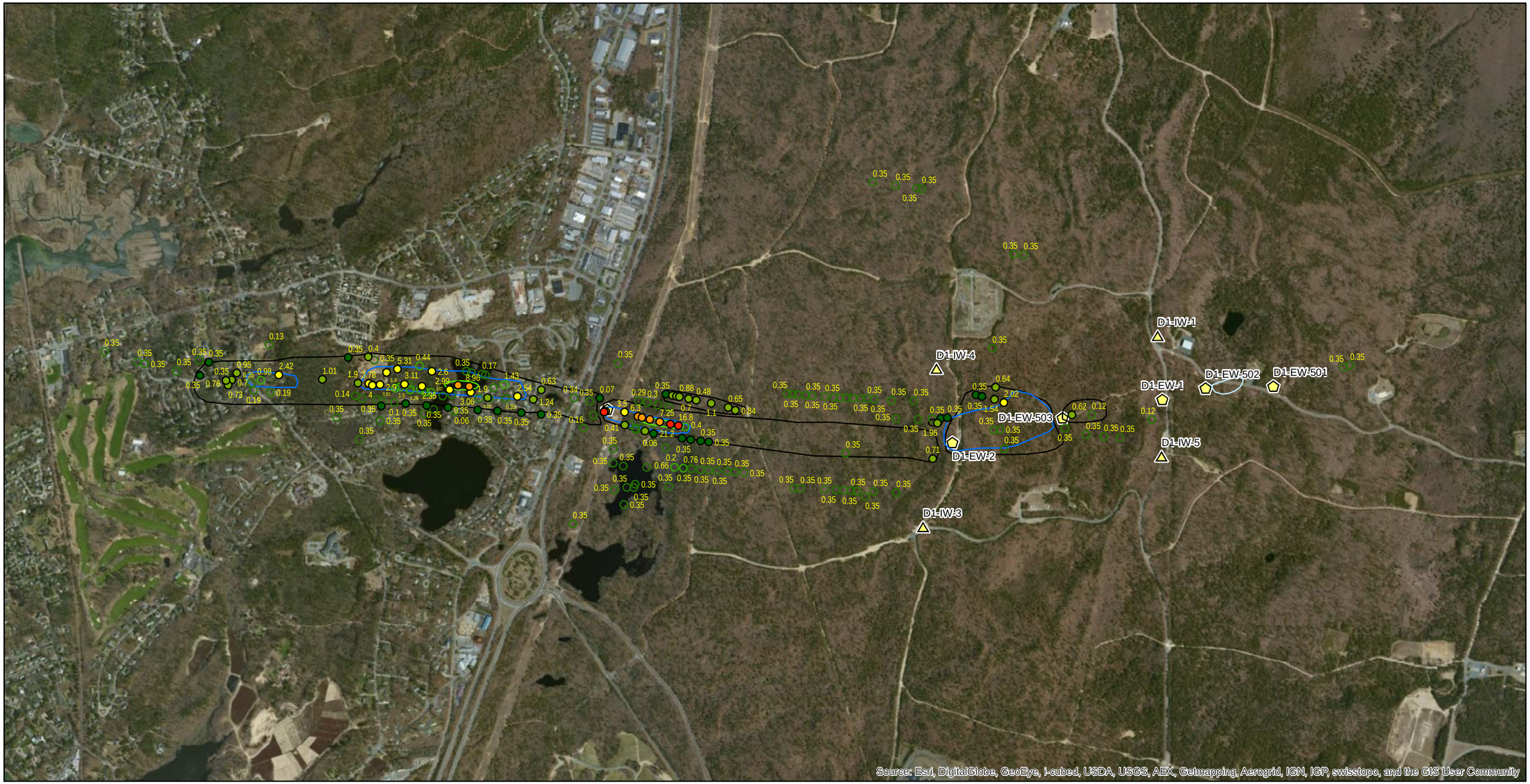
N

0 1,250 2,500
Feet

Demolition Area 1 2013 Perchlorate Plume Shell

Migrated Concentration Data and Associated Contours

Elevation Range: -30 to -40 feet msl



Perc Points Used
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

Perc Points Deleted
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

US Army Corps of Engineers

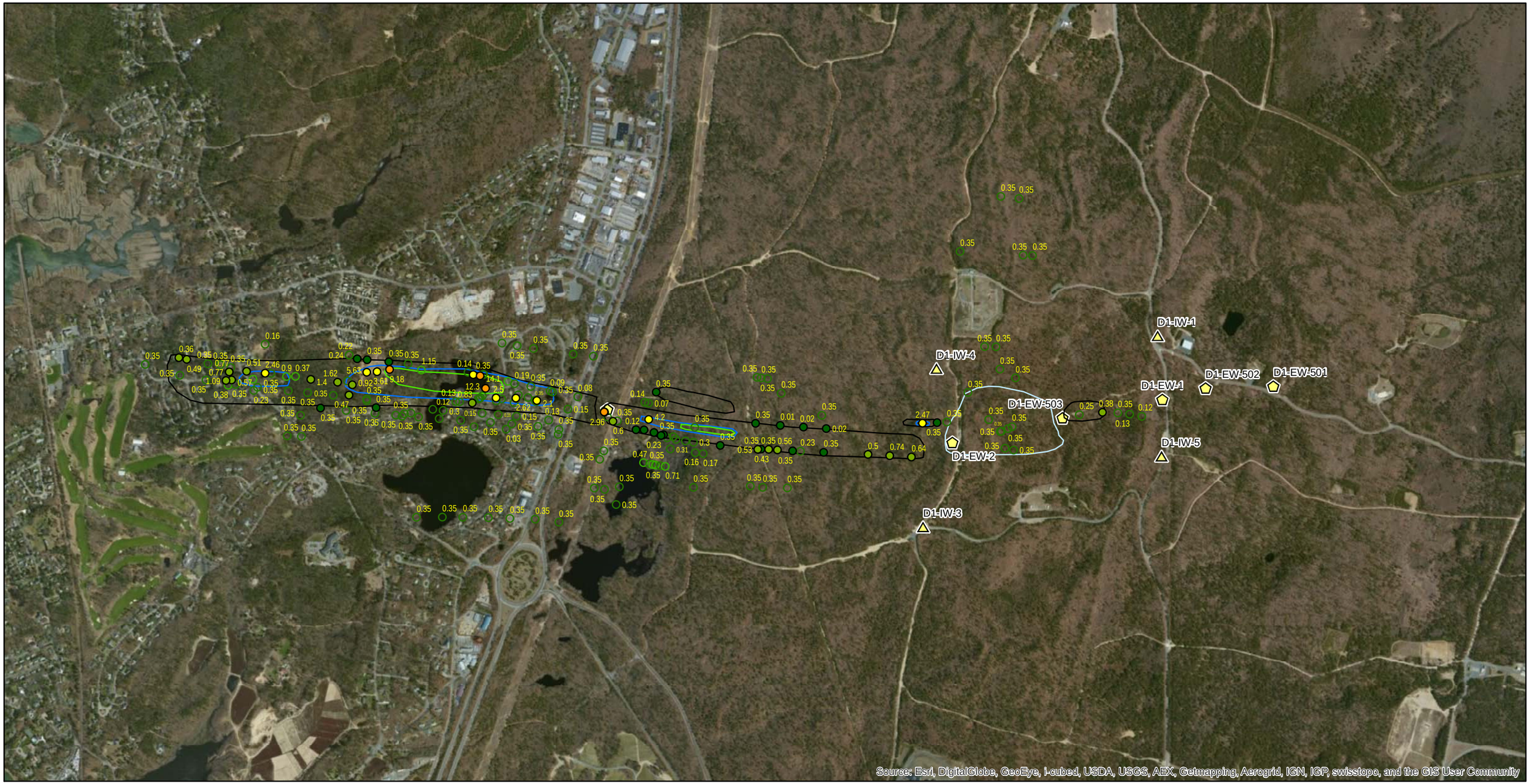
N

0 1,250 2,500
Feet

Demolition Area 1 2013
Perchlorate Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: -40 to -50 feet msl



Perc Points Used
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

Perc Points Deleted
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

US Army Corps of Engineers

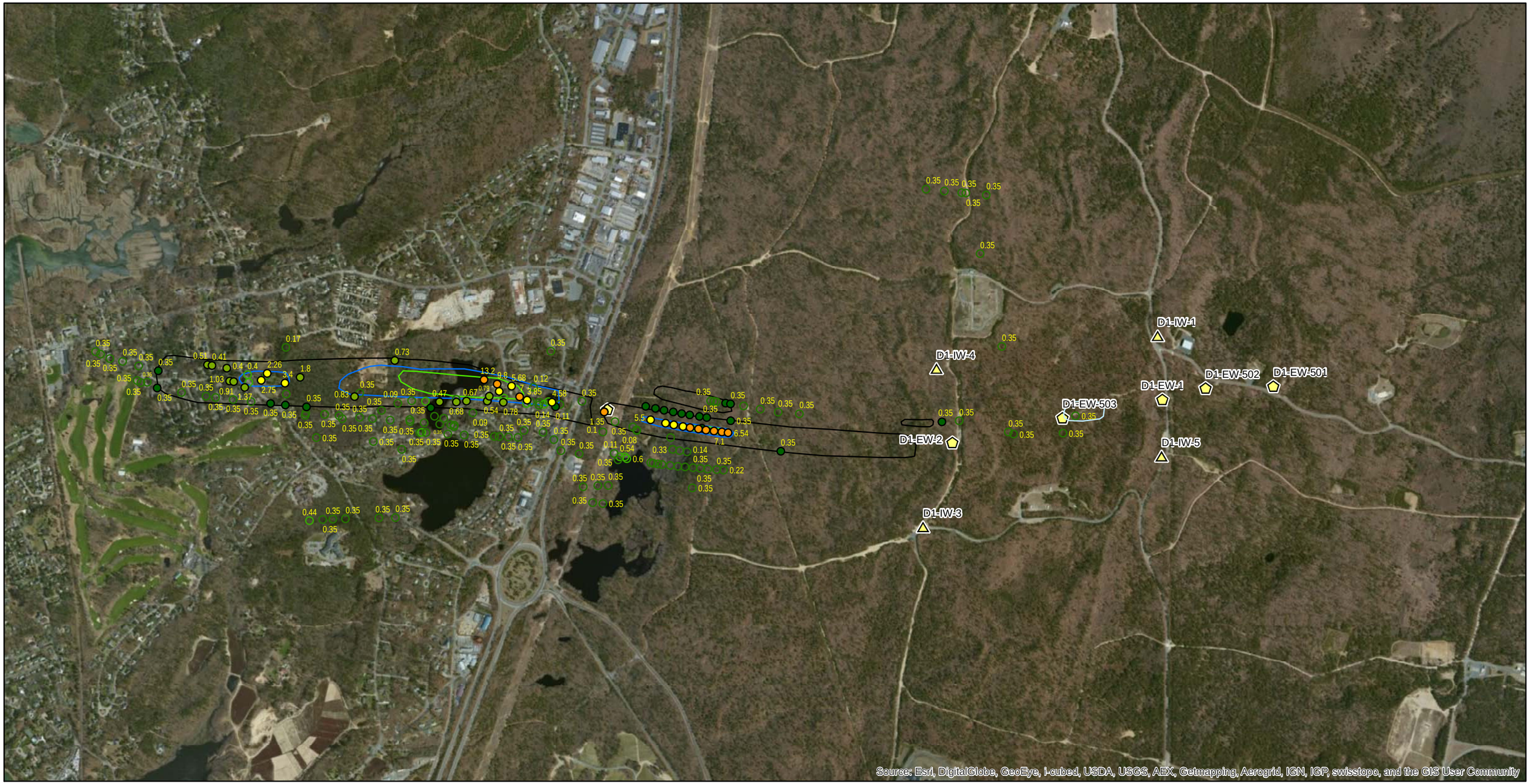
N

0 1,250 2,500
Feet

Demolition Area 1 2013
Perchlorate Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: -50 to -60 feet msl



Perc Points Used

CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

Perc Points Deleted

CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

US Army Corps of Engineers

N

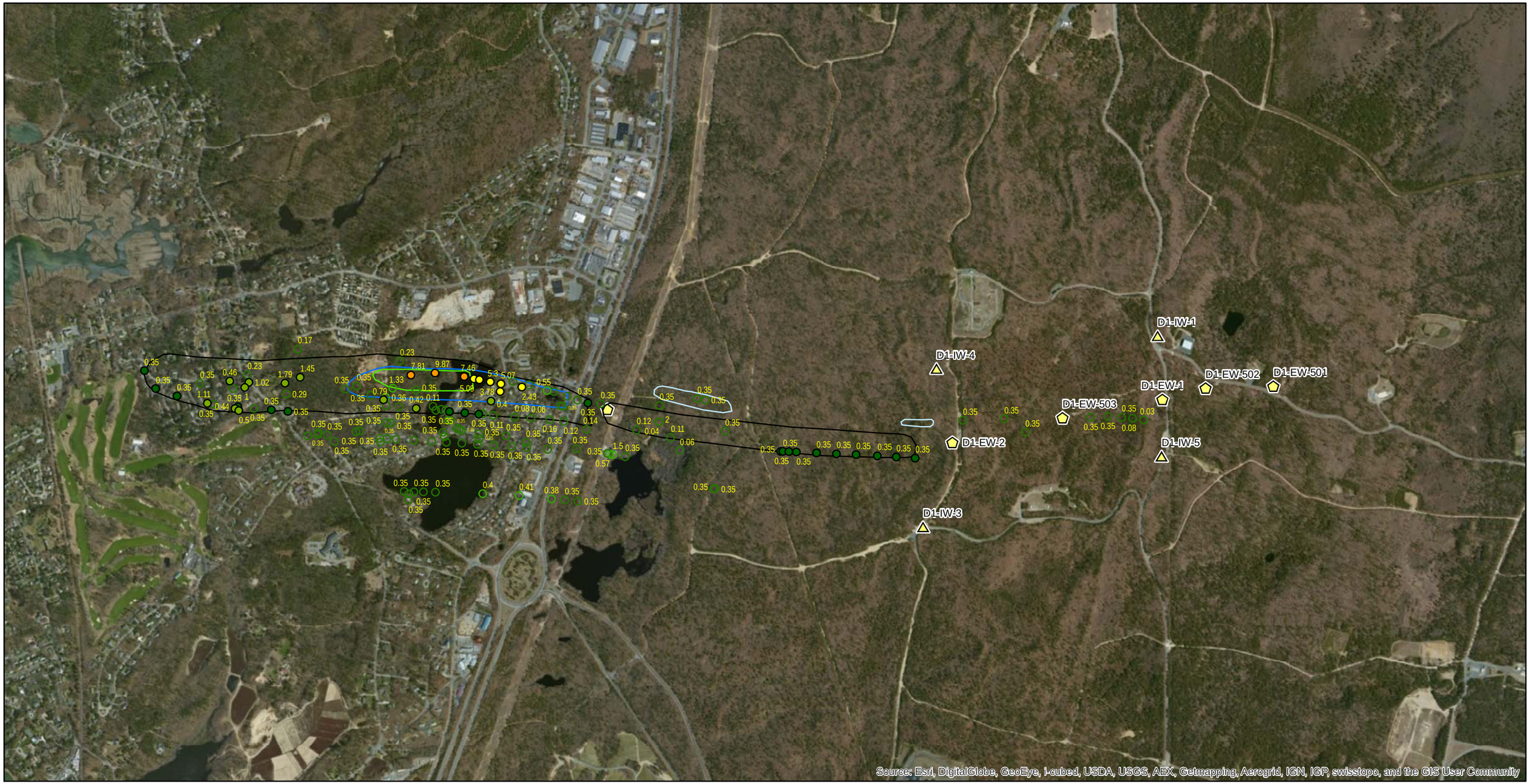
0 1,250 2,500

Feet

Demolition Area 1 2013
Perchlorate Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: -60 to -70 feet msl



Perc Points Used
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

Perc Points Deleted
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

US Army Corps of Engineers

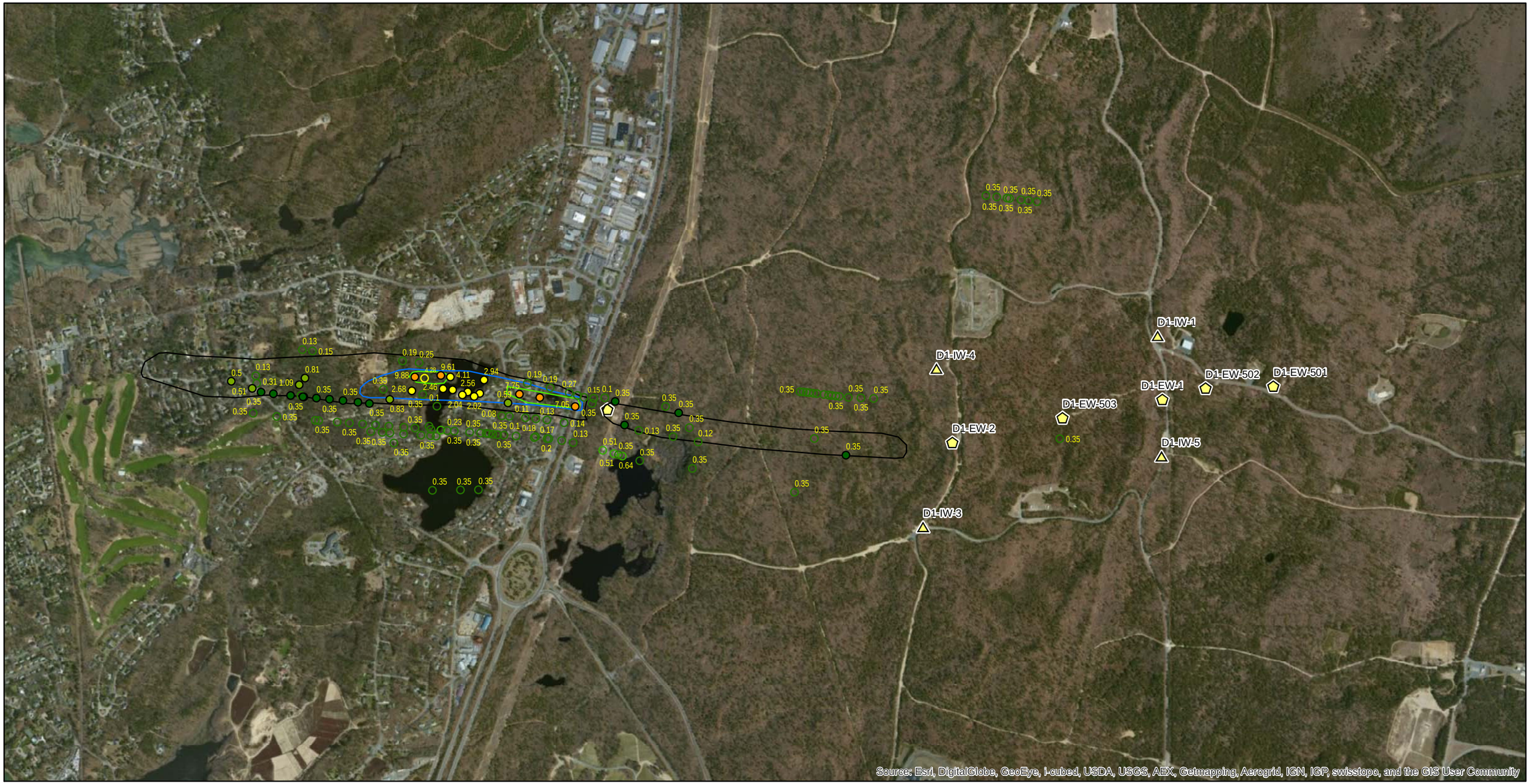
N

0 1,250 2,500
Feet

Demolition Area 1 2013
Perchlorate Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: -70 to -80 feet msl



Perc Points Used
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

Perc Points Deleted
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

US Army Corps of Engineers

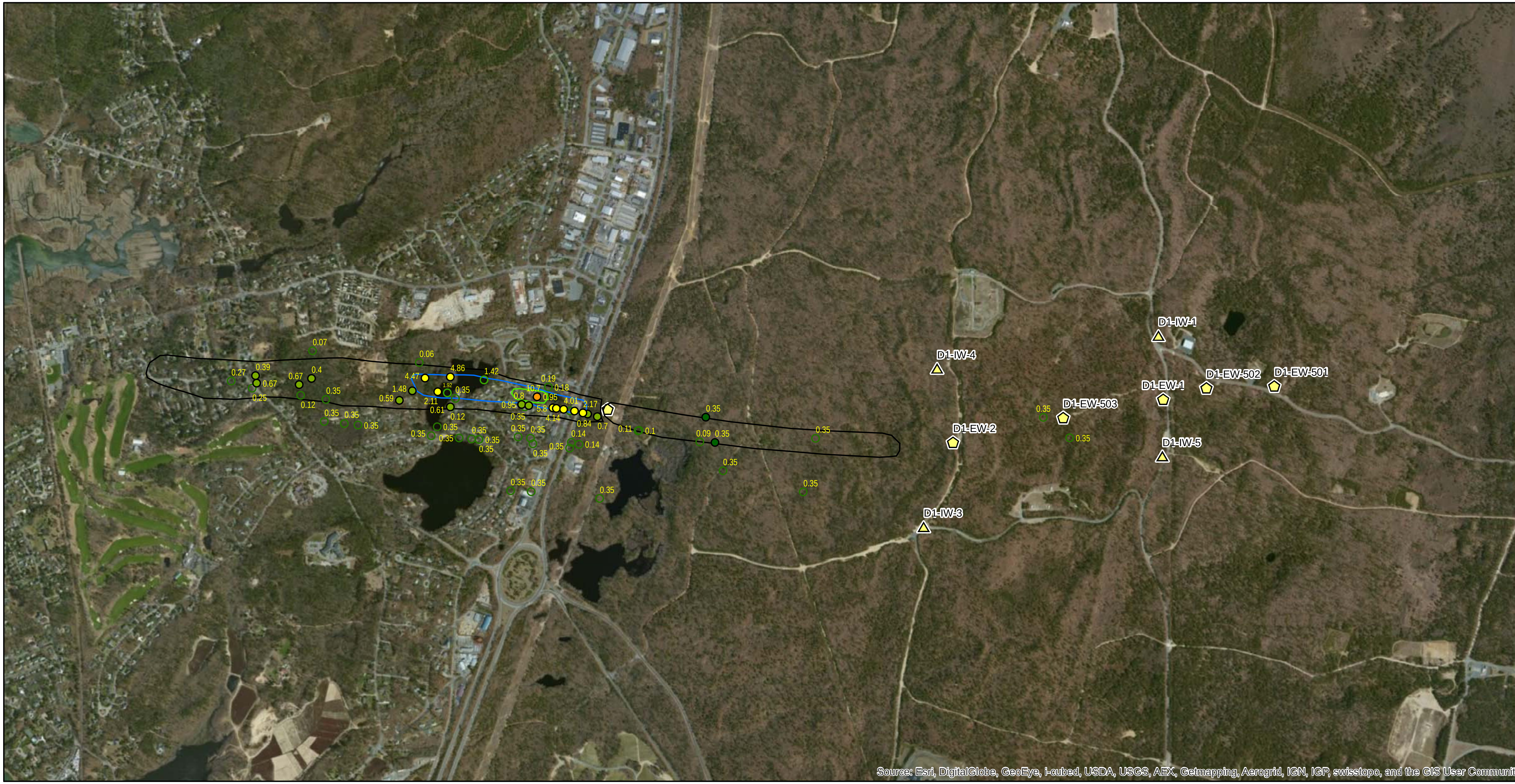
N

0 1,250 2,500
Feet

Demolition Area 1 2013
Perchlorate Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: -80 to -90 feet msl



Perc Points Used		Perc Points Deleted	
CONC		CONC	
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●	0.35 - 2.00	○	0.35 - 2.00
●	2.00 - 6.00	○	2.00 - 6.00
●	6.00 - 15.00	○	6.00 - 15.00
●	15.00 - 100.00	○	15.00 - 100.00

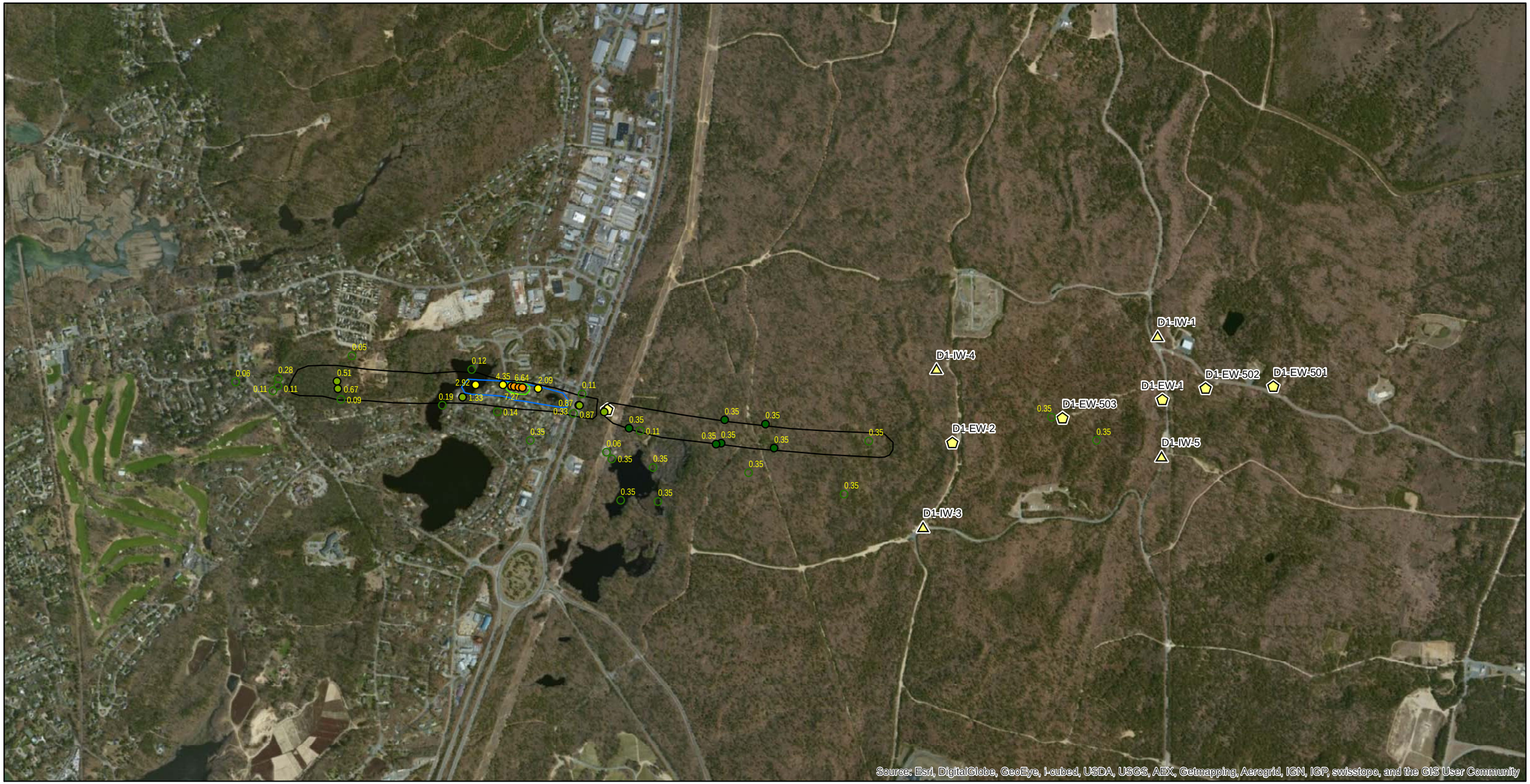
US Army Corps of Engineers.

0 1,250 2,500 Feet

Demolition Area 1 2013
Perchlorate Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: -90 to -100 feet msl



Perc Points Used CONC		Perc Points Deleted CONC	
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●	0.35 - 2.00	○	0.35 - 2.00
●	2.00 - 6.00	○	2.00 - 6.00
●	6.00 - 15.00	○	6.00 - 15.00
●	15.00 - 100.00	○	15.00 - 100.00

US Army Corps of Engineers

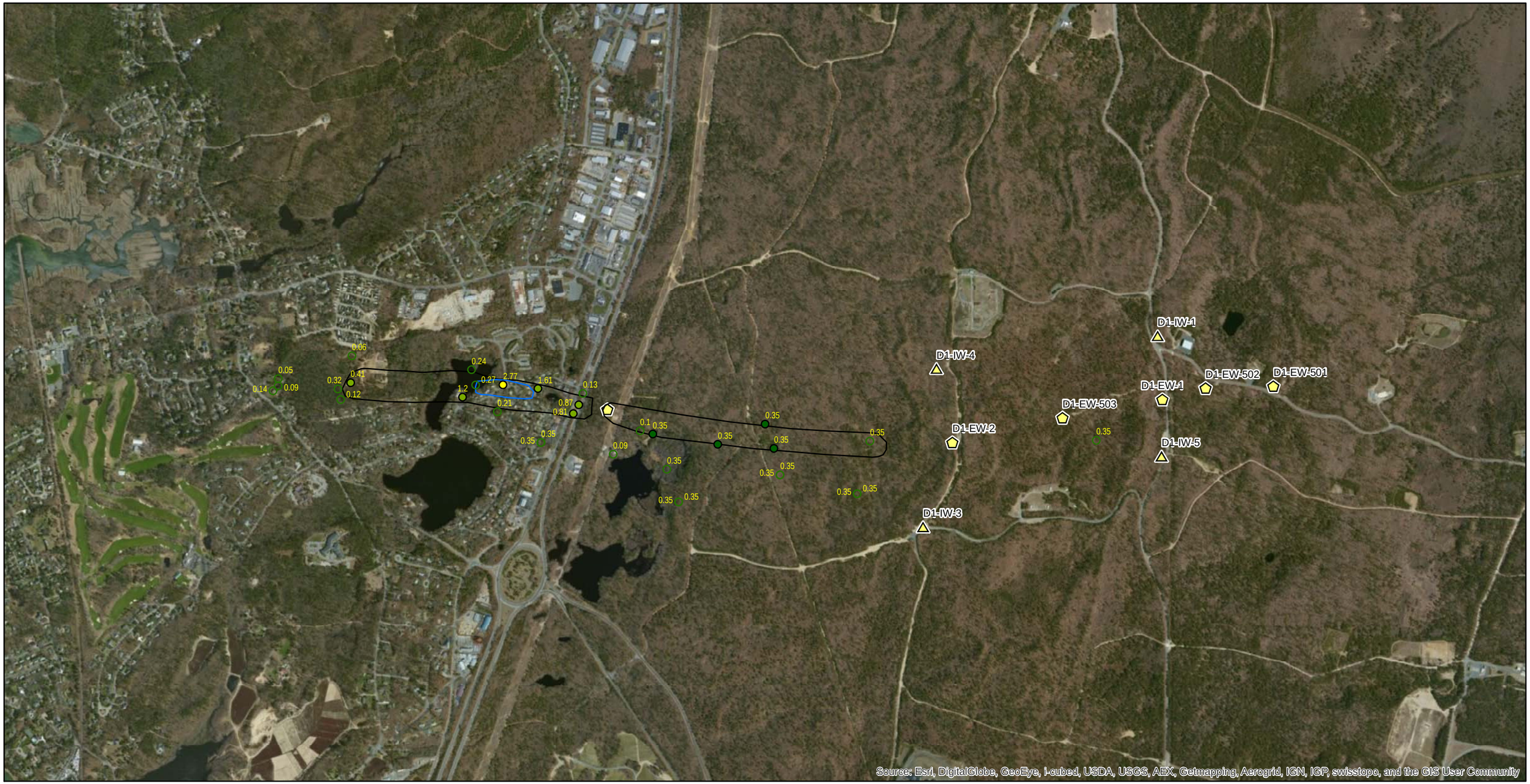
N

0 1,250 2,500 Feet

Demolition Area 1 2013
Perchlorate Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: -100 to -110 feet msl



Perc Points Used

CONC	
●	0.0 - 0.35
●	0.35 - 2.00
●	2.00 - 6.00
●	6.00 - 15.00
●	15.00 - 100.00

Perc Points Deleted

CONC	
○	0.0 - 0.35
○	0.35 - 2.00
○	2.00 - 6.00
○	6.00 - 15.00
○	15.00 - 100.00

US Army Corps of Engineers

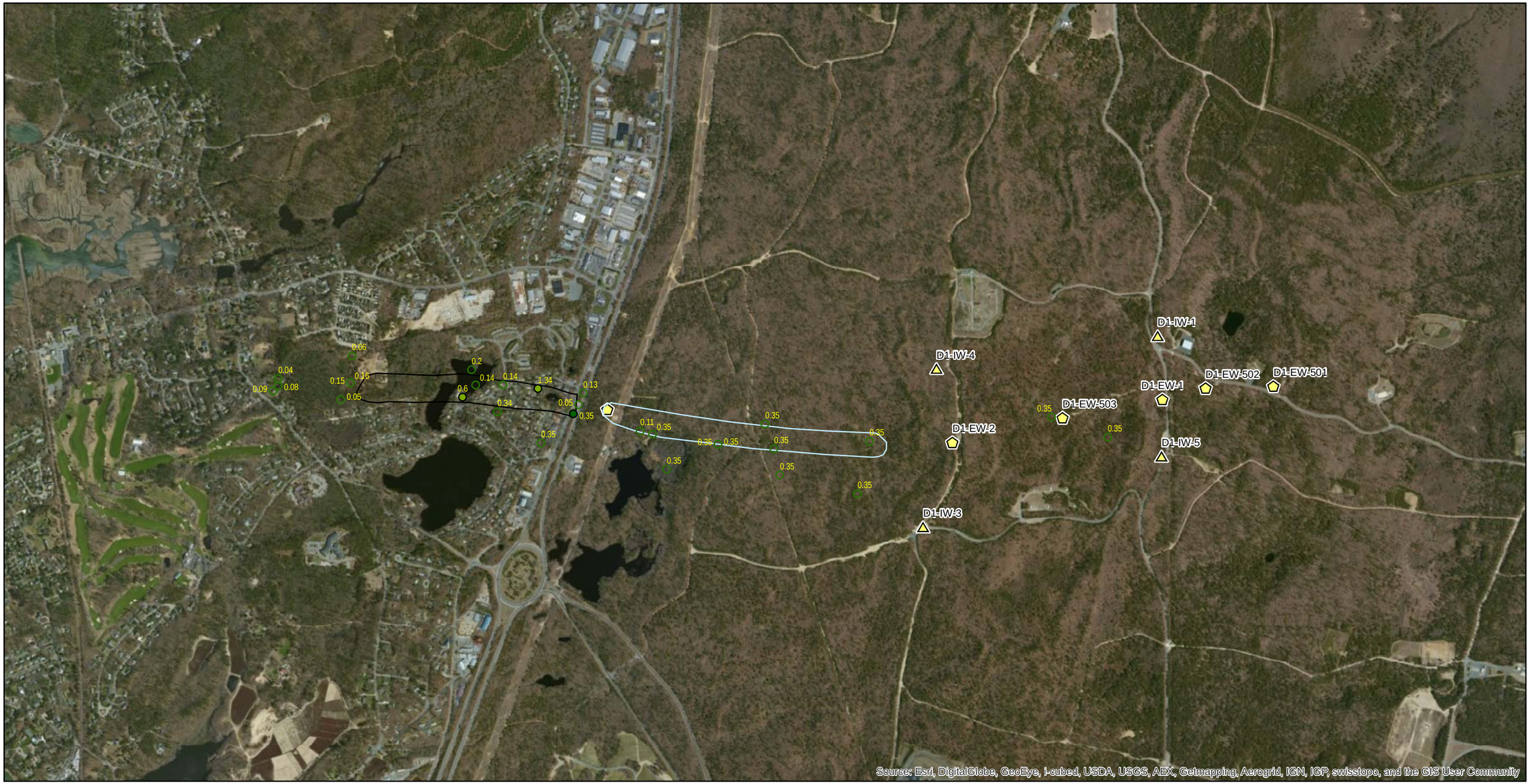
N

0 1,250 2,500 Feet

Demolition Area 1 2013
Perchlorate Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: -110 to -120 feet msl



Perc Points Used

CONC	
●	0.0 - 0.35
●	0.35 - 2.00
●	2.00 - 6.00
●	6.00 - 15.00
●	15.00 - 100.00

Perc Points Deleted

CONC	
○	0.0 - 0.35
○	0.35 - 2.00
○	2.00 - 6.00
○	6.00 - 15.00
○	15.00 - 100.00

US Army Corps of Engineers

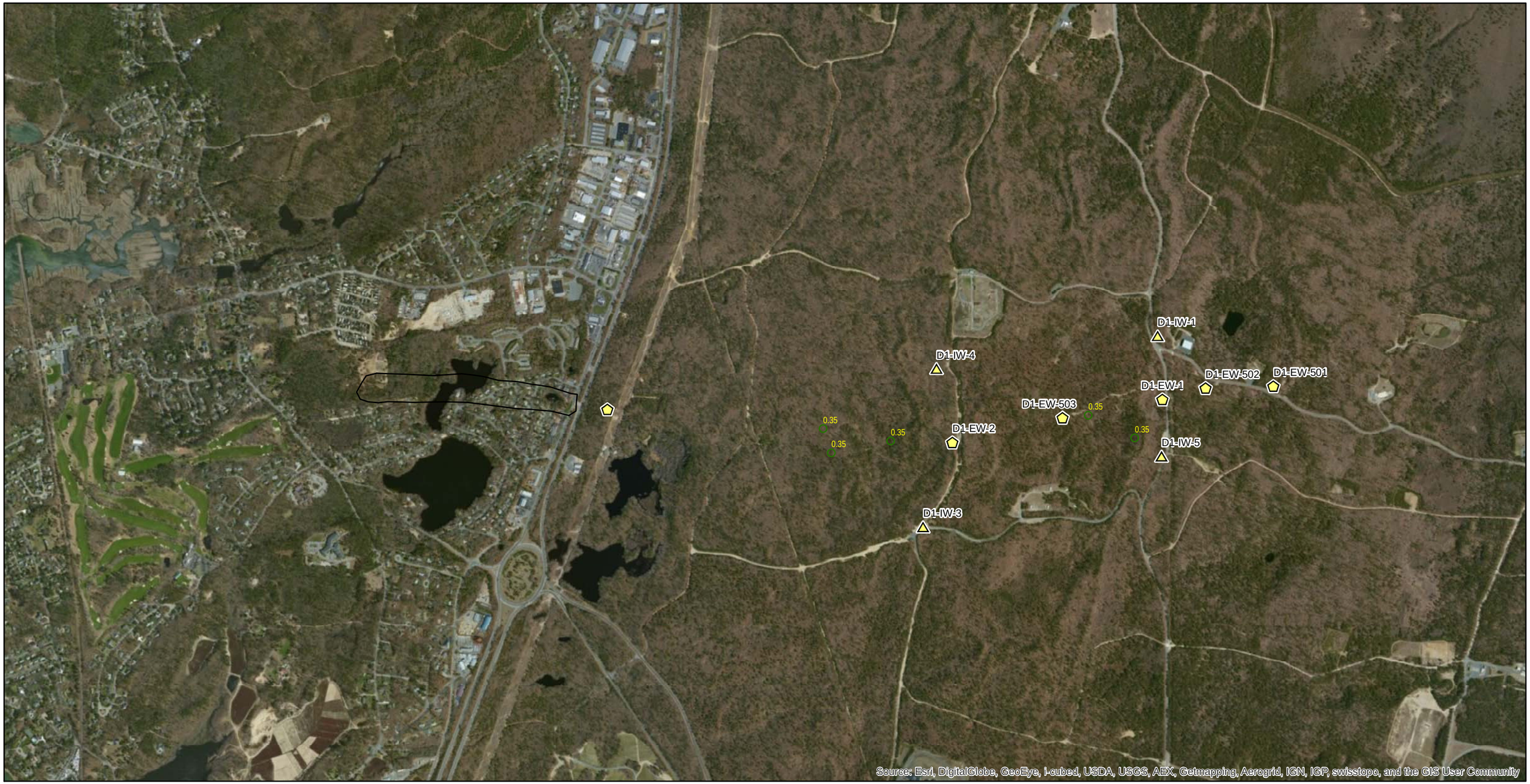
N

0 1,250 2,500 Feet

Demolition Area 1 2013
Perchlorate Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: -120 to -130 feet msl



Perc Points Used CONC		Perc Points Deleted CONC	
●	0.0 - 0.35	○	0.0 - 0.35
●	0.35 - 2.00	○	0.35 - 2.00
●	2.00 - 6.00	○	2.00 - 6.00
●	6.00 - 15.00	○	6.00 - 15.00
●	15.00 - 100.00	○	15.00 - 100.00

US Army Corps of Engineers

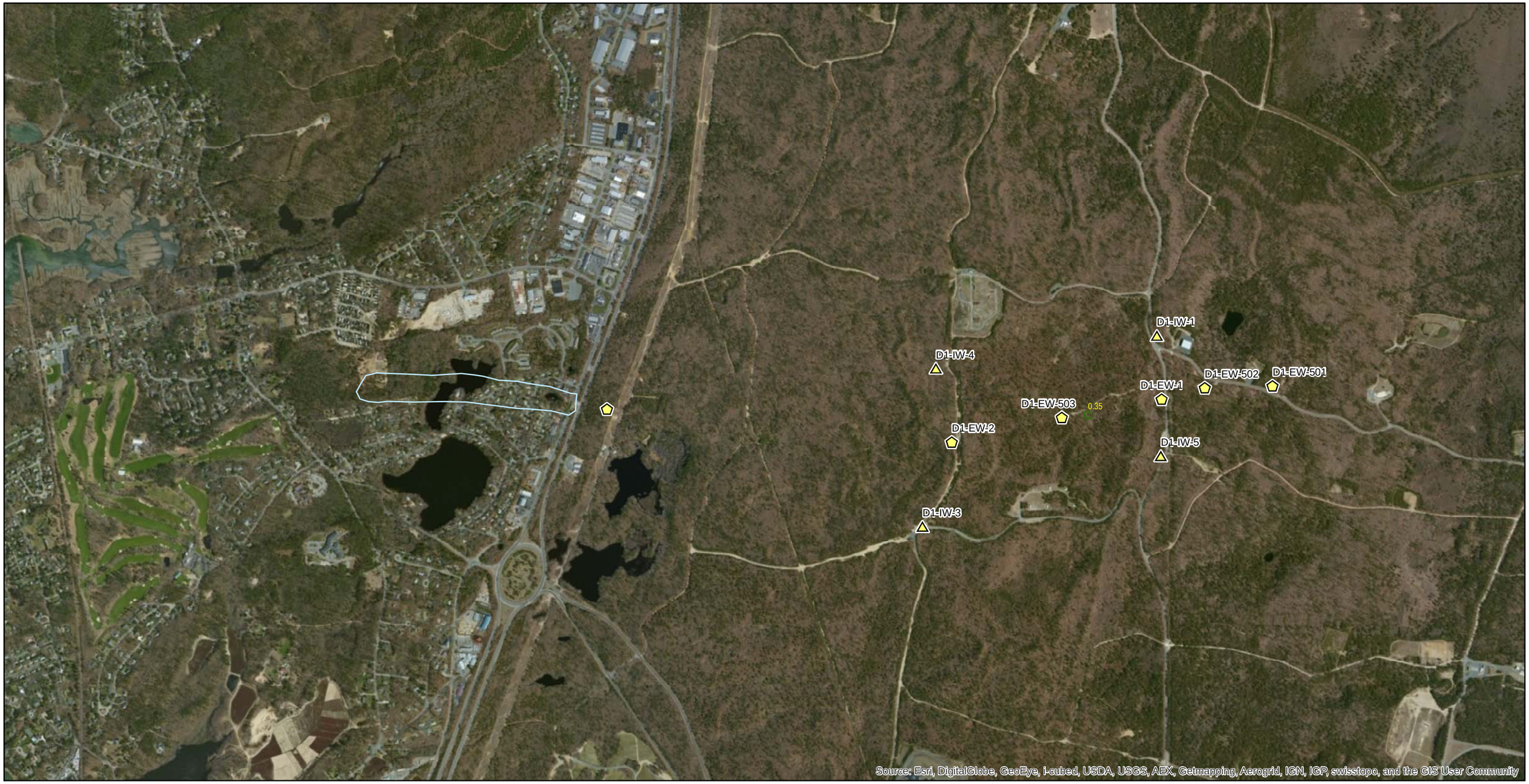
N

0 1,250 2,500 Feet

Demolition Area 1 2013
Perchlorate Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: -130 to -140 feet msl



Perc Points Used
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

Perc Points Deleted
CONC

- 0.0 - 0.35
- 0.35 - 2.00
- 2.00 - 6.00
- 6.00 - 15.00
- 15.00 - 100.00

US Army Corps of Engineers

N

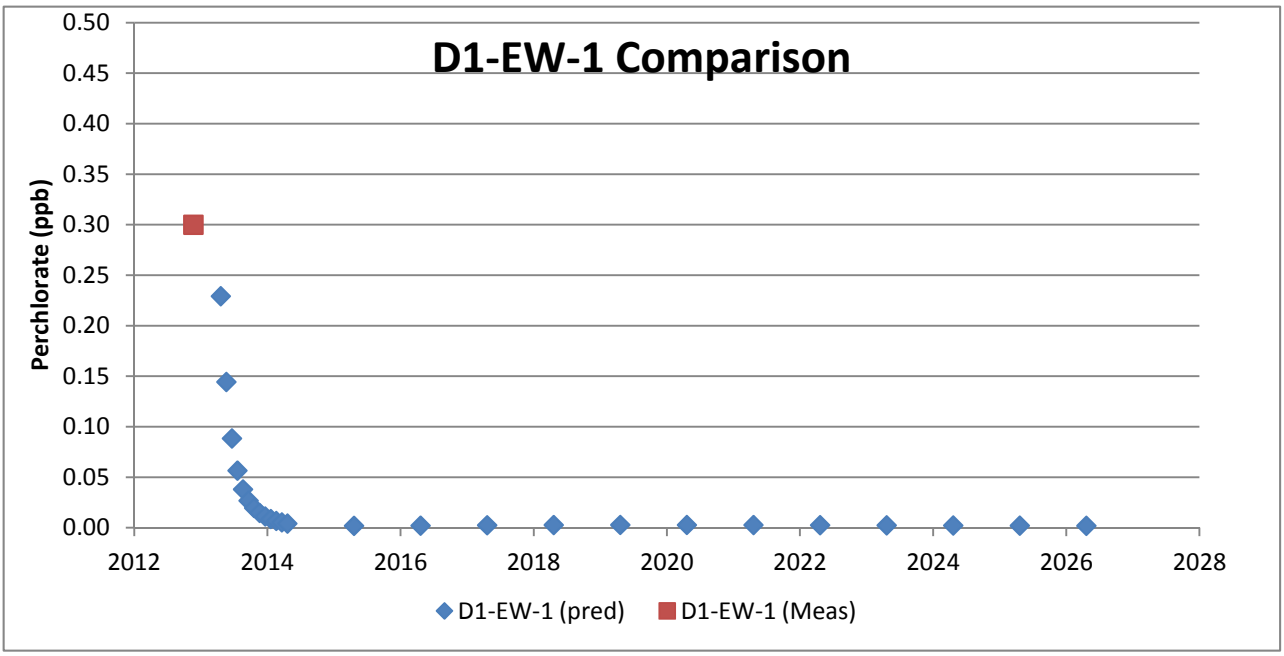
0 1,250 2,500 Feet

Demolition Area 1 2013
Perchlorate Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: -140 to -150 feet msl

Figure
Demo 1 Measured and Predicted Extraction Well Perchlorate Concentrations



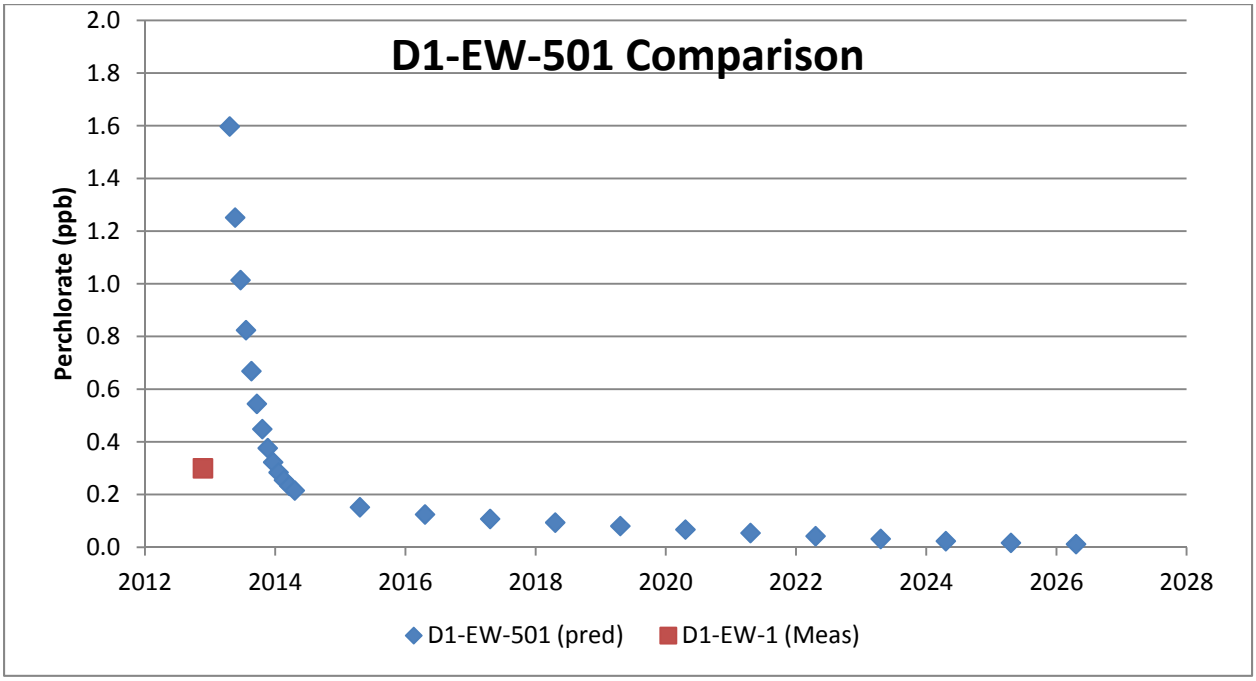
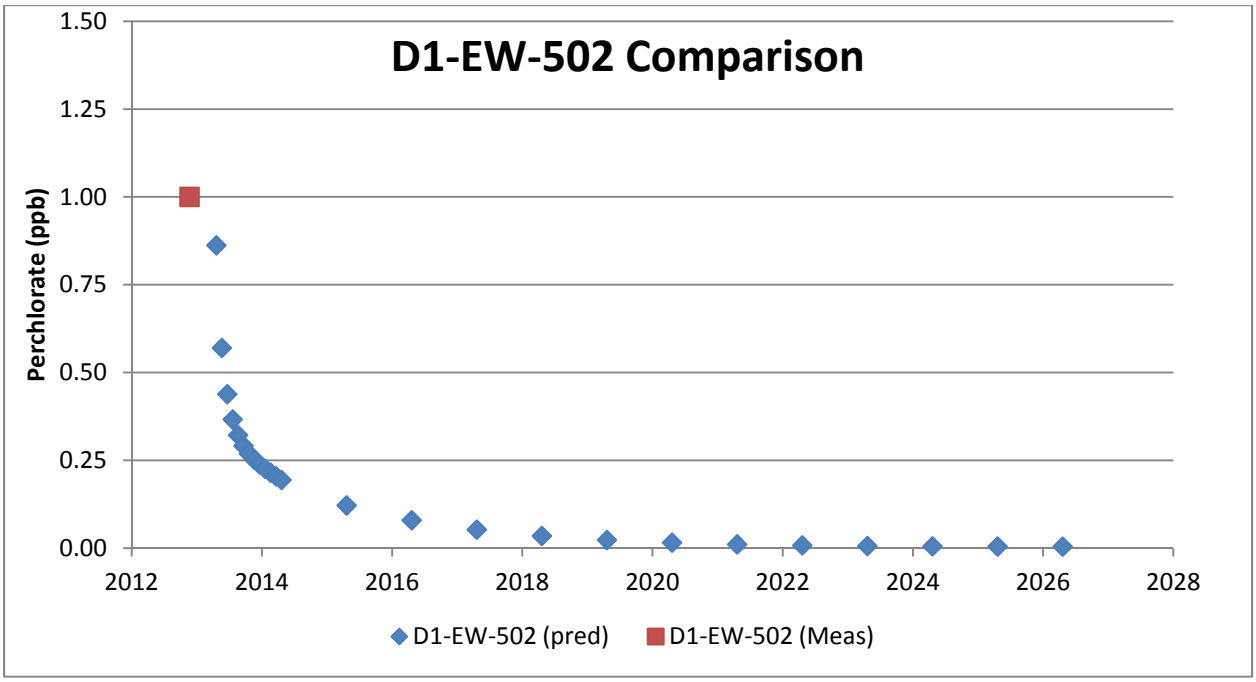


Figure
Demo 1 Measured and Predicted Extraction Well Perchlorate Concentrations



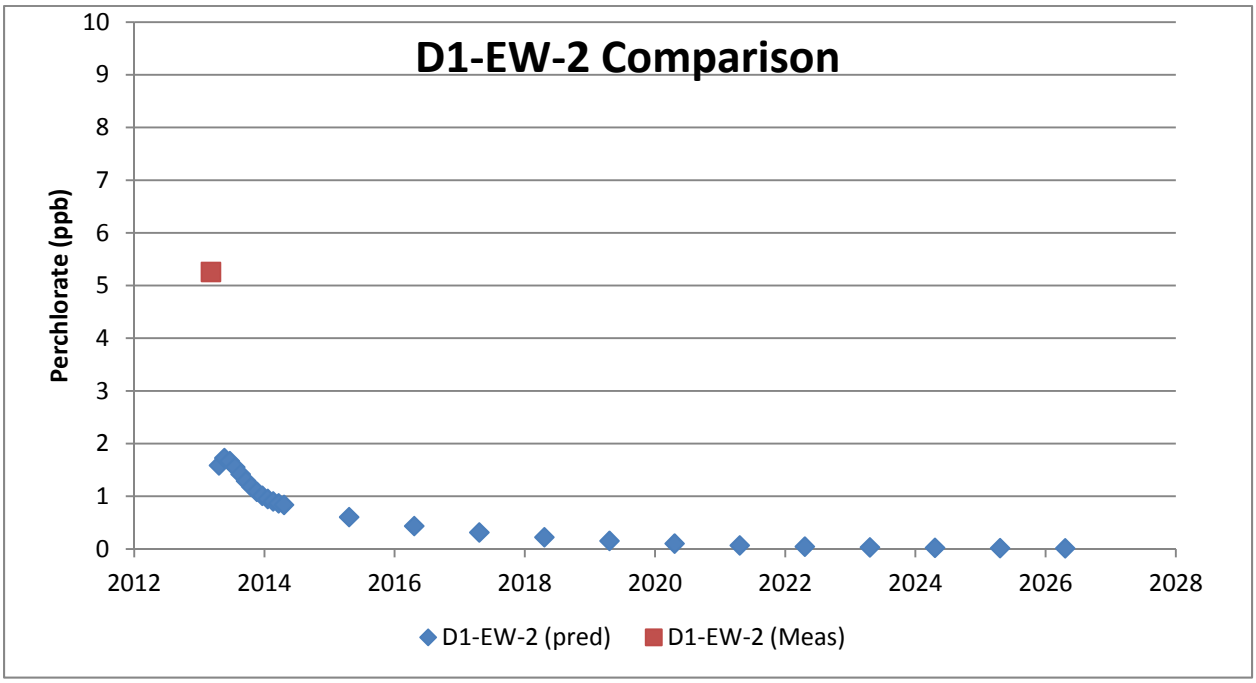
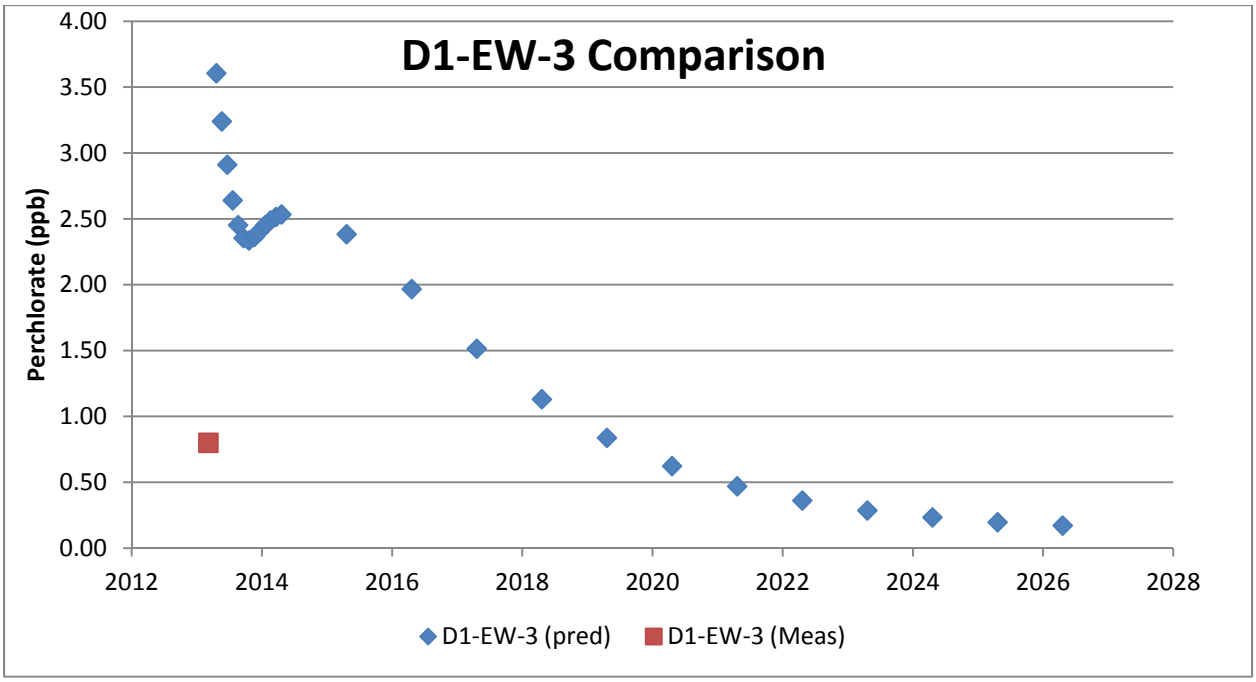


Figure
Demo 1 Measured and Predicted Extraction Well Perchlorate Concentrations



Tables

Table 1

Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
BH-581	6/22/2012	844400.10	253765.30	-13.34	1.27	11.87	Used
BH-581 (-16.00)	6/22/2012	844399.90	253765.30	-22.62	1.17	11.87	Used
BH-581 (-26.00)	6/22/2012	844399.60	253765.30	-31.87	1.18	11.87	Used
BH-581 (-36.00)	6/22/2012	844374.50	253769.10	-41.13	0.95	11.87	Used
BH-581 (-46.00)	6/25/2012	844273.90	253784.90	-50.47	0.77	11.88	Used
BH-581 (-56.00)	6/25/2012	844273.80	253784.90	-59.45	0.77	11.88	Used
BH-581 (-96.00)	6/27/2012	844627.30	253732.20	-96.66	0.39	11.89	Used
BH-582 (-11.68)	7/9/2012	844432.50	253658.90	-18.13	1.91	11.92	Used
BH-582 (-21.68)	7/9/2012	844432.30	253658.90	-27.45	1.92	11.92	Used
BH-582 (-31.68)	7/9/2012	844432.10	253658.90	-36.75	1.32	11.92	Used
BH-582 (-41.68)	7/9/2012	844307.10	253676.80	-46.33	0.70	11.92	Used
BH-582 (-51.68)	7/9/2012	844306.90	253676.80	-55.37	0.57	11.92	Used
BH-582 (-71.68)	7/10/2012	844536.50	253644.40	-73.62	1.02	11.92	Used
BH-582 (-91.68)	7/11/2012	844640.40	253630.80	-92.52	0.67	11.92	Used
BH-583 (-4.10)	7/16/2012	844381.30	253590.70	-11.22	0.39	11.94	Used
BH-583 (-14.10)	7/16/2012	844381.00	253590.60	-20.56	0.59	11.94	Used
BH-583 (-24.10)	7/16/2012	844380.70	253590.60	-29.86	0.47	11.94	Used
BH-583 (-34.10)	7/16/2012	844380.30	253590.50	-39.14	0.49	11.94	Used
BH-583 (-44.10)	7/16/2012	844258.10	253607.20	-48.69	0.73	11.94	Used
BH-583 (-64.10)	7/16/2012	844480.10	253577.10	-66.53	1.37	11.94	Used
BH-583 (-74.10)	7/17/2012	844481.60	253576.80	-75.92	1.00	11.94	Used
BH-583 (-84.10)	7/17/2012	844581.30	253564.20	-85.31	0.51	11.94	Used
BH-597 (-54.40)	1/23/2013	849709.80	253011.90	-56.16	0.12	12.46	Used
BH-598 (-7.79)	2/4/2013	844255.50	253665.60	-10.74	0.35	12.49	Used
BH-598 (-17.79)	2/5/2013	844257.30	253665.10	-20.22	1.20	12.50	Used
BH-598 (-27.79)	2/5/2013	844256.90	253665.00	-29.82	1.65	12.50	Used
BH-598 (-37.79)	2/5/2013	844256.70	253665.00	-39.47	0.92	12.50	Used
BH-598 (-47.79)	2/5/2013	844230.80	253668.70	-49.08	0.76	12.50	Used
BH-598 (-57.79)	2/5/2013	844230.70	253668.70	-58.71	1.09	12.50	Used
BH-598 (-67.79)	2/5/2013	844278.00	253661.80	-68.46	1.03	12.50	Used
BH-598 (-77.79)	2/6/2013	844279.90	253661.50	-78.24	0.46	12.50	Used
BH-598 (-87.79)	2/6/2013	844300.90	253658.40	-88.08	0.50	12.50	Used
DP-515 (33.77)	11/5/2008	846017.00	253488.10	-8.06	0.35	8.24	Used
DP-515 (13.77)	11/7/2008	846783.80	253399.80	-22.25	0.35	8.25	Used
DP-515 (3.77)	11/6/2008	847055.90	253357.80	-33.14	0.35	8.25	Used
DP-515 (-36.23)	11/7/2008	846967.60	253303.90	-63.30	0.35	8.25	Used
DP-516 (22.89)	11/10/2008	846854.20	253336.30	-22.98	0.35	8.26	Used
DP-516 (2.89)	11/10/2008	846307.50	253328.50	-49.54	0.35	8.26	Used
DP-516 (-7.11)	11/10/2008	846235.70	253305.60	-56.20	0.35	8.26	Used
DP-554 (-17.55)	2/4/2011	847465.30	253711.90	-19.15	2.91	10.49	Used
DP-554 (-27.55)	2/4/2011	847475.80	253712.90	-25.09	1.99	10.49	Used
DP-554 (-37.55)	2/4/2011	847060.00	253781.20	-35.66	4.11	10.49	Used
DP-554 (-42.55)	3/1/2011	846982.50	253792.40	-40.40	2.60	10.56	Used
DP-554 (-62.55)	3/2/2011	847534.80	253746.80	-58.49	4.95	10.56	Used
DP-554 (-72.55)	3/2/2011	847415.00	253722.00	-76.62	7.46	10.56	Used
DP-554 (-82.55)	3/3/2011	847677.90	253676.50	-84.62	2.94	10.57	Used
DP-554 (-102.55)	3/3/2011	848401.10	253561.80	-103.12	2.09	10.57	Used
DP-554 (-112.55)	3/4/2011	848399.50	253561.20	-112.75	1.61	10.57	Used
DP-554 (-122.55)	3/4/2011	848398.30	253560.90	-122.60	1.34	10.57	Used
DP-555 (-15.20)	2/10/2011	847513.30	253765.80	-19.48	1.12	10.51	Used
DP-555 (-25.20)	2/10/2011	847525.80	253767.00	-26.02	0.90	10.51	Used
DP-555 (-35.20)	2/10/2011	847197.20	253819.50	-37.32	0.58	10.51	Used
DP-556 (-12.62)	2/17/2011	846795.20	253782.00	-18.83	1.31	10.53	Used
DP-556 (-22.62)	2/17/2011	846800.80	253783.50	-24.88	2.24	10.53	Used
DP-556 (-38.62)	3/17/2011	846865.10	253779.60	-33.12	4.80	10.60	Used
DP-556 (-48.62)	3/17/2011	846521.40	253820.70	-49.05	5.31	10.60	Used

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
DP-556 (-58.62)	3/18/2011	846415.80	253817.10	-59.54	9.18	10.61	Used
DP-556 (-68.62)	3/18/2011	847025.10	253770.10	-73.38	9.87	10.61	Used
DP-556 (-78.62)	3/18/2011	847102.60	253735.50	-80.87	9.61	10.61	Used
DP-556 (-88.62)	3/21/2011	847228.00	253717.10	-90.00	4.11	10.62	Used
DP-556 (-98.62)	3/21/2011	847227.00	253715.10	-99.20	4.86	10.62	Used
DP-556 (-108.62)	3/21/2011	847931.40	253611.30	-108.55	4.35	10.62	Used
DP-556 (-118.62)	3/22/2011	847932.10	253610.90	-118.60	2.77	10.62	Used
DP-557 (-22.31)	2/21/2011	846213.30	253977.80	-34.79	0.54	10.54	Used
DP-557 (-32.31)	2/22/2011	846132.50	253984.40	-43.09	0.40	10.54	Used
DP-557 (-60.81)	3/22/2011	846487.40	253938.00	-66.23	0.73	10.62	Used
DP-558 (32.15)	2/25/2011	845982.50	253806.80	9.11	0.35	10.55	Used
DP-558 (22.15)	2/25/2011	845982.30	253806.70	1.13	0.35	10.55	Used
DP-558 (12.15)	2/25/2011	846053.00	253799.80	-7.11	0.35	10.55	Used
DP-558 (2.15)	2/25/2011	846158.80	253790.50	-14.82	0.35	10.55	Used
DP-558 (-26.85)	4/26/2011	846388.60	253773.10	-33.81	0.76	10.71	Used
DP-558 (-36.85)	4/26/2011	846377.40	253775.70	-41.77	4.08	10.71	Used
DP-558 (-46.85)	4/28/2011	846249.10	253785.70	-51.65	3.61	10.72	Used
DP-558 (-56.85)	4/28/2011	846112.40	253778.90	-59.25	5.63	10.72	Used
DP-558 (-66.85)	4/28/2011	846701.20	253742.40	-72.66	7.81	10.72	Used
DP-558 (-76.85)	4/29/2011	846752.90	253716.30	-80.50	9.88	10.72	Used
DP-558 (-96.85)	5/3/2011	846889.90	253698.50	-98.03	4.47	10.73	Used
DP-558 (-106.85)	5/3/2011	847567.70	253611.60	-107.63	2.92	10.73	Used
MW-114M1	8/18/2010	857336.80	253562.30	-13.41	1.15	10.03	Used
MW-114M1	12/23/2010	857429.70	253541.20	-26.43	0.68	10.37	Used
MW-114M1	4/12/2011	857524.60	253546.70	-30.31	0.40	10.68	Used
MW-114M1	12/15/2011	857652.90	253578.70	-33.09	0.39	11.35	Used
MW-114M1	4/25/2012	857706.70	253597.60	-33.83	0.46	11.71	Used
MW-114M2	4/12/2011	857387.20	253550.10	15.88	0.70	10.68	Used
MW-114M2	12/15/2011	857603.80	253563.60	17.98	0.58	11.35	Used
MW-114M2	4/25/2012	857675.20	253584.60	18.85	0.58	11.71	Used
MW-139M2	4/28/2011	856747.30	253446.80	-18.04	1.07	10.72	Used
MW-172M2	12/29/2006	855535.00	253208.80	-46.45	0.62	6.39	Used
MW-172M2	4/18/2008	855943.30	253243.70	-52.72	0.38	7.69	Used
MW-172M3	5/7/2009	856076.90	253375.90	-3.86	0.35	8.75	Used
MW-173M1	9/3/2002	850907.70	253366.00	-68.75	0.35	2.07	Used
MW-173M1	11/14/2002	850972.90	253356.00	-68.34	0.35	2.27	Used
MW-173M2	3/13/2002	853782.30	253164.20	-40.61	0.35	1.59	Used
MW-173M2	4/19/2002	853869.90	253171.50	-40.06	0.35	1.70	Used
MW-173M2	8/9/2002	853882.30	253172.40	-38.81	0.35	2.00	Used
MW-173M2	11/14/2002	853882.70	253172.30	-37.73	0.35	2.27	Used
MW-173M2	5/28/2003	853883.60	253171.90	-35.55	0.35	2.80	Used
MW-173M2	11/14/2003	853884.40	253171.60	-33.66	0.35	3.27	Used
MW-173M2	2/10/2004	853884.80	253171.50	-32.68	0.35	3.51	Used
MW-173M2	4/19/2004	853885.10	253171.40	-31.92	0.35	3.70	Used
MW-173M2	7/29/2004	853885.60	253171.20	-30.79	0.35	3.97	Used
MW-173M2	4/18/2005	853886.60	253171.30	-29.48	0.35	4.69	Used
MW-173M2	4/10/2006	853888.00	253171.70	-28.38	0.35	5.67	Used
MW-173M2	4/10/2007	853889.40	253172.10	-27.28	0.35	6.67	Used
MW-173M3	7/19/2001	849978.70	253513.50	-51.29	0.35	0.95	Used
MW-173M3	11/8/2001	850109.80	253487.80	-49.67	0.35	1.25	Used
MW-173M3	1/25/2002	850197.50	253470.10	-48.68	0.63	1.47	Used
MW-173M3	3/12/2002	850248.40	253459.90	-48.13	0.67	1.59	Used
MW-173M3	4/19/2002	850290.00	253451.50	-47.70	0.88	1.70	Used
MW-173M3	8/9/2002	850411.00	253427.00	-46.45	0.70	2.00	Used
MW-173M3	11/15/2002	850514.80	253406.10	-45.37	0.48	2.27	Used
MW-173M3	5/27/2003	850713.70	253363.90	-43.20	1.10	2.80	Used

Table 1

Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-173M3	11/14/2003	850941.30	253308.20	-41.19	0.65	3.27	Used
MW-173M3	2/11/2004	851036.30	253270.40	-40.23	0.84	3.51	Used
MW-173M3	4/19/2004	851093.10	253244.50	-39.69	0.75	3.70	Used
MW-173M3	7/29/2004	851209.30	253200.90	-39.08	0.62	3.97	Used
MW-173M3	12/8/2004	851336.20	253160.30	-37.74	0.35	4.34	Used
MW-173M3	4/18/2005	851481.30	253144.90	-36.54	0.45	4.69	Used
MW-173M3	8/4/2005	851591.70	253135.00	-35.53	0.35	4.99	Used
MW-173M3	4/11/2006	851834.60	253116.00	-33.18	0.35	5.67	Used
MW-173M3	12/27/2006	852083.40	253097.90	-32.63	0.35	6.39	Used
MW-173M3	4/10/2007	852186.80	253090.20	-31.91	0.35	6.67	Used
MW-19S	5/29/2002	858250.00	253590.80	54.48	5.20	1.81	Used
MW-19S	8/7/2002	858250.00	253590.80	46.70	4.10	2.00	Used
MW-19S	9/27/2003	858390.90	253675.60	11.64	7.80	3.14	Used
MW-19S	2/28/2004	858524.30	253731.30	10.32	2.71	3.56	Used
MW-19S	6/1/2004	858590.70	253755.60	10.75	1.86	3.81	Used
MW-19S	8/8/2005	858854.20	253843.20	15.40	0.35	5.00	Used
MW-19S	12/13/2005	858924.00	253865.50	17.11	0.35	5.35	Used
MW-19S	4/12/2006	858988.20	253886.00	18.78	0.35	5.68	Used
MW-19S	1/3/2007	859134.30	253932.40	22.70	0.83	6.40	Used
MW-19S	4/30/2007	859198.00	253952.70	24.49	0.35	6.73	Used
MW-19S	4/22/2010	859766.60	254139.10	43.21	0.56	9.70	Used
MW-210 (-18.46)	3/22/2002	853738.10	253099.40	-44.14	1.96	1.62	Used
MW-210 (-28.46)	3/22/2002	853538.30	253099.50	-52.02	2.47	1.62	Used
MW-210 (-38.46)	3/22/2002	853733.80	253106.40	-55.37	0.35	1.62	Used
MW-210 (-48.46)	3/22/2002	853797.80	253117.50	-60.92	0.35	1.62	Used
MW-210M2	5/2/2012	855748.60	253212.80	-2.92	0.98	11.73	Used
MW-211 (20.14)	4/10/2002	849284.30	253248.60	-56.27	11.30	1.67	Used
MW-211 (-9.86)	4/11/2002	853303.30	252832.60	-33.23	0.67	1.67	Used
MW-211 (-49.86)	4/12/2002	850589.60	253032.60	-66.23	0.35	1.68	Used
MW-211M1	2/4/2004	852319.70	252860.70	-33.75	5.60	3.49	Used
MW-211M1	3/10/2004	851973.00	252881.90	-36.31	9.80	3.59	Used
MW-211M2	10/29/2002	849304.80	253257.00	-48.09	3.02	2.22	Used
MW-211M2	2/28/2003	849555.80	253246.70	-42.85	3.50	2.56	Used
MW-225 (22.28)	6/13/2002	846138.30	253629.90	-45.40	3.78	1.85	Used
MW-225 (-67.72)	6/18/2002	849557.10	253074.20	-85.36	0.35	1.86	Used
MW-225 (-87.72)	6/18/2002	850758.90	252840.30	-92.63	0.35	1.86	Used
MW-225 (-97.72)	6/18/2002	850846.40	252830.40	-100.67	0.35	1.86	Used
MW-225 (-107.72)	6/18/2002	851554.10	252766.70	-107.73	0.35	1.86	Used
MW-225 (-117.72)	6/19/2002	851551.80	252762.70	-116.67	0.35	1.86	Used
MW-225M1	12/7/2004	849816.00	253009.20	-57.38	0.35	4.33	Used
MW-225M1	4/6/2005	849950.60	252974.60	-54.89	0.35	4.66	Used
MW-225M1	8/4/2005	850077.30	252945.30	-52.78	0.35	4.99	Used
MW-225M1	4/6/2006	850323.70	252898.40	-49.52	0.35	5.66	Used
MW-225M1	8/3/2006	850440.10	252880.30	-48.28	0.35	5.99	Used
MW-225M1	12/21/2006	850575.80	252861.80	-46.96	0.35	6.37	Used
MW-225M1	4/11/2007	850682.50	252848.70	-46.00	0.35	6.67	Used
MW-225M2	9/2/2008	851128.00	252814.80	-25.72	0.35	8.07	Used
MW-225M2	11/18/2009	851574.80	252778.60	-20.72	0.35	9.28	Used
MW-225M2	12/21/2010	851899.90	252759.10	-14.85	0.35	10.37	Used
MW-225M2	8/24/2011	852058.80	252740.40	-8.21	0.35	11.04	Used
MW-225M3	8/6/2002	846289.70	253614.50	-43.61	2.90	1.99	Used
MW-225M3	2/4/2004	847726.50	253439.00	-49.35	1.90	3.49	Used
MW-225M3	3/15/2004	847838.00	253436.20	-52.34	2.50	3.60	Used
MW-225M3	5/25/2004	848105.40	253433.90	-56.75	2.62	3.80	Used
MW-225M3	8/6/2004	848384.90	253402.90	-58.31	2.10	4.00	Used
MW-225M3	4/6/2005	849284.30	253248.60	-54.00	7.70	4.66	Used

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-225M3	8/4/2005	849284.40	253248.60	-49.44	20.80	4.99	Used
MW-225M3	12/9/2005	849284.40	253248.60	-43.23	14.80	5.34	Used
MW-225M3	4/6/2006	849379.30	253164.10	-36.08	11.30	5.66	Used
MW-225M3	8/3/2006	849582.40	253100.40	-30.17	16.00	5.99	Used
MW-225M3	12/21/2006	849777.70	253041.40	-24.35	17.60	6.37	Used
MW-225M3	4/11/2007	849914.40	253001.10	-20.27	20.70	6.67	Used
MW-225M3	12/5/2007	850178.40	252933.90	-13.84	13.50	7.32	Used
MW-225M3	4/14/2008	850319.50	252907.10	-11.28	2.37	7.68	Used
MW-240 (31.32)	9/24/2002	845863.60	253977.40	-48.41	0.35	2.13	Used
MW-240 (21.32)	9/24/2002	845982.80	253960.00	-53.73	0.35	2.13	Used
MW-240 (-68.68)	9/26/2002	849433.00	253388.00	-85.78	0.35	2.13	Used
MW-240 (-78.68)	9/26/2002	850280.80	253235.90	-88.25	0.35	2.13	Used
MW-240 (-88.68)	10/1/2002	850636.90	253177.80	-94.20	0.35	2.15	Used
MW-240 (-98.68)	10/1/2002	850893.90	253143.70	-101.74	0.35	2.15	Used
MW-240 (-108.68)	10/1/2002	851438.60	253086.70	-108.57	0.35	2.15	Used
MW-240 (-118.68)	10/1/2002	851434.10	253087.20	-116.99	0.35	2.15	Used
MW-240M1	3/5/2003	849065.90	253368.60	-78.11	0.35	2.57	Used
MW-240M1	12/9/2004	849838.40	253323.60	-69.99	0.35	4.34	Used
MW-240M1	4/11/2005	849968.80	253296.50	-68.56	0.35	4.67	Used
MW-240M1	8/4/2005	850084.80	253272.60	-67.38	0.35	4.99	Used
MW-240M1	12/9/2005	850208.10	253248.40	-66.23	0.35	5.34	Used
MW-240M1	4/6/2006	850319.20	253227.80	-65.28	0.35	5.66	Used
MW-240M1	8/1/2006	850426.90	253209.20	-64.42	0.35	5.98	Used
MW-240M1	12/22/2006	850556.20	253188.60	-63.45	0.35	6.37	Used
MW-240M1	4/11/2007	850654.20	253174.20	-62.75	0.35	6.67	Used
MW-240M1	4/15/2008	850975.20	253132.70	-60.56	0.35	7.69	Used
MW-240M1	4/16/2009	851306.60	253097.50	-58.48	0.35	8.69	Used
MW-240M1	4/22/2010	851637.40	253068.40	-56.35	0.02	9.70	Used
MW-240M1	4/21/2011	851947.70	253045.90	-54.79	0.02	10.70	Used
MW-240M1	4/18/2012	852251.40	253026.70	-53.47	0.02	11.69	Used
MW-240M2	11/14/2002	846116.50	253946.60	-53.16	0.35	2.27	Used
MW-240M2	3/5/2003	846406.40	253919.10	-51.75	0.35	2.57	Used
MW-240M2	8/2/2006	849252.30	253387.90	-35.86	0.27	5.98	Used
MW-240M2	4/15/2008	850127.00	253272.90	-12.40	0.35	7.69	Used
MW-240M2	4/16/2009	850543.70	253196.40	-5.91	0.35	8.69	Used
MW-240M2	4/22/2010	850944.60	253141.50	-0.20	0.18	9.70	Used
MW-255 (0.00)	2/12/2003	854321.30	253902.00	-9.22	0.68	2.51	Used
MW-255 (-10.00)	2/12/2003	854621.60	253907.60	-8.07	0.81	2.51	Used
MW-255 (-20.00)	2/12/2003	854593.50	253899.80	-13.79	0.35	2.51	Used
MW-255 (-30.00)	2/12/2003	854622.50	253891.20	-19.30	0.35	2.51	Used
MW-255M1	7/31/2003	854792.70	253682.50	-12.64	0.35	2.98	Used
MW-255M1	12/3/2003	854956.40	253626.10	-8.75	0.35	3.32	Used
MW-255M1	4/29/2007	855213.60	253514.20	18.41	0.35	6.72	Used
MW-255M2	3/31/2003	854501.60	253887.60	-7.98	0.54	2.64	Used
MW-255M2	7/31/2003	854385.70	253840.20	-6.91	1.10	2.98	Used
MW-255M2	12/3/2003	854282.40	253783.70	-5.84	0.36	3.32	Used
MW-255M2	4/17/2006	854555.80	253701.80	10.63	0.44	5.69	Used
MW-255M2	12/29/2006	854907.20	253687.00	17.94	1.59	6.39	Used
MW-255M2	4/29/2007	855084.80	253650.30	18.55	2.75	6.72	Used
MW-255M2	8/28/2007	855205.40	253604.30	23.19	0.62	7.05	Used
MW-255M2	4/15/2008	855445.00	253658.00	26.59	0.35	7.69	Used
MW-255M3	8/28/2007	855181.70	253648.90	27.01	0.80	7.05	Used
MW-258 (32.10)	1/29/2003	843999.90	253914.40	-48.18	0.35	2.48	Used
MW-258 (12.10)	1/30/2003	843600.80	253973.60	-58.40	0.37	2.48	Used
MW-258 (2.10)	1/30/2003	843984.20	253880.10	-62.24	0.51	2.48	Used
MW-258 (-97.90)	2/4/2003	849616.50	253031.30	-107.65	0.35	2.49	Used

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-258 (-107.90)	2/4/2003	849933.40	252953.20	-113.31	0.35	2.49	Used
MW-258M1	12/9/2004	847083.20	253384.70	-65.70	0.47	4.34	Used
MW-258M1	6/8/2005	847309.20	253382.10	-62.72	0.68	4.83	Used
MW-258M1	9/29/2005	847444.50	253394.80	-60.29	0.67	5.14	Used
MW-258M1	12/7/2005	847521.70	253369.90	-59.68	0.83	5.33	Used
MW-258M1	4/5/2006	847727.70	253396.00	-61.42	0.76	5.66	Used
MW-258M1	8/3/2006	847936.50	253377.10	-63.38	0.78	5.99	Used
MW-258M1	12/31/2008	849401.90	253124.10	-51.48	0.60	8.40	Used
MW-258M1	4/14/2009	849559.00	253073.50	-47.77	0.41	8.68	Used
MW-258M1	11/18/2009	849830.70	252993.60	-40.72	0.61	9.28	Used
MW-258M1	4/21/2010	850009.50	252944.80	-36.57	0.78	9.70	Used
MW-258M1	8/17/2010	850140.30	252914.40	-34.07	0.84	10.02	Used
MW-258M1	12/22/2010	850278.00	252887.70	-31.90	1.11	10.37	Used
MW-258M1	4/14/2011	850399.20	252867.70	-30.28	1.45	10.68	Used
MW-258M1	8/22/2011	850537.20	252848.10	-28.63	3.29	11.04	Used
MW-258M1	12/14/2011	850657.50	252832.90	-27.28	4.83	11.35	Used
MW-258M1	4/24/2012	850795.90	252817.20	-25.77	6.26	11.71	Used
MW-258M1	11/27/2012	851020.70	252794.70	-23.31	7.44	12.30	Used
MW-258M2	3/7/2003	844044.60	253868.10	-61.84	0.41	2.58	Used
MW-258M2	6/12/2003	844240.60	253834.50	-60.56	0.40	2.84	Used
MW-258M2	9/24/2003	844506.00	253792.60	-59.05	0.51	3.13	Used
MW-258M2	7/29/2004	845363.40	253684.60	-55.66	1.40	3.97	Used
MW-258M2	12/9/2004	845721.00	253646.40	-54.23	1.62	4.34	Used
MW-258M2	6/8/2005	846185.50	253603.10	-43.57	4.00	4.83	Used
MW-258M3	3/7/2003	843706.70	253952.00	-57.90	0.49	2.58	Used
MW-258M3	12/9/2004	845518.90	253683.00	-49.64	1.01	4.34	Used
MW-258M3	6/8/2005	845994.20	253634.10	-47.08	1.90	4.83	Used
MW-258M3	9/29/2005	846269.90	253611.50	-38.40	0.46	5.14	Used
MW-258M3	7/31/2009	849284.40	253248.60	-34.43	0.35	8.98	Used
MW-272 (5.31)	6/10/2003	854331.00	252749.20	-8.52	0.71	2.84	Used
MW-31D	4/30/2005	858250.00	253590.80	35.24	0.35	4.73	Used
MW-31D	4/13/2006	858324.00	253665.40	-2.24	0.35	5.68	Used
MW-31D	4/27/2007	858608.80	253804.70	-7.29	0.35	6.72	Used
MW-31M	4/13/2006	858249.90	253590.80	25.57	2.68	5.68	Used
MW-31M	4/26/2007	858513.20	253766.30	5.99	0.93	6.71	Used
MW-31M	12/7/2007	858666.00	253826.00	7.31	0.50	7.33	Used
MW-31M	4/24/2008	858757.40	253858.60	8.66	0.74	7.71	Used
MW-31M	12/16/2008	858902.40	253908.60	11.46	0.35	8.36	Used
MW-31M	4/20/2009	858974.80	253933.20	13.10	0.35	8.70	Used
MW-31M	12/21/2010	859302.00	254041.90	21.92	0.43	10.37	Used
MW-31M	4/18/2011	859365.30	254062.70	23.74	0.46	10.69	Used
MW-31S	4/26/2007	858435.70	253730.90	19.09	0.35	6.71	Used
MW-31S	12/7/2007	858603.90	253803.30	20.12	0.74	7.33	Used
MW-31S	4/24/2008	858707.50	253841.70	21.71	0.47	7.71	Used
MW-31S	12/16/2008	858869.40	253898.40	25.02	0.35	8.36	Used
MW-31S	4/20/2009	858949.30	253925.60	26.94	0.35	8.70	Used
MW-31S	4/8/2010	859160.10	253996.10	32.74	0.44	9.67	Used
MW-31S	12/21/2010	859302.10	254042.90	37.23	0.65	10.37	Used
MW-32D	4/22/2002	854514.70	253579.80	-45.78	0.64	1.70	Used
MW-32D	1/29/2003	854739.50	253500.00	-19.36	0.66	2.48	Used
MW-32D	3/31/2003	854736.10	253472.10	-18.57	0.44	2.64	Used
MW-32D	11/18/2003	854894.20	253347.60	-16.14	2.20	3.28	Used
MW-32D	3/10/2004	855078.50	253237.00	-19.38	2.20	3.59	Used
MW-32D	4/21/2004	855275.10	253193.60	-19.47	2.35	3.70	Used
MW-32D	6/23/2005	855370.60	253276.70	-14.84	0.83	4.87	Used
MW-32D	4/19/2006	855663.90	253434.10	-7.29	0.39	5.70	Used

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-32D	4/15/2010	856627.90	253489.60	-3.82	0.35	9.68	Used
MW-32M	4/22/2002	854567.50	253529.30	-12.86	1.97	1.70	Used
MW-32M	1/29/2003	854779.10	253450.00	-8.78	2.30	2.48	Used
MW-32M	3/31/2003	854816.90	253429.80	-7.84	2.50	2.64	Used
MW-32M	11/18/2003	854911.40	253250.80	-10.87	2.60	3.28	Used
MW-32S	4/23/2002	854173.90	253608.40	-11.69	1.38	1.71	Used
MW-32S	1/29/2003	854255.20	253452.90	-6.45	2.10	2.48	Used
MW-32S	3/31/2003	854274.20	253406.40	-5.47	1.50	2.64	Used
MW-32S	11/18/2003	854571.70	253232.70	-4.24	2.00	3.28	Used
MW-33D	5/7/2001	854251.70	253476.50	-48.77	0.35	0.75	Used
MW-33D	7/30/2001	854333.10	253457.50	-46.78	0.35	0.98	Used
MW-33D	12/26/2001	854500.60	253417.40	-43.49	1.54	1.38	Used
MW-33D	4/23/2002	854625.80	253373.30	-42.19	2.02	1.71	Used
MW-33D	8/8/2002	854750.70	253350.70	-19.93	2.00	2.00	Used
MW-33D	11/15/2002	854724.20	253309.30	-18.93	2.20	2.27	Used
MW-33D	2/6/2003	854777.70	253272.80	-18.01	3.00	2.50	Used
MW-33D	4/14/2006	855417.30	253260.30	-18.09	2.02	5.68	Used
MW-33D	4/17/2007	855958.50	253420.10	-12.26	0.44	6.69	Used
MW-33M	12/18/2000	854329.80	253470.00	-21.29	0.35	0.36	Used
MW-33M	12/26/2001	854411.90	253376.20	-18.07	1.38	1.38	Used
MW-33M	4/23/2002	854501.60	253342.80	-14.17	1.72	1.71	Used
MW-33M	8/8/2002	854602.80	253310.40	-13.28	2.10	2.00	Used
MW-33M	5/1/2009	856058.70	253442.80	-1.99	0.35	8.73	Used
MW-33S	4/23/2002	854147.90	253437.20	-12.65	1.72	1.71	Used
MW-33S	8/8/2002	854216.40	253410.20	-11.24	1.60	2.00	Used
MW-33S	11/18/2002	854279.10	253377.30	-9.82	1.60	2.28	Used
MW-33S	2/6/2003	854333.10	253344.60	-8.45	1.30	2.50	Used
MW-33S	3/31/2003	854379.10	253310.80	-8.03	1.30	2.64	Used
MW-341 (48.36)	7/13/2004	849801.20	253057.00	-18.42	12.10	3.93	Used
MW-341 (38.36)	7/14/2004	850048.00	252987.70	-19.56	25.70	3.93	Used
MW-341 (28.36)	7/14/2004	850252.40	252944.60	-23.78	22.40	3.93	Used
MW-341 (18.36)	7/15/2004	850447.30	252916.80	-29.51	4.09	3.94	Used
MW-341 (8.36)	7/15/2004	851265.30	252826.30	-30.20	3.44	3.94	Used
MW-341 (-1.64)	7/15/2004	851437.90	252826.80	-36.93	8.55	3.94	Used
MW-341 (-11.64)	7/16/2004	853021.00	252752.80	-27.91	1.60	3.94	Used
MW-341 (-21.64)	7/19/2004	853272.10	252817.70	-17.96	0.61	3.95	Used
MW-341 (-31.64)	7/19/2004	853899.00	252603.10	-20.44	0.35	3.95	Used
MW-341 (-41.64)	7/19/2004	851348.20	252749.60	-50.74	0.35	3.95	Used
MW-341 (-49.64)	7/19/2004	851336.40	252748.00	-57.69	0.53	3.95	Used
MW-341 (-61.64)	7/23/2004	851645.10	252723.30	-66.65	0.35	3.96	Used
MW-341 (-71.64)	7/23/2004	851641.50	252721.00	-75.42	0.35	3.96	Used
MW-341 (-81.64)	7/23/2004	852515.20	252672.50	-83.74	0.35	3.96	Used
MW-341M1	8/30/2004	851671.90	252721.60	-79.50	0.35	4.06	Used
MW-341M1	12/10/2004	851752.20	252719.70	-78.99	0.35	4.34	Used
MW-341M1	4/18/2005	851852.00	252714.80	-78.77	0.35	4.69	Used
MW-341M1	4/7/2006	852121.20	252701.50	-78.26	0.35	5.66	Used
MW-341M1	4/6/2007	852387.50	252690.10	-77.68	0.35	6.66	Used
MW-341M1	4/16/2008	852650.00	252678.60	-78.23	0.35	7.69	Used
MW-341M1	5/8/2009	852936.10	252662.20	-79.01	0.35	8.75	Used
MW-341M1	4/16/2010	853187.00	252647.30	-78.21	0.35	9.69	Used
MW-341M1	4/13/2011	853440.10	252632.50	-77.24	0.35	10.68	Used
MW-341M2	8/30/2004	851380.70	252750.80	-56.54	0.35	4.06	Used
MW-341M2	12/10/2004	851483.50	252748.10	-55.23	0.43	4.34	Used
MW-341M2	4/18/2005	851599.10	252741.40	-54.42	0.56	4.69	Used
MW-341M2	12/8/2005	851803.10	252729.40	-53.22	0.35	5.33	Used
MW-341M2	4/6/2007	852216.70	252708.80	-51.30	0.35	6.66	Used

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Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-341M2	5/8/2009	852809.00	252681.30	-54.21	0.50	8.75	Used
MW-341M2	4/16/2010	853101.20	252663.40	-52.64	0.74	9.69	Used
MW-341M2	4/14/2011	853390.00	252646.40	-50.50	0.64	10.68	Used
MW-341M2	5/1/2012	853676.20	252625.20	-48.79	0.72	11.73	Used
MW-341M3	11/26/2012	853794.40	252676.10	2.05	0.30	12.30	Used
MW-341M3	8/18/2004	851193.90	252852.80	-35.12	2.95	4.03	Used
MW-341M3	12/10/2004	851359.10	252879.10	-35.59	15.50	4.34	Used
MW-341M3	4/18/2005	851499.90	252869.80	-34.43	40.00	4.69	Used
MW-341M3	8/8/2005	851613.20	252862.20	-33.35	20.00	5.00	Used
MW-341M3	12/8/2005	851731.40	252854.90	-32.17	7.52	5.33	Used
MW-341M3	12/27/2006	852110.30	252837.70	-30.68	2.64	6.39	Used
MW-341M3	4/9/2007	852213.10	252833.10	-29.70	0.95	6.67	Used
MW-341M3	12/6/2007	852416.10	252825.90	-27.17	1.03	7.33	Used
MW-341M3	4/16/2008	852530.00	252821.30	-25.12	0.63	7.69	Used
MW-341M3	12/29/2008	852681.50	252819.60	-19.41	1.11	8.39	Used
MW-341M3	5/8/2009	852682.80	252818.60	-14.11	1.29	8.75	Used
MW-341M3	11/16/2009	852765.80	252811.60	-6.15	2.31	9.27	Used
MW-341M3	4/16/2010	852907.50	252802.40	-3.62	2.46	9.69	Used
MW-341M3	12/28/2010	853133.00	252789.60	-0.82	1.58	10.39	Used
MW-341M3	4/14/2011	853231.70	252783.80	0.26	0.98	10.68	Used
MW-341M3	12/13/2011	853510.90	252766.40	2.25	0.71	11.35	Used
MW-341M3	5/1/2012	853645.40	252749.90	1.53	0.70	11.73	Used
MW-341M4	8/31/2004	850274.70	252967.80	-20.79	14.70	4.06	Used
MW-341M4	12/10/2004	850437.80	252967.50	-20.01	0.44	4.34	Used
MW-341M4	8/2/2006	851099.50	252896.50	-12.18	0.35	5.98	Used
MW-341M4	5/8/2009	852222.80	252818.60	5.76	0.35	8.75	Used
MW-34M1	4/25/2012	857616.70	253736.10	-11.52	1.56	11.71	Used
MW-34M2	4/25/2012	857612.30	253730.90	6.90	0.76	11.71	Used
MW-352 (14.64)	9/30/2004	843291.50	253561.80	-70.64	0.35	4.15	Used
MW-352 (4.64)	10/1/2004	843574.90	253461.20	-72.95	0.35	4.15	Used
MW-352 (-5.36)	10/1/2004	843981.20	253365.40	-74.73	1.11	4.15	Used
MW-352 (-15.36)	10/1/2004	844350.00	253294.60	-76.06	0.44	4.15	Used
MW-352 (-25.36)	10/1/2004	844401.00	253266.40	-78.88	0.50	4.15	Used
MW-352M2	4/19/2005	844389.60	253318.50	-73.08	0.35	4.70	Used
MW-352M2	12/7/2005	844835.20	253275.90	-71.07	0.35	5.33	Used
MW-352M2	4/4/2006	845059.50	253256.30	-70.20	0.35	5.65	Used
MW-352M3	11/3/2004	843310.50	253568.00	-69.97	0.35	4.24	Used
MW-352M3	12/21/2006	844826.10	253361.30	-63.02	0.35	6.37	Used
MW-352M3	4/4/2007	845024.30	253342.40	-62.06	0.35	6.65	Used
MW-352M3	8/31/2007	845306.00	253317.10	-60.72	0.35	7.06	Used
MW-352M3	12/3/2007	845494.60	253300.50	-59.86	0.35	7.32	Used
MW-353 (-23.98)	10/20/2004	843139.90	253801.60	-71.78	0.35	4.20	Used
MW-353 (-53.98)	10/21/2004	844698.50	253514.50	-83.60	0.35	4.20	Used
MW-353 (-63.98)	10/21/2004	845270.60	253448.70	-87.64	0.35	4.20	Used
MW-353M1	11/22/2004	844864.30	253492.90	-84.22	0.35	4.29	Used
MW-353M1	4/21/2005	845093.10	253469.00	-83.55	0.35	4.70	Used
MW-353M1	8/8/2005	845258.10	253452.50	-83.07	0.35	5.00	Used
MW-353M1	12/7/2005	845439.60	253434.90	-82.53	0.35	5.33	Used
MW-353M1	4/4/2006	845615.00	253418.10	-82.00	0.35	5.65	Used
MW-353M1	8/4/2006	845794.30	253400.70	-81.45	0.35	5.99	Used
MW-353M1	12/20/2006	845994.20	253379.70	-80.89	0.35	6.37	Used
MW-353M1	4/4/2007	846146.20	253360.70	-80.78	0.35	6.65	Used
MW-353M1	4/9/2008	846772.70	253297.20	-78.16	0.42	7.67	Used
MW-353M1	12/17/2008	847217.70	253255.10	-76.32	0.35	8.36	Used
MW-353M1	4/13/2009	847421.90	253235.90	-75.56	0.35	8.68	Used
MW-353M1	7/30/2009	847609.50	253219.80	-75.00	0.35	8.98	Used

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-353M2	12/19/2005	843326.40	253799.70	-60.16	0.35	5.36	Used
MW-353M2	4/13/2009	846632.20	253361.40	-44.85	0.35	8.68	Used
MW-353M2	7/30/2009	846910.90	253335.80	-43.88	0.35	8.98	Used
MW-353M2	11/19/2009	847196.70	253310.00	-43.22	0.35	9.28	Used
MW-353M2	4/27/2010	847594.50	253277.60	-42.65	0.35	9.72	Used
MW-353M2	8/19/2010	847860.10	253262.30	-43.69	0.35	10.03	Used
MW-353M2	12/29/2010	848176.50	253238.90	-48.00	0.35	10.39	Used
MW-353M2	4/15/2011	848442.10	253216.50	-48.28	0.35	10.68	Used
MW-353M3	8/19/2010	848022.30	253254.80	-13.52	0.35	10.03	Used
MW-353M3	8/8/2005	843884.50	253735.60	-45.84	0.35	5.00	Used
MW-353M3	9/4/2008	846570.10	253409.40	-21.39	0.35	8.07	Used
MW-353M3	12/17/2008	846793.90	253386.50	-20.04	0.35	8.36	Used
MW-353M3	4/13/2009	847042.80	253361.40	-18.28	0.35	8.68	Used
MW-353M3	7/30/2009	847269.70	253338.30	-16.64	0.35	8.98	Used
MW-353M3	11/19/2009	847502.50	253314.40	-15.16	0.35	9.28	Used
MW-353M3	4/27/2010	847823.20	253282.00	-14.83	0.35	9.72	Used
MW-353M3	12/29/2010	848259.30	253233.90	-15.35	0.35	10.39	Used
MW-353M3	4/15/2011	848430.50	253213.90	-15.29	0.35	10.68	Used
MW-35M2	5/7/2001	853459.90	252980.90	0.85	0.35	0.75	Used
MW-35S	12/18/2000	852995.90	253125.60	2.82	0.35	0.36	Used
MW-35S	5/22/2001	853378.20	252989.90	3.74	0.35	0.79	Used
MW-35S	8/3/2001	853799.80	252907.20	-4.22	0.35	0.99	Used
MW-36M1	4/12/2011	857525.40	253695.20	-12.73	1.75	10.68	Used
MW-36M1	4/17/2012	857688.90	253814.00	-13.35	0.78	11.69	Used
MW-36M2	4/12/2011	857508.00	253681.60	4.13	1.70	10.68	Used
MW-36M2	4/17/2012	857686.20	253809.00	5.17	1.39	11.69	Used
MW-531 (-9.84)	1/12/2010	849924.20	252969.50	-29.06	0.39	9.43	Used
MW-531 (-19.84)	1/12/2010	849917.80	252969.00	-37.14	0.49	9.43	Used
MW-531 (-29.84)	1/14/2010	849944.20	252960.10	-44.90	0.06	9.44	Used
MW-531 (-39.84)	1/14/2010	850045.00	252934.60	-51.81	0.28	9.44	Used
MW-531 (-49.84)	1/14/2010	850044.80	252934.50	-59.91	0.23	9.44	Used
MW-531 (-99.84)	1/15/2010	850780.10	252819.60	-101.57	0.35	9.44	Used
MW-531 (-109.84)	1/15/2010	850803.40	252817.20	-110.99	0.35	9.44	Used
MW-531M1	4/24/2012	850834.80	252801.20	-52.26	0.35	11.71	Used
MW-532 (7.45)	1/19/2010	849410.80	253265.30	-24.93	1.00	9.45	Used
MW-532 (-2.55)	1/19/2010	849745.60	253191.10	-25.17	1.30	9.45	Used
MW-532 (-22.55)	1/20/2010	849737.70	253188.00	-40.98	6.30	9.45	Used
MW-532 (-32.55)	1/20/2010	849790.00	253173.30	-48.36	11.00	9.45	Used
MW-532 (-42.55)	1/20/2010	849878.50	253150.20	-55.23	4.20	9.45	Used
MW-532 (-52.55)	1/20/2010	849904.90	253143.00	-63.08	5.50	9.45	Used
MW-532M1	4/19/2010	850103.90	253099.60	-69.55	3.19	9.70	Used
MW-532M1	8/17/2010	850215.60	253077.00	-68.49	5.61	10.02	Used
MW-532M1	12/30/2010	850338.00	253054.50	-67.44	5.89	10.39	Used
MW-532M1	4/14/2011	850431.50	253038.80	-66.71	6.36	10.68	Used
MW-532M1	8/22/2011	850545.50	253021.30	-65.88	8.62	11.04	Used
MW-532M1	12/14/2011	850644.30	253007.30	-65.20	6.70	11.35	Used
MW-532M1	4/18/2012	850752.40	252993.30	-64.48	6.96	11.69	Used
MW-532M1	8/21/2012	850858.40	252980.60	-63.77	7.10	12.04	Used
MW-532M1	11/27/2012	850940.80	252971.30	-63.23	6.54	12.30	Used
MW-532M2	4/19/2010	849893.40	253149.00	-46.37	8.28	9.70	Used
MW-532M2	8/17/2010	850026.80	253117.60	-43.99	7.25	10.02	Used
MW-532M2	12/30/2010	850169.60	253086.50	-41.75	21.20	10.39	Used
MW-532M2	4/14/2011	850277.00	253065.40	-40.26	16.80	10.68	Used
MW-532M2	8/22/2011	850418.80	253040.50	-38.64	16.30	11.04	Used
MW-532M2	12/14/2011	850543.10	253021.20	-37.36	28.10	11.35	Used
MW-532M2	4/18/2012	850678.70	253002.30	-36.03	26.30	11.69	Used

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-532M2	8/21/2012	850811.70	252985.70	-34.76	29.40	12.04	Used
MW-532M2	11/27/2012	850914.90	252973.90	-33.78	27.90	12.30	Used
MW-533 (15.36)	1/7/2010	849639.10	252933.40	-18.73	0.36	9.42	Used
MW-542 (33.81)	2/2/2010	849006.00	253484.20	-8.15	0.35	9.49	Used
MW-542 (13.81)	2/2/2010	849239.00	253450.40	-23.15	0.39	9.49	Used
MW-544 (-16.30)	10/1/2010	847709.30	253401.20	-34.20	0.11	10.15	Used
MW-544 (-56.30)	10/4/2010	847722.60	253395.00	-65.41	0.54	10.16	Used
MW-544 (-66.30)	10/5/2010	847770.40	253395.30	-74.23	0.40	10.16	Used
MW-544 (-76.30)	10/5/2010	847998.90	253368.10	-83.27	0.59	10.16	Used
MW-544 (-86.30)	10/13/2010	848177.20	253346.90	-90.94	0.80	10.18	Used
MW-544 (-96.30)	10/13/2010	848178.70	253346.20	-96.78	0.95	10.18	Used
MW-544 (-116.30)	10/14/2010	848871.30	253226.00	-114.35	0.81	10.18	Used
MW-544 (-126.30)	10/19/2010	848871.80	253224.40	-125.80	0.35	10.20	Used
MW-544M1	12/13/2010	848273.40	253331.50	-95.04	0.78	10.35	Used
MW-544M1	6/21/2011	848595.00	253300.40	-94.54	5.80	10.87	Used
MW-544M1	7/20/2011	848642.60	253295.20	-94.42	4.14	10.95	Used
MW-544M1	9/20/2011	848738.60	253280.60	-94.16	4.01	11.12	Used
MW-544M1	12/21/2011	848883.20	253259.70	-93.58	3.43	11.37	Used
MW-544M1	3/20/2012	848997.00	253234.90	-93.22	2.17	11.61	Used
MW-544M1	5/31/2012	849060.00	253220.00	-93.27	0.84	11.81	Used
MW-544M1	12/11/2012	849190.60	253184.40	-93.34	0.70	12.34	Used
MW-544M2	3/20/2012	848633.30	253318.00	-60.07	0.11	11.61	Used
MW-545 (-0.20)	10/14/2010	847998.80	253503.00	-24.75	1.62	10.18	Used
MW-545 (-10.20)	10/14/2010	848013.80	253503.20	-35.45	3.42	10.18	Used
MW-545 (-20.20)	10/15/2010	847552.10	253572.80	-31.39	4.59	10.19	Used
MW-545 (-29.20)	10/15/2010	847371.10	253603.10	-37.62	6.58	10.19	Used
MW-545 (-40.20)	10/15/2010	847331.50	253606.50	-44.02	11.70	10.19	Used
MW-545 (-49.20)	10/18/2010	847699.30	253563.80	-54.12	12.30	10.19	Used
MW-545 (-59.20)	10/18/2010	847882.20	253524.00	-69.30	2.08	10.19	Used
MW-545 (-69.20)	10/19/2010	847893.70	253521.70	-77.21	3.78	10.20	Used
MW-545 (-76.20)	11/17/2010	848152.40	253486.10	-83.92	7.75	10.28	Used
MW-545 (-86.20)	11/17/2010	848383.40	253449.20	-90.97	10.70	10.28	Used
MW-545 (-106.20)	11/18/2010	848945.60	253339.20	-102.39	0.87	10.28	Used
MW-545 (-116.20)	11/18/2010	848944.10	253344.50	-114.14	0.87	10.28	Used
MW-545M1	12/7/2010	848955.50	253335.90	-100.10	0.87	10.33	Used
MW-545M1	12/10/2012	849285.00	253249.80	-101.61	1.48	12.34	Used
MW-545M2	12/7/2010	848424.90	253441.20	-89.88	12.20	10.33	Used
MW-545M2	6/16/2011	848895.90	253321.10	-88.49	7.05	10.85	Used
MW-545M3	12/6/2010	847480.70	253588.60	-45.89	8.96	10.33	Used
MW-545M3	6/16/2011	848153.90	253450.70	-61.20	7.00	10.85	Used
MW-545M4	12/8/2010	847956.20	253508.90	-39.36	2.94	10.33	Used
MW-545M4	6/16/2011	848125.20	253455.90	-44.61	2.54	10.85	Used
MW-545M4	9/20/2011	848336.70	253417.20	-48.47	1.24	11.12	Used
MW-546 (3.80)	10/22/2010	847986.00	253672.90	-19.84	0.07	10.20	Used
MW-546M2	12/10/2012	849224.20	253434.60	-47.01	0.08	12.34	Used
MW-554M1	5/20/2011	847544.90	253691.80	-75.14	5.09	10.78	Used
MW-554M1	6/29/2011	847616.80	253679.30	-75.02	5.38	10.89	Used
MW-554M1	9/23/2011	847761.00	253651.30	-71.69	5.30	11.12	Used
MW-554M1	12/22/2011	847904.00	253624.60	-72.02	5.07	11.37	Used
MW-554M1	6/1/2012	848183.70	253582.30	-72.91	2.43	11.81	Used
MW-554M2	5/20/2011	847185.10	253750.90	-33.91	3.02	10.78	Used
MW-554M2	6/29/2011	847266.00	253737.70	-33.46	2.68	10.89	Used
MW-554M2	9/23/2011	847441.70	253709.10	-32.16	2.65	11.12	Used
MW-554M2	12/27/2011	847637.40	253673.80	-31.87	2.81	11.38	Used
MW-554M2	12/12/2012	848443.20	253543.90	-42.37	0.63	12.35	Used
MW-556M1	12/26/2011	848046.20	253594.30	-108.38	6.85	11.38	Used

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Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-556M1	3/26/2012	848083.80	253588.80	-108.40	6.64	11.63	Used
MW-556M1	8/20/2012	848144.90	253580.10	-108.42	7.27	12.03	Used
MW-556M1	12/12/2012	848192.40	253573.30	-108.42	6.29	12.35	Used
MW-556M2	12/26/2011	847626.60	253732.30	-59.74	14.10	11.38	Used
MW-556M2	3/26/2012	847679.10	253679.70	-62.93	13.20	11.63	Used
MW-556M2	8/20/2012	847854.50	253622.20	-64.83	9.80	12.03	Used
MW-556M2	12/12/2012	848045.70	253593.40	-66.31	5.68	12.35	Used
MW-558M1	12/27/2011	847132.70	253558.70	-85.75	2.46	11.38	Used
MW-558M1	3/26/2012	847257.90	253543.00	-85.59	2.13	11.63	Used
MW-558M1	8/20/2012	847461.80	253516.90	-85.32	2.56	12.03	Used
MW-558M1	12/12/2012	847621.00	253496.80	-84.87	2.65	12.35	Used
MW-558M2	12/27/2011	846616.80	253620.30	-42.44	3.11	11.38	Used
MW-558M2	3/26/2012	846848.90	253592.00	-41.87	2.35	11.63	Used
MW-558M2	8/20/2012	847219.50	253546.90	-40.97	2.99	12.03	Used
MW-558M2	12/12/2012	847502.00	253511.30	-40.38	3.06	12.35	Used
MW-559 (-35.18)	5/12/2011	846204.30	253581.70	-38.16	1.54	10.76	Used
MW-559 (-45.18)	5/12/2011	845919.00	253610.90	-56.02	0.92	10.76	Used
MW-559 (-85.18)	5/16/2011	846715.00	253531.20	-87.53	2.68	10.77	Used
MW-559 (-95.18)	5/17/2011	846717.90	253529.00	-96.54	1.48	10.77	Used
MW-559 (-105.18)	5/18/2011	847391.70	253447.60	-106.09	1.33	10.77	Used
MW-559 (-115.18)	5/18/2011	847392.10	253447.50	-115.67	1.20	10.77	Used
MW-559 (-125.18)	5/19/2011	847392.50	253447.50	-125.33	0.60	10.78	Used
MW-559M1	8/20/2012	847388.40	253475.90	-89.03	2.04	12.03	Used
MW-559M1	12/11/2012	847545.60	253456.40	-88.74	2.02	12.34	Used
MW-559M1	12/27/2011	847059.90	253516.10	-91.13	2.11	11.38	Used
MW-560 (-99.17)	6/13/2011	847226.90	253313.30	-99.65	0.61	10.85	Used
MW-565 (19.76)	8/26/2011	845898.00	253464.60	2.54	0.41	11.05	Used
MW-565 (-47.49)	8/30/2011	845873.30	253475.40	-54.41	0.47	11.06	Used
MW-565 (-56.99)	8/31/2011	845947.80	253454.10	-61.27	0.83	11.06	Used
MW-565 (-66.99)	9/1/2011	846336.00	253410.50	-74.97	0.79	11.06	Used
MW-565 (-76.99)	9/1/2011	846418.70	253415.60	-82.31	0.83	11.06	Used
MW-565 (-96.99)	9/2/2011	846546.30	253401.40	-98.29	0.59	11.07	Used
MW-569 (-9.99)	11/7/2011	844981.50	253740.20	-22.93	0.80	11.25	Used
MW-569 (-19.99)	11/7/2011	844983.40	253739.50	-32.27	1.01	11.25	Used
MW-569 (-29.99)	11/7/2011	844935.40	253744.90	-41.71	2.42	11.25	Used
MW-569 (-39.99)	11/7/2011	844753.80	253767.80	-50.54	2.46	11.25	Used
MW-569 (-49.99)	11/7/2011	844782.20	253765.40	-60.15	2.26	11.25	Used
MW-569 (-59.99)	11/8/2011	845222.10	253711.80	-66.58	1.80	11.25	Used
MW-569 (-69.99)	11/8/2011	845222.30	253711.80	-71.15	1.45	11.25	Used
MW-569 (-79.99)	11/8/2011	845286.30	253702.90	-81.26	0.81	11.25	Used
MW-569 (-89.99)	11/8/2011	845373.10	253694.20	-90.76	0.40	11.25	Used
MW-569 (-99.99)	11/8/2011	845714.60	253658.10	-100.38	0.51	11.25	Used
MW-569 (-109.99)	11/9/2011	845895.10	253640.00	-110.06	0.41	11.25	Used
MW-571 (3.75)	11/18/2011	844766.80	253663.40	-8.86	0.41	11.28	Used
MW-571 (-6.25)	11/18/2011	844821.20	253656.80	-17.69	1.17	11.28	Used
MW-571 (-16.25)	11/18/2011	844821.40	253656.80	-26.53	3.19	11.28	Used
MW-571 (-26.25)	11/18/2011	844821.60	253656.80	-35.34	2.71	11.28	Used
MW-571 (-56.25)	11/21/2011	844701.50	253672.00	-61.20	2.75	11.29	Used
MW-571 (-66.25)	11/21/2011	845019.70	253633.50	-69.96	3.40	11.29	Used
MW-571 (-76.25)	11/21/2011	845019.50	253633.40	-78.89	1.79	11.29	Used
MW-571 (-86.25)	11/21/2011	845208.00	253612.30	-87.97	1.09	11.29	Used
MW-571 (-96.25)	11/22/2011	845209.00	253612.10	-97.17	0.67	11.29	Used
MW-571 (-106.25)	11/22/2011	845725.50	253558.00	-106.63	0.67	11.29	Used
MW-598M1	3/5/2013	844334.10	253654.40	-62.67	0.91	12.57	Used
MW-598M2	3/5/2013	844324.20	253656.00	-29.19	1.06	12.57	Used
MW-73S	9/27/2003	858249.90	253590.80	30.63	3.90	3.14	Used

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Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-73S	2/28/2004	858322.50	253625.80	16.01	3.00	3.56	Used
MW-73S	6/1/2004	858436.50	253673.40	13.27	2.46	3.81	Used
MW-73S	8/8/2005	858745.30	253776.60	15.48	1.00	5.00	Used
MW-73S	12/13/2005	858820.10	253800.20	17.07	0.35	5.35	Used
MW-73S	4/12/2006	858887.90	253821.50	18.67	0.53	5.68	Used
MW-73S	1/3/2007	859039.80	253869.40	22.50	0.35	6.40	Used
MW-73S	4/30/2007	859105.80	253890.30	24.27	0.35	6.73	Used
MW-73S	12/7/2007	859227.80	253929.30	27.75	0.35	7.33	Used
MW-73S	4/24/2008	859305.30	253954.30	30.02	1.10	7.71	Used
MW-73S	12/29/2008	859441.40	253998.80	34.24	0.99	8.39	Used
MW-73S	4/29/2009	859505.80	254020.10	36.36	0.90	8.72	Used
MW-73S	11/16/2009	859610.30	254055.00	39.99	0.60	9.27	Used
MW-73S	4/22/2010	859689.20	254081.50	42.91	0.92	9.70	Used
MW-73S	4/18/2011	859864.00	254140.60	49.88	0.55	10.69	Used
MW-74M1	12/4/2003	857337.40	253562.70	-13.13	0.90	3.32	Used
MW-74M1	3/2/2004	857455.90	253611.60	-17.78	0.42	3.57	Used
MW-74M1	4/5/2004	857486.80	253620.60	-18.39	0.35	3.66	Used
MW-74M1	8/3/2004	857575.00	253639.00	-19.39	0.35	3.99	Used
MW-74M1	12/8/2004	857619.50	253631.80	-18.89	0.35	4.34	Used
MW-74M1	6/22/2005	857713.30	253627.90	-17.33	0.35	4.87	Used
MW-74M1	4/20/2006	857855.00	253617.30	-12.74	0.35	5.70	Used
MW-74M1	4/23/2007	857985.00	253641.30	-9.31	0.35	6.71	Used
MW-74M2	6/22/2005	857535.40	253575.10	7.90	0.72	4.87	Used
MW-74M2	12/14/2005	857705.20	253579.60	10.01	0.49	5.35	Used
MW-74M2	4/21/2006	857807.60	253579.00	12.77	0.58	5.70	Used
MW-74M2	4/24/2007	858056.90	253580.70	22.55	0.35	6.71	Used
MW-74M2	4/23/2008	858031.00	253668.30	18.29	0.35	7.71	Used
MW-74M2	4/29/2009	858081.30	253848.90	16.03	0.35	8.72	Used
MW-74M2	4/8/2010	858217.30	254002.30	17.69	0.54	9.67	Used
MW-74M3	4/21/2006	857771.20	253553.10	24.63	0.35	5.70	Used
MW-75M1	12/3/2003	857522.50	253505.70	-2.05	0.61	3.32	Used
MW-75M1	2/25/2004	857958.60	253524.80	12.93	0.37	3.55	Used
MW-75M1	4/28/2009	858249.90	253590.80	27.31	0.35	8.72	Used
MW-75M2	4/7/2004	857594.80	253492.50	10.55	2.59	3.66	Used
MW-75M2	4/8/2010	858220.40	253755.50	20.08	0.36	9.67	Used
MW-75M2	4/18/2011	858424.10	253958.10	20.06	0.51	10.69	Used
MW-75M2	4/23/2012	858659.50	254073.60	24.76	0.68	11.71	Used
MW-76M1	4/24/2002	857518.70	253468.90	1.79	15.30	1.71	Used
MW-76M1	4/8/2010	858250.00	253590.80	35.68	0.90	9.67	Used
MW-76M1	12/22/2010	858293.00	253615.10	7.12	1.05	10.37	Used
MW-76M2	12/22/2010	858249.90	253590.80	27.05	1.14	10.37	Used
MW-76M2	4/20/2011	858406.70	253672.40	19.62	0.92	10.70	Used
MW-76M2	12/27/2011	858616.80	253751.70	19.90	0.44	11.38	Used
MW-76S	11/18/2002	857759.50	253478.30	19.71	26.00	2.28	Used
MW-76S	4/20/2011	858373.90	253656.80	36.18	0.74	10.70	Used
MW-76S	4/23/2012	858703.20	253779.40	39.89	0.85	11.71	Used
MW-77M1	12/26/2001	857765.90	253489.30	-10.19	0.44	1.38	Used
MW-77M1	4/21/2009	858249.90	253590.80	30.33	0.35	8.70	Used
MW-77M2	12/21/2010	858332.60	253737.30	18.99	0.48	10.37	Used
MW-78M2	4/20/2011	858467.90	253593.40	18.80	0.60	10.70	Used
MW-78M2	4/23/2012	858758.50	253656.40	21.29	0.47	11.71	Used
MW-79M1	4/12/2006	859891.00	254085.40	-27.91	0.35	5.68	Used
MW-79M2	12/7/2000	858869.60	253756.50	-19.72	0.35	0.33	Used
MW-79M2	8/16/2001	858999.20	253795.80	-17.73	0.35	1.02	Used
MW-79M2	4/25/2002	859122.30	253834.00	-15.48	0.35	1.71	Used
MW-79M2	5/15/2003	859301.20	253890.90	-11.72	0.35	2.77	Used

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-79M2	9/29/2004	859522.30	253963.10	-6.34	0.35	4.14	Used
MW-79M2	4/30/2005	859612.00	253992.90	-3.92	0.35	4.73	Used
MW-79M2	4/12/2006	859755.00	254040.90	0.20	0.35	5.68	Used
MW-79M2	4/27/2007	859914.50	254095.30	4.97	0.35	6.72	Used
MW-79S	12/7/2000	858753.70	253722.00	-5.63	0.35	0.33	Used
MW-79S	8/16/2001	858890.90	253762.70	-3.35	0.35	1.02	Used
MW-79S	9/29/2004	859448.90	253938.70	10.37	0.35	4.14	Used
MW-79S	4/30/2005	859545.30	253970.50	13.31	0.35	4.73	Used
MW-79S	4/12/2006	859698.00	254021.50	18.30	0.35	5.68	Used
MW-79S	4/27/2007	859870.80	254080.20	24.10	0.35	6.72	Used
XX9514	4/22/2010	847748.70	253458.50	-63.26	0.79	9.70	Used
XX9514	12/23/2010	848254.10	253407.70	-67.79	3.85	10.37	Used
XX9514	4/15/2011	848586.70	253380.30	-68.94	4.58	10.68	Used
XX9514	8/23/2011	849284.30	253248.50	-67.48	9.59	11.04	Used
XX9514	12/13/2011	849284.30	253248.50	-65.40	5.08	11.35	Used
XX9514	4/17/2012	849284.30	253248.50	-62.33	3.22	11.69	Used
XX9514	11/20/2012	849288.70	253245.10	-55.05	2.96	12.29	Used
BH-581 (-66.00)	6/26/2012	844517.60	253747.70	-68.41	0.40	11.88	Deleted
BH-581 (-76.00)	6/26/2012	844517.30	253747.70	-77.77	0.23	11.88	Deleted
BH-581 (-86.00)	6/27/2012	844627.40	253732.20	-87.17	0.13	11.89	Deleted
BH-581 (-106.00)	6/27/2012	844928.00	253693.60	-106.35	0.28	11.89	Deleted
BH-581 (-116.00)	6/28/2012	844928.40	253693.50	-116.21	0.05	11.89	Deleted
BH-581 (-124.00)	6/28/2012	844928.30	253693.40	-124.09	0.04	11.89	Deleted
BH-582 (15.77)	7/9/2012	844331.00	253674.10	6.96	0.09	11.92	Deleted
BH-582 (8.32)	7/9/2012	844330.90	253674.20	0.00	0.06	11.92	Deleted
BH-582 (-1.68)	7/9/2012	844432.80	253658.90	-8.79	0.33	11.92	Deleted
BH-582 (-61.68)	7/10/2012	844536.80	253644.40	-64.22	0.40	11.92	Deleted
BH-582 (-81.68)	7/11/2012	844640.50	253630.80	-83.00	0.31	11.92	Deleted
BH-582 (-101.68)	7/11/2012	844924.70	253596.60	-102.08	0.11	11.92	Deleted
BH-582 (-111.68)	7/12/2012	844925.00	253596.50	-111.94	0.09	11.93	Deleted
BH-582 (-121.68)	7/12/2012	844925.00	253596.50	-121.80	0.08	11.93	Deleted
BH-583 (23.40)	7/13/2012	844276.90	253606.70	11.62	0.22	11.93	Deleted
BH-583 (13.40)	7/13/2012	844274.40	253606.30	3.39	0.07	11.93	Deleted
BH-583 (5.90)	7/13/2012	844296.80	253602.80	-3.04	0.12	11.93	Deleted
BH-583 (-54.10)	7/16/2012	844257.90	253607.10	-57.66	0.38	11.94	Deleted
BH-583 (-94.10)	7/17/2012	844581.10	253564.20	-94.83	0.25	11.94	Deleted
BH-583 (-104.10)	7/18/2012	844859.30	253531.60	-104.46	0.11	11.94	Deleted
BH-583 (-114.10)	7/18/2012	844859.20	253531.60	-114.32	0.14	11.94	Deleted
BH-583 (-124.10)	7/18/2012	844859.10	253531.60	-124.18	0.09	11.94	Deleted
BH-597 (25.60)	1/22/2013	849657.00	253036.80	20.13	0.35	12.46	Deleted
BH-597 (15.60)	1/22/2013	849658.50	253037.00	11.00	0.35	12.46	Deleted
BH-597 (5.60)	1/22/2013	849659.20	253037.00	1.62	0.35	12.46	Deleted
BH-597 (-4.40)	1/23/2013	849706.00	253019.60	-7.91	0.06	12.46	Deleted
BH-597 (-14.40)	1/23/2013	849704.90	253018.50	-17.59	0.05	12.46	Deleted
BH-597 (-24.40)	1/23/2013	849703.70	253017.30	-27.27	0.06	12.46	Deleted
BH-597 (-34.40)	1/23/2013	849702.50	253016.20	-36.92	0.07	12.46	Deleted
BH-597 (-44.40)	1/23/2013	849710.60	253012.60	-46.54	0.07	12.46	Deleted
BH-597 (-64.40)	1/23/2013	849718.50	253008.80	-65.79	0.11	12.46	Deleted
BH-597 (-74.40)	1/23/2013	849718.00	253008.40	-75.42	0.12	12.46	Deleted
BH-597 (-84.40)	1/24/2013	849746.30	253000.70	-85.11	0.13	12.46	Deleted
BH-597 (-94.40)	1/24/2013	849746.10	253000.50	-94.89	0.10	12.46	Deleted
BH-597 (-104.40)	1/24/2013	849763.90	252995.70	-104.70	0.11	12.46	Deleted
BH-597 (-114.40)	1/24/2013	849763.80	252995.40	-114.58	0.10	12.46	Deleted
BH-597 (-124.40)	1/24/2013	849763.80	252995.30	-124.46	0.11	12.46	Deleted
BH-598 (2.21)	2/4/2013	844241.10	253667.90	-1.43	0.11	12.49	Deleted
BH-598 (-97.79)	2/6/2013	844300.90	253658.40	-97.93	0.27	12.50	Deleted

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
BH-598 (-107.79)	2/6/2013	844359.40	253650.10	-107.87	0.06	12.50	Deleted
DP-515 (23.77)	11/5/2008	846248.90	253460.00	-14.43	0.35	8.24	Deleted
DP-515 (-6.23)	11/7/2008	846249.70	253415.30	-42.67	0.35	8.25	Deleted
DP-515 (-16.23)	11/7/2008	846111.60	253424.40	-51.54	0.35	8.25	Deleted
DP-515 (-26.23)	11/7/2008	846111.90	253398.80	-58.53	0.35	8.25	Deleted
DP-515 (-46.23)	11/7/2008	847109.00	253284.60	-70.30	0.35	8.25	Deleted
DP-515 (-56.23)	11/7/2008	847169.90	253275.40	-76.67	0.35	8.25	Deleted
DP-516 (32.89)	11/10/2008	846257.90	253406.80	-11.39	0.35	8.26	Deleted
DP-516 (12.89)	11/10/2008	847109.30	253293.10	-35.18	0.35	8.26	Deleted
DP-516 (-17.11)	11/11/2008	846308.50	253270.30	-60.88	0.35	8.26	Deleted
DP-516 (-26.61)	11/11/2008	847015.40	253190.40	-63.19	0.35	8.26	Deleted
DP-516 (-36.61)	11/11/2008	847140.60	253163.10	-68.88	0.35	8.26	Deleted
DP-516 (-46.61)	11/11/2008	847203.60	253147.10	-74.39	0.35	8.26	Deleted
DP-516 (-54.11)	11/11/2008	847229.90	253136.10	-78.47	0.35	8.26	Deleted
DP-517 (43.69)	11/12/2008	846880.10	253226.40	-48.21	0.35	8.26	Deleted
DP-517 (33.69)	11/12/2008	846700.70	253234.20	-50.88	0.35	8.26	Deleted
DP-517 (23.69)	11/12/2008	846614.70	253224.70	-54.17	0.35	8.26	Deleted
DP-517 (13.69)	11/12/2008	846583.70	253191.60	-57.65	0.35	8.26	Deleted
DP-517 (3.69)	11/12/2008	846685.90	253147.80	-61.04	0.35	8.26	Deleted
DP-517 (-6.31)	11/12/2008	847235.00	253076.50	-62.48	0.35	8.26	Deleted
DP-517 (-16.31)	11/12/2008	847277.40	253052.30	-66.27	0.35	8.26	Deleted
DP-517 (-26.31)	11/12/2008	847316.40	253032.70	-70.34	0.35	8.26	Deleted
DP-517 (-36.31)	11/12/2008	847350.00	253015.50	-74.69	0.35	8.26	Deleted
DP-517 (-46.31)	11/12/2008	847372.90	253000.40	-79.01	0.35	8.26	Deleted
DP-517 (-56.31)	11/12/2008	847706.60	252963.80	-83.56	0.35	8.26	Deleted
DP-517 (-58.81)	11/17/2008	847740.80	252959.30	-84.95	0.35	8.28	Deleted
DP-517 (-66.31)	11/18/2008	847859.00	252944.60	-88.89	0.35	8.28	Deleted
DP-517 (-76.31)	11/18/2008	848131.20	252914.50	-94.39	0.35	8.28	Deleted
DP-517 (-86.31)	11/18/2008	848296.10	252895.50	-98.26	0.35	8.28	Deleted
DP-518 (15.00)	11/13/2008	845748.50	253190.50	-24.55	0.35	8.27	Deleted
DP-518 (5.00)	11/13/2008	846184.60	253149.00	-31.69	0.35	8.27	Deleted
DP-518 (-5.00)	11/13/2008	846293.20	253132.50	-40.05	0.35	8.27	Deleted
DP-518 (-15.00)	11/13/2008	845706.80	253175.40	-48.99	0.35	8.27	Deleted
DP-518 (-25.00)	11/13/2008	845227.10	253205.20	-56.26	0.35	8.27	Deleted
DP-518 (-35.00)	11/13/2008	845288.30	253203.10	-61.50	0.35	8.27	Deleted
DP-518 (-45.00)	11/13/2008	845782.60	253158.60	-66.52	0.35	8.27	Deleted
DP-518 (-55.00)	11/13/2008	846379.50	253106.70	-71.46	0.35	8.27	Deleted
DP-518 (-65.00)	11/13/2008	846435.20	253102.10	-78.45	0.35	8.27	Deleted
DP-518 (-75.00)	11/13/2008	846943.80	253058.70	-84.95	0.35	8.27	Deleted
DP-518 (-82.30)	11/13/2008	847052.10	253049.80	-90.37	0.35	8.27	Deleted
DP-520 (20.78)	11/20/2008	845535.60	252932.10	-21.89	0.35	8.29	Deleted
DP-520 (10.78)	11/20/2008	845888.80	252906.90	-29.09	0.35	8.29	Deleted
DP-520 (0.78)	11/20/2008	846097.00	252885.10	-37.68	0.35	8.29	Deleted
DP-520 (-9.22)	11/20/2008	846009.10	252881.50	-44.20	0.35	8.29	Deleted
DP-520 (-19.22)	11/20/2008	845238.20	252921.90	-53.09	0.35	8.29	Deleted
DP-520 (-29.22)	11/20/2008	845049.40	252929.50	-59.36	0.35	8.29	Deleted
DP-520 (-39.22)	11/20/2008	845439.00	252905.40	-64.71	0.35	8.29	Deleted
DP-520 (-49.22)	11/20/2008	846199.80	252855.10	-69.39	0.35	8.29	Deleted
DP-520 (-59.22)	11/20/2008	846294.20	252846.00	-76.23	0.35	8.29	Deleted
DP-520 (-69.22)	11/20/2008	846474.30	252834.70	-82.10	0.35	8.29	Deleted
DP-551 (17.70)	1/25/2011	846831.50	253534.90	2.34	0.20	10.47	Deleted
DP-551 (7.70)	1/25/2011	846964.70	253519.30	-4.86	0.16	10.47	Deleted
DP-551 (-2.30)	1/25/2011	847338.80	253475.80	-10.11	0.17	10.47	Deleted
DP-551 (-12.30)	1/25/2011	847345.70	253476.00	-16.12	0.16	10.47	Deleted
DP-551 (-22.30)	1/25/2011	847355.40	253475.30	-21.93	0.10	10.47	Deleted
DP-551 (-32.30)	1/25/2011	847367.90	253473.90	-27.51	0.10	10.47	Deleted

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Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
DP-551 (-42.30)	1/25/2011	846870.60	253533.00	-35.55	0.09	10.47	Deleted
DP-551 (-52.30)	1/26/2011	846694.60	253551.90	-43.24	0.09	10.47	Deleted
DP-552 (16.89)	1/26/2011	846811.90	253592.00	2.01	0.20	10.47	Deleted
DP-552 (6.89)	1/26/2011	846958.30	253574.80	-5.01	0.21	10.47	Deleted
DP-552 (-3.11)	1/26/2011	847315.70	253531.60	-10.07	0.19	10.47	Deleted
DP-552 (-13.11)	1/26/2011	847320.80	253531.80	-16.10	0.12	10.47	Deleted
DP-552 (-23.11)	1/27/2011	847332.10	253531.20	-21.98	0.14	10.47	Deleted
DP-552 (-33.11)	1/27/2011	847344.20	253530.40	-27.75	0.09	10.47	Deleted
DP-552 (-43.11)	1/28/2011	846858.90	253590.60	-36.74	0.14	10.47	Deleted
DP-552 (-53.11)	1/28/2011	846678.90	253611.40	-45.46	0.10	10.47	Deleted
DP-552 (-63.11)	1/28/2011	847657.30	253463.50	-57.84	0.09	10.47	Deleted
DP-553 (17.43)	1/31/2011	846800.60	253634.90	2.57	0.20	10.48	Deleted
DP-553 (7.43)	1/31/2011	846888.00	253624.70	-4.81	0.18	10.48	Deleted
DP-553 (-2.57)	2/1/2011	847298.40	253574.00	-9.36	0.19	10.48	Deleted
DP-553 (-12.57)	2/1/2011	847305.40	253574.40	-15.31	0.20	10.48	Deleted
DP-553 (-22.57)	2/1/2011	847314.30	253574.20	-21.12	0.11	10.48	Deleted
DP-553 (-32.57)	2/1/2011	847326.10	253574.10	-26.80	0.13	10.48	Deleted
DP-554 (22.45)	2/3/2011	846916.40	253776.20	5.81	0.21	10.49	Deleted
DP-554 (12.45)	2/3/2011	846947.10	253773.60	-2.14	0.09	10.49	Deleted
DP-554 (2.45)	2/4/2011	847346.60	253722.80	-6.95	0.15	10.49	Deleted
DP-554 (-7.55)	2/4/2011	847452.00	253710.80	-13.04	0.38	10.49	Deleted
DP-554 (-52.55)	3/1/2011	846840.80	253810.30	-53.98	1.15	10.56	Deleted
DP-554 (-92.55)	3/3/2011	847676.30	253675.00	-93.60	1.42	10.57	Deleted
DP-555 (24.80)	2/9/2011	846960.70	253831.70	7.39	0.15	10.51	Deleted
DP-555 (14.80)	2/9/2011	846975.20	253830.80	-1.03	0.31	10.51	Deleted
DP-555 (4.80)	2/10/2011	847282.10	253794.20	-7.24	0.10	10.51	Deleted
DP-555 (-5.20)	2/10/2011	847500.40	253765.40	-12.91	0.10	10.51	Deleted
DP-555 (-45.20)	2/10/2011	846816.30	253863.40	-49.59	0.44	10.51	Deleted
DP-556 (27.38)	2/16/2011	846405.90	253818.00	7.26	0.16	10.53	Deleted
DP-556 (17.38)	2/16/2011	846413.40	253817.90	-0.74	0.17	10.53	Deleted
DP-556 (7.38)	2/16/2011	846511.00	253808.90	-8.43	0.09	10.53	Deleted
DP-556 (-2.62)	2/16/2011	846788.50	253779.80	-12.73	0.20	10.53	Deleted
DP-556 (-29.62)	2/17/2011	846803.80	253785.50	-29.12	1.84	10.53	Deleted
DP-556 (-128.62)	3/22/2011	847932.20	253610.70	-128.62	0.14	10.62	Deleted
DP-557 (27.69)	2/18/2011	845929.80	254011.10	6.12	0.11	10.53	Deleted
DP-557 (17.69)	2/18/2011	845958.20	254007.70	-1.99	0.05	10.53	Deleted
DP-557 (7.69)	2/18/2011	846076.30	253994.50	-10.22	0.04	10.53	Deleted
DP-557 (-2.31)	2/18/2011	846209.50	253980.00	-18.18	0.05	10.53	Deleted
DP-557 (-12.31)	2/18/2011	846208.30	253979.40	-26.50	0.21	10.53	Deleted
DP-557 (-42.31)	2/22/2011	845875.30	254010.20	-51.56	0.22	10.54	Deleted
DP-557 (-46.81)	2/22/2011	845875.30	254009.40	-55.23	0.24	10.54	Deleted
DP-557 (-68.31)	4/1/2011	846553.20	253930.20	-71.60	0.23	10.65	Deleted
DP-557 (-78.31)	4/1/2011	846587.90	253930.50	-80.41	0.19	10.65	Deleted
DP-557 (-88.31)	4/4/2011	846812.50	253906.80	-89.57	0.25	10.65	Deleted
DP-557 (-98.31)	4/4/2011	846811.50	253906.00	-98.93	0.06	10.65	Deleted
DP-557 (-108.31)	4/5/2011	847513.70	253816.40	-108.58	0.12	10.66	Deleted
DP-557 (-118.31)	4/5/2011	847512.50	253814.10	-118.45	0.24	10.66	Deleted
DP-557 (-128.31)	4/7/2011	847512.70	253813.10	-128.33	0.20	10.66	Deleted
DP-558 (-7.85)	2/28/2011	846265.80	253782.40	-21.28	0.21	10.56	Deleted
DP-558 (-17.85)	2/28/2011	846264.80	253783.50	-29.22	0.31	10.56	Deleted
DP-558 (-23.85)	2/28/2011	846266.80	253783.20	-33.93	0.19	10.56	Deleted
DP-558 (-86.85)	4/29/2011	846884.70	253699.90	-89.41	4.28	10.72	Deleted
DP-558 (-116.85)	5/4/2011	847566.50	253610.40	-117.20	0.27	10.74	Deleted
DP-558 (-126.85)	5/5/2011	847566.30	253609.80	-126.93	0.14	10.74	Deleted
MW-129M1	5/3/2011	857579.40	253437.40	-6.26	0.10	10.73	Deleted
MW-129M1	5/3/2012	857746.70	253447.10	-5.61	0.02	11.74	Deleted

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-129M2	12/27/2010	857469.20	253450.60	10.47	0.06	10.39	Deleted
MW-129M2	5/3/2011	857559.10	253437.40	10.58	0.07	10.73	Deleted
MW-129M2	12/13/2011	857677.10	253439.40	11.78	0.05	11.35	Deleted
MW-129M2	5/3/2012	857740.30	253445.10	12.81	0.04	11.74	Deleted
MW-129M3	5/3/2011	857518.20	253441.60	27.10	0.23	10.73	Deleted
MW-129M3	5/3/2012	857728.50	253444.80	31.03	0.15	11.74	Deleted
MW-139M1	4/25/2012	856935.10	253490.60	-37.94	0.01	11.71	Deleted
MW-139M2	4/25/2012	856919.50	253492.00	-4.30	0.19	11.71	Deleted
MW-139M3	4/28/2011	856747.30	253446.80	-19.10	0.12	10.72	Deleted
MW-162M1	4/18/2006	857415.90	253451.80	-32.34	0.35	5.69	Deleted
MW-162M2	3/29/2012	858250.00	253590.80	36.60	0.04	11.64	Deleted
MW-165M2	3/29/2012	856747.30	253446.80	-17.31	0.14	11.64	Deleted
MW-172M1	4/13/2006	855583.40	253196.50	-67.47	0.35	5.68	Deleted
MW-172M1	4/13/2007	855787.20	253176.20	-78.25	0.35	6.68	Deleted
MW-172M1	4/18/2008	856015.40	253188.00	-79.12	0.35	7.69	Deleted
MW-172M1	5/7/2009	856199.30	253177.60	-78.94	0.35	8.75	Deleted
MW-172M1	4/14/2010	856344.60	253163.60	-78.72	0.08	9.68	Deleted
MW-172M1	4/27/2011	856493.00	253141.30	-78.25	0.03	10.72	Deleted
MW-172M2	4/13/2007	855634.20	253210.70	-52.08	0.25	6.68	Deleted
MW-172M2	5/7/2009	856148.20	253235.50	-52.21	0.35	8.75	Deleted
MW-172M2	4/14/2010	856306.80	253218.60	-51.58	0.13	9.68	Deleted
MW-172M2	4/27/2011	856467.20	253190.30	-50.30	0.12	10.72	Deleted
MW-172M2	3/29/2012	856599.60	253145.70	-48.92	0.12	11.64	Deleted
MW-172M3	4/14/2010	856128.40	253345.40	-0.73	0.03	9.68	Deleted
MW-172M3	4/27/2011	856358.40	253318.10	3.15	0.10	10.72	Deleted
MW-173M1	7/18/2001	850527.90	253427.40	-71.06	0.35	0.94	Deleted
MW-173M1	11/8/2001	850633.60	253409.60	-70.42	0.35	1.25	Deleted
MW-173M1	1/25/2002	850706.00	253397.90	-69.98	0.35	1.47	Deleted
MW-173M1	3/15/2002	850751.00	253390.60	-69.71	0.35	1.60	Deleted
MW-173M1	4/23/2002	850786.70	253384.90	-69.50	0.35	1.71	Deleted
MW-173M1	5/28/2003	851146.90	253329.30	-67.16	0.35	2.80	Deleted
MW-173M1	4/19/2004	851370.10	253286.00	-64.85	0.35	3.70	Deleted
MW-173M1	4/18/2005	851608.70	253246.80	-62.13	0.35	4.69	Deleted
MW-173M1	4/10/2006	851893.40	253223.70	-60.50	0.35	5.67	Deleted
MW-173M1	4/10/2007	852192.30	253202.90	-59.47	0.35	6.67	Deleted
MW-173M2	7/19/2001	853182.80	253155.50	-46.08	0.35	0.95	Deleted
MW-173M2	11/8/2001	853479.50	253152.20	-43.39	0.35	1.25	Deleted
MW-173M2	1/25/2002	853670.50	253157.10	-41.87	0.35	1.47	Deleted
MW-175M1	8/13/2001	851901.20	253520.40	-88.85	0.35	1.01	Deleted
MW-175M1	11/7/2001	851944.00	253515.50	-88.71	0.35	1.25	Deleted
MW-175M1	1/28/2002	851984.50	253510.70	-88.59	0.35	1.47	Deleted
MW-175M1	4/18/2002	852024.00	253506.00	-88.48	0.35	1.69	Deleted
MW-175M1	8/12/2002	852081.10	253499.20	-88.35	0.35	2.01	Deleted
MW-175M1	11/15/2002	852127.80	253493.60	-88.24	0.35	2.27	Deleted
MW-175M1	5/22/2003	852219.80	253482.20	-88.05	0.35	2.79	Deleted
MW-175M1	9/30/2003	852283.50	253474.20	-87.93	0.35	3.14	Deleted
MW-175M1	12/31/2003	852328.00	253468.60	-87.83	0.35	3.40	Deleted
MW-175M1	4/16/2004	852379.40	253462.20	-87.72	0.35	3.69	Deleted
MW-175M1	7/28/2004	852428.60	253456.10	-87.62	0.35	3.97	Deleted
MW-175M1	4/8/2005	852547.30	253445.00	-87.53	0.35	4.67	Deleted
MW-175M1	4/11/2006	852715.60	253436.40	-87.85	0.35	5.67	Deleted
MW-175M1	4/10/2007	852885.50	253428.20	-88.65	0.35	6.67	Deleted
MW-175M2	8/14/2001	851649.70	253500.30	-50.57	0.35	1.02	Deleted
MW-175M2	11/8/2001	851729.40	253493.00	-49.97	0.35	1.25	Deleted
MW-175M2	1/28/2002	851803.40	253486.40	-49.41	0.35	1.47	Deleted
MW-175M2	4/18/2002	851875.80	253480.30	-48.87	0.35	1.69	Deleted

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-175M2	8/13/2002	851980.60	253472.10	-48.22	0.35	2.01	Deleted
MW-175M2	11/15/2002	852065.20	253465.80	-47.90	0.35	2.27	Deleted
MW-175M2	5/22/2003	852235.30	253453.50	-47.39	0.35	2.79	Deleted
MW-175M2	9/30/2003	852353.10	253445.80	-46.68	0.35	3.14	Deleted
MW-175M2	12/31/2003	852433.60	253441.30	-46.06	0.35	3.40	Deleted
MW-175M2	4/16/2004	852523.90	253437.00	-45.30	0.35	3.69	Deleted
MW-175M2	7/28/2004	852607.50	253434.10	-44.61	0.35	3.97	Deleted
MW-175M2	12/7/2004	852711.50	253426.50	-44.82	0.35	4.33	Deleted
MW-175M2	4/8/2005	852798.70	253426.00	-46.20	0.35	4.67	Deleted
MW-175M2	8/4/2005	852893.00	253419.50	-49.58	0.35	4.99	Deleted
MW-175M2	4/11/2006	853123.30	253402.40	-48.94	0.35	5.67	Deleted
MW-175M2	4/10/2007	853423.50	253396.70	-45.90	0.35	6.67	Deleted
MW-175M3	8/15/2001	847919.10	254169.00	-54.57	0.35	1.02	Deleted
MW-175M3	11/8/2001	848121.30	254134.70	-57.19	0.35	1.25	Deleted
MW-175M3	1/28/2002	848338.10	254097.20	-59.93	0.35	1.47	Deleted
MW-175M3	4/18/2002	848570.60	254060.70	-60.21	0.35	1.69	Deleted
MW-175M3	8/13/2002	848870.50	254020.90	-58.92	0.35	2.01	Deleted
MW-175M3	11/15/2002	849140.20	253995.10	-55.17	0.35	2.27	Deleted
MW-175M3	5/22/2003	849469.00	253900.00	-45.73	0.35	2.79	Deleted
MW-175M3	9/30/2003	849650.10	253834.80	-39.99	0.35	3.14	Deleted
MW-175M3	12/31/2003	849784.50	253787.70	-36.70	0.35	3.40	Deleted
MW-175M3	4/16/2004	849937.60	253729.40	-34.18	0.35	3.69	Deleted
MW-175M3	7/28/2004	850092.90	253668.70	-31.24	0.35	3.97	Deleted
MW-175M3	12/7/2004	850272.20	253602.10	-29.34	0.35	4.33	Deleted
MW-175M3	4/8/2005	850422.50	253572.90	-27.66	0.35	4.67	Deleted
MW-175M3	8/4/2005	850562.90	253549.10	-26.12	0.35	4.99	Deleted
MW-175M3	4/11/2006	850851.20	253505.20	-23.03	0.35	5.67	Deleted
MW-175M3	4/11/2007	851256.50	253451.70	-18.66	0.35	6.67	Deleted
MW-186M1	1/24/2002	851327.90	253710.80	-54.97	0.35	1.46	Deleted
MW-186M1	4/8/2002	851383.50	253703.30	-54.59	0.35	1.67	Deleted
MW-186M1	7/30/2002	851467.30	253693.10	-54.02	0.35	1.97	Deleted
MW-186M2	1/23/2002	852658.70	253635.00	-32.78	0.35	1.46	Deleted
MW-186M2	4/8/2002	852710.50	253634.10	-32.07	0.35	1.67	Deleted
MW-186M2	7/29/2002	852776.50	253634.80	-31.20	0.35	1.97	Deleted
MW-19D	4/23/2002	860046.10	254232.80	-188.26	0.35	1.71	Deleted
MW-19D	9/27/2003	860073.70	254241.70	-188.13	0.35	3.14	Deleted
MW-19S	4/24/2008	859391.50	254015.00	30.28	0.35	7.71	Deleted
MW-19S	4/29/2009	859586.90	254079.20	36.65	0.35	8.72	Deleted
MW-19S	4/18/2011	859938.30	254196.90	50.20	0.29	10.69	Deleted
MW-210 (-58.46)	3/25/2002	854028.50	253131.50	-63.89	0.35	1.63	Deleted
MW-210 (-68.46)	3/25/2002	854077.90	253135.90	-70.15	0.35	1.63	Deleted
MW-210 (-78.46)	3/25/2002	854422.20	253146.00	-55.70	0.35	1.63	Deleted
MW-210 (-98.46)	3/25/2002	854631.40	253156.40	-79.00	0.35	1.63	Deleted
MW-210 (-108.46)	3/25/2002	855142.20	253173.80	-93.78	0.35	1.63	Deleted
MW-210 (-118.46)	3/25/2002	855263.10	253179.50	-109.64	0.35	1.63	Deleted
MW-210 (-128.46)	3/25/2002	855262.70	253179.30	-122.80	0.35	1.63	Deleted
MW-210 (-138.46)	3/25/2002	855753.70	253203.30	-134.58	0.35	1.63	Deleted
MW-210 (-148.46)	3/25/2002	855758.50	253202.70	-145.99	0.35	1.63	Deleted
MW-210M1	6/6/2002	853862.00	253115.20	-56.35	0.35	1.83	Deleted
MW-210M1	4/19/2011	855433.40	253185.80	-37.98	0.29	10.70	Deleted
MW-210M1	5/2/2012	855797.40	253211.90	-45.16	0.12	11.73	Deleted
MW-210M3	5/2/2012	855636.40	253207.60	28.50	0.04	11.73	Deleted
MW-211 (50.14)	4/10/2002	847807.00	253571.70	-42.81	0.35	1.67	Deleted
MW-211 (40.14)	4/10/2002	848266.60	253441.40	-55.03	0.35	1.67	Deleted
MW-211 (30.14)	4/10/2002	849284.30	253248.60	-56.61	1.55	1.67	Deleted
MW-211 (10.14)	4/10/2002	850355.80	253066.80	-37.86	4.30	1.67	Deleted

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Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-211 (0.14)	4/11/2002	850367.10	253049.30	-47.28	0.40	1.67	Deleted
MW-211 (-39.86)	4/12/2002	850495.50	253044.10	-59.58	0.35	1.68	Deleted
MW-211 (-59.86)	4/15/2002	850900.40	252993.20	-72.08	0.35	1.68	Deleted
MW-211 (-79.86)	4/15/2002	852092.50	252894.80	-84.99	0.35	1.68	Deleted
MW-211 (-89.86)	4/15/2002	852103.50	252894.00	-93.71	0.35	1.68	Deleted
MW-211 (-99.86)	4/15/2002	852820.70	252859.10	-104.52	0.35	1.68	Deleted
MW-211 (-109.86)	4/16/2002	852834.30	252858.40	-113.90	0.35	1.69	Deleted
MW-211 (-119.86)	4/16/2002	852831.30	252857.30	-123.70	0.35	1.69	Deleted
MW-211 (-129.86)	4/16/2002	853111.90	252861.50	-136.01	0.35	1.69	Deleted
MW-211M1	6/6/2002	852879.30	252851.60	-39.50	0.35	1.83	Deleted
MW-211M1	10/28/2002	852860.50	252852.60	-38.48	0.35	2.22	Deleted
MW-211M1	2/28/2003	852837.60	252853.70	-38.04	0.35	2.56	Deleted
MW-211M2	6/6/2002	849284.30	253248.60	-54.25	3.00	1.83	Deleted
MW-211M2	2/4/2004	850087.60	253125.10	-31.85	0.35	3.49	Deleted
MW-211M2	3/11/2004	850162.20	253109.70	-30.92	0.35	3.59	Deleted
MW-211M2	5/21/2004	850400.20	253066.70	-29.72	0.35	3.78	Deleted
MW-211M3	6/6/2002	848135.80	253476.30	-52.33	0.35	1.83	Deleted
MW-211M3	10/28/2002	849284.30	253248.60	-54.64	0.35	2.22	Deleted
MW-211M3	2/28/2003	849284.30	253248.60	-51.11	0.35	2.56	Deleted
MW-211M3	2/4/2004	849474.50	253270.30	-27.66	0.35	3.49	Deleted
MW-211M3	3/11/2004	849578.20	253251.50	-24.91	0.35	3.59	Deleted
MW-211M3	5/21/2004	849818.70	253196.30	-20.09	0.35	3.78	Deleted
MW-214 (7.46)	4/29/2002	854067.10	252887.60	-10.58	0.35	1.72	Deleted
MW-214 (-2.54)	4/29/2002	854450.20	253031.30	-14.64	0.35	1.72	Deleted
MW-214 (-12.54)	4/29/2002	854488.40	253027.20	-17.99	0.35	1.72	Deleted
MW-214 (-22.54)	4/29/2002	854766.70	253045.20	-20.12	0.59	1.72	Deleted
MW-214 (-32.54)	4/30/2002	854488.10	253009.60	-44.53	0.35	1.73	Deleted
MW-214 (-42.54)	4/30/2002	854572.00	253014.50	-48.55	0.35	1.73	Deleted
MW-214 (-52.54)	4/30/2002	854578.60	252987.30	-55.74	0.35	1.73	Deleted
MW-214 (-62.54)	4/30/2002	854685.40	252981.40	-60.74	0.35	1.73	Deleted
MW-214 (-72.54)	4/30/2002	854755.60	252953.30	-68.38	0.35	1.73	Deleted
MW-214 (-82.54)	4/30/2002	854911.40	252977.90	-71.39	0.35	1.73	Deleted
MW-214 (-92.54)	4/30/2002	855372.00	252890.60	-85.27	0.35	1.73	Deleted
MW-214 (-102.54)	4/30/2002	855494.40	252902.80	-95.66	0.35	1.73	Deleted
MW-214 (-112.54)	4/30/2002	855862.10	252868.50	-107.65	0.35	1.73	Deleted
MW-214 (-122.54)	4/30/2002	855859.40	252870.10	-117.02	0.35	1.73	Deleted
MW-214 (-132.54)	4/30/2002	856012.10	252912.70	-126.01	0.35	1.73	Deleted
MW-214 (-142.54)	4/30/2002	856372.90	252901.50	-136.85	0.35	1.73	Deleted
MW-214M1	6/21/2002	854594.10	252991.70	-56.55	0.35	1.87	Deleted
MW-214M1	11/4/2002	854680.00	253025.80	-53.20	0.35	2.24	Deleted
MW-214M1	2/5/2003	854734.60	253052.80	-50.29	0.35	2.50	Deleted
MW-214M1	4/12/2007	855415.10	252965.70	-66.01	0.35	6.68	Deleted
MW-214M2	6/21/2002	854658.90	253065.70	-19.52	0.35	1.87	Deleted
MW-214M2	11/4/2002	854973.20	253152.40	-23.84	0.60	2.24	Deleted
MW-214M2	4/16/2008	855441.00	253032.60	-45.43	0.35	7.69	Deleted
MW-214M2	4/20/2009	855724.40	252946.40	-48.36	0.35	8.70	Deleted
MW-214M2	4/13/2010	855961.50	252919.70	-45.81	0.35	9.68	Deleted
MW-214M2	4/12/2011	856179.20	252903.90	-41.73	0.35	10.68	Deleted
MW-214M3	6/21/2002	854363.90	253001.80	-12.91	0.35	1.87	Deleted
MW-214M3	11/4/2002	854524.20	253058.80	-12.13	0.35	2.24	Deleted
MW-214M3	2/4/2003	854704.70	253111.80	-11.85	0.35	2.49	Deleted
MW-221 (51.56)	5/14/2002	849847.50	252211.10	42.03	0.35	1.76	Deleted
MW-221 (41.56)	5/14/2002	849004.40	252248.40	-61.15	0.35	1.76	Deleted
MW-221 (31.56)	5/14/2002	849200.40	252263.00	-60.75	0.35	1.76	Deleted
MW-221 (21.56)	5/14/2002	849340.40	252266.10	-60.68	0.35	1.76	Deleted
MW-221 (11.56)	5/14/2002	849700.20	252284.70	-47.76	0.35	1.76	Deleted

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-221 (1.56)	5/14/2002	850148.80	252255.00	-44.52	0.35	1.76	Deleted
MW-221 (-8.44)	5/14/2002	852769.90	252119.70	-43.38	0.35	1.76	Deleted
MW-221 (-18.44)	5/14/2002	851402.10	252241.40	-51.91	0.35	1.76	Deleted
MW-221 (-28.44)	5/15/2002	851238.30	252258.30	-54.11	0.35	1.77	Deleted
MW-221 (-38.44)	5/15/2002	850477.20	252240.60	-58.60	0.35	1.77	Deleted
MW-221 (-48.44)	5/15/2002	850461.00	252233.80	-64.89	0.35	1.77	Deleted
MW-221 (-58.44)	5/15/2002	850748.10	252223.40	-71.28	0.35	1.77	Deleted
MW-221 (-68.44)	5/16/2002	850768.10	252223.60	-78.39	0.35	1.77	Deleted
MW-221 (-78.44)	5/16/2002	851827.40	252177.20	-83.94	0.35	1.77	Deleted
MW-221 (-88.44)	5/16/2002	851938.20	252178.10	-92.82	0.35	1.77	Deleted
MW-221 (-98.44)	5/17/2002	852489.30	252152.60	-101.06	0.35	1.77	Deleted
MW-221 (-108.44)	5/17/2002	852665.40	252156.50	-111.02	0.35	1.77	Deleted
MW-221 (-118.44)	5/17/2002	852665.10	252156.00	-119.79	0.35	1.77	Deleted
MW-221 (-128.44)	5/17/2002	852666.90	252156.00	-128.62	0.35	1.77	Deleted
MW-221M1	7/30/2002	851731.40	252234.50	-50.08	0.35	1.97	Deleted
MW-221M1	11/1/2002	851815.20	252230.80	-49.54	0.35	2.23	Deleted
MW-221M1	2/10/2003	851905.20	252226.80	-49.14	0.35	2.51	Deleted
MW-221M1	2/4/2004	852228.50	252213.50	-47.49	0.35	3.49	Deleted
MW-221M1	7/30/2004	852380.50	252205.50	-46.22	0.35	3.98	Deleted
MW-221M1	12/7/2004	852486.00	252203.70	-45.50	0.35	4.33	Deleted
MW-221M1	4/19/2005	852581.50	252196.20	-45.99	0.35	4.70	Deleted
MW-221M1	8/4/2005	852659.50	252189.20	-48.51	0.35	4.99	Deleted
MW-221M1	4/7/2006	852881.50	252183.50	-49.57	0.35	5.66	Deleted
MW-221M1	4/5/2007	853187.30	252170.60	-46.65	0.35	6.66	Deleted
MW-221M2	7/30/2002	849487.10	252248.70	-55.09	0.35	1.97	Deleted
MW-221M2	11/1/2002	849587.70	252240.90	-48.67	0.35	2.23	Deleted
MW-221M2	2/10/2003	849680.30	252238.40	-41.78	0.35	2.51	Deleted
MW-221M2	2/4/2004	849977.90	252279.20	-28.93	0.35	3.49	Deleted
MW-221M2	3/15/2004	850013.60	252289.20	-28.74	0.35	3.60	Deleted
MW-221M2	5/20/2004	850077.50	252307.00	-28.62	0.35	3.78	Deleted
MW-221M2	7/30/2004	850152.00	252326.40	-28.50	0.35	3.98	Deleted
MW-221M2	12/7/2004	850291.50	252348.50	-27.74	0.35	4.33	Deleted
MW-221M2	4/19/2005	850431.20	252346.60	-26.66	0.35	4.70	Deleted
MW-221M2	8/4/2005	850543.80	252342.50	-25.64	0.35	4.99	Deleted
MW-221M2	4/7/2006	850801.90	252331.30	-23.11	0.35	5.66	Deleted
MW-221M2	4/6/2007	851178.10	252315.50	-19.02	0.35	6.66	Deleted
MW-221M3	7/30/2002	849152.10	252230.50	-57.70	0.35	1.97	Deleted
MW-221M3	11/1/2002	849288.40	252214.70	-52.51	0.35	2.23	Deleted
MW-221M3	2/10/2003	849419.50	252204.70	-44.99	0.35	2.51	Deleted
MW-221M3	2/4/2004	849742.40	252241.20	-12.02	0.35	3.49	Deleted
MW-221M3	7/30/2004	849837.10	252295.30	-6.74	0.35	3.98	Deleted
MW-221M3	12/7/2004	849908.30	252325.50	-6.18	0.35	4.33	Deleted
MW-221M3	4/19/2005	850002.90	252339.30	-7.19	0.35	4.70	Deleted
MW-221M3	8/4/2005	850102.10	252348.80	-8.20	0.35	4.99	Deleted
MW-221M3	4/7/2006	850357.40	252353.00	-6.77	0.35	5.66	Deleted
MW-221M3	4/6/2007	850744.90	252340.80	-2.12	0.35	6.66	Deleted
MW-225 (52.28)	6/12/2002	846141.00	253656.90	-32.97	0.35	1.84	Deleted
MW-225 (42.28)	6/13/2002	846136.70	253655.10	-39.09	0.35	1.85	Deleted
MW-225 (32.28)	6/13/2002	845853.50	253662.40	-50.04	0.35	1.85	Deleted
MW-225 (12.28)	6/13/2002	846897.10	253514.80	-45.68	0.44	1.85	Deleted
MW-225 (2.28)	6/13/2002	848298.60	253380.80	-67.79	0.35	1.85	Deleted
MW-225 (-17.72)	6/13/2002	848701.80	253331.70	-74.18	0.35	1.85	Deleted
MW-225 (-27.72)	6/13/2002	848728.20	253326.70	-76.14	0.35	1.85	Deleted
MW-225 (-77.72)	6/18/2002	850205.40	252919.00	-87.38	0.35	1.86	Deleted
MW-225 (-127.72)	6/19/2002	851553.50	252756.40	-125.33	0.35	1.86	Deleted
MW-225 (-137.72)	6/19/2002	852321.20	252702.20	-136.64	0.35	1.86	Deleted

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-225M1	2/4/2004	849430.20	253118.10	-64.69	0.35	3.49	Deleted
MW-225M1	8/6/2004	849666.30	253049.70	-60.22	0.35	4.00	Deleted
MW-225M1	12/9/2005	850206.50	252919.10	-50.94	0.35	5.34	Deleted
MW-225M2	8/5/2002	848420.40	253379.80	-68.15	0.35	1.99	Deleted
MW-225M2	11/14/2002	848691.40	253349.40	-68.40	0.35	2.27	Deleted
MW-225M2	2/27/2003	849284.30	253248.50	-66.60	0.35	2.56	Deleted
MW-225M2	2/4/2004	849284.30	253248.50	-58.49	0.35	3.49	Deleted
MW-225M2	3/15/2004	849284.40	253248.20	-57.22	0.35	3.60	Deleted
MW-225M2	5/21/2004	849328.80	253180.90	-54.88	0.35	3.78	Deleted
MW-225M2	8/6/2004	849459.20	253128.50	-52.18	0.35	4.00	Deleted
MW-225M2	12/7/2004	849633.30	253078.50	-48.22	0.35	4.33	Deleted
MW-225M2	4/6/2005	849784.30	253035.80	-44.56	0.35	4.66	Deleted
MW-225M2	8/4/2005	849921.80	252998.80	-41.26	0.35	4.99	Deleted
MW-225M2	12/9/2005	850064.30	252963.50	-38.35	0.35	5.34	Deleted
MW-225M2	4/6/2006	850195.20	252935.10	-36.17	0.35	5.66	Deleted
MW-225M2	8/3/2006	850324.10	252911.50	-34.37	0.35	5.99	Deleted
MW-225M2	12/21/2006	850473.30	252888.10	-32.56	0.35	6.37	Deleted
MW-225M2	4/11/2007	850591.20	252872.00	-31.26	0.35	6.67	Deleted
MW-225M2	12/5/2007	850843.00	252842.60	-28.64	0.35	7.32	Deleted
MW-225M2	4/14/2008	850980.70	252828.60	-27.24	0.35	7.68	Deleted
MW-225M2	12/23/2008	851243.80	252804.70	-24.50	0.35	8.38	Deleted
MW-225M2	4/15/2009	851358.90	252795.20	-23.24	0.35	8.69	Deleted
MW-225M2	7/29/2009	851464.30	252786.90	-22.05	0.35	8.97	Deleted
MW-225M2	4/16/2010	851718.20	252768.40	-18.79	0.01	9.69	Deleted
MW-225M2	8/18/2010	851830.00	252761.30	-16.97	0.35	10.03	Deleted
MW-225M2	4/21/2011	851931.20	252749.90	-9.59	0.35	10.70	Deleted
MW-225M2	12/28/2011	852181.00	252733.00	-6.66	0.35	11.39	Deleted
MW-225M2	4/18/2012	852287.60	252726.80	-5.06	0.35	11.69	Deleted
MW-225M3	11/14/2002	846555.20	253581.30	-42.82	1.50	2.27	Deleted
MW-225M3	2/27/2003	846827.50	253548.60	-42.20	0.62	2.56	Deleted
MW-225M3	12/8/2004	849284.30	253248.60	-57.29	3.20	4.34	Deleted
MW-225M3	9/2/2008	850470.10	252883.50	-8.92	0.35	8.07	Deleted
MW-225M3	12/23/2008	850588.90	252867.30	-7.19	0.35	8.38	Deleted
MW-225M3	4/15/2009	850708.20	252852.70	-5.51	0.35	8.69	Deleted
MW-225M3	7/29/2009	850818.30	252840.20	-3.97	0.35	8.97	Deleted
MW-225M3	11/18/2009	850934.70	252827.90	-2.33	0.09	9.28	Deleted
MW-225M3	4/19/2010	851091.00	252812.70	-0.09	0.09	9.70	Deleted
MW-225M3	8/18/2010	851271.10	252796.70	1.72	0.10	10.03	Deleted
MW-225M3	12/21/2010	851456.70	252781.50	3.66	0.17	10.37	Deleted
MW-225M3	4/21/2011	851632.90	252768.30	5.69	0.07	10.70	Deleted
MW-225M3	8/24/2011	851811.20	252755.90	8.41	0.07	11.04	Deleted
MW-225M3	12/28/2011	851994.10	252744.00	12.39	0.07	11.39	Deleted
MW-225M3	4/18/2012	852157.90	252733.90	14.57	0.05	11.69	Deleted
MW-231 (50.63)	7/23/2002	846821.30	252971.80	-67.70	0.35	1.96	Deleted
MW-231 (40.63)	7/23/2002	846846.20	252977.20	-69.30	0.46	1.96	Deleted
MW-231 (30.63)	7/23/2002	847129.50	252975.50	-70.11	0.35	1.96	Deleted
MW-231 (20.63)	7/23/2002	847609.80	252952.90	-71.51	0.35	1.96	Deleted
MW-231 (10.63)	7/23/2002	847973.60	252929.30	-75.69	0.35	1.96	Deleted
MW-231 (0.63)	7/23/2002	849562.90	252650.10	-61.24	0.57	1.96	Deleted
MW-231 (-9.37)	7/24/2002	849357.80	252686.10	-73.60	0.57	1.96	Deleted
MW-231 (-19.37)	7/24/2002	849809.60	252571.40	-58.95	0.47	1.96	Deleted
MW-231 (-29.37)	7/24/2002	849891.20	252553.70	-56.71	0.35	1.96	Deleted
MW-231 (-39.37)	7/24/2002	849329.20	252694.90	-75.88	0.35	1.96	Deleted
MW-231 (-49.37)	7/24/2002	849264.60	252737.10	-81.45	0.51	1.96	Deleted
MW-231 (-59.37)	7/24/2002	849526.90	252658.30	-83.04	0.64	1.96	Deleted
MW-231 (-69.37)	7/25/2002	849758.90	252596.30	-85.10	0.35	1.96	Deleted

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Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-231 (-79.37)	7/25/2002	850463.10	252492.90	-86.88	0.35	1.96	Deleted
MW-231 (-89.37)	7/25/2002	850866.10	252461.70	-93.61	0.35	1.96	Deleted
MW-231 (-99.37)	7/25/2002	851214.10	252436.20	-102.07	0.35	1.96	Deleted
MW-231 (-109.37)	7/25/2002	851635.80	252410.20	-110.21	0.35	1.96	Deleted
MW-231 (-119.37)	7/25/2002	851632.40	252407.70	-119.75	0.35	1.96	Deleted
MW-231 (-129.37)	7/25/2002	851630.90	252405.60	-129.39	0.35	1.96	Deleted
MW-231M1	8/26/2002	849413.40	252691.60	-82.00	0.51	2.05	Deleted
MW-231M1	11/14/2002	849474.50	252675.60	-80.25	0.35	2.27	Deleted
MW-231M1	2/6/2003	849565.20	252650.70	-78.25	0.35	2.50	Deleted
MW-231M1	1/30/2004	849906.00	252570.80	-69.79	0.35	3.48	Deleted
MW-231M1	3/11/2004	849940.60	252564.60	-69.05	0.35	3.59	Deleted
MW-231M1	5/20/2004	849999.20	252555.00	-67.90	0.35	3.78	Deleted
MW-231M1	7/30/2004	850058.20	252546.60	-66.91	0.35	3.98	Deleted
MW-231M1	12/9/2004	850167.40	252533.40	-65.44	0.35	4.34	Deleted
MW-231M1	4/11/2005	850269.60	252522.50	-64.39	0.35	4.67	Deleted
MW-231M1	8/4/2005	850365.60	252513.20	-63.57	0.35	4.99	Deleted
MW-231M1	12/9/2005	850471.80	252503.60	-62.79	0.35	5.34	Deleted
MW-231M1	4/6/2006	850570.60	252495.30	-62.10	0.35	5.66	Deleted
MW-231M1	8/1/2006	850668.40	252487.50	-61.45	0.35	5.98	Deleted
MW-231M1	12/22/2006	850787.70	252478.50	-60.65	0.35	6.37	Deleted
MW-231M1	4/12/2007	850879.80	252471.80	-60.03	0.22	6.68	Deleted
MW-231M2	8/26/2002	849396.60	252675.50	-72.66	1.50	2.05	Deleted
MW-231M2	11/14/2002	849493.50	252649.30	-69.88	0.54	2.27	Deleted
MW-231M2	2/6/2003	849586.00	252623.60	-66.64	0.60	2.50	Deleted
MW-231M2	1/30/2004	849931.40	252545.50	-53.78	0.58	3.48	Deleted
MW-231M2	3/11/2004	849969.60	252539.50	-52.74	0.63	3.59	Deleted
MW-231M2	5/20/2004	850034.30	252530.00	-51.29	0.35	3.78	Deleted
MW-231M2	7/30/2004	850100.10	252521.50	-50.08	0.71	3.98	Deleted
MW-231M2	12/9/2004	850224.60	252508.30	-48.38	0.66	4.34	Deleted
MW-231M2	4/12/2005	850341.60	252497.70	-47.16	0.76	4.68	Deleted
MW-231M2	8/4/2005	850449.00	252488.70	-46.19	0.35	4.99	Deleted
MW-231M2	12/9/2005	850568.70	252479.30	-45.17	0.35	5.34	Deleted
MW-231M2	4/6/2006	850679.90	252471.00	-44.24	0.35	5.66	Deleted
MW-231M2	8/1/2006	850789.90	252463.10	-43.31	0.35	5.98	Deleted
MW-231M2	12/22/2006	850923.70	252453.80	-42.18	0.35	6.37	Deleted
MW-231M2	4/12/2007	851026.70	252446.80	-41.28	0.35	6.68	Deleted
MW-231M2	8/28/2007	851153.30	252438.40	-40.16	0.35	7.05	Deleted
MW-231M2	12/5/2007	851251.00	252432.00	-39.33	0.35	7.32	Deleted
MW-231M2	4/15/2008	851381.60	252423.60	-38.22	0.35	7.69	Deleted
MW-231M2	8/29/2008	851513.70	252415.20	-37.03	0.35	8.06	Deleted
MW-231M2	12/22/2008	851623.10	252408.30	-36.01	0.35	8.37	Deleted
MW-231M2	4/15/2009	851729.20	252401.50	-35.01	0.35	8.69	Deleted
MW-231M2	7/29/2009	851824.60	252395.30	-34.27	0.35	8.97	Deleted
MW-231M2	4/19/2010	852067.80	252381.40	-33.63	0.20	9.70	Deleted
MW-231M2	4/21/2011	852394.00	252364.10	-29.84	0.16	10.70	Deleted
MW-231M3	8/26/2002	846905.20	252974.30	-69.03	0.35	2.05	Deleted
MW-231M3	2/6/2003	847193.90	252955.30	-67.83	0.35	2.50	Deleted
MW-231M3	6/12/2003	847412.90	252941.60	-66.94	0.35	2.84	Deleted
MW-231M3	2/2/2004	847816.80	252920.70	-65.88	0.35	3.49	Deleted
MW-231M3	3/11/2004	847882.10	252918.10	-65.93	0.35	3.59	Deleted
MW-231M3	5/21/2004	848005.20	252913.20	-66.43	0.35	3.78	Deleted
MW-231M3	7/30/2004	848132.40	252908.50	-67.24	0.35	3.98	Deleted
MW-231M3	4/12/2005	848610.70	252878.60	-65.80	0.35	4.68	Deleted
MW-231M3	4/7/2006	849279.60	252729.80	-51.54	0.35	5.66	Deleted
MW-231M3	4/12/2007	849744.40	252571.60	-19.43	0.35	6.68	Deleted
MW-231M3	8/28/2007	849846.20	252539.40	-7.37	0.35	7.05	Deleted

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Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-231M3	12/6/2007	849913.20	252527.10	-1.21	0.35	7.33	Deleted
MW-231M3	4/15/2008	850052.60	252518.50	2.79	0.35	7.69	Deleted
MW-231M3	8/29/2008	850243.70	252509.60	5.30	0.35	8.06	Deleted
MW-231M3	12/22/2008	850418.40	252498.30	7.23	0.35	8.37	Deleted
MW-231M3	4/15/2009	850594.80	252485.80	9.14	0.35	8.69	Deleted
MW-231M3	7/29/2009	850757.30	252474.00	10.94	0.35	8.97	Deleted
MW-231M3	4/19/2010	851159.30	252445.70	15.64	0.03	9.70	Deleted
MW-231M3	4/21/2011	851695.40	252411.30	22.81	0.03	10.70	Deleted
MW-240 (46.32)	9/20/2002	846098.70	253953.10	-37.87	0.35	2.12	Deleted
MW-240 (41.32)	9/23/2002	846208.40	253942.60	-40.55	0.35	2.13	Deleted
MW-240 (1.32)	9/24/2002	847666.50	253751.50	-54.98	0.35	2.13	Deleted
MW-240 (-8.68)	9/25/2002	848985.90	253390.70	-63.19	0.35	2.13	Deleted
MW-240 (-28.68)	9/25/2002	848278.40	253612.30	-71.87	0.35	2.13	Deleted
MW-240 (-38.68)	9/25/2002	848613.90	253521.30	-76.42	0.35	2.13	Deleted
MW-240 (-48.68)	9/26/2002	848792.00	253459.10	-79.87	0.35	2.13	Deleted
MW-240 (-58.68)	9/26/2002	849123.50	253364.30	-81.17	0.35	2.13	Deleted
MW-240 (-128.68)	10/1/2002	851432.50	253085.80	-125.20	0.35	2.15	Deleted
MW-240 (-135.68)	10/2/2002	852208.70	253025.60	-132.66	0.35	2.15	Deleted
MW-240M1	11/12/2002	848928.50	253407.50	-80.00	0.35	2.26	Deleted
MW-240M1	8/12/2003	849238.10	253358.60	-76.45	0.35	3.01	Deleted
MW-240M2	6/12/2003	846663.50	253895.00	-50.08	0.35	2.84	Deleted
MW-240M2	4/16/2004	847440.70	253794.40	-43.72	0.35	3.69	Deleted
MW-240M2	7/29/2004	847695.80	253741.10	-43.15	0.35	3.97	Deleted
MW-240M2	12/9/2004	848000.30	253660.00	-50.07	0.36	4.34	Deleted
MW-240M2	4/11/2005	848305.30	253589.60	-51.63	0.35	4.67	Deleted
MW-240M2	8/4/2005	848593.30	253515.00	-51.90	0.35	4.99	Deleted
MW-240M2	12/9/2005	848881.30	253436.80	-49.48	0.34	5.34	Deleted
MW-240M2	4/6/2006	849090.10	253392.90	-41.85	0.35	5.66	Deleted
MW-240M2	12/22/2006	849480.00	253396.90	-28.31	0.29	6.37	Deleted
MW-240M2	4/12/2007	849651.50	253373.80	-23.39	0.23	6.68	Deleted
MW-240M2	4/21/2011	851496.20	253085.50	5.48	0.10	10.70	Deleted
MW-240M2	4/18/2012	852025.20	253045.20	14.18	0.25	11.69	Deleted
MW-240M3	11/14/2002	846334.70	253930.50	-39.64	0.35	2.27	Deleted
MW-240M3	3/6/2003	846577.10	253907.10	-37.40	0.35	2.57	Deleted
MW-240M3	6/12/2003	846787.70	253884.60	-35.21	0.35	2.84	Deleted
MW-240M3	7/29/2004	847642.30	253766.60	-25.52	0.35	3.97	Deleted
MW-240M3	4/11/2005	848075.00	253677.60	-33.61	0.35	4.67	Deleted
MW-240M3	4/6/2006	848594.70	253552.30	-36.16	0.35	5.66	Deleted
MW-240M3	4/12/2007	849120.80	253416.90	-24.03	0.35	6.68	Deleted
MW-240M3	4/15/2008	849690.00	253369.90	-1.64	0.35	7.69	Deleted
MW-240M3	4/16/2009	850331.60	253231.40	9.64	0.35	8.69	Deleted
MW-240M3	4/22/2010	850936.80	253142.00	16.88	0.03	9.70	Deleted
MW-240M3	4/21/2011	851495.20	253085.20	24.06	0.02	10.70	Deleted
MW-240M3	4/18/2012	852025.30	253044.70	33.03	0.05	11.69	Deleted
MW-248 (41.26)	11/8/2002	846579.40	252748.80	-69.99	0.35	2.25	Deleted
MW-248 (31.26)	11/8/2002	845678.10	252853.90	-73.67	0.35	2.25	Deleted
MW-248 (21.26)	11/8/2002	845324.70	252929.60	-76.74	0.35	2.25	Deleted
MW-248 (11.26)	11/8/2002	845466.70	252974.00	-77.31	0.35	2.25	Deleted
MW-248 (1.26)	11/8/2002	845967.40	252984.80	-77.72	0.35	2.25	Deleted
MW-248 (-8.74)	11/8/2002	846016.00	252995.10	-79.64	0.35	2.25	Deleted
MW-248 (-18.74)	11/8/2002	846163.60	252987.60	-81.97	0.35	2.25	Deleted
MW-248 (-28.74)	11/12/2002	846603.50	252955.30	-83.91	0.35	2.26	Deleted
MW-248 (-38.74)	11/13/2002	846835.50	252939.00	-86.86	0.35	2.27	Deleted
MW-248 (-48.74)	11/13/2002	846972.30	252928.90	-90.01	0.35	2.27	Deleted
MW-248 (-58.74)	11/13/2002	847344.60	252900.30	-92.93	0.35	2.27	Deleted
MW-248 (-68.74)	11/14/2002	847606.00	252878.40	-96.09	0.35	2.27	Deleted

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-248 (-78.74)	11/15/2002	848818.10	252763.40	-99.21	0.35	2.27	Deleted
MW-248 (-88.74)	11/15/2002	849387.60	252622.20	-105.67	0.35	2.27	Deleted
MW-248 (-98.74)	11/15/2002	849937.70	252507.60	-106.37	0.35	2.27	Deleted
MW-248 (-108.74)	11/18/2002	850122.60	252483.50	-113.01	0.35	2.28	Deleted
MW-248 (-118.74)	11/19/2002	850120.80	252484.40	-121.03	0.35	2.28	Deleted
MW-248M1	1/6/2003	847512.10	252886.50	-93.77	0.35	2.41	Deleted
MW-248M1	3/19/2003	847611.80	252879.10	-93.67	0.35	2.61	Deleted
MW-248M1	7/29/2004	848330.30	252822.60	-94.08	0.35	3.97	Deleted
MW-248M2	1/8/2003	846319.30	252977.30	-82.41	0.35	2.42	Deleted
MW-248M2	3/19/2003	846421.00	252970.20	-82.09	0.35	2.61	Deleted
MW-248M2	4/1/2004	846963.90	252932.80	-80.33	0.35	3.65	Deleted
MW-248M2	5/25/2004	847040.20	252927.50	-80.07	0.35	3.80	Deleted
MW-248M2	7/29/2004	847149.20	252919.90	-79.77	0.35	3.97	Deleted
MW-248M2	4/22/2005	847614.40	252887.80	-78.75	0.35	4.70	Deleted
MW-248M2	4/5/2006	848238.90	252842.80	-79.74	0.35	5.66	Deleted
MW-248M2	4/4/2007	848914.50	252757.50	-76.27	0.35	6.65	Deleted
MW-248M2	4/11/2008	849469.50	252610.00	-61.72	0.35	7.68	Deleted
MW-248M2	4/14/2009	849851.30	252508.80	-41.90	0.35	8.68	Deleted
MW-248M2	4/21/2010	850201.50	252463.60	-32.99	0.12	9.70	Deleted
MW-248M2	4/21/2011	850574.90	252435.10	-29.25	0.15	10.70	Deleted
MW-248M2	5/1/2012	850961.50	252408.50	-25.40	0.09	11.73	Deleted
MW-248M3	1/8/2003	845456.60	252949.20	-77.28	0.35	2.42	Deleted
MW-248M3	3/19/2003	845587.00	252941.40	-76.88	0.35	2.61	Deleted
MW-248M3	4/2/2004	846286.10	252897.80	-74.62	0.35	3.65	Deleted
MW-248M3	5/25/2004	846382.60	252891.80	-74.29	0.35	3.80	Deleted
MW-248M3	7/29/2004	846500.40	252884.60	-73.89	0.35	3.97	Deleted
MW-248M3	12/9/2004	846740.10	252870.20	-73.05	0.35	4.34	Deleted
MW-248M3	4/22/2005	846979.20	252855.70	-72.21	0.35	4.70	Deleted
MW-248M3	8/12/2005	847177.20	252843.40	-71.51	0.35	5.01	Deleted
MW-248M3	12/7/2005	847382.30	252830.40	-70.83	0.35	5.33	Deleted
MW-248M3	4/5/2006	847589.40	252817.30	-70.29	0.35	5.66	Deleted
MW-248M3	8/7/2006	847805.70	252804.50	-70.20	0.35	6.00	Deleted
MW-248M3	12/19/2006	848045.80	252788.60	-71.07	0.35	6.36	Deleted
MW-248M3	4/5/2007	848246.70	252773.00	-71.67	0.35	6.66	Deleted
MW-248M3	8/31/2007	848527.10	252749.70	-70.76	0.35	7.06	Deleted
MW-248M3	12/3/2007	848705.60	252730.30	-69.37	0.35	7.32	Deleted
MW-248M3	4/11/2008	848950.40	252688.50	-65.59	0.35	7.68	Deleted
MW-248M3	9/3/2008	849223.30	252615.60	-57.33	0.35	8.07	Deleted
MW-248M3	12/30/2008	849405.20	252565.40	-49.76	0.35	8.40	Deleted
MW-248M3	4/14/2009	849538.80	252527.10	-40.54	0.35	8.68	Deleted
MW-248M3	7/28/2009	849658.10	252492.80	-29.63	0.35	8.97	Deleted
MW-248M3	4/21/2010	849855.70	252450.30	-6.54	0.26	9.70	Deleted
MW-248M3	4/21/2011	850210.80	252451.80	1.78	0.11	10.70	Deleted
MW-248M3	5/1/2012	850790.20	252419.20	7.56	0.26	11.73	Deleted
MW-252 (11.84)	12/13/2002	845345.80	251795.40	-65.02	0.44	2.35	Deleted
MW-252 (1.84)	12/17/2002	846668.30	252070.40	-72.39	0.35	2.36	Deleted
MW-252 (-8.16)	12/17/2002	846676.50	252153.00	-76.64	0.35	2.36	Deleted
MW-252 (-18.16)	12/18/2002	846612.00	252185.40	-79.83	0.35	2.36	Deleted
MW-252 (-28.16)	12/18/2002	846990.20	252200.20	-82.56	0.35	2.36	Deleted
MW-252 (-38.16)	12/19/2002	847363.30	252205.90	-85.71	0.35	2.36	Deleted
MW-252 (-48.16)	12/19/2002	847603.10	252207.70	-89.24	0.35	2.36	Deleted
MW-252 (-58.16)	12/19/2002	848031.80	252194.50	-93.50	0.35	2.36	Deleted
MW-252 (-68.16)	12/19/2002	848305.50	252182.30	-96.82	0.35	2.36	Deleted
MW-252 (-78.16)	12/19/2002	849220.20	252091.20	-99.55	0.35	2.36	Deleted
MW-252 (-88.16)	12/19/2002	849505.10	252068.10	-101.19	0.35	2.36	Deleted
MW-252 (-98.16)	1/8/2003	850002.50	252051.10	-103.39	0.35	2.42	Deleted

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-252 (-108.16)	1/8/2003	850279.50	252045.60	-111.34	0.35	2.42	Deleted
MW-252 (-118.16)	1/8/2003	850279.70	252045.90	-119.90	0.35	2.42	Deleted
MW-252M1	2/26/2003	846741.20	252182.50	-79.33	0.35	2.55	Deleted
MW-252M1	5/8/2003	846868.90	252180.40	-79.00	0.35	2.75	Deleted
MW-252M1	8/6/2003	847030.20	252177.20	-78.59	0.35	2.99	Deleted
MW-252M1	7/29/2004	847662.60	252157.40	-77.32	0.40	3.97	Deleted
MW-252M1	4/20/2005	848147.70	252132.10	-78.28	0.41	4.70	Deleted
MW-252M1	12/16/2005	848580.40	252086.00	-74.95	0.38	5.36	Deleted
MW-252M1	4/5/2006	848757.30	252074.80	-72.93	0.35	5.66	Deleted
MW-252M1	8/2/2006	848935.60	252057.40	-70.46	0.35	5.98	Deleted
MW-252M1	12/19/2006	849129.50	252036.20	-66.41	0.35	6.36	Deleted
MW-252M1	4/5/2007	849266.10	252023.10	-61.98	0.35	6.66	Deleted
MW-252M1	8/28/2007	849443.30	252012.40	-53.75	0.35	7.05	Deleted
MW-252M1	12/4/2007	849547.40	252010.80	-47.08	0.35	7.32	Deleted
MW-252M1	4/11/2008	849665.90	252014.40	-38.19	0.35	7.68	Deleted
MW-252M1	9/2/2008	849787.20	252022.30	-30.76	0.35	8.07	Deleted
MW-252M1	12/30/2008	849877.30	252029.10	-27.11	0.35	8.40	Deleted
MW-252M1	4/14/2009	849959.80	252033.20	-26.01	0.35	8.68	Deleted
MW-252M1	7/28/2009	850051.00	252036.00	-26.41	0.35	8.97	Deleted
MW-252M1	4/21/2010	850320.10	252037.80	-27.57	0.13	9.70	Deleted
MW-252M1	4/26/2011	850709.50	252029.70	-25.21	0.05	10.71	Deleted
MW-252M1	4/16/2012	851074.80	252016.30	-21.59	0.09	11.69	Deleted
MW-252M2	2/26/2003	845522.90	251810.70	-64.95	0.35	2.55	Deleted
MW-252M2	5/8/2003	845657.60	251815.90	-64.37	0.35	2.75	Deleted
MW-252M2	8/6/2003	845827.40	251821.60	-63.64	0.35	2.99	Deleted
MW-252M2	4/1/2004	846274.20	251832.90	-61.68	0.35	3.65	Deleted
MW-252M2	7/29/2004	846494.20	251836.80	-60.69	0.35	3.97	Deleted
MW-252M2	12/9/2004	846777.50	251840.60	-59.59	0.35	4.34	Deleted
MW-252M2	4/20/2005	847120.60	251843.00	-58.48	0.35	4.70	Deleted
MW-252M2	8/4/2005	847393.70	251842.40	-57.60	0.35	4.99	Deleted
MW-252M2	12/16/2005	847735.90	251836.10	-56.79	0.35	5.36	Deleted
MW-252M2	4/6/2006	848024.40	251827.50	-58.18	0.35	5.66	Deleted
MW-252M2	8/2/2006	848361.70	251816.50	-57.83	0.35	5.98	Deleted
MW-252M2	12/19/2006	848679.00	251776.90	-52.15	0.35	6.36	Deleted
MW-252M2	4/5/2007	848865.40	251753.10	-46.92	0.35	6.66	Deleted
MW-252M2	8/31/2007	849100.40	251726.30	-39.16	0.35	7.06	Deleted
MW-252M2	12/4/2007	849244.40	251716.60	-32.87	0.35	7.32	Deleted
MW-252M2	4/11/2008	849408.50	251727.50	-22.43	0.35	7.68	Deleted
MW-252M2	9/2/2008	849545.30	251774.40	-9.15	0.35	8.07	Deleted
MW-252M2	12/30/2008	849625.10	251837.20	2.23	0.35	8.40	Deleted
MW-252M2	4/14/2009	849691.30	251903.60	11.56	0.35	8.68	Deleted
MW-252M2	7/28/2009	849748.50	251949.60	18.31	0.35	8.97	Deleted
MW-252M2	4/21/2010	849892.60	252008.90	23.31	0.13	9.70	Deleted
MW-252M2	4/26/2011	850329.60	252033.70	1.26	0.06	10.71	Deleted
MW-252M2	4/16/2012	850896.50	252021.20	5.68	0.12	11.69	Deleted
MW-252M3	4/26/2011	850328.90	252035.10	26.04	0.08	10.71	Deleted
MW-252M3	4/16/2012	850896.90	252022.90	33.26	0.12	11.69	Deleted
MW-255 (60.00)	2/11/2003	853365.00	254064.60	4.58	0.35	2.51	Deleted
MW-255 (50.00)	2/11/2003	853357.70	254066.70	1.55	0.35	2.51	Deleted
MW-255 (40.00)	2/11/2003	853411.80	254063.60	-1.85	0.35	2.51	Deleted
MW-255 (30.00)	2/11/2003	853634.60	254024.80	-3.64	0.35	2.51	Deleted
MW-255 (20.00)	2/11/2003	853787.20	253985.50	-5.57	0.35	2.51	Deleted
MW-255 (10.00)	2/12/2003	854140.80	253964.30	-10.75	0.35	2.51	Deleted
MW-255 (-40.00)	2/12/2003	854865.00	253846.10	-27.55	0.35	2.51	Deleted
MW-255 (-50.00)	2/12/2003	854573.90	253820.90	-51.15	0.35	2.51	Deleted
MW-255 (-60.00)	2/12/2003	854780.40	253703.10	-54.64	0.35	2.51	Deleted

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-255M1	3/31/2003	854817.50	253812.80	-19.66	0.35	2.64	Deleted
MW-255M1	4/1/2004	854875.40	253508.50	-3.60	0.35	3.65	Deleted
MW-255M1	8/5/2004	854493.70	253523.30	-1.11	0.35	3.99	Deleted
MW-255M1	4/20/2005	854536.30	253573.30	3.28	0.35	4.70	Deleted
MW-255M1	4/17/2006	855008.00	253543.50	11.42	0.35	5.69	Deleted
MW-255M2	4/1/2004	854147.40	253728.70	-5.96	0.35	3.65	Deleted
MW-255M2	8/5/2004	854161.50	253690.20	-3.82	0.35	3.99	Deleted
MW-255M2	12/9/2004	854125.00	253652.00	-1.43	0.35	4.34	Deleted
MW-255M2	6/21/2005	854250.50	253672.30	2.44	0.35	4.87	Deleted
MW-255M2	12/16/2005	854421.60	253694.00	6.99	0.35	5.36	Deleted
MW-255M2	4/20/2009	855784.90	253792.30	30.45	0.35	8.70	Deleted
MW-255M2	4/13/2010	856112.40	253907.60	31.35	0.35	9.68	Deleted
MW-255M2	4/26/2011	856454.50	254019.20	30.85	0.09	10.71	Deleted
MW-255M2	4/17/2012	856712.80	254113.70	24.03	0.18	11.69	Deleted
MW-255M3	3/31/2003	853723.20	253985.90	-4.18	0.35	2.64	Deleted
MW-255M3	7/31/2003	853802.60	253904.40	-2.57	0.35	2.98	Deleted
MW-255M3	12/11/2003	853842.70	253800.80	-2.17	0.35	3.34	Deleted
MW-255M3	4/1/2004	853872.20	253734.70	0.37	0.35	3.65	Deleted
MW-255M3	8/5/2004	853962.60	253688.10	3.06	0.35	3.99	Deleted
MW-255M3	4/20/2005	854181.60	253676.30	8.79	0.35	4.70	Deleted
MW-255M3	4/17/2006	854537.60	253721.50	16.98	0.35	5.69	Deleted
MW-255M3	4/29/2007	855045.90	253705.90	23.37	0.35	6.72	Deleted
MW-258 (42.10)	1/29/2003	843873.60	253939.10	-43.89	0.35	2.48	Deleted
MW-258 (22.10)	1/29/2003	844155.50	253881.20	-52.21	0.35	2.48	Deleted
MW-258 (-7.90)	1/30/2003	844769.30	253737.10	-66.96	0.35	2.48	Deleted
MW-258 (-17.90)	1/30/2003	847307.00	253419.50	-64.97	0.35	2.48	Deleted
MW-258 (-27.90)	1/30/2003	845825.90	253555.30	-70.21	0.35	2.48	Deleted
MW-258 (-37.90)	1/30/2003	845977.20	253597.80	-73.49	0.35	2.48	Deleted
MW-258 (-47.90)	1/31/2003	846333.90	253551.70	-81.79	0.35	2.48	Deleted
MW-258 (-57.90)	1/31/2003	846859.20	253485.40	-86.68	0.35	2.48	Deleted
MW-258 (-67.90)	1/31/2003	847293.10	253426.00	-91.05	0.35	2.48	Deleted
MW-258 (-77.90)	1/31/2003	848222.60	253313.70	-95.35	0.35	2.48	Deleted
MW-258 (-87.90)	2/4/2003	848826.80	253258.00	-97.67	0.35	2.49	Deleted
MW-258 (-117.90)	2/4/2003	849930.90	252953.10	-120.88	0.35	2.49	Deleted
MW-258M1	3/7/2003	846018.20	253501.90	-68.66	0.35	2.58	Deleted
MW-258M1	6/12/2003	846166.80	253470.90	-71.70	0.35	2.84	Deleted
MW-258M1	9/24/2003	846364.10	253443.90	-72.18	0.36	3.13	Deleted
MW-258M1	4/2/2004	846711.20	253399.50	-69.76	0.35	3.65	Deleted
MW-258M1	7/29/2004	846896.80	253392.40	-67.78	0.39	3.97	Deleted
MW-258M1	12/19/2006	848246.60	253362.60	-66.09	0.87	6.36	Deleted
MW-258M1	4/4/2007	848480.30	253352.10	-66.75	0.44	6.65	Deleted
MW-258M1	8/30/2007	849284.30	253248.50	-65.56	0.76	7.06	Deleted
MW-258M1	8/31/2007	849284.30	253248.50	-65.55	0.61	7.06	Deleted
MW-258M1	12/4/2007	849284.30	253248.50	-63.64	0.60	7.32	Deleted
MW-258M1	4/14/2008	849284.30	253248.50	-60.36	0.54	7.68	Deleted
MW-258M1	9/3/2008	849284.20	253248.00	-55.93	0.52	8.07	Deleted
MW-258M1	7/31/2009	849700.70	253031.40	-44.18	0.35	8.98	Deleted
MW-258M2	4/2/2004	845039.80	253721.70	-56.92	0.90	3.65	Deleted
MW-258M2	9/29/2005	846491.10	253567.70	-42.11	1.40	5.14	Deleted
MW-258M2	12/15/2005	846690.70	253543.80	-41.65	1.28	5.35	Deleted
MW-258M2	4/5/2006	846968.00	253510.80	-41.06	0.87	5.66	Deleted
MW-258M2	8/3/2006	847249.60	253476.10	-40.61	0.35	5.99	Deleted
MW-258M2	12/20/2006	847616.20	253431.40	-41.33	0.35	6.37	Deleted
MW-258M2	4/4/2007	847914.90	253422.20	-52.70	0.35	6.65	Deleted
MW-258M2	8/30/2007	848372.70	253388.50	-56.92	0.35	7.06	Deleted
MW-258M2	8/31/2007	848376.70	253388.10	-56.94	0.35	7.06	Deleted

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-258M2	12/4/2007	849284.30	253248.60	-56.48	0.35	7.32	Deleted
MW-258M2	4/14/2008	849284.30	253248.60	-52.54	0.35	7.68	Deleted
MW-258M2	9/3/2008	849284.40	253248.60	-46.60	0.35	8.07	Deleted
MW-258M2	12/31/2008	849284.50	253248.00	-40.14	0.35	8.40	Deleted
MW-258M2	4/14/2009	849412.60	253132.60	-33.64	0.35	8.68	Deleted
MW-258M2	7/31/2009	849588.00	253076.50	-28.35	0.35	8.98	Deleted
MW-258M2	11/18/2009	849740.90	253028.20	-23.60	0.08	9.28	Deleted
MW-258M2	4/21/2010	849927.10	252969.70	-17.63	0.07	9.70	Deleted
MW-258M2	8/17/2010	850056.70	252933.20	-14.01	0.12	10.02	Deleted
MW-258M2	12/22/2010	850192.40	252902.10	-10.96	0.20	10.37	Deleted
MW-258M2	4/14/2011	850311.60	252879.60	-8.72	0.15	10.68	Deleted
MW-258M2	8/22/2011	850448.60	252858.00	-6.48	0.12	11.04	Deleted
MW-258M2	12/14/2011	850568.80	252841.70	-4.65	0.07	11.35	Deleted
MW-258M2	4/24/2012	850707.50	252824.90	-2.61	0.11	11.71	Deleted
MW-258M3	6/12/2003	843989.50	253895.50	-57.03	0.35	2.84	Deleted
MW-258M3	9/24/2003	844292.60	253842.80	-55.43	0.35	3.13	Deleted
MW-258M3	4/2/2004	844831.60	253763.60	-52.69	0.35	3.65	Deleted
MW-258M3	7/29/2004	845157.90	253723.50	-51.25	0.37	3.97	Deleted
MW-258M3	4/5/2006	846683.60	253561.50	-36.34	0.35	5.66	Deleted
MW-258M3	4/4/2007	847451.40	253466.30	-33.76	0.35	6.65	Deleted
MW-258M3	8/31/2007	847749.10	253431.50	-41.62	0.35	7.06	Deleted
MW-258M3	12/4/2007	847968.00	253429.00	-47.87	0.35	7.32	Deleted
MW-258M3	4/14/2008	848360.60	253403.50	-52.15	0.35	7.68	Deleted
MW-258M3	9/3/2008	849284.30	253248.60	-51.56	0.35	8.07	Deleted
MW-258M3	12/31/2008	849284.40	253248.60	-46.96	0.35	8.40	Deleted
MW-258M3	4/15/2009	849284.40	253248.60	-41.54	0.35	8.69	Deleted
MW-258M3	11/19/2009	849374.20	253156.90	-24.77	0.04	9.28	Deleted
MW-258M3	4/21/2010	849622.20	253076.00	-16.06	0.04	9.70	Deleted
MW-258M3	8/17/2010	849781.40	253024.10	-10.44	0.04	10.02	Deleted
MW-258M3	12/22/2010	849929.00	252973.90	-5.05	0.05	10.37	Deleted
MW-258M3	4/14/2011	850051.10	252937.40	-1.32	0.06	10.68	Deleted
MW-258M3	8/22/2011	850230.80	252895.90	1.96	0.07	11.04	Deleted
MW-258M3	12/14/2011	850410.00	252865.10	4.24	0.05	11.35	Deleted
MW-258M3	4/24/2012	850618.30	252837.10	6.63	0.06	11.71	Deleted
MW-271 (46.03)	5/21/2003	852999.40	254275.10	-4.10	0.35	2.78	Deleted
MW-271 (36.03)	5/22/2003	853095.90	254267.90	-6.72	0.79	2.79	Deleted
MW-271 (26.03)	5/22/2003	853414.20	254232.60	-6.28	0.46	2.79	Deleted
MW-271 (16.03)	5/22/2003	853888.40	254173.30	-7.13	0.76	2.79	Deleted
MW-271 (6.03)	5/22/2003	854179.70	254137.00	-15.09	0.46	2.79	Deleted
MW-271 (-3.97)	5/22/2003	854390.30	254100.40	-14.01	0.35	2.79	Deleted
MW-271 (-13.97)	5/22/2003	854397.90	254100.80	-18.62	0.35	2.79	Deleted
MW-271 (-23.97)	5/23/2003	854471.50	254099.20	-45.47	0.35	2.79	Deleted
MW-271 (-33.97)	5/23/2003	854368.60	254122.10	-51.67	0.35	2.79	Deleted
MW-271 (-43.97)	5/23/2003	854520.50	254120.50	-55.55	0.35	2.79	Deleted
MW-271 (-63.97)	5/28/2003	854597.20	254125.10	-68.80	0.35	2.80	Deleted
MW-272 (-4.69)	6/11/2003	854614.70	252778.00	-11.73	0.35	2.84	Deleted
MW-272 (-14.69)	6/11/2003	854633.60	252775.10	-16.72	0.35	2.84	Deleted
MW-272 (-24.69)	6/11/2003	854874.50	252769.80	-28.35	0.35	2.84	Deleted
MW-272 (-34.69)	6/11/2003	854631.20	252759.20	-43.51	0.35	2.84	Deleted
MW-272 (-44.69)	6/11/2003	854641.50	252763.60	-50.05	0.35	2.84	Deleted
MW-272 (-54.69)	6/11/2003	854756.10	252738.80	-57.06	0.35	2.84	Deleted
MW-31D	10/27/2004	858250.00	253590.80	52.66	0.35	4.22	Deleted
MW-31M	11/18/2009	859092.40	253972.60	16.02	0.06	9.28	Deleted
MW-31M	4/8/2010	859166.50	253997.20	18.06	0.11	9.67	Deleted
MW-31M	4/24/2012	859557.90	254125.80	29.75	0.18	11.71	Deleted
MW-31S	4/13/2006	858250.00	253590.80	43.36	1.62	5.68	Deleted

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-31S	11/18/2009	859078.70	253969.10	30.37	0.23	9.28	Deleted
MW-31S	4/18/2011	859365.30	254063.70	39.35	0.30	10.69	Deleted
MW-31S	4/24/2012	859557.90	254126.80	46.33	0.12	11.71	Deleted
MW-32D	4/27/2011	856680.90	253696.60	-0.23	0.27	10.72	Deleted
MW-32M	4/19/2006	855187.40	253211.20	-11.03	0.54	5.70	Deleted
MW-32M	12/29/2006	855423.10	253184.90	-8.23	0.30	6.39	Deleted
MW-32M	4/29/2007	856192.20	253415.00	-3.33	0.34	6.72	Deleted
MW-32M	4/30/2009	856282.10	253454.40	3.66	0.35	8.73	Deleted
MW-32M	4/15/2010	856383.60	253543.40	8.13	0.02	9.68	Deleted
MW-32M	4/28/2011	856564.10	253685.30	10.31	0.18	10.72	Deleted
MW-32S	8/1/2006	855002.20	253242.60	-1.02	0.35	5.98	Deleted
MW-32S	4/29/2007	855423.10	253184.90	-5.32	0.35	6.72	Deleted
MW-32S	4/30/2009	856099.60	253457.20	11.81	0.35	8.73	Deleted
MW-32S	4/15/2010	856252.70	253537.70	17.08	0.01	9.68	Deleted
MW-32S	4/27/2011	856459.70	253649.60	20.10	0.04	10.72	Deleted
MW-33D	12/18/2000	854145.20	253508.50	-51.23	0.35	0.36	Deleted
MW-33D	3/31/2003	854842.20	253244.90	-17.85	1.60	2.64	Deleted
MW-33D	4/14/2010	856484.10	253490.20	-9.86	0.35	9.68	Deleted
MW-33D	4/27/2011	856541.70	253570.50	-9.40	0.35	10.72	Deleted
MW-33M	5/7/2001	854273.30	253424.70	-19.81	0.35	0.75	Deleted
MW-33M	7/30/2001	854325.00	253406.60	-19.16	0.35	0.98	Deleted
MW-33M	11/18/2002	854707.70	253275.80	-12.60	1.90	2.28	Deleted
MW-33M	2/6/2003	854815.40	253242.60	-12.79	1.70	2.50	Deleted
MW-33M	3/31/2003	854918.40	253216.40	-15.51	1.50	2.64	Deleted
MW-33M	4/14/2010	856184.40	253491.60	0.74	0.35	9.68	Deleted
MW-33M	4/27/2011	856411.00	253561.40	2.43	0.35	10.72	Deleted
MW-33S	12/18/2000	853894.90	253523.40	-21.17	0.35	0.36	Deleted
MW-33S	7/30/2001	853991.70	253484.60	-16.17	0.35	0.98	Deleted
MW-33S	4/18/2008	855716.60	253382.90	1.30	0.35	7.69	Deleted
MW-33S	5/1/2009	855910.70	253441.30	5.92	0.35	8.73	Deleted
MW-33S	4/14/2010	856159.30	253501.00	9.19	0.03	9.68	Deleted
MW-33S	4/27/2011	856398.10	253568.70	11.98	0.05	10.72	Deleted
MW-341 (58.36)	7/13/2004	849624.40	253113.70	-17.90	0.35	3.93	Deleted
MW-341M2	4/7/2006	851906.40	252723.80	-52.86	0.23	5.66	Deleted
MW-341M2	4/16/2008	852509.50	252696.00	-49.40	0.35	7.69	Deleted
MW-341M3	4/7/2006	851844.30	252848.80	-31.24	4.66	5.66	Deleted
MW-341M3	8/2/2006	851957.90	252843.80	-31.46	1.87	5.98	Deleted
MW-341M4	4/18/2005	850583.70	252948.70	-18.27	0.35	4.69	Deleted
MW-341M4	8/8/2005	850707.30	252934.00	-16.78	0.35	5.00	Deleted
MW-341M4	12/8/2005	850840.80	252919.60	-15.20	0.35	5.33	Deleted
MW-341M4	4/7/2006	850971.50	252907.20	-13.65	0.35	5.66	Deleted
MW-341M4	12/27/2006	851260.00	252884.90	-10.41	0.35	6.39	Deleted
MW-341M4	4/9/2007	851367.90	252876.90	-9.13	0.35	6.67	Deleted
MW-341M4	4/16/2008	851740.80	252851.60	-3.86	0.35	7.69	Deleted
MW-341M4	4/16/2010	852695.00	252789.80	13.44	0.09	9.69	Deleted
MW-341M4	4/14/2011	853182.50	252762.30	20.50	0.17	10.68	Deleted
MW-341M4	5/1/2012	853612.20	252727.20	25.72	0.35	11.73	Deleted
MW-352 (44.64)	9/28/2004	843179.10	253647.50	-65.19	0.35	4.14	Deleted
MW-352 (34.64)	9/28/2004	843042.30	253669.50	-67.21	0.35	4.14	Deleted
MW-352 (24.64)	9/29/2004	843093.30	253642.10	-68.76	0.35	4.14	Deleted
MW-352 (-35.36)	10/4/2004	844592.40	253231.10	-81.82	0.35	4.16	Deleted
MW-352 (-45.36)	10/4/2004	844909.50	253188.30	-84.98	0.35	4.16	Deleted
MW-352 (-55.36)	10/4/2004	845424.20	253135.90	-87.98	0.35	4.16	Deleted
MW-352 (-65.36)	10/4/2004	845543.70	253119.60	-92.05	0.35	4.16	Deleted
MW-352 (-75.36)	10/4/2004	845812.00	253091.30	-95.87	0.35	4.16	Deleted
MW-352 (-85.36)	10/4/2004	845993.20	253070.40	-99.21	0.35	4.16	Deleted

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-352 (-95.36)	10/4/2004	848297.50	252869.20	-102.89	0.35	4.16	Deleted
MW-352 (-105.36)	10/5/2004	848440.90	252842.30	-111.88	0.35	4.16	Deleted
MW-352 (-115.36)	10/5/2004	848437.50	252838.60	-119.17	0.35	4.16	Deleted
MW-352 (-125.36)	10/5/2004	848439.70	252833.30	-126.56	0.35	4.16	Deleted
MW-352M1	11/3/2004	845468.60	253133.90	-87.85	0.35	4.24	Deleted
MW-352M1	4/19/2005	845716.40	253115.00	-87.24	0.35	4.70	Deleted
MW-352M1	8/8/2005	845879.90	253102.20	-86.82	0.35	5.00	Deleted
MW-352M1	12/7/2005	846057.30	253087.80	-86.36	0.35	5.33	Deleted
MW-352M1	4/4/2006	846229.80	253073.70	-85.90	0.35	5.65	Deleted
MW-352M1	8/4/2006	846407.60	253059.60	-85.40	0.35	5.99	Deleted
MW-352M1	12/20/2006	846607.20	253044.40	-84.83	0.35	6.37	Deleted
MW-352M1	4/3/2007	846756.40	253033.10	-84.39	0.35	6.65	Deleted
MW-352M1	8/31/2007	846969.70	253017.00	-83.75	0.35	7.06	Deleted
MW-352M1	12/3/2007	847102.40	253006.80	-83.36	0.62	7.32	Deleted
MW-352M1	2/1/2008	847186.60	253000.30	-83.11	0.23	7.48	Deleted
MW-352M1	4/9/2008	847281.70	252993.00	-82.84	0.35	7.67	Deleted
MW-352M1	9/3/2008	847485.90	252977.10	-82.30	0.35	8.07	Deleted
MW-352M1	12/17/2008	847631.10	252965.60	-82.02	0.35	8.36	Deleted
MW-352M1	4/13/2009	847793.10	252952.50	-81.92	0.35	8.68	Deleted
MW-352M1	7/30/2009	847944.90	252939.70	-82.19	0.35	8.98	Deleted
MW-352M1	11/19/2009	848107.90	252926.60	-82.81	0.17	9.28	Deleted
MW-352M1	4/27/2010	848348.60	252907.30	-83.04	0.27	9.72	Deleted
MW-352M1	8/19/2010	848521.40	252891.90	-82.65	0.17	10.03	Deleted
MW-352M1	12/28/2010	848715.70	252867.70	-81.68	0.14	10.39	Deleted
MW-352M1	4/15/2011	848869.10	252840.10	-80.28	0.13	10.68	Deleted
MW-352M1	4/16/2012	849416.50	252694.80	-69.84	0.11	11.69	Deleted
MW-352M2	11/3/2004	844062.10	253353.80	-74.54	0.35	4.24	Deleted
MW-352M2	8/8/2005	844603.70	253297.30	-72.02	0.35	5.00	Deleted
MW-352M2	8/7/2006	845295.30	253236.50	-69.29	0.35	6.00	Deleted
MW-352M2	12/21/2006	845549.60	253215.70	-68.29	0.35	6.37	Deleted
MW-352M2	4/3/2007	845740.40	253199.80	-67.51	0.35	6.65	Deleted
MW-352M2	8/31/2007	846016.00	253175.60	-66.32	0.35	7.06	Deleted
MW-352M2	12/3/2007	846188.50	253159.80	-65.54	0.35	7.32	Deleted
MW-352M2	4/9/2008	846422.90	253139.70	-64.45	0.35	7.67	Deleted
MW-352M2	9/3/2008	846689.30	253118.20	-63.18	0.35	8.07	Deleted
MW-352M2	12/17/2008	846877.80	253103.10	-62.27	0.35	8.36	Deleted
MW-352M2	4/13/2009	847086.80	253086.30	-61.25	0.35	8.68	Deleted
MW-352M2	7/30/2009	847280.90	253071.00	-60.33	0.35	8.98	Deleted
MW-352M2	11/19/2009	847544.50	253052.00	-59.50	0.35	9.28	Deleted
MW-352M2	4/27/2010	847975.00	253018.80	-59.75	0.03	9.72	Deleted
MW-352M2	8/19/2010	848210.50	253002.00	-61.70	0.35	10.03	Deleted
MW-352M2	12/28/2010	848467.80	252977.50	-61.35	0.35	10.39	Deleted
MW-352M2	4/15/2011	848669.70	252949.80	-59.98	0.35	10.68	Deleted
MW-352M2	4/16/2012	849405.30	252753.40	-40.47	0.35	11.69	Deleted
MW-352M3	4/20/2005	843636.10	253508.30	-68.86	0.35	4.70	Deleted
MW-352M3	10/4/2005	843963.60	253458.90	-67.78	0.35	5.16	Deleted
MW-352M3	12/7/2005	844090.10	253442.40	-67.28	0.35	5.33	Deleted
MW-352M3	4/5/2006	844325.10	253414.40	-65.94	0.35	5.66	Deleted
MW-352M3	8/7/2006	844565.40	253387.80	-64.37	0.35	6.00	Deleted
MW-352M3	4/9/2008	845835.20	253270.10	-58.65	0.35	7.67	Deleted
MW-352M3	9/3/2008	846222.50	253231.30	-57.08	0.35	8.07	Deleted
MW-352M3	12/17/2008	846499.10	253206.50	-55.97	0.35	8.36	Deleted
MW-352M3	4/13/2009	846802.80	253181.00	-54.73	0.35	8.68	Deleted
MW-352M3	7/30/2009	847079.90	253158.00	-53.58	0.35	8.98	Deleted
MW-352M3	11/19/2009	847365.60	253136.30	-52.52	0.35	9.28	Deleted
MW-352M3	4/27/2010	847764.90	253109.80	-51.73	0.35	9.72	Deleted

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-352M3	8/19/2010	848049.00	253088.10	-53.85	0.35	10.03	Deleted
MW-352M3	12/28/2010	848399.70	253055.40	-54.45	0.35	10.39	Deleted
MW-352M3	4/15/2011	848678.20	253015.30	-53.01	0.35	10.68	Deleted
MW-353 (36.02)	10/18/2004	842521.40	254090.70	-38.62	0.35	4.20	Deleted
MW-353 (26.02)	10/19/2004	842608.20	254056.50	-45.14	0.35	4.20	Deleted
MW-353 (16.02)	10/19/2004	843045.80	253919.90	-49.57	0.35	4.20	Deleted
MW-353 (6.02)	10/20/2004	843150.80	253884.30	-55.47	0.35	4.20	Deleted
MW-353 (-3.98)	10/20/2004	842488.10	254054.90	-63.59	0.35	4.20	Deleted
MW-353 (-13.98)	10/20/2004	842677.60	253962.70	-67.35	0.35	4.20	Deleted
MW-353 (-33.98)	10/21/2004	843881.10	253631.30	-75.37	0.35	4.20	Deleted
MW-353 (-43.98)	10/21/2004	844324.30	253562.20	-79.62	0.35	4.20	Deleted
MW-353 (-73.98)	10/21/2004	845566.70	253414.80	-92.35	0.35	4.20	Deleted
MW-353M1	8/31/2007	846371.00	253334.90	-79.91	0.35	7.06	Deleted
MW-353M1	12/3/2007	846542.90	253318.90	-79.12	0.35	7.32	Deleted
MW-353M1	9/4/2008	847035.10	253272.50	-77.07	0.35	8.07	Deleted
MW-353M1	11/19/2009	847802.40	253203.70	-74.83	0.11	9.28	Deleted
MW-353M1	4/27/2010	848089.30	253180.30	-76.18	0.08	9.72	Deleted
MW-353M1	8/19/2010	848307.80	253165.70	-76.64	0.06	10.03	Deleted
MW-353M1	12/29/2010	848555.60	253145.70	-76.34	0.16	10.39	Deleted
MW-353M1	4/15/2011	848742.70	253123.60	-75.47	0.12	10.68	Deleted
MW-353M1	4/16/2012	849266.10	252982.70	-67.10	0.10	11.69	Deleted
MW-353M2	11/22/2004	842552.60	254022.60	-64.04	0.35	4.29	Deleted
MW-353M2	4/21/2005	842849.00	253924.90	-62.61	0.35	4.70	Deleted
MW-353M2	8/8/2005	843064.40	253864.30	-61.51	0.35	5.00	Deleted
MW-353M2	4/4/2006	843612.60	253738.90	-59.23	0.35	5.65	Deleted
MW-353M2	8/4/2006	843962.30	253676.30	-58.20	0.35	5.99	Deleted
MW-353M2	12/20/2006	844359.00	253617.80	-56.20	0.35	6.37	Deleted
MW-353M2	4/3/2007	844649.90	253579.70	-54.66	0.35	6.65	Deleted
MW-353M2	8/31/2007	845064.20	253532.50	-52.86	0.35	7.06	Deleted
MW-353M2	12/3/2007	845320.40	253506.10	-51.77	0.35	7.32	Deleted
MW-353M2	4/9/2008	845663.80	253472.10	-50.26	0.35	7.67	Deleted
MW-353M2	9/4/2008	846048.80	253430.10	-47.91	0.35	8.07	Deleted
MW-353M2	12/17/2008	846324.10	253390.10	-44.87	0.35	8.36	Deleted
MW-353M2	4/16/2012	849193.30	253052.70	-29.16	0.35	11.69	Deleted
MW-353M3	11/22/2004	843144.70	253894.20	-49.08	0.35	4.29	Deleted
MW-353M3	4/21/2005	843571.80	253795.20	-47.08	0.35	4.70	Deleted
MW-353M3	12/19/2005	844269.10	253674.70	-43.48	0.35	5.36	Deleted
MW-353M3	4/4/2006	844567.70	253632.80	-40.99	0.35	5.65	Deleted
MW-353M3	8/4/2006	844876.60	253594.80	-38.91	0.35	5.99	Deleted
MW-353M3	12/20/2006	845192.30	253559.80	-36.65	0.35	6.37	Deleted
MW-353M3	4/3/2007	845427.20	253535.50	-34.96	0.35	6.65	Deleted
MW-353M3	8/31/2007	845760.40	253501.90	-32.45	0.35	7.06	Deleted
MW-353M3	12/3/2007	845964.10	253480.40	-30.52	0.35	7.32	Deleted
MW-353M3	4/9/2008	846243.40	253444.70	-23.33	0.35	7.67	Deleted
MW-35M2	12/18/2000	853059.80	253112.10	-1.01	0.35	0.36	Deleted
MW-35M2	4/26/2011	856747.30	253446.80	-17.08	0.03	10.71	Deleted
MW-46D	8/24/2000	854384.40	256139.00	-84.80	0.35	0.04	Deleted
MW-46D	8/6/2001	854529.40	256122.20	-84.17	0.35	0.99	Deleted
MW-46D	7/11/2002	854667.80	256106.30	-83.57	0.35	1.92	Deleted
MW-46D	10/2/2002	854700.70	256102.50	-83.41	0.35	2.15	Deleted
MW-46D	11/19/2003	854856.30	256084.70	-82.42	0.35	3.28	Deleted
MW-46D	8/17/2004	854952.90	256073.60	-81.60	0.35	4.03	Deleted
MW-46D	7/22/2005	855068.00	256060.30	-80.44	0.35	4.95	Deleted
MW-46M1	8/23/2000	853585.20	256227.10	-67.25	0.35	0.04	Deleted
MW-46M1	8/7/2001	853830.40	256201.80	-64.88	0.35	1.00	Deleted
MW-46M1	7/12/2002	854061.90	256179.20	-62.92	0.35	1.93	Deleted

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-46M1	10/2/2002	854117.20	256173.90	-62.46	0.35	2.15	Deleted
MW-46M1	11/19/2003	854390.60	256147.90	-60.21	0.35	3.28	Deleted
MW-46M1	8/17/2004	854585.50	256129.50	-58.85	0.35	4.03	Deleted
MW-46M1	7/22/2005	854828.60	256103.00	-57.17	0.35	4.95	Deleted
MW-46M2	8/23/2000	852873.70	256316.50	-49.17	0.35	0.04	Deleted
MW-46M2	8/7/2001	853177.20	256274.50	-46.03	0.35	1.00	Deleted
MW-46M2	7/12/2002	853461.20	256239.00	-42.12	0.35	1.93	Deleted
MW-46M2	10/3/2002	853528.90	256231.30	-40.89	0.35	2.15	Deleted
MW-46M2	11/19/2003	853883.70	256197.80	-33.96	0.35	3.28	Deleted
MW-46M2	8/17/2004	854114.30	256176.50	-30.64	0.35	4.03	Deleted
MW-46M2	7/22/2005	854394.20	256150.00	-26.02	0.35	4.95	Deleted
MW-46M3	8/23/2000	851839.20	256505.00	-37.10	0.35	0.04	Deleted
MW-46M3	8/7/2001	852224.40	256444.00	-33.68	0.35	1.00	Deleted
MW-46M3	7/10/2002	852576.80	256389.40	-30.20	0.35	1.92	Deleted
MW-46M3	10/3/2002	852663.00	256376.40	-29.27	0.35	2.15	Deleted
MW-46M3	11/20/2003	853067.40	256319.10	-24.40	0.35	3.28	Deleted
MW-46M3	8/17/2004	853321.60	256286.60	-20.42	0.35	4.03	Deleted
MW-46M3	7/25/2005	853631.90	256247.50	-13.16	0.35	4.96	Deleted
MW-46S	9/12/2000	851607.30	256547.80	-22.68	0.35	0.10	Deleted
MW-47D	7/3/2002	854307.70	255364.70	-65.82	0.35	1.90	Deleted
MW-47D	1/12/2005	854884.10	255344.50	-58.71	0.35	4.43	Deleted
MW-47D	7/25/2005	855009.00	255340.60	-54.46	0.35	4.96	Deleted
MW-47M1	7/3/2002	854041.30	255395.10	-53.43	0.35	1.90	Deleted
MW-47M1	2/15/2005	854759.10	255353.80	-45.01	0.35	4.52	Deleted
MW-47M1	7/25/2005	854889.50	255350.20	-42.25	0.35	4.96	Deleted
MW-47M2	7/3/2002	853418.70	255483.00	-20.20	0.35	1.90	Deleted
MW-47M2	2/15/2005	853616.40	255471.50	-4.11	0.35	4.52	Deleted
MW-47M2	7/22/2005	853730.90	255463.40	-0.65	0.35	4.95	Deleted
MW-47M3	7/3/2002	852544.00	255553.80	-20.05	0.35	1.90	Deleted
MW-531 (0.16)	1/12/2010	849924.50	252971.50	-20.94	0.35	9.43	Deleted
MW-531 (-59.84)	1/14/2010	850171.40	252907.60	-67.42	0.19	9.44	Deleted
MW-531 (-69.84)	1/14/2010	850172.90	252907.10	-75.75	0.11	9.44	Deleted
MW-531 (-79.84)	1/14/2010	850538.90	252848.80	-83.57	0.12	9.44	Deleted
MW-531 (-89.84)	1/15/2010	850556.00	252846.60	-92.59	0.09	9.44	Deleted
MW-531 (-119.84)	1/18/2010	850804.10	252817.10	-120.42	0.35	9.45	Deleted
MW-531 (-129.84)	1/18/2010	850804.10	252817.20	-129.85	0.35	9.45	Deleted
MW-531M1	4/21/2010	850127.50	252903.90	-58.71	0.26	9.70	Deleted
MW-531M1	8/17/2010	850244.50	252881.20	-57.32	0.28	10.02	Deleted
MW-531M1	12/22/2010	850368.40	252860.40	-56.06	0.31	10.37	Deleted
MW-531M1	4/14/2011	850477.60	252844.30	-55.08	0.30	10.68	Deleted
MW-532 (27.45)	1/19/2010	849284.40	253248.70	-34.05	0.35	9.45	Deleted
MW-532 (17.45)	1/19/2010	849284.40	253248.70	-32.69	0.12	9.45	Deleted
MW-532 (-12.55)	1/19/2010	849738.20	253190.20	-33.18	0.87	9.45	Deleted
MW-532 (-62.55)	1/20/2010	850019.70	253116.50	-70.42	2.00	9.45	Deleted
MW-532 (-72.55)	1/20/2010	850017.70	253116.30	-78.59	0.04	9.45	Deleted
MW-532 (-82.55)	1/20/2010	850421.20	253039.80	-86.26	0.35	9.45	Deleted
MW-533 (53.36)	1/22/2010	849422.30	253039.70	12.40	0.06	9.46	Deleted
MW-533 (45.36)	1/22/2010	849419.00	253039.80	5.79	0.35	9.46	Deleted
MW-533 (35.36)	1/25/2010	849454.30	253024.90	-2.42	0.35	9.47	Deleted
MW-533 (25.36)	1/25/2010	849553.10	252981.00	-10.84	0.15	9.47	Deleted
MW-533 (15.36)	1/25/2010	849662.80	252923.70	-17.71	0.33	9.47	Deleted
MW-533 (5.36)	1/7/2010	849887.70	252825.60	-18.69	0.06	9.42	Deleted
MW-533 (-4.64)	1/7/2010	850055.60	252775.10	-22.87	0.24	9.42	Deleted
MW-533 (-14.64)	1/8/2010	850052.80	252776.20	-31.11	0.16	9.42	Deleted
MW-533 (-24.64)	1/8/2010	850048.70	252777.50	-39.28	0.15	9.42	Deleted
MW-533 (-34.64)	1/8/2010	850106.60	252765.50	-46.92	0.20	9.42	Deleted

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-533 (-44.64)	1/8/2010	850166.90	252754.30	-54.63	0.11	9.42	Deleted
MW-533 (-54.64)	1/8/2010	850200.10	252748.90	-62.80	0.33	9.42	Deleted
MW-533 (-64.64)	1/13/2010	850294.50	252734.10	-70.79	0.06	9.43	Deleted
MW-533M1	4/20/2010	850291.00	252731.10	-61.79	0.13	9.70	Deleted
MW-533M1	8/17/2010	850392.20	252716.80	-60.81	0.14	10.02	Deleted
MW-533M1	12/22/2010	850501.30	252702.90	-59.88	0.16	10.37	Deleted
MW-533M1	4/14/2011	850608.00	252690.80	-59.12	0.17	10.68	Deleted
MW-534 (-57.67)	1/19/2010	848367.60	252918.10	-85.22	0.18	9.45	Deleted
MW-534 (-67.67)	1/19/2010	848543.80	252892.80	-89.84	0.20	9.45	Deleted
MW-534 (-77.67)	1/19/2010	848840.90	252841.30	-93.99	0.14	9.45	Deleted
MW-534 (-87.67)	1/19/2010	848943.90	252814.10	-97.74	0.14	9.45	Deleted
MW-534 (-97.67)	1/19/2010	849314.50	252712.20	-106.25	0.06	9.45	Deleted
MW-534 (-107.67)	1/20/2010	849403.40	252684.80	-113.39	0.09	9.45	Deleted
MW-542 (23.81)	2/2/2010	849109.10	253466.10	-17.14	0.12	9.49	Deleted
MW-542 (3.81)	2/2/2010	849575.40	253428.20	-22.31	0.36	9.49	Deleted
MW-542 (-6.19)	2/2/2010	849738.60	253398.80	-27.07	0.11	9.49	Deleted
MW-542 (-16.19)	2/2/2010	849732.40	253398.40	-35.07	0.16	9.49	Deleted
MW-542 (-26.19)	2/3/2010	849744.90	253394.80	-42.86	0.29	9.49	Deleted
MW-542 (-36.19)	2/3/2010	849827.50	253378.10	-50.01	0.14	9.49	Deleted
MW-542 (-46.19)	2/3/2010	849877.90	253366.80	-57.51	0.07	9.49	Deleted
MW-542 (-66.19)	2/3/2010	850022.50	253336.60	-73.09	0.35	9.49	Deleted
MW-542 (-76.19)	2/3/2010	850103.90	253320.90	-81.28	0.35	9.49	Deleted
MW-542M1	4/20/2010	849859.70	253373.70	-45.80	0.30	9.70	Deleted
MW-542M1	8/17/2010	849998.40	253345.10	-43.55	0.25	10.02	Deleted
MW-542M1	12/30/2010	850148.10	253314.60	-41.40	0.28	10.39	Deleted
MW-542M1	4/14/2011	850260.80	253292.80	-39.96	0.19	10.68	Deleted
MW-542M1	4/24/2012	850684.40	253223.10	-35.67	0.11	11.71	Deleted
MW-543 (-1.70)	10/6/2010	847774.10	253218.00	-23.11	0.05	10.16	Deleted
MW-543 (-11.70)	10/6/2010	847793.90	253214.80	-31.45	0.05	10.16	Deleted
MW-543 (-21.70)	10/6/2010	847281.30	253259.80	-41.37	0.06	10.16	Deleted
MW-543 (-31.70)	10/6/2010	847003.60	253285.10	-49.24	0.11	10.16	Deleted
MW-543 (-41.70)	10/6/2010	846993.30	253284.50	-56.04	0.12	10.16	Deleted
MW-543 (-51.70)	10/6/2010	847528.90	253236.20	-61.06	0.09	10.16	Deleted
MW-543 (-61.70)	10/7/2010	847659.70	253227.70	-70.11	0.09	10.16	Deleted
MW-543 (-71.70)	10/7/2010	847659.80	253226.10	-78.40	0.09	10.16	Deleted
MW-543 (-81.70)	10/7/2010	848017.50	253191.70	-87.88	0.10	10.16	Deleted
MW-543M1	11/30/2010	847916.10	253197.10	-80.16	0.08	10.31	Deleted
MW-543M1	6/23/2011	848230.90	253170.80	-81.39	0.11	10.87	Deleted
MW-543M1	9/19/2011	848370.60	253156.80	-81.45	0.13	11.11	Deleted
MW-543M1	12/22/2011	848518.40	253141.20	-81.21	0.13	11.37	Deleted
MW-543M1	5/31/2012	848750.50	253103.40	-80.05	0.14	11.81	Deleted
MW-543M1	12/11/2012	849049.70	253015.80	-76.10	0.14	12.34	Deleted
MW-543M2	12/11/2012	849006.10	253032.80	-47.70	0.16	12.34	Deleted
MW-543M2	12/1/2010	847131.00	253269.10	-53.59	0.12	10.31	Deleted
MW-543M2	6/23/2011	847653.80	253231.70	-52.58	0.15	10.87	Deleted
MW-543M2	9/19/2011	847869.10	253213.30	-52.84	0.16	11.11	Deleted
MW-543M2	12/22/2011	848112.50	253191.80	-55.37	0.15	11.37	Deleted
MW-543M2	6/1/2012	848541.60	253138.90	-54.75	0.13	11.81	Deleted
MW-544 (3.70)	10/1/2010	847790.00	253392.00	-16.92	0.11	10.15	Deleted
MW-544 (-6.30)	10/1/2010	847892.80	253378.60	-27.67	0.08	10.15	Deleted
MW-544 (-26.30)	10/4/2010	847265.70	253444.30	-38.95	0.06	10.16	Deleted
MW-544 (-36.30)	10/4/2010	847127.20	253461.90	-45.51	0.07	10.16	Deleted
MW-544 (-46.30)	10/4/2010	847300.80	253387.50	-54.09	0.13	10.16	Deleted
MW-544 (-106.30)	10/13/2010	848873.80	253228.40	-102.42	0.33	10.18	Deleted
MW-544M2	12/10/2010	847351.20	253384.50	-50.90	0.30	10.34	Deleted
MW-544M2	6/22/2011	847842.80	253395.70	-57.35	0.11	10.87	Deleted

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-544M2	9/20/2011	848081.90	253371.50	-59.80	0.07	11.12	Deleted
MW-544M2	12/22/2011	848410.80	253339.60	-60.53	0.14	11.37	Deleted
MW-544M2	5/30/2012	848799.50	253286.80	-58.59	0.15	11.81	Deleted
MW-544M2	12/11/2012	849141.40	253205.60	-49.36	0.13	12.34	Deleted
MW-544M3	12/9/2010	848021.80	253358.10	-32.21	0.16	10.34	Deleted
MW-544M3	6/21/2011	848331.10	253327.50	-35.63	0.07	10.87	Deleted
MW-544M3	9/20/2011	848469.80	253309.20	-35.76	0.04	11.12	Deleted
MW-544M3	12/21/2011	848614.00	253292.10	-36.20	0.06	11.37	Deleted
MW-544M3	5/31/2012	848842.80	253255.70	-32.49	0.06	11.81	Deleted
MW-544M3	12/11/2012	849110.70	253198.80	-18.91	0.06	12.34	Deleted
MW-545 (-96.20)	11/17/2010	848384.90	253448.90	-96.63	0.95	10.28	Deleted
MW-545 (-126.20)	11/18/2010	848942.70	253346.90	-125.65	0.05	10.28	Deleted
MW-545M3	12/10/2012	849284.40	253248.60	-49.47	0.38	12.34	Deleted
MW-545M3	9/21/2011	848539.30	253387.10	-63.13	1.46	11.12	Deleted
MW-545M3	12/20/2011	849284.30	253248.50	-62.33	1.35	11.37	Deleted
MW-545M3	5/30/2012	849284.30	253248.60	-57.72	0.48	11.81	Deleted
MW-545M4	12/20/2011	849284.30	253248.60	-51.37	1.33	11.37	Deleted
MW-545M4	5/30/2012	849284.40	253248.60	-44.50	0.42	11.81	Deleted
MW-545M4	12/10/2012	849284.30	253248.70	-30.86	0.29	12.34	Deleted
MW-546 (-6.20)	10/22/2010	848091.90	253658.30	-32.89	0.11	10.20	Deleted
MW-546 (-16.20)	10/22/2010	847778.10	253713.60	-36.66	0.17	10.20	Deleted
MW-546 (-25.20)	10/22/2010	847508.60	253771.80	-41.14	0.14	10.20	Deleted
MW-546 (-36.20)	10/22/2010	847464.70	253779.60	-50.48	0.14	10.20	Deleted
MW-546 (-46.20)	10/25/2010	847676.50	253745.50	-55.47	0.21	10.21	Deleted
MW-546 (-66.20)	11/22/2010	848066.70	253659.90	-76.21	0.20	10.29	Deleted
MW-546 (-76.20)	11/22/2010	848255.60	253632.80	-84.28	0.19	10.29	Deleted
MW-546 (-86.20)	11/23/2010	848535.10	253578.90	-90.99	0.19	10.29	Deleted
MW-546 (-96.20)	11/23/2010	848537.00	253578.90	-96.64	0.18	10.29	Deleted
MW-546 (-106.20)	11/23/2010	848989.30	253490.10	-104.89	0.11	10.29	Deleted
MW-546 (-116.20)	11/24/2010	848998.80	253497.40	-115.33	0.13	10.30	Deleted
MW-546 (-126.20)	11/24/2010	849002.00	253501.20	-125.95	0.13	10.30	Deleted
MW-546M1	12/13/2010	848562.40	253572.50	-88.67	0.19	10.35	Deleted
MW-546M1	6/20/2011	848816.10	253504.30	-87.73	0.27	10.86	Deleted
MW-546M1	9/22/2011	848927.90	253469.30	-86.90	0.21	11.12	Deleted
MW-546M1	12/20/2011	849015.30	253443.70	-85.90	0.23	11.37	Deleted
MW-546M1	5/29/2012	849144.00	253431.00	-84.88	0.15	11.81	Deleted
MW-546M1	12/10/2012	849290.70	253438.20	-83.29	0.10	12.34	Deleted
MW-546M2	12/13/2010	847652.10	253755.00	-49.51	0.17	10.35	Deleted
MW-546M2	6/20/2011	848086.40	253627.00	-59.69	0.19	10.86	Deleted
MW-546M2	9/22/2011	848340.10	253578.40	-60.07	0.12	11.12	Deleted
MW-546M2	12/20/2011	848562.90	253529.30	-59.78	0.09	11.37	Deleted
MW-546M2	5/29/2012	848932.70	253452.60	-55.46	0.08	11.81	Deleted
MW-554M1	12/12/2012	848522.60	253533.00	-71.99	0.55	12.35	Deleted
MW-554M2	6/1/2012	847949.40	253613.10	-42.77	1.43	11.81	Deleted
MW-559 (14.82)	5/10/2011	845989.60	253603.80	-4.24	0.07	10.75	Deleted
MW-559 (4.82)	5/10/2011	846103.50	253592.20	-11.13	0.27	10.75	Deleted
MW-559 (-5.18)	5/11/2011	846210.00	253581.50	-16.22	0.26	10.76	Deleted
MW-559 (-15.18)	5/11/2011	846207.70	253581.70	-23.74	0.22	10.76	Deleted
MW-559 (-25.18)	5/11/2011	846205.00	253581.50	-31.09	0.27	10.76	Deleted
MW-559 (-75.18)	5/13/2011	846458.10	253565.70	-78.06	1.33	10.76	Deleted
MW-559M1	3/26/2012	847185.60	253500.60	-90.96	1.92	11.63	Deleted
MW-559M2	8/20/2012	847236.20	253494.00	-35.59	0.19	12.03	Deleted
MW-559M2	12/12/2012	847471.70	253465.90	-34.84	0.30	12.35	Deleted
MW-559M2	1/3/2012	846749.20	253550.70	-38.80	0.11	11.40	Deleted
MW-559M2	3/27/2012	846928.20	253530.00	-38.19	0.12	11.63	Deleted
MW-560 (20.83)	6/8/2011	846543.50	253381.80	4.59	0.09	10.83	Deleted

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-560 (10.83)	6/8/2011	846602.40	253375.00	-3.50	0.12	10.83	Deleted
MW-560 (0.83)	6/8/2011	846776.50	253358.40	-11.56	0.11	10.83	Deleted
MW-560 (-9.17)	6/8/2011	846823.50	253351.90	-18.06	0.13	10.83	Deleted
MW-560 (-19.17)	6/8/2011	846824.40	253351.10	-24.70	0.12	10.83	Deleted
MW-560 (-29.17)	6/9/2011	846827.50	253349.30	-31.37	0.13	10.83	Deleted
MW-560 (-39.17)	6/9/2011	846826.50	253346.50	-38.06	0.12	10.83	Deleted
MW-560 (-49.17)	6/9/2011	846479.60	253373.20	-49.13	0.10	10.83	Deleted
MW-560 (-59.17)	6/10/2011	846527.10	253365.30	-60.57	0.09	10.84	Deleted
MW-560 (-69.17)	6/10/2011	846996.50	253324.00	-71.24	0.11	10.84	Deleted
MW-560 (-79.17)	6/10/2011	847049.10	253326.50	-81.14	0.10	10.84	Deleted
MW-560 (-89.17)	6/13/2011	847228.00	253311.30	-90.09	0.12	10.85	Deleted
MW-560 (-109.17)	6/14/2011	847856.70	253250.60	-109.02	0.14	10.85	Deleted
MW-560 (-119.17)	6/14/2011	847856.30	253251.20	-119.12	0.21	10.85	Deleted
MW-560 (-129.17)	6/15/2011	847856.50	253251.40	-129.17	0.34	10.85	Deleted
MW-565 (30.26)	8/26/2011	845898.10	253464.20	11.58	0.15	11.05	Deleted
MW-565 (10.76)	8/26/2011	845946.10	253460.10	-5.49	0.07	11.05	Deleted
MW-565 (0.76)	8/29/2011	846100.80	253442.50	-12.74	0.35	11.06	Deleted
MW-565 (-7.74)	8/29/2011	846113.60	253440.50	-19.78	0.10	11.06	Deleted
MW-565 (-18.24)	8/29/2011	846112.40	253441.00	-28.73	0.11	11.06	Deleted
MW-565 (-30.24)	8/29/2011	846110.90	253441.10	-38.84	0.16	11.06	Deleted
MW-565 (-38.24)	8/30/2011	845959.60	253463.20	-46.97	0.14	11.06	Deleted
MW-565 (-106.99)	9/7/2011	847121.30	253338.10	-107.64	0.19	11.08	Deleted
MW-568 (-1.69)	11/1/2011	844835.10	253509.90	-14.03	0.24	11.23	Deleted
MW-568 (-11.69)	11/1/2011	844835.30	253510.00	-22.85	0.17	11.23	Deleted
MW-568 (-21.69)	11/1/2011	844835.50	253510.10	-31.65	0.18	11.23	Deleted
MW-568 (-31.69)	11/1/2011	844824.10	253511.50	-40.41	0.19	11.23	Deleted
MW-568 (-41.69)	11/1/2011	844597.70	253537.80	-49.10	0.19	11.23	Deleted
MW-568 (-51.69)	11/2/2011	844600.50	253537.50	-57.55	0.23	11.23	Deleted
MW-568 (-61.69)	11/2/2011	845035.40	253489.10	-66.07	0.27	11.23	Deleted
MW-568 (-71.69)	11/2/2011	845035.20	253489.00	-74.94	0.29	11.23	Deleted
MW-568 (-81.69)	11/2/2011	845230.00	253468.90	-83.86	0.11	11.23	Deleted
MW-568 (-91.69)	11/2/2011	845229.60	253468.60	-93.02	0.12	11.23	Deleted
MW-568 (-101.69)	11/3/2011	845765.90	253416.00	-102.18	0.09	11.24	Deleted
MW-568 (-111.69)	11/3/2011	845765.00	253415.30	-112.00	0.12	11.24	Deleted
MW-568 (-121.69)	11/3/2011	845764.60	253415.10	-121.83	0.05	11.24	Deleted
MW-569 (-119.99)	11/9/2011	845893.60	253640.40	-120.05	0.16	11.25	Deleted
MW-569 (-129.99)	11/9/2011	845893.40	253640.40	-129.99	0.15	11.25	Deleted
MW-570 (-8.28)	11/11/2011	844992.40	254118.10	-19.72	0.08	11.26	Deleted
MW-570 (-18.28)	11/11/2011	844992.40	254118.10	-28.47	0.09	11.26	Deleted
MW-570 (-28.28)	11/11/2011	844992.40	254118.10	-37.21	0.13	11.26	Deleted
MW-570 (-38.28)	11/11/2011	844805.40	254145.80	-45.95	0.13	11.26	Deleted
MW-570 (-48.28)	11/11/2011	844753.00	254154.00	-54.47	0.16	11.26	Deleted
MW-570 (-58.28)	11/11/2011	845031.40	254112.50	-62.93	0.17	11.26	Deleted
MW-570 (-68.28)	11/11/2011	845188.60	254090.50	-71.81	0.17	11.26	Deleted
MW-570 (-78.28)	11/14/2011	845251.40	254081.90	-80.73	0.13	11.27	Deleted
MW-570 (-88.28)	11/14/2011	845386.60	254064.10	-89.85	0.15	11.27	Deleted
MW-570 (-98.28)	11/14/2011	845386.50	254064.10	-99.02	0.07	11.27	Deleted
MW-570 (-108.28)	11/15/2011	845913.40	254000.40	-108.58	0.05	11.27	Deleted
MW-570 (-118.28)	11/15/2011	845912.80	254000.30	-118.42	0.06	11.27	Deleted
MW-570 (-128.28)	11/15/2011	845912.60	254000.20	-128.30	0.06	11.27	Deleted
MW-571 (-36.25)	11/18/2011	844695.10	253672.70	-44.15	0.98	11.28	Deleted
MW-571 (-46.25)	11/18/2011	844590.10	253686.60	-52.75	0.99	11.28	Deleted
MW-571 (-116.25)	11/29/2011	845727.50	253557.50	-116.46	0.32	11.31	Deleted
MW-597M1	2/28/2013	849730.80	252994.50	-93.97	0.11	12.56	Deleted
MW-597M2	2/28/2013	849718.40	252998.50	-64.41	0.08	12.56	Deleted
MW-64M2	8/8/2001	856927.70	250032.50	-6.96	0.35	1.00	Deleted

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-64M2	3/21/2003	857412.50	250370.90	-0.30	0.35	2.62	Deleted
MW-64M2	9/12/2003	857547.20	250469.80	1.78	0.35	3.09	Deleted
MW-64M2	8/26/2004	857803.50	250662.60	6.04	0.35	4.05	Deleted
MW-64M2	9/9/2005	858064.80	250862.30	10.88	0.35	5.09	Deleted
MW-64M2	8/31/2009	858964.40	251495.90	32.48	0.35	9.06	Deleted
MW-64M2	9/27/2010	859192.80	251637.70	39.31	0.05	10.14	Deleted
MW-64M2	8/15/2011	859376.90	251751.30	45.25	0.35	11.02	Deleted
MW-73S	12/22/2010	859808.10	254121.70	47.58	0.09	10.37	Deleted
MW-73S	4/17/2012	860033.60	254198.50	57.34	0.32	11.69	Deleted
MW-74M2	1/3/2007	857990.40	253580.80	19.75	0.27	6.40	Deleted
MW-74M2	4/18/2011	858416.90	254128.40	21.73	0.25	10.69	Deleted
MW-74M3	4/24/2007	858174.20	253579.60	36.56	0.35	6.71	Deleted
MW-75M1	4/8/2010	858264.90	253829.50	-1.68	0.06	9.67	Deleted
MW-75M1	4/18/2011	858470.00	253984.10	-2.02	0.12	10.69	Deleted
MW-75M1	4/23/2012	858677.10	254080.20	1.19	0.04	11.71	Deleted
MW-75M2	4/28/2009	858250.00	253590.80	52.58	0.35	8.72	Deleted
MW-76M1	4/20/2011	858449.80	253689.70	1.74	0.30	10.70	Deleted
MW-76M1	4/23/2012	858723.50	253787.40	2.40	0.12	11.71	Deleted
MW-76M2	4/8/2010	858250.00	253590.80	53.07	1.29	9.67	Deleted
MW-76M2	4/23/2012	858703.50	253781.30	21.22	0.22	11.71	Deleted
MW-77M1	4/8/2010	858294.00	253704.30	-27.07	0.11	9.67	Deleted
MW-77M1	4/20/2011	858526.90	253862.10	-35.90	0.08	10.70	Deleted
MW-77M1	4/19/2012	858721.00	253944.10	-35.39	0.05	11.70	Deleted
MW-77M2	4/8/2010	858250.00	253590.80	39.56	1.27	9.67	Deleted
MW-77M2	4/20/2011	858425.40	253806.70	18.09	0.32	10.70	Deleted
MW-77M2	12/27/2011	858594.40	253892.80	20.00	0.28	11.38	Deleted
MW-77M2	4/19/2012	858671.60	253925.30	21.40	0.29	11.70	Deleted
MW-77S	4/20/2011	858404.90	253791.90	48.41	0.03	10.70	Deleted
MW-77S	4/19/2012	858671.40	253923.20	55.02	0.03	11.70	Deleted
MW-78M1	4/13/2010	858250.00	253590.80	31.44	0.26	9.68	Deleted
MW-78M1	4/20/2011	858510.00	253601.30	1.11	0.06	10.70	Deleted
MW-78M1	4/23/2012	858779.70	253663.90	2.59	0.08	11.71	Deleted
MW-78M2	4/13/2010	858250.00	253590.80	47.33	0.75	9.68	Deleted
MW-79M1	12/7/2000	859166.10	253846.40	-42.09	0.35	0.33	Deleted
MW-79M1	8/16/2001	859252.80	253873.80	-40.55	0.35	1.02	Deleted
MW-79M1	4/25/2002	859349.10	253904.70	-38.91	0.35	1.71	Deleted
MW-79M1	5/15/2003	859500.20	253954.20	-36.24	0.35	2.77	Deleted
MW-79M1	9/29/2004	859688.50	254016.80	-32.47	0.35	4.14	Deleted
MW-79M1	4/30/2005	859766.20	254043.00	-30.78	0.35	4.73	Deleted
MW-79M1	4/27/2007	860024.30	254131.20	-24.60	0.35	6.72	Deleted
PHOP01	4/17/2003	857050.20	253936.00	-23.26	0.35	2.69	Deleted
PHOP01	7/10/2003	857067.60	253927.70	-27.70	0.35	2.92	Deleted
PHOP01	12/10/2003	857130.60	253972.50	-38.74	0.35	3.34	Deleted
PW-304	12/18/2003	858162.20	252545.60	-17.42	0.35	3.36	Deleted
PW-304	1/7/2004	858169.20	252550.00	-17.24	0.35	3.42	Deleted
PW-304	9/21/2005	858393.00	252665.00	-11.33	0.35	5.12	Deleted
PW-304	1/16/2008	858735.00	252785.90	-2.62	0.35	7.44	Deleted
PW-304	5/7/2009	858967.10	252845.30	2.82	0.35	8.75	Deleted
XX9514	4/8/2002	846772.10	253541.20	-71.08	0.35	1.67	Deleted
XX9514	4/10/2008	847602.90	253424.50	-58.80	0.35	7.67	Deleted
XX9514	4/10/2008	847602.90	253424.50	-58.80	0.35	7.67	Deleted
XX9514	9/16/2009	847616.80	253429.90	-57.83	0.35	9.11	Deleted
XX9514	11/19/2009	847630.60	253438.20	-57.80	0.21	9.28	Deleted
XX9514	8/19/2010	847943.90	253434.10	-65.17	1.24	10.03	Deleted
XX9514	8/21/2012	849284.30	253248.60	-58.38	3.48	12.04	Deleted
MW-114M1	12/28/2000	856746.30	253446.90	-30.00	11.00	0.39	Predicted Extraction/Removal

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-114M1	3/14/2001	856747.30	253447.00	-30.00	13.00	0.60	Predicted Extraction/Removal
MW-114M1	6/18/2001	856749.50	253447.00	-30.00	10.00	0.86	Predicted Extraction/Removal
MW-114M1	12/21/2001	856759.70	253447.10	-30.00	22.10	1.37	Predicted Extraction/Removal
MW-114M1	6/21/2002	856777.80	253446.70	-29.87	12.00	1.87	Predicted Extraction/Removal
MW-114M1	8/9/2002	856777.80	253446.60	-29.75	14.00	2.00	Predicted Extraction/Removal
MW-114M1	11/13/2002	856777.80	253446.50	-29.48	11.00	2.27	Predicted Extraction/Removal
MW-114M1	5/27/2003	856777.80	253446.60	-29.57	9.60	2.80	Predicted Extraction/Removal
MW-114M1	10/2/2003	856776.90	253451.10	-27.58	7.70	3.15	Predicted Extraction/Removal
MW-114M1	2/9/2004	857339.40	253563.30	-10.00	13.40	3.51	Predicted Extraction/Removal
MW-114M1	4/19/2004	857339.30	253563.30	-10.00	9.67	3.70	Predicted Extraction/Removal
MW-114M1	7/30/2004	857339.20	253563.30	-10.00	4.36	3.98	Predicted Extraction/Removal
MW-114M1	4/13/2005	857339.20	253563.30	-10.00	1.70	4.68	Predicted Extraction/Removal
MW-114M1	4/18/2006	857339.40	253563.30	-10.00	0.81	5.69	Predicted Extraction/Removal
MW-114M1	4/19/2007	857339.40	253563.30	-10.00	2.91	6.70	Predicted Extraction/Removal
MW-114M1	4/8/2008	857338.30	253562.90	-10.00	9.23	7.67	Predicted Extraction/Removal
MW-114M1	4/21/2009	857336.90	253562.30	-10.00	4.85	8.70	Predicted Extraction/Removal
MW-114M1	11/16/2009	857336.80	253562.30	-10.00	2.16	9.27	Predicted Extraction/Removal
MW-114M1	4/13/2010	857336.80	253562.30	-10.00	1.15	9.68	Predicted Extraction/Removal
MW-114M2	12/29/2000	856747.80	253446.80	-20.00	300.00	0.39	Predicted Extraction/Removal
MW-114M2	3/14/2001	856747.80	253446.80	-20.00	260.00	0.60	Predicted Extraction/Removal
MW-114M2	6/19/2001	856747.80	253446.80	-20.00	207.00	0.86	Predicted Extraction/Removal
MW-114M2	1/10/2002	856747.80	253446.80	-20.00	127.00	1.42	Predicted Extraction/Removal
MW-114M2	5/29/2002	856747.70	253446.80	-19.01	72.00	1.81	Predicted Extraction/Removal
MW-114M2	8/9/2002	856747.70	253446.80	-16.45	64.00	2.00	Predicted Extraction/Removal
MW-114M2	11/13/2002	856747.70	253446.80	-12.58	71.00	2.27	Predicted Extraction/Removal
MW-114M2	5/27/2003	856747.70	253446.40	-10.00	56.00	2.80	Predicted Extraction/Removal
MW-114M2	10/1/2003	856748.00	253447.10	-20.00	52.00	3.15	Predicted Extraction/Removal
MW-114M2	2/9/2004	856748.00	253447.10	-20.00	42.30	3.51	Predicted Extraction/Removal
MW-114M2	4/19/2004	856748.00	253447.10	-20.00	37.70	3.70	Predicted Extraction/Removal
MW-114M2	7/30/2004	856747.50	253446.90	-20.00	40.80	3.98	Predicted Extraction/Removal
MW-114M2	4/13/2005	857337.20	253560.20	10.00	54.00	4.68	Predicted Extraction/Removal
MW-114M2	4/18/2006	857339.30	253563.30	10.00	103.00	5.69	Predicted Extraction/Removal
MW-114M2	4/19/2007	857339.40	253563.30	10.00	92.70	6.70	Predicted Extraction/Removal
MW-114M2	4/8/2008	857339.40	253563.30	10.00	13.30	7.67	Predicted Extraction/Removal
MW-114M2	12/23/2008	857338.30	253562.90	10.00	2.56	8.38	Predicted Extraction/Removal
MW-114M2	4/21/2009	857338.30	253562.90	10.00	1.69	8.70	Predicted Extraction/Removal
MW-114M2	11/16/2009	857336.80	253562.30	10.00	1.62	9.27	Predicted Extraction/Removal
MW-114M2	4/13/2010	857336.80	253562.30	10.00	1.27	9.68	Predicted Extraction/Removal
MW-114M2	12/23/2010	857336.90	253562.30	10.00	0.65	10.37	Predicted Extraction/Removal
MW-129M1	1/2/2001	856747.80	253446.80	-20.00	10.00	0.40	Predicted Extraction/Removal
MW-129M1	3/14/2001	856747.80	253446.80	-20.00	9.00	0.60	Predicted Extraction/Removal
MW-129M1	6/19/2001	856747.80	253446.80	-20.00	6.00	0.86	Predicted Extraction/Removal
MW-129M1	12/21/2001	856747.70	253446.80	-18.32	5.92	1.37	Predicted Extraction/Removal
MW-129M1	4/12/2002	856749.20	253445.50	-14.06	4.63	1.68	Predicted Extraction/Removal
MW-129M1	8/19/2002	856771.20	253425.70	-12.58	1.90	2.03	Predicted Extraction/Removal
MW-129M1	11/13/2002	856772.00	253425.80	-12.12	2.20	2.27	Predicted Extraction/Removal
MW-129M1	3/21/2003	856748.00	253447.10	-20.00	5.90	2.62	Predicted Extraction/Removal
MW-129M1	10/2/2003	856748.00	253447.10	-20.00	8.50	3.15	Predicted Extraction/Removal
MW-129M1	2/10/2004	856748.00	253447.10	-20.00	6.62	3.51	Predicted Extraction/Removal
MW-129M1	4/7/2004	856747.50	253446.90	-20.00	6.54	3.66	Predicted Extraction/Removal
MW-129M1	8/6/2004	857318.40	253547.90	-0.83	3.68	4.00	Predicted Extraction/Removal
MW-129M1	4/5/2005	857332.70	253536.80	-5.63	1.50	4.66	Predicted Extraction/Removal
MW-129M1	4/19/2006	857360.20	253542.30	-2.33	4.34	5.70	Predicted Extraction/Removal
MW-129M1	4/18/2007	857369.30	253544.10	1.25	28.00	6.69	Predicted Extraction/Removal
MW-129M1	4/22/2008	857363.90	253543.00	0.28	21.20	7.71	Predicted Extraction/Removal
MW-129M1	4/22/2009	857352.30	253540.70	-1.94	0.90	8.70	Predicted Extraction/Removal

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-129M1	4/15/2010	857347.00	253539.70	-3.14	0.04	9.68	Predicted Extraction/Removal
MW-129M2	1/2/2001	856747.80	253446.80	-20.00	0.35	0.40	Predicted Extraction/Removal
MW-129M2	3/14/2001	856747.80	253446.80	-20.00	6.00	0.60	Predicted Extraction/Removal
MW-129M2	6/20/2001	856747.80	253446.80	-20.00	8.00	0.87	Predicted Extraction/Removal
MW-129M2	12/21/2001	856747.70	253446.80	-18.80	6.93	1.37	Predicted Extraction/Removal
MW-129M2	4/12/2002	856747.70	253446.80	-15.05	0.72	1.68	Predicted Extraction/Removal
MW-129M2	8/19/2002	856747.70	253446.40	-10.00	13.00	2.03	Predicted Extraction/Removal
MW-129M2	11/13/2002	856747.70	253446.40	-10.00	16.00	2.27	Predicted Extraction/Removal
MW-129M2	3/24/2003	856748.00	253447.10	-20.00	14.00	2.62	Predicted Extraction/Removal
MW-129M2	10/2/2003	856748.00	253447.10	-20.00	6.70	3.15	Predicted Extraction/Removal
MW-129M2	2/10/2004	856748.00	253447.10	-20.00	5.13	3.51	Predicted Extraction/Removal
MW-129M2	4/7/2004	856748.00	253447.10	-20.00	5.27	3.66	Predicted Extraction/Removal
MW-129M2	8/6/2004	857337.80	253562.60	10.00	4.74	4.00	Predicted Extraction/Removal
MW-129M2	4/5/2005	857328.20	253535.90	8.12	4.50	4.66	Predicted Extraction/Removal
MW-129M2	4/19/2006	857343.30	253559.00	10.00	60.10	5.70	Predicted Extraction/Removal
MW-129M2	4/19/2007	857339.60	253563.20	10.00	15.50	6.70	Predicted Extraction/Removal
MW-129M2	12/6/2007	857338.80	253562.70	10.00	35.10	7.33	Predicted Extraction/Removal
MW-129M2	4/22/2008	857338.90	253562.40	10.00	13.90	7.71	Predicted Extraction/Removal
MW-129M2	12/23/2008	857339.90	253561.40	10.00	12.90	8.38	Predicted Extraction/Removal
MW-129M2	4/22/2009	857340.90	253556.90	10.00	1.99	8.70	Predicted Extraction/Removal
MW-129M2	11/16/2009	857347.80	253540.40	10.00	0.65	9.27	Predicted Extraction/Removal
MW-129M2	4/15/2010	857346.90	253539.60	9.69	0.48	9.68	Predicted Extraction/Removal
MW-129M3	1/2/2001	856747.80	253446.80	-20.00	0.35	0.40	Predicted Extraction/Removal
MW-129M3	3/14/2001	856747.80	253446.80	-20.00	0.35	0.60	Predicted Extraction/Removal
MW-129M3	6/20/2001	856747.80	253446.80	-20.00	0.35	0.87	Predicted Extraction/Removal
MW-129M3	4/15/2002	856747.70	253446.80	-17.15	0.69	1.68	Predicted Extraction/Removal
MW-129M3	8/19/2002	856747.70	253446.80	-13.11	2.00	2.03	Predicted Extraction/Removal
MW-129M3	11/13/2002	856747.70	253446.40	-10.00	0.70	2.27	Predicted Extraction/Removal
MW-129M3	3/24/2003	856747.70	253446.40	-10.00	0.35	2.62	Predicted Extraction/Removal
MW-129M3	10/2/2003	856748.00	253447.10	-20.00	0.59	3.15	Predicted Extraction/Removal
MW-129M3	2/10/2004	856748.00	253447.10	-20.00	0.35	3.51	Predicted Extraction/Removal
MW-129M3	4/7/2004	856748.00	253447.10	-20.00	0.35	3.66	Predicted Extraction/Removal
MW-129M3	8/6/2004	856748.00	253447.10	-20.00	0.36	4.00	Predicted Extraction/Removal
MW-129M3	12/7/2004	857339.40	253563.30	10.00	1.20	4.33	Predicted Extraction/Removal
MW-129M3	6/21/2005	857339.30	253563.30	10.00	0.54	4.87	Predicted Extraction/Removal
MW-129M3	4/19/2006	857339.30	253563.30	10.00	0.44	5.70	Predicted Extraction/Removal
MW-129M3	4/19/2007	857339.40	253563.30	10.00	0.35	6.70	Predicted Extraction/Removal
MW-129M3	4/22/2008	857338.30	253562.90	10.00	1.64	7.71	Predicted Extraction/Removal
MW-129M3	4/22/2009	857336.80	253562.30	10.00	0.54	8.70	Predicted Extraction/Removal
MW-129M3	4/15/2010	857336.80	253562.30	10.00	0.22	9.68	Predicted Extraction/Removal
MW-139M1	12/29/2000	856744.80	253446.80	-30.00	0.35	0.39	Predicted Extraction/Removal
MW-139M1	3/15/2001	856744.80	253446.80	-30.00	0.35	0.60	Predicted Extraction/Removal
MW-139M1	6/20/2001	856744.80	253446.80	-30.00	0.35	0.87	Predicted Extraction/Removal
MW-139M1	4/17/2002	856744.80	253446.80	-30.00	1.86	1.69	Predicted Extraction/Removal
MW-139M1	8/9/2002	856744.80	253446.80	-30.00	1.60	2.00	Predicted Extraction/Removal
MW-139M1	11/13/2002	856744.80	253446.80	-30.00	1.40	2.27	Predicted Extraction/Removal
MW-139M1	3/28/2003	856744.80	253446.80	-30.00	0.65	2.63	Predicted Extraction/Removal
MW-139M1	10/10/2003	856744.80	253446.80	-30.00	0.42	3.17	Predicted Extraction/Removal
MW-139M1	2/27/2004	856744.80	253446.80	-30.00	0.40	3.55	Predicted Extraction/Removal
MW-139M1	5/14/2004	856744.80	253446.80	-30.00	0.60	3.77	Predicted Extraction/Removal
MW-139M1	8/4/2004	856744.80	253446.80	-30.00	0.51	3.99	Predicted Extraction/Removal
MW-139M1	12/6/2004	856744.80	253446.80	-30.00	0.35	4.33	Predicted Extraction/Removal
MW-139M1	6/23/2005	856744.80	253446.80	-30.00	0.35	4.87	Predicted Extraction/Removal
MW-139M1	12/16/2005	856744.70	253446.80	-30.00	0.44	5.36	Predicted Extraction/Removal
MW-139M1	4/13/2006	856744.70	253446.80	-30.00	0.37	5.68	Predicted Extraction/Removal
MW-139M1	12/29/2006	856744.90	253447.00	-30.00	1.38	6.39	Predicted Extraction/Removal

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-139M1	4/18/2007	856753.40	253449.30	-30.00	2.55	6.69	Predicted Extraction/Removal
MW-139M1	4/8/2008	857338.50	253562.80	-10.00	0.35	7.67	Predicted Extraction/Removal
MW-139M1	4/30/2009	856776.40	253453.50	-27.24	0.35	8.73	Predicted Extraction/Removal
MW-139M1	4/14/2010	856744.60	253446.80	-30.00	0.08	9.68	Predicted Extraction/Removal
MW-139M1	4/28/2011	856744.30	253446.80	-30.00	0.02	10.72	Predicted Extraction/Removal
MW-139M2	12/29/2000	855447.50	253214.50	-20.50	8.00	0.39	Predicted Extraction/Removal
MW-139M2	3/15/2001	855445.30	253214.10	-20.80	11.00	0.60	Predicted Extraction/Removal
MW-139M2	6/20/2001	856747.80	253446.80	-20.00	3.00	0.87	Predicted Extraction/Removal
MW-139M2	12/27/2001	856747.80	253446.80	-20.00	0.35	1.39	Predicted Extraction/Removal
MW-139M2	4/17/2002	856747.80	253446.80	-20.00	2.77	1.69	Predicted Extraction/Removal
MW-139M2	8/9/2002	856747.80	253446.80	-20.00	1.20	2.00	Predicted Extraction/Removal
MW-139M2	11/13/2002	856747.80	253446.80	-20.00	0.35	2.27	Predicted Extraction/Removal
MW-139M2	3/28/2003	856747.80	253446.80	-20.00	0.35	2.63	Predicted Extraction/Removal
MW-139M2	10/10/2003	856747.80	253446.80	-20.00	13.00	3.17	Predicted Extraction/Removal
MW-139M2	2/27/2004	856747.80	253446.80	-20.00	0.35	3.55	Predicted Extraction/Removal
MW-139M2	5/14/2004	856747.80	253446.80	-20.00	0.60	3.77	Predicted Extraction/Removal
MW-139M2	8/4/2004	856747.80	253446.80	-20.00	3.50	3.99	Predicted Extraction/Removal
MW-139M2	4/7/2005	856747.80	253446.80	-20.00	2.94	4.66	Predicted Extraction/Removal
MW-139M2	4/13/2006	856747.80	253446.40	-10.00	3.86	5.68	Predicted Extraction/Removal
MW-139M2	4/18/2007	856748.00	253447.10	-20.00	0.35	6.69	Predicted Extraction/Removal
MW-139M2	4/8/2008	857316.60	253556.90	3.56	10.90	7.67	Predicted Extraction/Removal
MW-139M2	4/30/2009	856747.30	253446.80	-20.00	0.35	8.73	Predicted Extraction/Removal
MW-139M2	4/14/2010	856747.30	253446.80	-20.00	7.23	9.68	Predicted Extraction/Removal
MW-139M3	12/29/2000	855402.30	253185.30	-9.04	0.35	0.39	Predicted Extraction/Removal
MW-139M3	3/15/2001	855401.70	253188.80	-6.65	0.35	0.60	Predicted Extraction/Removal
MW-139M3	6/20/2001	855425.60	253185.10	-10.00	0.35	0.87	Predicted Extraction/Removal
MW-139M3	4/17/2002	855425.50	253185.10	-10.00	0.35	1.69	Predicted Extraction/Removal
MW-139M3	8/9/2002	856747.80	253446.80	-20.00	0.35	2.00	Predicted Extraction/Removal
MW-139M3	11/13/2002	856747.80	253446.80	-20.00	0.35	2.27	Predicted Extraction/Removal
MW-139M3	3/28/2003	856747.80	253446.80	-20.00	0.35	2.63	Predicted Extraction/Removal
MW-139M3	10/10/2003	856747.80	253446.80	-20.00	0.35	3.17	Predicted Extraction/Removal
MW-139M3	2/27/2004	856747.80	253446.80	-20.00	0.35	3.55	Predicted Extraction/Removal
MW-139M3	5/14/2004	856747.80	253446.80	-20.00	0.35	3.77	Predicted Extraction/Removal
MW-139M3	8/4/2004	856747.80	253446.80	-20.00	0.35	3.99	Predicted Extraction/Removal
MW-139M3	4/7/2005	856747.80	253446.80	-20.00	0.35	4.66	Predicted Extraction/Removal
MW-139M3	4/13/2006	856747.70	253446.40	-10.00	0.35	5.68	Predicted Extraction/Removal
MW-139M3	4/18/2007	856748.00	253447.10	-20.00	0.35	6.69	Predicted Extraction/Removal
MW-139M3	4/8/2008	857339.40	253563.30	10.00	0.35	7.67	Predicted Extraction/Removal
MW-139M3	5/1/2009	856747.30	253446.80	-20.00	0.35	8.73	Predicted Extraction/Removal
MW-139M3	4/14/2010	856747.30	253446.80	-20.00	0.12	9.68	Predicted Extraction/Removal
MW-162M1	5/4/2001	857339.50	253563.30	-10.00	0.35	0.74	Predicted Extraction/Removal
MW-162M1	8/15/2001	857339.50	253563.30	-10.00	0.35	1.02	Predicted Extraction/Removal
MW-162M1	1/18/2002	857339.50	253563.30	-10.00	0.35	1.45	Predicted Extraction/Removal
MW-162M1	4/17/2002	857339.50	253563.30	-10.00	0.35	1.69	Predicted Extraction/Removal
MW-162M1	8/8/2002	857339.50	253563.30	-10.00	0.35	2.00	Predicted Extraction/Removal
MW-162M1	11/13/2002	857339.50	253563.30	-10.00	0.35	2.27	Predicted Extraction/Removal
MW-162M1	3/26/2003	857338.90	253563.00	-10.00	0.35	2.63	Predicted Extraction/Removal
MW-162M1	10/10/2003	857338.40	253562.90	-10.00	0.35	3.17	Predicted Extraction/Removal
MW-162M1	3/1/2004	857338.30	253562.90	-10.00	0.35	3.56	Predicted Extraction/Removal
MW-162M1	4/6/2004	857338.30	253562.90	-10.00	0.35	3.66	Predicted Extraction/Removal
MW-162M1	7/28/2004	857338.30	253562.90	-10.00	0.35	3.97	Predicted Extraction/Removal
MW-162M1	4/18/2005	857336.80	253562.30	-10.00	0.35	4.69	Predicted Extraction/Removal
MW-162M1	4/19/2007	858250.40	253590.90	55.00	0.35	6.70	Predicted Extraction/Removal
MW-162M2	5/5/2001	856748.00	253447.10	-20.00	0.35	0.74	Predicted Extraction/Removal
MW-162M2	8/15/2001	856747.80	253447.00	-20.00	0.35	1.02	Predicted Extraction/Removal
MW-162M2	1/18/2002	856747.50	253446.90	-20.00	1.55	1.45	Predicted Extraction/Removal

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-162M2	4/18/2002	856747.50	253446.90	-20.00	2.03	1.69	Predicted Extraction/Removal
MW-162M2	8/8/2002	857318.40	253547.90	2.40	2.40	2.00	Predicted Extraction/Removal
MW-162M2	11/14/2002	857319.80	253540.80	1.10	1.90	2.27	Predicted Extraction/Removal
MW-162M2	3/27/2003	857323.20	253535.00	0.61	3.50	2.63	Predicted Extraction/Removal
MW-162M2	10/10/2003	857333.70	253537.00	0.59	4.40	3.17	Predicted Extraction/Removal
MW-162M2	3/1/2004	857340.40	253538.30	1.36	3.91	3.56	Predicted Extraction/Removal
MW-162M2	4/16/2004	857342.30	253538.70	1.63	4.11	3.69	Predicted Extraction/Removal
MW-162M2	7/28/2004	857346.40	253539.50	2.26	6.20	3.97	Predicted Extraction/Removal
MW-162M2	12/7/2004	857350.90	253540.40	3.09	10.00	4.33	Predicted Extraction/Removal
MW-162M2	6/21/2005	857356.70	253541.60	4.35	5.10	4.87	Predicted Extraction/Removal
MW-162M2	12/12/2005	857354.70	253541.20	4.78	4.60	5.35	Predicted Extraction/Removal
MW-162M2	4/18/2006	857355.30	253541.30	5.30	4.33	5.69	Predicted Extraction/Removal
MW-162M2	1/2/2007	858250.40	253591.00	55.00	0.87	6.40	Predicted Extraction/Removal
MW-162M2	4/19/2007	858250.40	253591.00	55.00	1.42	6.70	Predicted Extraction/Removal
MW-162M2	4/10/2008	858250.40	253590.90	55.00	1.18	7.67	Predicted Extraction/Removal
MW-162M2	4/20/2009	858250.00	253590.80	55.00	0.35	8.70	Predicted Extraction/Removal
MW-162M2	4/13/2010	858250.00	253590.80	55.00	0.04	9.68	Predicted Extraction/Removal
MW-162M2	4/18/2011	858250.00	253590.80	55.00	0.05	10.69	Predicted Extraction/Removal
MW-162M3	5/5/2001	856748.00	253447.10	-20.00	0.35	0.74	Predicted Extraction/Removal
MW-162M3	8/16/2001	856748.00	253447.10	-20.00	0.35	1.02	Predicted Extraction/Removal
MW-162M3	1/22/2002	856748.00	253447.10	-20.00	0.35	1.46	Predicted Extraction/Removal
MW-162M3	4/18/2002	856748.00	253447.10	-20.00	0.35	1.69	Predicted Extraction/Removal
MW-162M3	8/8/2002	856747.50	253446.90	-20.00	0.35	2.00	Predicted Extraction/Removal
MW-162M3	11/15/2002	856747.50	253446.90	-20.00	0.35	2.27	Predicted Extraction/Removal
MW-162M3	3/27/2003	857339.40	253563.30	10.00	0.35	2.63	Predicted Extraction/Removal
MW-162M3	10/10/2003	857339.40	253563.30	10.00	0.35	3.17	Predicted Extraction/Removal
MW-162M3	3/1/2004	857339.40	253563.30	10.00	0.35	3.56	Predicted Extraction/Removal
MW-162M3	4/6/2004	857339.40	253563.30	10.00	0.35	3.66	Predicted Extraction/Removal
MW-162M3	7/28/2004	857339.40	253563.30	10.00	0.35	3.97	Predicted Extraction/Removal
MW-162M3	4/19/2005	857339.40	253563.30	10.00	0.35	4.70	Predicted Extraction/Removal
MW-162M3	4/18/2006	857338.30	253562.90	10.00	0.35	5.69	Predicted Extraction/Removal
MW-162M3	4/20/2007	858250.30	253590.90	55.00	0.35	6.70	Predicted Extraction/Removal
MW-165M1	5/7/2001	855425.50	253185.10	-30.00	0.35	0.75	Predicted Extraction/Removal
MW-165M1	8/16/2001	855425.40	253185.00	-30.00	0.35	1.02	Predicted Extraction/Removal
MW-165M1	2/7/2002	855425.40	253185.00	-30.00	0.35	1.50	Predicted Extraction/Removal
MW-165M1	4/18/2002	855425.40	253185.00	-30.00	0.35	1.69	Predicted Extraction/Removal
MW-165M1	8/10/2002	855425.40	253185.00	-30.00	0.35	2.01	Predicted Extraction/Removal
MW-165M1	11/13/2002	855425.40	253185.00	-30.00	0.35	2.27	Predicted Extraction/Removal
MW-165M1	3/27/2003	855424.60	253185.00	-30.00	4.00	2.63	Predicted Extraction/Removal
MW-165M1	9/10/2003	856727.20	253444.50	-29.72	2.50	3.09	Predicted Extraction/Removal
MW-165M1	3/1/2004	856744.80	253446.80	-30.00	3.15	3.56	Predicted Extraction/Removal
MW-165M1	4/9/2004	856744.80	253446.80	-30.00	3.05	3.67	Predicted Extraction/Removal
MW-165M1	8/5/2004	856744.80	253446.80	-30.00	3.54	3.99	Predicted Extraction/Removal
MW-165M1	12/7/2004	856744.80	253446.80	-30.00	0.35	4.33	Predicted Extraction/Removal
MW-165M1	4/14/2005	856744.80	253446.80	-30.00	0.35	4.68	Predicted Extraction/Removal
MW-165M1	8/8/2005	856744.80	253446.80	-30.00	0.35	5.00	Predicted Extraction/Removal
MW-165M1	12/19/2005	856744.80	253446.80	-30.00	0.35	5.36	Predicted Extraction/Removal
MW-165M1	4/14/2006	856744.80	253446.80	-30.00	0.35	5.68	Predicted Extraction/Removal
MW-165M1	12/29/2006	856744.70	253446.80	-30.00	0.35	6.39	Predicted Extraction/Removal
MW-165M1	4/16/2007	856744.80	253447.00	-30.00	0.35	6.69	Predicted Extraction/Removal
MW-165M1	4/18/2008	856744.90	253447.00	-30.00	0.35	7.69	Predicted Extraction/Removal
MW-165M1	4/16/2009	856744.90	253446.90	-30.00	0.35	8.69	Predicted Extraction/Removal
MW-165M1	4/15/2010	856744.50	253446.80	-30.00	0.41	9.68	Predicted Extraction/Removal
MW-165M1	4/19/2011	856744.30	253446.80	-30.00	0.02	10.70	Predicted Extraction/Removal
MW-165M1	3/29/2012	856744.30	253446.80	-30.00	0.02	11.64	Predicted Extraction/Removal
MW-165M2	5/8/2001	855447.10	253214.40	-6.48	122.00	0.75	Predicted Extraction/Removal

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-165M2	8/16/2001	855450.10	253201.40	-6.08	102.00	1.02	Predicted Extraction/Removal
MW-165M2	1/10/2002	855423.90	253185.00	-10.00	81.20	1.42	Predicted Extraction/Removal
MW-165M2	4/18/2002	855423.90	253185.00	-10.00	83.50	1.69	Predicted Extraction/Removal
MW-165M2	8/10/2002	855402.30	253185.40	-8.22	64.00	2.01	Predicted Extraction/Removal
MW-165M2	11/26/2002	855450.30	253200.50	-4.47	78.00	2.30	Predicted Extraction/Removal
MW-165M2	3/27/2003	855425.50	253185.10	-10.00	110.00	2.63	Predicted Extraction/Removal
MW-165M2	9/11/2003	855425.50	253185.10	-10.00	57.00	3.09	Predicted Extraction/Removal
MW-165M2	3/1/2004	856747.80	253446.80	-20.00	50.90	3.56	Predicted Extraction/Removal
MW-165M2	4/9/2004	856747.80	253446.80	-20.00	39.00	3.67	Predicted Extraction/Removal
MW-165M2	8/6/2004	856747.80	253446.80	-20.00	41.30	4.00	Predicted Extraction/Removal
MW-165M2	12/7/2004	856747.80	253446.80	-20.00	94.00	4.33	Predicted Extraction/Removal
MW-165M2	4/14/2005	856747.80	253446.80	-20.00	9.80	4.68	Predicted Extraction/Removal
MW-165M2	8/8/2005	856747.80	253446.80	-20.00	0.62	5.00	Predicted Extraction/Removal
MW-165M2	12/15/2005	856747.80	253446.80	-20.00	5.92	5.35	Predicted Extraction/Removal
MW-165M2	4/14/2006	856747.70	253446.80	-15.67	3.89	5.68	Predicted Extraction/Removal
MW-165M2	12/28/2006	856748.00	253447.10	-20.00	6.57	6.39	Predicted Extraction/Removal
MW-165M2	4/16/2007	856748.00	253447.10	-20.00	5.05	6.69	Predicted Extraction/Removal
MW-165M2	12/6/2007	856748.00	253447.10	-20.00	26.20	7.33	Predicted Extraction/Removal
MW-165M2	2/1/2008	856748.00	253447.10	-20.00	6.55	7.48	Predicted Extraction/Removal
MW-165M2	4/18/2008	856748.00	253447.10	-20.00	5.41	7.69	Predicted Extraction/Removal
MW-165M2	12/16/2008	856747.50	253446.90	-20.00	0.78	8.36	Predicted Extraction/Removal
MW-165M2	4/16/2009	856747.50	253446.90	-20.00	0.35	8.69	Predicted Extraction/Removal
MW-165M2	11/16/2009	856747.50	253446.90	-20.00	1.09	9.27	Predicted Extraction/Removal
MW-165M2	4/15/2010	856747.30	253446.80	-20.00	0.36	9.68	Predicted Extraction/Removal
MW-165M2	12/23/2010	856747.30	253446.80	-20.00	0.28	10.37	Predicted Extraction/Removal
MW-165M2	4/19/2011	856747.30	253446.80	-20.00	0.23	10.70	Predicted Extraction/Removal
MW-165M2	12/15/2011	856747.30	253446.80	-20.00	0.16	11.35	Predicted Extraction/Removal
MW-165M3	5/9/2001	853888.40	252851.40	-4.88	0.35	0.75	Predicted Extraction/Removal
MW-165M3	8/16/2001	855402.30	253185.30	-10.04	0.35	1.02	Predicted Extraction/Removal
MW-165M3	2/13/2002	855423.90	253185.00	-10.00	0.35	1.52	Predicted Extraction/Removal
MW-165M3	4/19/2002	855402.30	253185.30	-9.81	0.35	1.70	Predicted Extraction/Removal
MW-165M3	8/10/2002	855402.30	253185.30	-5.28	0.35	2.01	Predicted Extraction/Removal
MW-165M3	11/26/2002	855425.50	253185.10	-10.00	0.35	2.30	Predicted Extraction/Removal
MW-165M3	3/28/2003	855425.50	253185.10	-10.00	0.35	2.63	Predicted Extraction/Removal
MW-165M3	10/14/2003	855425.40	253185.00	-10.00	0.35	3.18	Predicted Extraction/Removal
MW-165M3	3/1/2004	856747.80	253446.80	-20.00	0.35	3.56	Predicted Extraction/Removal
MW-165M3	4/19/2004	856747.80	253446.80	-20.00	0.35	3.70	Predicted Extraction/Removal
MW-165M3	8/5/2004	856747.80	253446.80	-20.00	0.35	3.99	Predicted Extraction/Removal
MW-165M3	4/14/2005	856747.80	253446.80	-20.00	0.35	4.68	Predicted Extraction/Removal
MW-165M3	4/14/2006	856747.70	253446.80	-14.65	0.35	5.68	Predicted Extraction/Removal
MW-165M3	4/16/2007	856748.00	253447.10	-20.00	0.35	6.69	Predicted Extraction/Removal
MW-165M3	4/21/2008	856748.00	253447.10	-20.00	0.35	7.70	Predicted Extraction/Removal
MW-165M3	4/16/2009	856747.50	253446.90	-20.00	0.35	8.69	Predicted Extraction/Removal
MW-165M3	4/15/2010	856747.30	253446.80	-20.00	0.03	9.68	Predicted Extraction/Removal
MW-165M3	4/19/2011	856747.30	253446.80	-20.00	0.03	10.70	Predicted Extraction/Removal
MW-172M1	6/21/2001	855425.40	253185.00	-30.00	0.35	0.87	Predicted Extraction/Removal
MW-172M1	9/21/2001	855424.60	253185.00	-30.00	0.35	1.12	Predicted Extraction/Removal
MW-172M1	2/8/2002	855424.60	253185.00	-30.00	0.35	1.50	Predicted Extraction/Removal
MW-172M1	9/18/2002	855424.60	253185.00	-30.00	0.35	2.11	Predicted Extraction/Removal
MW-172M1	2/3/2003	855424.60	253185.00	-30.00	0.35	2.49	Predicted Extraction/Removal
MW-172M1	3/28/2003	855424.60	253185.00	-30.00	0.35	2.63	Predicted Extraction/Removal
MW-172M1	10/14/2003	855424.70	253185.00	-30.00	0.35	3.18	Predicted Extraction/Removal
MW-172M1	2/10/2004	855423.00	253184.90	-30.00	0.35	3.51	Predicted Extraction/Removal
MW-172M1	4/19/2004	855423.10	253184.90	-30.00	0.35	3.70	Predicted Extraction/Removal
MW-172M1	7/28/2004	855423.10	253184.90	-30.00	0.35	3.97	Predicted Extraction/Removal
MW-172M1	4/5/2005	855423.10	253184.90	-30.00	0.35	4.66	Predicted Extraction/Removal

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-172M2	6/21/2001	855425.40	253185.00	-30.00	3.00	0.87	Predicted Extraction/Removal
MW-172M2	9/21/2001	855425.40	253185.00	-30.00	3.94	1.12	Predicted Extraction/Removal
MW-172M2	2/8/2002	855425.40	253185.00	-30.00	5.45	1.50	Predicted Extraction/Removal
MW-172M2	9/18/2002	855425.40	253185.00	-30.00	7.10	2.11	Predicted Extraction/Removal
MW-172M2	11/26/2002	855425.40	253185.00	-30.00	6.80	2.30	Predicted Extraction/Removal
MW-172M2	3/28/2003	855425.40	253185.00	-30.00	6.80	2.63	Predicted Extraction/Removal
MW-172M2	10/15/2003	855424.60	253185.00	-30.00	6.80	3.19	Predicted Extraction/Removal
MW-172M2	2/10/2004	855424.60	253185.00	-30.00	4.45	3.51	Predicted Extraction/Removal
MW-172M2	4/19/2004	855424.60	253185.00	-30.00	4.39	3.70	Predicted Extraction/Removal
MW-172M2	7/28/2004	855424.70	253185.00	-30.00	4.10	3.97	Predicted Extraction/Removal
MW-172M2	4/5/2005	855423.20	253184.90	-30.00	2.10	4.66	Predicted Extraction/Removal
MW-172M2	12/19/2005	855423.10	253184.90	-30.00	0.69	5.36	Predicted Extraction/Removal
MW-172M2	4/14/2006	855423.10	253184.90	-30.00	0.39	5.68	Predicted Extraction/Removal
MW-172M3	6/21/2001	855404.10	253176.50	-13.66	0.35	0.87	Predicted Extraction/Removal
MW-172M3	9/24/2001	855405.50	253169.20	-11.93	0.35	1.13	Predicted Extraction/Removal
MW-172M3	2/8/2002	855412.30	253166.40	-10.00	0.35	1.50	Predicted Extraction/Removal
MW-172M3	9/18/2002	855425.50	253185.10	-10.00	0.35	2.11	Predicted Extraction/Removal
MW-172M3	2/3/2003	855425.50	253185.10	-10.00	0.35	2.49	Predicted Extraction/Removal
MW-172M3	3/28/2003	855425.50	253185.10	-10.00	0.35	2.63	Predicted Extraction/Removal
MW-172M3	10/15/2003	855425.50	253185.10	-10.00	0.35	3.19	Predicted Extraction/Removal
MW-172M3	2/10/2004	855425.50	253185.10	-10.00	0.35	3.51	Predicted Extraction/Removal
MW-172M3	4/19/2004	855425.50	253185.10	-10.00	0.35	3.70	Predicted Extraction/Removal
MW-172M3	7/28/2004	855425.40	253185.00	-10.00	0.35	3.97	Predicted Extraction/Removal
MW-172M3	4/5/2005	855425.40	253185.00	-10.00	0.35	4.66	Predicted Extraction/Removal
MW-172M3	4/14/2006	855424.70	253185.00	-10.00	0.42	5.68	Predicted Extraction/Removal
MW-172M3	4/13/2007	855423.60	253185.50	-10.00	0.35	6.68	Predicted Extraction/Removal
MW-172M3	4/18/2008	856747.50	253446.90	-20.00	0.35	7.69	Predicted Extraction/Removal
MW-19S	8/8/2000	858250.00	253590.80	55.00	5.00	0.00	Predicted Extraction/Removal
MW-19S	12/8/2000	858250.00	253590.80	55.00	12.00	0.34	Predicted Extraction/Removal
MW-19S	6/18/2001	858250.00	253590.80	55.00	41.00	0.86	Predicted Extraction/Removal
MW-19S	8/24/2001	858250.00	253590.80	55.00	8.49	1.04	Predicted Extraction/Removal
MW-19S	12/27/2001	858250.00	253590.80	55.00	18.60	1.39	Predicted Extraction/Removal
MW-210 (51.54)	3/21/2002	853913.10	252835.10	0.00	0.35	1.62	Predicted Extraction/Removal
MW-210 (41.54)	3/21/2002	853912.80	252835.20	0.00	0.35	1.62	Predicted Extraction/Removal
MW-210 (31.54)	3/21/2002	853887.80	252854.10	-0.28	0.35	1.62	Predicted Extraction/Removal
MW-210 (21.54)	3/22/2002	853888.70	252854.90	-3.82	0.37	1.62	Predicted Extraction/Removal
MW-210 (11.54)	3/22/2002	853891.60	252855.50	-7.55	4.95	1.62	Predicted Extraction/Removal
MW-210 (1.54)	3/22/2002	853891.90	252855.50	-12.05	13.90	1.62	Predicted Extraction/Removal
MW-210 (-8.46)	3/22/2002	853891.40	252855.40	-15.01	9.05	1.62	Predicted Extraction/Removal
MW-210 (-88.46)	3/25/2002	855425.40	253185.00	-30.00	0.35	1.63	Predicted Extraction/Removal
MW-210M1	10/28/2002	855425.50	253185.10	-30.00	0.35	2.22	Predicted Extraction/Removal
MW-210M1	3/21/2003	855423.80	253185.00	-30.00	0.35	2.62	Predicted Extraction/Removal
MW-210M1	3/10/2004	855423.80	253185.00	-30.00	0.35	3.59	Predicted Extraction/Removal
MW-210M1	5/20/2004	855423.80	253185.00	-30.00	0.35	3.78	Predicted Extraction/Removal
MW-210M1	8/5/2004	855425.50	253185.00	-30.00	0.35	3.99	Predicted Extraction/Removal
MW-210M1	12/6/2004	855425.60	253185.10	-30.00	0.35	4.33	Predicted Extraction/Removal
MW-210M1	6/21/2005	855425.50	253185.10	-30.00	0.35	4.87	Predicted Extraction/Removal
MW-210M1	4/17/2006	855425.50	253185.10	-30.00	4.07	5.69	Predicted Extraction/Removal
MW-210M1	12/28/2006	855425.40	253185.00	-30.00	4.67	6.39	Predicted Extraction/Removal
MW-210M1	4/17/2007	855425.40	253185.00	-30.00	7.74	6.69	Predicted Extraction/Removal
MW-210M1	4/17/2008	855424.60	253185.00	-30.00	8.26	7.69	Predicted Extraction/Removal
MW-210M1	5/7/2009	855424.70	253185.00	-30.00	1.18	8.75	Predicted Extraction/Removal
MW-210M1	4/20/2010	855423.10	253184.90	-30.00	0.19	9.70	Predicted Extraction/Removal
MW-210M2	6/6/2002	853891.30	252855.40	-12.43	12.00	1.83	Predicted Extraction/Removal
MW-210M2	10/28/2002	853891.10	252855.40	-12.48	9.93	2.22	Predicted Extraction/Removal
MW-210M2	3/11/2004	855452.80	253187.80	-8.47	23.00	3.59	Predicted Extraction/Removal

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-210M2	5/20/2004	855424.00	253185.00	-10.00	44.00	3.78	Predicted Extraction/Removal
MW-210M2	8/5/2004	855424.00	253185.00	-10.00	59.00	3.99	Predicted Extraction/Removal
MW-210M2	12/6/2004	855423.90	253185.00	-10.00	56.00	4.33	Predicted Extraction/Removal
MW-210M2	6/21/2005	855452.70	253188.30	-7.64	15.00	4.87	Predicted Extraction/Removal
MW-210M2	12/15/2005	855425.50	253185.10	-10.00	102.00	5.35	Predicted Extraction/Removal
MW-210M2	4/17/2006	855425.50	253185.10	-10.00	95.10	5.69	Predicted Extraction/Removal
MW-210M2	12/28/2006	855425.50	253185.10	-10.00	226.00	6.39	Predicted Extraction/Removal
MW-210M2	4/17/2007	855425.50	253185.10	-10.00	243.00	6.69	Predicted Extraction/Removal
MW-210M2	12/6/2007	855425.40	253185.00	-10.00	1.39	7.33	Predicted Extraction/Removal
MW-210M2	1/31/2008	855425.40	253185.00	-10.00	3.31	7.48	Predicted Extraction/Removal
MW-210M2	4/21/2008	855425.40	253185.00	-10.00	3.98	7.70	Predicted Extraction/Removal
MW-210M2	12/30/2008	855424.70	253185.00	-10.00	2.12	8.40	Predicted Extraction/Removal
MW-210M2	5/7/2009	855424.70	253185.00	-10.00	1.94	8.75	Predicted Extraction/Removal
MW-210M2	11/16/2009	855423.10	253184.90	-10.00	3.22	9.27	Predicted Extraction/Removal
MW-210M2	4/20/2010	855423.10	253184.90	-10.00	3.90	9.70	Predicted Extraction/Removal
MW-210M2	12/23/2010	855423.20	253184.90	-10.00	3.48	10.37	Predicted Extraction/Removal
MW-210M2	4/19/2011	855423.20	253184.90	-10.00	2.81	10.70	Predicted Extraction/Removal
MW-210M3	6/6/2002	853909.70	252837.60	0.00	0.35	1.83	Predicted Extraction/Removal
MW-210M3	10/25/2002	853910.30	252837.20	0.00	0.35	2.21	Predicted Extraction/Removal
MW-210M3	3/11/2004	853887.80	252854.40	-1.78	0.35	3.59	Predicted Extraction/Removal
MW-210M3	5/20/2004	855402.30	253185.30	-9.54	0.35	3.78	Predicted Extraction/Removal
MW-210M3	8/5/2004	855423.90	253185.00	-10.00	0.35	3.99	Predicted Extraction/Removal
MW-210M3	4/20/2005	855402.30	253185.30	-7.64	0.35	4.70	Predicted Extraction/Removal
MW-210M3	4/17/2006	855425.50	253185.10	-10.00	0.35	5.69	Predicted Extraction/Removal
MW-210M3	4/18/2007	855425.50	253185.10	-10.00	0.35	6.69	Predicted Extraction/Removal
MW-210M3	4/21/2008	855425.40	253185.00	-10.00	0.35	7.70	Predicted Extraction/Removal
MW-210M3	5/7/2009	855424.70	253185.00	-10.00	0.35	8.75	Predicted Extraction/Removal
MW-210M3	4/20/2010	855423.10	253184.90	-10.00	0.04	9.70	Predicted Extraction/Removal
MW-210M3	4/19/2011	855423.10	253184.90	-10.00	0.03	10.70	Predicted Extraction/Removal
MW-211M1	5/21/2004	853891.50	252835.70	-7.56	11.00	3.78	Predicted Extraction/Removal
MW-211M1	7/30/2004	853892.20	252832.10	-5.86	13.00	3.98	Predicted Extraction/Removal
MW-211M1	12/6/2004	853901.80	252822.50	-4.86	33.00	4.33	Predicted Extraction/Removal
MW-211M1	4/5/2005	853901.80	252822.50	-4.86	25.00	4.66	Predicted Extraction/Removal
MW-211M1	8/8/2005	853901.80	252822.50	-4.86	50.60	5.00	Predicted Extraction/Removal
MW-211M1	12/8/2005	853901.80	252822.50	-4.86	64.50	5.33	Predicted Extraction/Removal
MW-211M1	4/10/2006	853901.80	252822.50	-4.86	89.70	5.67	Predicted Extraction/Removal
MW-211M1	12/27/2006	853901.80	252822.50	-4.86	133.00	6.39	Predicted Extraction/Removal
MW-211M1	4/9/2007	853901.80	252822.50	-4.86	181.00	6.67	Predicted Extraction/Removal
MW-211M1	12/5/2007	853901.80	252822.50	-4.86	135.00	7.32	Predicted Extraction/Removal
MW-211M1	4/17/2008	853901.80	252822.50	-4.86	149.00	7.69	Predicted Extraction/Removal
MW-211M1	12/23/2008	853901.80	252822.50	-4.86	116.00	8.38	Predicted Extraction/Removal
MW-211M1	5/8/2009	853901.80	252822.50	-4.86	97.10	8.75	Predicted Extraction/Removal
MW-211M1	11/18/2009	853901.80	252822.50	-4.86	100.00	9.28	Predicted Extraction/Removal
MW-211M1	11/18/2009	853901.80	252822.50	-4.86	100.00	9.28	Predicted Extraction/Removal
MW-211M1	4/27/2010	853901.80	252822.50	-4.86	93.70	9.72	Predicted Extraction/Removal
MW-211M1	12/21/2010	853901.80	252822.50	-4.86	64.80	10.37	Predicted Extraction/Removal
MW-211M1	4/26/2011	853901.80	252822.50	-4.86	60.20	10.71	Predicted Extraction/Removal
MW-211M1	12/28/2011	853901.80	252822.50	-4.86	55.90	11.39	Predicted Extraction/Removal
MW-211M1	5/2/2012	853901.80	252822.50	-4.86	51.20	11.73	Predicted Extraction/Removal
MW-211M1	11/27/2012	853901.80	252822.50	-4.86	27.70	12.30	Predicted Extraction/Removal
MW-211M2	7/30/2004	853912.90	252835.00	0.00	0.35	3.98	Predicted Extraction/Removal
MW-211M2	12/6/2004	853912.90	252835.00	0.00	0.72	4.33	Predicted Extraction/Removal
MW-211M2	4/5/2005	853912.90	252835.00	0.00	3.00	4.66	Predicted Extraction/Removal
MW-211M2	8/8/2005	853912.90	252835.00	0.00	0.35	5.00	Predicted Extraction/Removal
MW-211M2	12/8/2005	853912.90	252835.00	0.00	0.35	5.33	Predicted Extraction/Removal
MW-211M2	4/10/2006	853912.90	252835.00	0.00	0.35	5.67	Predicted Extraction/Removal

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-211M2	12/27/2006	853913.00	252835.00	0.00	0.35	6.39	Predicted Extraction/Removal
MW-211M2	4/9/2007	853913.00	252835.00	0.00	0.23	6.67	Predicted Extraction/Removal
MW-211M2	12/5/2007	853913.10	252835.10	0.00	0.35	7.32	Predicted Extraction/Removal
MW-211M2	4/17/2008	853913.10	252835.10	0.00	0.35	7.69	Predicted Extraction/Removal
MW-211M2	12/29/2008	853913.10	252835.10	0.00	0.35	8.39	Predicted Extraction/Removal
MW-211M2	5/8/2009	853913.10	252835.10	0.00	0.35	8.75	Predicted Extraction/Removal
MW-211M2	11/18/2009	853913.00	252835.10	0.00	0.04	9.28	Predicted Extraction/Removal
MW-211M2	4/27/2010	853913.00	252835.10	0.00	0.03	9.72	Predicted Extraction/Removal
MW-211M2	12/21/2010	853913.00	252835.10	0.00	0.02	10.37	Predicted Extraction/Removal
MW-211M2	4/26/2011	853913.00	252835.00	0.00	0.03	10.71	Predicted Extraction/Removal
MW-211M2	12/28/2011	853913.00	252835.00	0.00	0.01	11.39	Predicted Extraction/Removal
MW-211M2	5/2/2012	853913.00	252835.00	0.00	0.02	11.73	Predicted Extraction/Removal
MW-211M3	7/30/2004	853912.90	252835.00	0.00	0.35	3.98	Predicted Extraction/Removal
MW-211M3	4/5/2005	853912.90	252835.00	0.00	0.35	4.66	Predicted Extraction/Removal
MW-211M3	4/10/2006	853912.90	252835.00	0.00	0.35	5.67	Predicted Extraction/Removal
MW-211M3	4/9/2007	853913.00	252835.00	0.00	0.35	6.67	Predicted Extraction/Removal
MW-211M3	4/17/2008	853913.10	252835.10	0.00	0.35	7.69	Predicted Extraction/Removal
MW-211M3	5/8/2009	853913.10	252835.10	0.00	0.35	8.75	Predicted Extraction/Removal
MW-211M3	4/27/2010	853913.00	252835.10	0.00	0.03	9.72	Predicted Extraction/Removal
MW-211M3	4/26/2011	853913.00	252835.00	0.00	0.04	10.71	Predicted Extraction/Removal
MW-214 (47.46)	4/29/2002	853913.00	252835.10	0.00	0.35	1.72	Predicted Extraction/Removal
MW-214 (37.46)	4/29/2002	853913.30	252835.00	0.00	0.35	1.72	Predicted Extraction/Removal
MW-214 (27.46)	4/29/2002	853943.90	252828.10	-1.42	0.35	1.72	Predicted Extraction/Removal
MW-214 (17.46)	4/29/2002	853943.50	252830.50	-6.62	0.35	1.72	Predicted Extraction/Removal
MW-214M1	2/5/2004	855424.60	253185.00	-30.00	0.35	3.49	Predicted Extraction/Removal
MW-214M1	3/19/2004	855424.60	253185.00	-30.00	0.35	3.61	Predicted Extraction/Removal
MW-214M1	5/21/2004	855424.60	253185.00	-30.00	0.35	3.78	Predicted Extraction/Removal
MW-214M1	7/30/2004	855424.60	253185.00	-30.00	0.35	3.98	Predicted Extraction/Removal
MW-214M1	4/5/2005	855424.60	253185.00	-30.00	0.35	4.66	Predicted Extraction/Removal
MW-214M1	4/11/2006	855423.00	253184.90	-30.00	0.35	5.67	Predicted Extraction/Removal
MW-214M2	2/5/2003	855404.20	253176.00	-22.87	0.72	2.50	Predicted Extraction/Removal
MW-214M2	2/5/2004	855411.50	253156.40	-20.98	0.35	3.49	Predicted Extraction/Removal
MW-214M2	3/19/2004	855413.60	253156.80	-20.64	0.65	3.61	Predicted Extraction/Removal
MW-214M2	5/21/2004	855416.80	253157.50	-20.12	0.35	3.78	Predicted Extraction/Removal
MW-214M2	8/2/2004	855420.70	253158.20	-19.44	0.61	3.98	Predicted Extraction/Removal
MW-214M2	12/8/2004	855422.20	253158.50	-19.18	0.35	4.34	Predicted Extraction/Removal
MW-214M2	6/21/2005	855420.80	253158.30	-20.87	0.35	4.87	Predicted Extraction/Removal
MW-214M2	12/16/2005	855421.10	253158.30	-22.94	0.39	5.36	Predicted Extraction/Removal
MW-214M2	4/12/2006	855421.70	253158.40	-24.86	0.35	5.68	Predicted Extraction/Removal
MW-214M2	12/28/2006	855423.00	253184.70	-30.00	0.35	6.39	Predicted Extraction/Removal
MW-214M2	4/13/2007	855423.10	253184.90	-30.00	0.35	6.68	Predicted Extraction/Removal
MW-214M3	2/5/2004	855406.20	253165.90	-12.81	0.35	3.49	Predicted Extraction/Removal
MW-214M3	3/19/2004	855406.60	253163.80	-12.06	0.35	3.61	Predicted Extraction/Removal
MW-214M3	5/21/2004	855407.30	253160.00	-10.64	0.35	3.78	Predicted Extraction/Removal
MW-214M3	8/3/2004	855425.00	253184.20	-10.00	0.35	3.99	Predicted Extraction/Removal
MW-214M3	4/5/2005	855425.40	253185.00	-10.00	0.35	4.66	Predicted Extraction/Removal
MW-214M3	4/12/2006	855424.10	253181.60	-10.00	0.35	5.68	Predicted Extraction/Removal
MW-214M3	4/13/2007	855429.40	253160.00	-21.40	0.35	6.68	Predicted Extraction/Removal
MW-225 (-37.72)	6/17/2002	849277.70	253226.20	-70.82	0.35	1.86	Predicted Extraction/Removal
MW-225 (-47.72)	6/18/2002	849278.90	253220.30	-75.17	0.35	1.86	Predicted Extraction/Removal
MW-225 (-57.72)	6/18/2002	849278.90	253220.30	-80.34	0.35	1.86	Predicted Extraction/Removal
MW-225M1	8/5/2002	849283.30	253249.20	-70.00	0.35	1.99	Predicted Extraction/Removal
MW-225M1	11/12/2002	849284.30	253248.50	-70.00	0.35	2.26	Predicted Extraction/Removal
MW-225M1	2/27/2003	849284.30	253248.50	-70.00	0.35	2.56	Predicted Extraction/Removal
MW-252 (41.84)	12/12/2002	850021.70	251979.40	40.00	0.45	2.34	Predicted Extraction/Removal
MW-252 (31.84)	12/12/2002	849986.10	251980.20	46.83	0.35	2.34	Predicted Extraction/Removal

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-252 (21.84)	12/13/2002	849986.10	251980.20	47.74	0.35	2.35	Predicted Extraction/Removal
MW-252M3	2/26/2003	850020.00	251980.70	40.00	0.35	2.55	Predicted Extraction/Removal
MW-252M3	5/8/2003	850020.00	251980.70	40.00	0.56	2.75	Predicted Extraction/Removal
MW-252M3	8/6/2003	850020.00	251980.70	40.00	0.35	2.99	Predicted Extraction/Removal
MW-252M3	4/1/2004	850019.80	251980.90	40.00	0.35	3.65	Predicted Extraction/Removal
MW-252M3	7/29/2004	850019.60	251981.20	40.00	0.43	3.97	Predicted Extraction/Removal
MW-252M3	12/9/2004	850019.10	251981.60	40.00	0.35	4.34	Predicted Extraction/Removal
MW-252M3	4/21/2005	850018.60	251982.10	40.00	0.35	4.70	Predicted Extraction/Removal
MW-252M3	8/4/2005	850018.30	251982.50	40.00	0.35	4.99	Predicted Extraction/Removal
MW-252M3	12/16/2005	850018.00	251982.90	40.00	0.35	5.36	Predicted Extraction/Removal
MW-252M3	4/6/2006	850017.70	251983.10	40.00	0.35	5.66	Predicted Extraction/Removal
MW-252M3	8/2/2006	850017.40	251983.40	40.00	0.35	5.98	Predicted Extraction/Removal
MW-252M3	12/19/2006	850017.00	251983.80	40.00	0.35	6.36	Predicted Extraction/Removal
MW-252M3	4/5/2007	850016.70	251984.20	40.00	0.35	6.66	Predicted Extraction/Removal
MW-252M3	8/31/2007	850014.10	251984.00	40.00	0.35	7.06	Predicted Extraction/Removal
MW-252M3	12/4/2007	850012.00	251983.80	40.00	0.35	7.32	Predicted Extraction/Removal
MW-252M3	4/11/2008	850009.10	251983.50	40.00	0.35	7.68	Predicted Extraction/Removal
MW-252M3	9/3/2008	850006.30	251983.20	40.00	0.35	8.07	Predicted Extraction/Removal
MW-252M3	12/30/2008	850004.30	251983.00	40.00	0.35	8.40	Predicted Extraction/Removal
MW-252M3	4/14/2009	850002.80	251982.90	40.00	0.35	8.68	Predicted Extraction/Removal
MW-252M3	7/28/2009	850000.90	251982.70	40.00	0.35	8.97	Predicted Extraction/Removal
MW-252M3	4/21/2010	849996.20	251982.20	40.29	0.14	9.70	Predicted Extraction/Removal
MW-255 (-80.00)	2/13/2003	856744.90	253447.00	-30.00	0.35	2.52	Predicted Extraction/Removal
MW-255 (-90.00)	2/13/2003	856744.90	253446.90	-30.00	0.35	2.52	Predicted Extraction/Removal
MW-255 (-100.00)	2/13/2003	856744.50	253446.80	-30.00	0.35	2.52	Predicted Extraction/Removal
MW-272 (50.31)	6/2/2003	853913.00	252835.00	0.00	0.35	2.82	Predicted Extraction/Removal
MW-272 (45.31)	6/9/2003	853913.00	252835.00	0.00	0.35	2.83	Predicted Extraction/Removal
MW-272 (35.31)	6/9/2003	853913.40	252834.80	0.00	0.35	2.83	Predicted Extraction/Removal
MW-272 (25.31)	6/9/2003	853946.10	252817.40	-1.24	0.35	2.83	Predicted Extraction/Removal
MW-272 (15.31)	6/10/2003	853946.30	252816.00	-5.58	0.35	2.84	Predicted Extraction/Removal
MW-31D	12/18/2000	858249.90	253590.80	55.00	0.35	0.36	Predicted Extraction/Removal
MW-31D	5/2/2001	858250.00	253590.80	55.00	0.35	0.73	Predicted Extraction/Removal
MW-31D	8/2/2001	858250.00	253590.80	55.00	0.35	0.98	Predicted Extraction/Removal
MW-31D	1/4/2002	858250.00	253590.80	55.00	0.35	1.41	Predicted Extraction/Removal
MW-31D	4/22/2002	858250.00	253590.80	55.00	0.35	1.70	Predicted Extraction/Removal
MW-31D	8/7/2002	858250.00	253590.80	55.00	0.35	2.00	Predicted Extraction/Removal
MW-31D	11/15/2002	858250.00	253590.80	55.00	0.35	2.27	Predicted Extraction/Removal
MW-31D	3/27/2003	858250.00	253590.80	55.00	0.35	2.63	Predicted Extraction/Removal
MW-31D	9/27/2003	858250.00	253590.80	55.00	0.35	3.14	Predicted Extraction/Removal
MW-31D	2/28/2004	858250.00	253590.80	55.00	0.35	3.56	Predicted Extraction/Removal
MW-31D	5/11/2004	858250.00	253590.80	55.00	0.35	3.76	Predicted Extraction/Removal
MW-31M	8/9/2000	858250.40	253591.00	55.00	50.00	0.00	Predicted Extraction/Removal
MW-31M	12/8/2000	858250.40	253590.90	55.00	0.35	0.34	Predicted Extraction/Removal
MW-31M	5/23/2001	858250.40	253590.90	55.00	19.00	0.79	Predicted Extraction/Removal
MW-31M	8/2/2001	858250.40	253590.90	55.00	0.35	0.98	Predicted Extraction/Removal
MW-31M	1/4/2002	858250.00	253590.80	55.00	1.66	1.41	Predicted Extraction/Removal
MW-31M	4/22/2002	858250.00	253590.80	55.00	2.98	1.70	Predicted Extraction/Removal
MW-31M	8/7/2002	858250.00	253590.80	55.00	10.00	2.00	Predicted Extraction/Removal
MW-31M	11/15/2002	858250.00	253590.80	55.00	5.20	2.27	Predicted Extraction/Removal
MW-31M	3/27/2003	858250.00	253590.80	55.00	1.80	2.63	Predicted Extraction/Removal
MW-31M	9/27/2003	858250.00	253590.80	55.00	2.90	3.14	Predicted Extraction/Removal
MW-31M	2/28/2004	858250.00	253590.80	55.00	0.63	3.56	Predicted Extraction/Removal
MW-31M	5/11/2004	858250.00	253590.80	55.00	0.47	3.76	Predicted Extraction/Removal
MW-31M	10/27/2004	858250.00	253590.80	55.00	7.44	4.22	Predicted Extraction/Removal
MW-31M	4/30/2005	858250.00	253590.80	55.00	16.00	4.73	Predicted Extraction/Removal
MW-31S	8/9/2000	858250.40	253591.00	55.00	40.00	0.00	Predicted Extraction/Removal

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-31S	12/8/2000	858250.40	253591.00	55.00	30.00	0.34	Predicted Extraction/Removal
MW-31S	5/2/2001	858250.40	253591.00	55.00	20.00	0.73	Predicted Extraction/Removal
MW-31S	8/24/2001	858250.40	253590.90	55.00	16.20	1.04	Predicted Extraction/Removal
MW-31S	1/4/2002	858250.40	253590.90	55.00	12.50	1.41	Predicted Extraction/Removal
MW-31S	5/29/2002	858250.00	253590.80	55.00	12.00	1.81	Predicted Extraction/Removal
MW-31S	8/7/2002	858250.00	253590.80	55.00	7.20	2.00	Predicted Extraction/Removal
MW-31S	11/15/2002	858250.00	253590.80	55.00	4.90	2.27	Predicted Extraction/Removal
MW-31S	3/28/2003	858250.00	253590.80	55.00	10.00	2.63	Predicted Extraction/Removal
MW-31S	9/27/2003	858249.90	253590.80	55.00	4.60	3.14	Predicted Extraction/Removal
MW-31S	2/28/2004	858250.00	253590.80	55.00	7.77	3.56	Predicted Extraction/Removal
MW-31S	5/11/2004	858250.00	253590.80	55.00	5.02	3.76	Predicted Extraction/Removal
MW-31S	10/27/2004	858250.00	253590.80	55.00	4.70	4.22	Predicted Extraction/Removal
MW-31S	4/30/2005	858250.00	253590.80	55.00	4.60	4.73	Predicted Extraction/Removal
MW-32D	8/3/2004	855399.40	253200.20	-16.87	4.78	3.99	Predicted Extraction/Removal
MW-32D	12/15/2004	855401.20	253205.30	-16.29	0.71	4.35	Predicted Extraction/Removal
MW-32D	4/29/2007	856747.50	253446.90	-20.00	1.18	6.72	Predicted Extraction/Removal
MW-32D	4/22/2008	856747.40	253446.80	-20.00	0.35	7.71	Predicted Extraction/Removal
MW-32D	4/29/2009	856747.30	253446.80	-20.00	0.35	8.72	Predicted Extraction/Removal
MW-32M	3/4/2004	855399.70	253198.80	-12.53	3.93	3.57	Predicted Extraction/Removal
MW-32M	4/21/2004	855398.60	253204.20	-11.81	4.14	3.70	Predicted Extraction/Removal
MW-32M	8/4/2004	855416.60	253194.00	-10.00	4.21	3.99	Predicted Extraction/Removal
MW-32M	12/20/2005	855400.90	253192.50	-10.95	0.35	5.37	Predicted Extraction/Removal
MW-32M	4/23/2008	856747.30	253446.80	-20.00	0.35	7.71	Predicted Extraction/Removal
MW-32S	3/4/2004	855424.50	253185.10	-10.00	1.69	3.57	Predicted Extraction/Removal
MW-32S	4/22/2004	855424.70	253185.00	-10.00	1.04	3.71	Predicted Extraction/Removal
MW-32S	8/4/2004	855424.70	253185.00	-10.00	1.26	3.99	Predicted Extraction/Removal
MW-32S	12/16/2004	855424.70	253185.00	-10.00	1.00	4.36	Predicted Extraction/Removal
MW-32S	6/23/2005	855424.70	253185.00	-10.00	0.35	4.87	Predicted Extraction/Removal
MW-32S	4/22/2008	856747.30	253446.80	-20.00	0.95	7.71	Predicted Extraction/Removal
MW-33D	12/3/2003	855399.50	253205.00	-20.58	1.10	3.32	Predicted Extraction/Removal
MW-33D	3/4/2004	855407.60	253206.60	-20.11	0.84	3.57	Predicted Extraction/Removal
MW-33D	4/21/2004	855412.90	253207.70	-19.58	0.48	3.70	Predicted Extraction/Removal
MW-33D	8/3/2004	855422.00	253209.50	-19.23	0.83	3.99	Predicted Extraction/Removal
MW-33D	12/8/2004	855428.80	253210.80	-21.07	1.10	4.34	Predicted Extraction/Removal
MW-33D	6/21/2005	855423.50	253209.80	-20.12	0.70	4.87	Predicted Extraction/Removal
MW-33D	4/17/2008	856747.50	253446.90	-20.00	0.46	7.69	Predicted Extraction/Removal
MW-33D	5/1/2009	856747.30	253446.80	-20.00	0.35	8.73	Predicted Extraction/Removal
MW-33M	12/3/2003	855404.10	253205.90	-14.16	1.10	3.32	Predicted Extraction/Removal
MW-33M	3/5/2004	855411.60	253207.40	-12.90	1.06	3.57	Predicted Extraction/Removal
MW-33M	4/21/2004	855416.20	253208.30	-12.81	0.48	3.70	Predicted Extraction/Removal
MW-33M	8/3/2004	855416.50	253208.40	-13.29	0.77	3.99	Predicted Extraction/Removal
MW-33M	4/22/2005	855416.40	253208.40	-13.34	0.64	4.70	Predicted Extraction/Removal
MW-33M	4/14/2006	855405.40	253206.20	-12.04	0.67	5.68	Predicted Extraction/Removal
MW-33M	4/17/2007	855422.60	253185.90	-10.00	0.27	6.69	Predicted Extraction/Removal
MW-33M	4/17/2008	856747.30	253446.80	-20.00	0.35	7.69	Predicted Extraction/Removal
MW-33S	12/3/2003	855425.10	253185.30	-10.00	0.56	3.32	Predicted Extraction/Removal
MW-33S	3/4/2004	855425.40	253185.00	-10.00	0.35	3.57	Predicted Extraction/Removal
MW-33S	4/22/2004	855425.40	253185.00	-10.00	0.35	3.71	Predicted Extraction/Removal
MW-33S	8/3/2004	855425.40	253185.00	-10.00	0.44	3.99	Predicted Extraction/Removal
MW-33S	4/22/2005	855424.70	253185.00	-10.00	0.35	4.70	Predicted Extraction/Removal
MW-33S	4/14/2006	855424.70	253185.00	-10.00	0.35	5.68	Predicted Extraction/Removal
MW-33S	4/17/2007	855423.10	253184.90	-10.00	0.35	6.69	Predicted Extraction/Removal
MW-34M1	12/18/2000	856772.50	253473.40	-20.14	109.00	0.36	Predicted Extraction/Removal
MW-34M1	5/5/2001	856747.80	253446.80	-20.00	46.00	0.74	Predicted Extraction/Removal
MW-34M1	7/31/2001	856747.80	253446.80	-20.00	30.80	0.98	Predicted Extraction/Removal
MW-34M1	12/26/2001	856747.80	253446.80	-20.00	17.70	1.38	Predicted Extraction/Removal

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-34M1	4/24/2002	856747.80	253446.80	-20.00	7.90	1.71	Predicted Extraction/Removal
MW-34M1	8/20/2002	856747.70	253446.80	-18.77	7.10	2.03	Predicted Extraction/Removal
MW-34M1	8/20/2002	856747.70	253446.80	-18.77	7.10	2.03	Predicted Extraction/Removal
MW-34M1	11/15/2002	856747.90	253446.90	-15.14	8.00	2.27	Predicted Extraction/Removal
MW-34M1	3/24/2003	856773.70	253467.10	-13.12	8.00	2.62	Predicted Extraction/Removal
MW-34M1	11/12/2003	856748.00	253447.10	-20.00	6.90	3.26	Predicted Extraction/Removal
MW-34M1	3/5/2004	856748.00	253447.10	-20.00	3.43	3.57	Predicted Extraction/Removal
MW-34M1	5/14/2004	856747.60	253446.90	-20.00	5.28	3.77	Predicted Extraction/Removal
MW-34M1	8/5/2004	857316.10	253559.80	-1.40	3.32	3.99	Predicted Extraction/Removal
MW-34M1	4/21/2005	857338.90	253563.40	-10.00	3.10	4.70	Predicted Extraction/Removal
MW-34M1	4/18/2006	857360.60	253592.40	-7.56	7.35	5.69	Predicted Extraction/Removal
MW-34M1	4/25/2007	857363.00	253580.30	-3.85	1.64	6.71	Predicted Extraction/Removal
MW-34M1	4/21/2008	857363.70	253576.40	-3.70	0.86	7.70	Predicted Extraction/Removal
MW-34M1	4/30/2009	857363.40	253577.90	-5.85	1.69	8.73	Predicted Extraction/Removal
MW-34M1	4/14/2010	857362.90	253580.40	-7.35	3.70	9.68	Predicted Extraction/Removal
MW-34M1	4/28/2011	857362.70	253581.50	-7.97	3.03	10.72	Predicted Extraction/Removal
MW-34M2	8/10/2000	856747.80	253446.80	-20.00	60.00	0.01	Predicted Extraction/Removal
MW-34M2	12/18/2000	856747.80	253446.80	-20.00	34.00	0.36	Predicted Extraction/Removal
MW-34M2	5/1/2001	856747.80	253446.80	-20.00	28.00	0.73	Predicted Extraction/Removal
MW-34M2	7/30/2001	856747.80	253446.80	-20.00	16.20	0.98	Predicted Extraction/Removal
MW-34M2	12/26/2001	856747.80	253446.80	-20.00	5.85	1.38	Predicted Extraction/Removal
MW-34M2	4/24/2002	856747.70	253446.80	-19.39	19.60	1.71	Predicted Extraction/Removal
MW-34M2	8/20/2002	856747.70	253446.80	-15.21	17.00	2.03	Predicted Extraction/Removal
MW-34M2	11/15/2002	856747.70	253446.80	-11.75	14.00	2.27	Predicted Extraction/Removal
MW-34M2	3/24/2003	856747.70	253446.40	-10.00	10.00	2.62	Predicted Extraction/Removal
MW-34M2	11/12/2003	856748.00	253447.10	-20.00	7.30	3.26	Predicted Extraction/Removal
MW-34M2	3/5/2004	856748.00	253447.10	-20.00	7.02	3.57	Predicted Extraction/Removal
MW-34M2	5/14/2004	856748.00	253447.10	-20.00	5.23	3.77	Predicted Extraction/Removal
MW-34M2	8/5/2004	856747.50	253446.90	-20.00	5.87	3.99	Predicted Extraction/Removal
MW-34M2	4/21/2005	857319.60	253585.20	2.26	3.90	4.70	Predicted Extraction/Removal
MW-34M2	4/18/2006	857360.40	253593.10	6.55	6.13	5.69	Predicted Extraction/Removal
MW-34M2	4/25/2007	857362.90	253580.40	9.96	2.05	6.71	Predicted Extraction/Removal
MW-34M2	4/21/2008	857363.70	253576.30	9.98	3.61	7.70	Predicted Extraction/Removal
MW-34M2	4/30/2009	857363.50	253577.60	8.19	0.70	8.73	Predicted Extraction/Removal
MW-34M2	4/14/2010	857363.00	253580.10	7.02	1.13	9.68	Predicted Extraction/Removal
MW-34M2	4/28/2011	857362.80	253581.20	6.39	0.75	10.72	Predicted Extraction/Removal
MW-34M3	12/18/2000	856747.80	253446.80	-20.00	0.35	0.36	Predicted Extraction/Removal
MW-34M3	5/1/2001	856747.80	253446.80	-20.00	0.35	0.73	Predicted Extraction/Removal
MW-34M3	7/31/2001	856747.80	253446.80	-20.00	0.35	0.98	Predicted Extraction/Removal
MW-34M3	12/26/2001	856747.80	253446.80	-20.00	0.35	1.38	Predicted Extraction/Removal
MW-34M3	4/24/2002	856747.80	253446.80	-20.00	0.35	1.71	Predicted Extraction/Removal
MW-34M3	8/20/2002	856747.70	253446.80	-17.39	0.35	2.03	Predicted Extraction/Removal
MW-34M3	11/15/2002	856747.70	253446.80	-14.10	0.35	2.27	Predicted Extraction/Removal
MW-34M3	3/24/2003	856747.70	253446.40	-10.00	0.35	2.62	Predicted Extraction/Removal
MW-34M3	11/12/2003	856748.00	253447.10	-20.00	0.35	3.26	Predicted Extraction/Removal
MW-34M3	3/5/2004	856748.00	253447.10	-20.00	0.35	3.57	Predicted Extraction/Removal
MW-34M3	5/14/2004	856748.00	253447.10	-20.00	0.35	3.77	Predicted Extraction/Removal
MW-34M3	8/6/2004	856748.00	253447.10	-20.00	0.35	4.00	Predicted Extraction/Removal
MW-34M3	4/21/2005	857339.10	253563.30	10.00	0.35	4.70	Predicted Extraction/Removal
MW-34M3	4/18/2006	857339.20	253563.30	10.00	0.35	5.69	Predicted Extraction/Removal
MW-34M3	4/26/2007	857339.40	253563.30	10.00	0.35	6.71	Predicted Extraction/Removal
MW-34M3	4/23/2008	857339.40	253563.30	10.00	1.12	7.71	Predicted Extraction/Removal
MW-34M3	4/30/2009	857338.30	253562.90	10.00	0.35	8.73	Predicted Extraction/Removal
MW-34M3	4/14/2010	857336.80	253562.30	10.00	0.24	9.68	Predicted Extraction/Removal
MW-34M3	5/3/2011	857336.80	253562.30	10.00	0.03	10.73	Predicted Extraction/Removal
MW-35M1	12/18/2000	855424.30	253209.90	-18.66	0.35	0.36	Predicted Extraction/Removal

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-35M1	5/4/2001	855427.70	253210.60	-17.90	4.00	0.74	Predicted Extraction/Removal
MW-35M1	8/3/2001	855431.60	253211.40	-17.76	5.40	0.99	Predicted Extraction/Removal
MW-35M1	12/21/2001	856747.70	253446.80	-17.09	6.34	1.37	Predicted Extraction/Removal
MW-35M1	4/24/2002	856747.80	253446.80	-20.00	6.44	1.71	Predicted Extraction/Removal
MW-35M1	8/19/2002	856747.80	253446.80	-20.00	5.00	2.03	Predicted Extraction/Removal
MW-35M1	11/18/2002	856747.80	253446.80	-20.00	4.20	2.28	Predicted Extraction/Removal
MW-35M1	4/8/2003	856747.80	253446.80	-20.00	3.90	2.66	Predicted Extraction/Removal
MW-35M1	8/25/2004	856747.80	253446.80	-20.00	3.50	4.05	Predicted Extraction/Removal
MW-35M2	8/3/2001	855425.20	253185.10	-10.00	0.35	0.99	Predicted Extraction/Removal
MW-35M2	12/21/2001	855425.50	253185.10	-10.00	0.35	1.37	Predicted Extraction/Removal
MW-35M2	4/24/2002	855425.50	253185.10	-10.00	0.35	1.71	Predicted Extraction/Removal
MW-35M2	8/20/2002	855425.40	253185.00	-10.00	0.35	2.03	Predicted Extraction/Removal
MW-35M2	11/18/2002	855425.40	253185.00	-10.00	0.35	2.28	Predicted Extraction/Removal
MW-35M2	4/8/2003	856747.80	253446.80	-20.00	0.35	2.66	Predicted Extraction/Removal
MW-35M2	5/17/2004	856747.80	253446.80	-20.00	0.35	3.77	Predicted Extraction/Removal
MW-35M2	8/25/2004	856747.80	253446.80	-20.00	0.35	4.05	Predicted Extraction/Removal
MW-35M2	4/22/2005	856747.70	253446.80	-20.00	0.35	4.70	Predicted Extraction/Removal
MW-35M2	4/18/2006	856748.00	253447.10	-20.00	0.35	5.69	Predicted Extraction/Removal
MW-35M2	4/27/2007	856748.00	253447.10	-20.00	0.35	6.72	Predicted Extraction/Removal
MW-35M2	4/8/2008	856747.50	253446.90	-20.00	0.35	7.67	Predicted Extraction/Removal
MW-35M2	4/20/2009	856747.30	253446.80	-20.00	0.35	8.70	Predicted Extraction/Removal
MW-35M2	4/13/2010	856747.30	253446.80	-20.00	0.02	9.68	Predicted Extraction/Removal
MW-35S	1/14/2002	855425.50	253185.10	-10.00	0.35	1.44	Predicted Extraction/Removal
MW-36M1	12/18/2000	856757.90	253460.50	-20.00	0.35	0.36	Predicted Extraction/Removal
MW-36M1	5/15/2001	856747.80	253446.80	-20.00	0.35	0.77	Predicted Extraction/Removal
MW-36M1	8/2/2001	856747.80	253446.80	-20.00	0.35	0.98	Predicted Extraction/Removal
MW-36M1	1/8/2002	856748.10	253447.10	-17.83	0.35	1.42	Predicted Extraction/Removal
MW-36M1	4/24/2002	856772.00	253475.50	-16.13	0.35	1.71	Predicted Extraction/Removal
MW-36M1	8/8/2002	856772.20	253474.80	-15.53	0.35	2.00	Predicted Extraction/Removal
MW-36M1	11/18/2002	856747.90	253447.10	-20.00	0.35	2.28	Predicted Extraction/Removal
MW-36M1	3/25/2003	856748.00	253447.10	-20.00	0.35	2.63	Predicted Extraction/Removal
MW-36M1	11/12/2003	856747.50	253446.90	-20.00	0.35	3.26	Predicted Extraction/Removal
MW-36M1	3/3/2004	857315.10	253564.80	-5.46	0.35	3.57	Predicted Extraction/Removal
MW-36M1	4/22/2004	857313.90	253570.80	-8.21	0.35	3.71	Predicted Extraction/Removal
MW-36M1	8/3/2004	857337.60	253564.50	-10.00	0.35	3.99	Predicted Extraction/Removal
MW-36M1	4/21/2005	857339.40	253565.20	-10.00	0.35	4.70	Predicted Extraction/Removal
MW-36M1	4/18/2006	857360.50	253592.90	-7.04	0.62	5.69	Predicted Extraction/Removal
MW-36M1	4/26/2007	857362.80	253581.20	-4.55	0.35	6.71	Predicted Extraction/Removal
MW-36M1	4/23/2008	857363.50	253577.70	-5.77	0.74	7.71	Predicted Extraction/Removal
MW-36M1	4/22/2009	857362.90	253580.70	-7.74	4.26	8.70	Predicted Extraction/Removal
MW-36M1	4/13/2010	857362.20	253584.10	-9.04	5.26	9.68	Predicted Extraction/Removal
MW-36M2	12/18/2000	856747.80	253446.80	-20.00	0.35	0.36	Predicted Extraction/Removal
MW-36M2	5/17/2001	856747.80	253446.80	-20.00	0.35	0.77	Predicted Extraction/Removal
MW-36M2	8/2/2001	856747.70	253446.80	-20.00	0.35	0.98	Predicted Extraction/Removal
MW-36M2	1/8/2002	856747.70	253446.80	-14.85	1.86	1.42	Predicted Extraction/Removal
MW-36M2	4/24/2002	856747.70	253446.70	-10.41	3.44	1.71	Predicted Extraction/Removal
MW-36M2	8/8/2002	856747.70	253446.40	-10.00	4.00	2.00	Predicted Extraction/Removal
MW-36M2	11/18/2002	856748.00	253447.10	-20.00	4.20	2.28	Predicted Extraction/Removal
MW-36M2	3/25/2003	856748.00	253447.10	-20.00	3.70	2.63	Predicted Extraction/Removal
MW-36M2	11/12/2003	856748.00	253447.10	-20.00	4.80	3.26	Predicted Extraction/Removal
MW-36M2	3/3/2004	857315.80	253561.00	7.56	3.13	3.57	Predicted Extraction/Removal
MW-36M2	4/22/2004	857314.70	253566.80	4.43	1.90	3.71	Predicted Extraction/Removal
MW-36M2	8/3/2004	857312.10	253579.60	1.97	2.90	3.99	Predicted Extraction/Removal
MW-36M2	4/21/2005	857339.60	253589.20	2.14	5.30	4.70	Predicted Extraction/Removal
MW-36M2	4/18/2006	857360.10	253593.20	6.29	2.29	5.69	Predicted Extraction/Removal
MW-36M2	4/26/2007	857362.80	253581.20	8.63	1.48	6.71	Predicted Extraction/Removal

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-36M2	4/23/2008	857363.50	253577.30	7.67	2.06	7.71	Predicted Extraction/Removal
MW-36M2	4/22/2009	857363.00	253580.20	6.05	1.92	8.70	Predicted Extraction/Removal
MW-36M2	4/13/2010	857362.30	253583.70	4.76	2.60	9.68	Predicted Extraction/Removal
MW-36S	12/18/2000	856747.80	253446.80	-20.00	0.35	0.36	Predicted Extraction/Removal
MW-36S	8/2/2001	856747.80	253446.80	-20.00	0.35	0.98	Predicted Extraction/Removal
MW-36S	3/14/2002	856747.70	253446.80	-17.97	0.35	1.60	Predicted Extraction/Removal
MW-36S	11/12/2003	856748.00	253447.10	-20.00	0.35	3.26	Predicted Extraction/Removal
MW-36S	3/3/2004	856748.00	253447.10	-20.00	0.35	3.57	Predicted Extraction/Removal
MW-36S	4/22/2004	856748.00	253447.10	-20.00	0.35	3.71	Predicted Extraction/Removal
MW-545M1	6/20/2011	849283.30	253249.10	-100.00	4.16	10.86	Predicted Extraction/Removal
MW-545M1	9/21/2011	849283.60	253248.80	-100.00	2.25	11.12	Predicted Extraction/Removal
MW-545M1	12/20/2011	849283.70	253248.70	-100.00	2.38	11.37	Predicted Extraction/Removal
MW-545M1	5/30/2012	849283.70	253248.70	-100.00	1.49	11.81	Predicted Extraction/Removal
MW-545M2	9/21/2011	849270.80	253261.20	-85.14	6.14	11.12	Predicted Extraction/Removal
MW-545M2	12/21/2011	849288.70	253262.80	-84.57	4.26	11.37	Predicted Extraction/Removal
MW-545M2	5/30/2012	849316.70	253274.90	-84.33	2.17	11.81	Predicted Extraction/Removal
MW-545M2	12/10/2012	849316.70	253274.90	-84.34	0.95	12.34	Predicted Extraction/Removal
MW-73S	12/19/2000	858250.00	253590.80	55.00	0.35	0.37	Predicted Extraction/Removal
MW-73S	6/14/2001	858250.00	253590.80	55.00	10.00	0.85	Predicted Extraction/Removal
MW-73S	1/11/2002	858250.00	253590.80	55.00	3.30	1.43	Predicted Extraction/Removal
MW-73S	8/20/2002	858250.00	253590.80	55.00	1.90	2.03	Predicted Extraction/Removal
MW-74M1	12/6/2000	857342.20	253589.70	-1.51	0.35	0.33	Predicted Extraction/Removal
MW-74M1	8/13/2001	857348.00	253590.80	-6.12	0.35	1.01	Predicted Extraction/Removal
MW-74M1	6/5/2002	857337.50	253563.40	-10.00	0.35	1.82	Predicted Extraction/Removal
MW-74M1	8/8/2002	857336.90	253562.40	-10.00	0.35	2.00	Predicted Extraction/Removal
MW-74M1	11/18/2002	857336.80	253562.30	-10.00	0.35	2.28	Predicted Extraction/Removal
MW-74M1	3/24/2003	857336.80	253562.30	-10.00	0.35	2.62	Predicted Extraction/Removal
MW-74M2	12/6/2000	857339.40	253563.30	10.00	0.35	0.33	Predicted Extraction/Removal
MW-74M2	8/10/2001	857339.20	253563.40	10.00	0.35	1.01	Predicted Extraction/Removal
MW-74M2	4/25/2002	857338.30	253562.90	10.00	0.73	1.71	Predicted Extraction/Removal
MW-74M2	4/30/2002	857338.30	253562.90	10.00	0.45	1.73	Predicted Extraction/Removal
MW-74M2	8/8/2002	857336.90	253562.40	10.00	0.35	2.00	Predicted Extraction/Removal
MW-74M2	11/18/2002	857337.30	253562.70	10.00	0.35	2.28	Predicted Extraction/Removal
MW-74M2	3/25/2003	857347.00	253578.80	10.00	0.35	2.63	Predicted Extraction/Removal
MW-74M2	12/4/2003	857361.70	253586.70	7.25	0.39	3.32	Predicted Extraction/Removal
MW-74M2	3/2/2004	857362.60	253582.20	6.81	0.39	3.57	Predicted Extraction/Removal
MW-74M2	4/5/2004	857362.90	253580.40	6.68	0.35	3.66	Predicted Extraction/Removal
MW-74M2	8/3/2004	857364.20	253573.90	6.41	0.56	3.99	Predicted Extraction/Removal
MW-74M2	12/8/2004	857365.60	253566.80	6.54	0.56	4.34	Predicted Extraction/Removal
MW-74M3	12/7/2000	856748.00	253447.10	-20.00	0.35	0.33	Predicted Extraction/Removal
MW-74M3	8/13/2001	857339.40	253563.30	10.00	0.35	1.01	Predicted Extraction/Removal
MW-74M3	6/5/2002	857339.40	253563.30	10.00	0.35	1.82	Predicted Extraction/Removal
MW-74M3	8/8/2002	857339.40	253563.30	10.00	0.35	2.00	Predicted Extraction/Removal
MW-74M3	11/19/2002	857336.80	253562.30	10.00	0.35	2.28	Predicted Extraction/Removal
MW-74M3	3/24/2003	857338.30	253562.90	10.00	0.35	2.62	Predicted Extraction/Removal
MW-74M3	12/4/2003	857336.90	253562.30	10.00	0.35	3.32	Predicted Extraction/Removal
MW-74M3	3/2/2004	857336.80	253562.30	10.00	0.35	3.57	Predicted Extraction/Removal
MW-74M3	4/5/2004	857336.80	253562.30	10.00	0.35	3.66	Predicted Extraction/Removal
MW-74M3	8/11/2004	857336.80	253562.30	10.00	0.35	4.01	Predicted Extraction/Removal
MW-74M3	4/19/2005	857336.80	253562.30	10.00	0.35	4.70	Predicted Extraction/Removal
MW-75M1	12/7/2000	857360.60	253592.20	-6.14	0.35	0.33	Predicted Extraction/Removal
MW-75M1	5/9/2001	857361.50	253587.60	-5.77	0.35	0.75	Predicted Extraction/Removal
MW-75M1	8/9/2001	857362.00	253584.90	-5.60	0.35	1.00	Predicted Extraction/Removal
MW-75M1	1/4/2002	857362.90	253580.30	-5.37	0.35	1.41	Predicted Extraction/Removal
MW-75M1	4/24/2002	857363.60	253576.90	-5.70	0.57	1.71	Predicted Extraction/Removal
MW-75M1	8/19/2002	857364.50	253572.60	-5.66	0.35	2.03	Predicted Extraction/Removal

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-75M1	11/18/2002	857365.20	253568.70	-5.34	0.35	2.28	Predicted Extraction/Removal
MW-75M1	3/25/2003	857366.90	253560.60	-4.96	0.35	2.63	Predicted Extraction/Removal
MW-75M1	4/7/2004	858250.00	253590.80	55.00	0.52	3.66	Predicted Extraction/Removal
MW-75M1	8/3/2004	858250.00	253590.80	55.00	0.35	3.99	Predicted Extraction/Removal
MW-75M1	12/8/2004	858250.00	253590.80	55.00	0.36	4.34	Predicted Extraction/Removal
MW-75M1	6/22/2005	858250.00	253590.80	55.00	0.35	4.87	Predicted Extraction/Removal
MW-75M1	4/21/2006	858250.00	253590.80	55.00	0.35	5.70	Predicted Extraction/Removal
MW-75M1	4/24/2007	858250.00	253590.80	55.00	0.35	6.71	Predicted Extraction/Removal
MW-75M1	4/25/2008	858250.00	253590.80	55.00	0.35	7.71	Predicted Extraction/Removal
MW-75M2	12/7/2000	857355.70	253592.40	5.39	0.35	0.33	Predicted Extraction/Removal
MW-75M2	5/9/2001	857360.50	253592.70	6.18	9.00	0.75	Predicted Extraction/Removal
MW-75M2	8/9/2001	857361.10	253589.70	6.47	6.24	1.00	Predicted Extraction/Removal
MW-75M2	1/7/2002	857362.00	253585.00	6.84	4.08	1.42	Predicted Extraction/Removal
MW-75M2	4/25/2002	857362.70	253581.40	7.13	4.89	1.71	Predicted Extraction/Removal
MW-75M2	8/19/2002	857363.50	253577.50	6.91	2.80	2.03	Predicted Extraction/Removal
MW-75M2	11/18/2002	857364.20	253574.10	6.68	3.60	2.28	Predicted Extraction/Removal
MW-75M2	3/26/2003	857365.30	253568.40	6.73	6.80	2.63	Predicted Extraction/Removal
MW-75M2	12/4/2003	857369.20	253548.90	7.53	4.20	3.32	Predicted Extraction/Removal
MW-75M2	2/25/2004	857365.50	253543.30	8.29	3.08	3.55	Predicted Extraction/Removal
MW-75M2	8/3/2004	858250.00	253590.80	55.00	1.10	3.99	Predicted Extraction/Removal
MW-75M2	4/15/2005	858250.00	253590.80	55.00	1.90	4.69	Predicted Extraction/Removal
MW-75M2	4/21/2006	858250.00	253590.80	55.00	0.51	5.70	Predicted Extraction/Removal
MW-75M2	4/24/2007	858250.00	253590.80	55.00	0.35	6.71	Predicted Extraction/Removal
MW-75M2	4/25/2008	858250.00	253590.80	55.00	0.35	7.71	Predicted Extraction/Removal
MW-75S	12/7/2000	857339.40	253563.30	10.00	0.35	0.33	Predicted Extraction/Removal
MW-75S	5/9/2001	857339.40	253563.30	10.00	0.35	0.75	Predicted Extraction/Removal
MW-75S	8/10/2001	857339.40	253563.30	10.00	0.35	1.01	Predicted Extraction/Removal
MW-75S	1/3/2002	857339.40	253563.30	10.00	0.35	1.41	Predicted Extraction/Removal
MW-75S	8/20/2002	857339.40	253563.30	10.00	0.35	2.03	Predicted Extraction/Removal
MW-75S	12/4/2003	857336.80	253562.30	10.00	0.35	3.32	Predicted Extraction/Removal
MW-75S	2/25/2004	857336.80	253562.30	10.00	0.35	3.55	Predicted Extraction/Removal
MW-75S	4/7/2004	857336.80	253562.30	10.00	0.35	3.66	Predicted Extraction/Removal
MW-75S	8/3/2004	858250.00	253590.80	55.00	0.35	3.99	Predicted Extraction/Removal
MW-75S	4/15/2005	858250.40	253590.90	55.00	0.35	4.69	Predicted Extraction/Removal
MW-75S	4/21/2006	858250.40	253590.90	55.00	0.35	5.70	Predicted Extraction/Removal
MW-75S	4/24/2007	858250.00	253590.80	55.00	0.35	6.71	Predicted Extraction/Removal
MW-76M1	12/6/2000	857368.20	253553.80	-8.56	0.35	0.33	Predicted Extraction/Removal
MW-76M1	5/7/2001	857368.30	253553.40	-6.66	8.00	0.75	Predicted Extraction/Removal
MW-76M1	8/13/2001	857368.40	253552.70	-5.18	16.00	1.01	Predicted Extraction/Removal
MW-76M1	12/28/2001	857369.80	253545.70	-3.60	30.60	1.39	Predicted Extraction/Removal
MW-76M1	8/19/2002	858250.40	253591.00	55.00	3.10	2.03	Predicted Extraction/Removal
MW-76M1	11/18/2002	858250.40	253591.00	55.00	11.00	2.28	Predicted Extraction/Removal
MW-76M1	3/25/2003	858250.30	253591.00	55.00	200.00	2.63	Predicted Extraction/Removal
MW-76M1	9/27/2003	858250.30	253591.00	55.00	97.00	3.14	Predicted Extraction/Removal
MW-76M1	2/24/2004	858250.30	253591.00	55.00	16.40	3.55	Predicted Extraction/Removal
MW-76M1	4/21/2004	858250.30	253591.00	55.00	17.90	3.70	Predicted Extraction/Removal
MW-76M1	8/11/2004	858250.40	253591.00	55.00	47.30	4.01	Predicted Extraction/Removal
MW-76M1	4/14/2005	858250.40	253591.00	55.00	1.60	4.68	Predicted Extraction/Removal
MW-76M1	4/19/2006	858250.40	253590.90	55.00	0.32	5.70	Predicted Extraction/Removal
MW-76M1	4/20/2007	858250.00	253590.80	55.00	0.35	6.70	Predicted Extraction/Removal
MW-76M1	4/24/2008	858250.00	253590.80	55.00	0.35	7.71	Predicted Extraction/Removal
MW-76M1	4/29/2009	858250.00	253590.80	55.00	0.43	8.72	Predicted Extraction/Removal
MW-76M2	12/6/2000	857368.20	253553.60	0.75	11.00	0.33	Predicted Extraction/Removal
MW-76M2	5/7/2001	857368.20	253553.90	2.32	17.00	0.75	Predicted Extraction/Removal
MW-76M2	8/13/2001	857368.20	253553.60	3.29	22.10	1.01	Predicted Extraction/Removal
MW-76M2	1/7/2002	857368.50	253552.50	5.02	126.00	1.42	Predicted Extraction/Removal

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-76M2	4/24/2002	857369.80	253545.60	5.60	174.00	1.71	Predicted Extraction/Removal
MW-76M2	8/19/2002	858250.00	253590.80	55.00	250.00	2.03	Predicted Extraction/Removal
MW-76M2	11/20/2002	858250.40	253591.00	55.00	290.00	2.28	Predicted Extraction/Removal
MW-76M2	3/26/2003	858250.30	253591.00	55.00	500.00	2.63	Predicted Extraction/Removal
MW-76M2	12/3/2003	858250.30	253591.00	55.00	210.00	3.32	Predicted Extraction/Removal
MW-76M2	2/24/2004	858250.30	253591.00	55.00	115.00	3.55	Predicted Extraction/Removal
MW-76M2	4/22/2004	858250.30	253591.00	55.00	93.10	3.71	Predicted Extraction/Removal
MW-76M2	8/11/2004	858250.30	253591.00	55.00	57.20	4.01	Predicted Extraction/Removal
MW-76M2	4/13/2005	858250.40	253591.00	55.00	25.00	4.68	Predicted Extraction/Removal
MW-76M2	4/19/2006	858250.40	253590.90	55.00	3.50	5.70	Predicted Extraction/Removal
MW-76M2	4/23/2007	858250.00	253590.80	55.00	1.49	6.71	Predicted Extraction/Removal
MW-76M2	12/7/2007	858250.00	253590.80	55.00	0.53	7.33	Predicted Extraction/Removal
MW-76M2	4/24/2008	858250.00	253590.80	55.00	1.67	7.71	Predicted Extraction/Removal
MW-76M2	12/16/2008	858250.00	253590.80	55.00	1.51	8.36	Predicted Extraction/Removal
MW-76M2	4/29/2009	858250.00	253590.80	55.00	1.28	8.72	Predicted Extraction/Removal
MW-76M2	11/16/2009	858250.00	253590.80	55.00	1.40	9.27	Predicted Extraction/Removal
MW-76S	12/7/2000	857357.90	253556.10	10.00	5.00	0.33	Predicted Extraction/Removal
MW-76S	5/7/2001	857341.70	253562.50	10.00	7.00	0.75	Predicted Extraction/Removal
MW-76S	8/10/2001	857340.30	253563.00	10.00	13.30	1.01	Predicted Extraction/Removal
MW-76S	12/28/2001	857339.70	253563.20	10.00	41.20	1.39	Predicted Extraction/Removal
MW-76S	4/24/2002	857339.50	253563.20	10.00	175.00	1.71	Predicted Extraction/Removal
MW-76S	8/20/2002	857338.40	253562.80	10.00	88.00	2.03	Predicted Extraction/Removal
MW-76S	9/27/2003	858250.30	253591.00	55.00	19.00	3.14	Predicted Extraction/Removal
MW-76S	2/24/2004	858250.30	253591.00	55.00	19.10	3.55	Predicted Extraction/Removal
MW-76S	4/21/2004	858250.30	253591.00	55.00	11.30	3.70	Predicted Extraction/Removal
MW-76S	8/11/2004	858250.30	253591.00	55.00	2.11	4.01	Predicted Extraction/Removal
MW-76S	4/13/2005	858250.30	253591.00	55.00	3.20	4.68	Predicted Extraction/Removal
MW-76S	4/19/2006	858250.40	253591.00	55.00	1.92	5.70	Predicted Extraction/Removal
MW-76S	4/23/2007	858250.40	253590.90	55.00	2.58	6.71	Predicted Extraction/Removal
MW-76S	4/24/2008	858250.00	253590.80	55.00	1.11	7.71	Predicted Extraction/Removal
MW-76S	4/29/2009	858250.00	253590.80	55.00	0.75	8.72	Predicted Extraction/Removal
MW-76S	4/8/2010	858250.00	253590.80	55.00	0.52	9.67	Predicted Extraction/Removal
MW-77M1	12/6/2000	857336.90	253562.30	-10.00	0.35	0.33	Predicted Extraction/Removal
MW-77M1	5/11/2001	857336.80	253562.30	-10.00	0.35	0.76	Predicted Extraction/Removal
MW-77M1	8/13/2001	857336.80	253562.30	-10.00	0.35	1.01	Predicted Extraction/Removal
MW-77M1	4/24/2002	858250.00	253590.80	55.00	0.35	1.71	Predicted Extraction/Removal
MW-77M1	8/7/2002	858250.00	253590.80	55.00	0.35	2.00	Predicted Extraction/Removal
MW-77M1	11/19/2002	858250.40	253590.90	55.00	0.35	2.28	Predicted Extraction/Removal
MW-77M1	3/26/2003	858250.40	253590.90	55.00	0.35	2.63	Predicted Extraction/Removal
MW-77M1	9/27/2003	858250.40	253590.90	55.00	0.81	3.14	Predicted Extraction/Removal
MW-77M1	2/12/2004	858250.40	253590.90	55.00	0.35	3.51	Predicted Extraction/Removal
MW-77M1	4/5/2004	858250.40	253590.90	55.00	0.35	3.66	Predicted Extraction/Removal
MW-77M1	7/28/2004	858250.40	253590.90	55.00	0.35	3.97	Predicted Extraction/Removal
MW-77M1	12/8/2004	858249.90	253590.80	55.00	0.35	4.34	Predicted Extraction/Removal
MW-77M1	6/23/2005	858250.00	253590.80	55.00	0.35	4.87	Predicted Extraction/Removal
MW-77M1	4/20/2006	858250.00	253590.80	55.00	0.35	5.70	Predicted Extraction/Removal
MW-77M1	4/23/2007	858250.00	253590.80	55.00	0.35	6.71	Predicted Extraction/Removal
MW-77M1	4/25/2008	858250.00	253590.80	55.00	0.35	7.71	Predicted Extraction/Removal
MW-77M2	12/6/2000	857363.40	253577.90	1.18	28.00	0.33	Predicted Extraction/Removal
MW-77M2	5/10/2001	857364.20	253573.90	2.46	16.00	0.75	Predicted Extraction/Removal
MW-77M2	8/10/2001	857364.70	253571.50	3.12	13.90	1.01	Predicted Extraction/Removal
MW-77M2	12/26/2001	857365.40	253567.90	4.13	12.30	1.38	Predicted Extraction/Removal
MW-77M2	4/24/2002	857366.20	253564.10	5.22	8.01	1.71	Predicted Extraction/Removal
MW-77M2	8/7/2002	857367.40	253557.60	5.56	7.20	2.00	Predicted Extraction/Removal
MW-77M2	11/19/2002	857368.80	253550.90	6.62	7.20	2.28	Predicted Extraction/Removal
MW-77M2	3/26/2003	858250.00	253590.80	55.00	5.40	2.63	Predicted Extraction/Removal

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-77M2	9/27/2003	858250.40	253591.00	55.00	9.10	3.14	Predicted Extraction/Removal
MW-77M2	2/12/2004	858250.40	253591.00	55.00	5.32	3.51	Predicted Extraction/Removal
MW-77M2	4/5/2004	858250.40	253591.00	55.00	5.70	3.66	Predicted Extraction/Removal
MW-77M2	7/28/2004	858250.40	253591.00	55.00	5.10	3.97	Predicted Extraction/Removal
MW-77M2	4/20/2005	858250.40	253591.00	55.00	7.00	4.70	Predicted Extraction/Removal
MW-77M2	4/20/2006	858250.40	253590.90	55.00	7.08	5.70	Predicted Extraction/Removal
MW-77M2	4/23/2007	858250.00	253590.80	55.00	2.64	6.71	Predicted Extraction/Removal
MW-77M2	12/6/2007	858250.00	253590.80	55.00	3.64	7.33	Predicted Extraction/Removal
MW-77M2	4/25/2008	858250.00	253590.80	55.00	2.28	7.71	Predicted Extraction/Removal
MW-77M2	12/16/2008	858250.00	253590.80	55.00	1.10	8.36	Predicted Extraction/Removal
MW-77M2	4/21/2009	858250.00	253590.80	55.00	0.84	8.70	Predicted Extraction/Removal
MW-77M2	11/16/2009	858250.00	253590.80	55.00	1.89	9.27	Predicted Extraction/Removal
MW-77S	12/6/2000	857339.20	253563.30	10.00	0.35	0.33	Predicted Extraction/Removal
MW-77S	5/10/2001	857339.30	253563.30	10.00	0.35	0.75	Predicted Extraction/Removal
MW-77S	8/24/2001	857339.40	253563.30	10.00	0.35	1.04	Predicted Extraction/Removal
MW-77S	12/26/2001	857339.40	253563.30	10.00	0.35	1.38	Predicted Extraction/Removal
MW-77S	5/29/2002	857339.40	253563.30	10.00	0.35	1.81	Predicted Extraction/Removal
MW-77S	8/7/2002	857339.40	253563.30	10.00	0.35	2.00	Predicted Extraction/Removal
MW-77S	9/27/2003	858250.40	253591.00	55.00	0.35	3.14	Predicted Extraction/Removal
MW-77S	2/12/2004	858250.30	253591.00	55.00	0.35	3.51	Predicted Extraction/Removal
MW-77S	4/5/2004	858250.30	253591.00	55.00	0.35	3.66	Predicted Extraction/Removal
MW-77S	7/28/2004	858250.30	253591.00	55.00	0.35	3.97	Predicted Extraction/Removal
MW-77S	4/21/2005	858250.30	253591.00	55.00	0.35	4.70	Predicted Extraction/Removal
MW-77S	4/20/2006	858250.40	253591.00	55.00	0.35	5.70	Predicted Extraction/Removal
MW-77S	4/23/2007	858250.40	253591.00	55.00	0.35	6.71	Predicted Extraction/Removal
MW-77S	4/25/2008	858250.00	253590.80	55.00	0.35	7.71	Predicted Extraction/Removal
MW-77S	4/21/2009	858250.00	253590.80	55.00	0.35	8.70	Predicted Extraction/Removal
MW-77S	4/13/2010	858250.00	253590.80	55.00	0.02	9.68	Predicted Extraction/Removal
MW-78M1	12/6/2000	857364.70	253543.20	-7.70	0.35	0.33	Predicted Extraction/Removal
MW-78M1	5/10/2001	857364.80	253543.20	-6.27	0.35	0.75	Predicted Extraction/Removal
MW-78M1	8/14/2001	857362.00	253542.60	-5.73	0.35	1.02	Predicted Extraction/Removal
MW-78M1	12/27/2001	857353.30	253540.90	-3.00	0.40	1.39	Predicted Extraction/Removal
MW-78M1	4/25/2002	858250.40	253590.90	55.00	2.07	1.71	Predicted Extraction/Removal
MW-78M1	8/20/2002	858250.40	253591.00	55.00	4.60	2.03	Predicted Extraction/Removal
MW-78M1	11/20/2002	858250.40	253591.00	55.00	4.10	2.28	Predicted Extraction/Removal
MW-78M1	3/26/2003	858250.30	253591.00	55.00	4.90	2.63	Predicted Extraction/Removal
MW-78M1	12/4/2003	858250.30	253591.00	55.00	5.30	3.32	Predicted Extraction/Removal
MW-78M1	2/23/2004	858250.30	253591.00	55.00	4.83	3.54	Predicted Extraction/Removal
MW-78M1	4/6/2004	858250.40	253591.00	55.00	4.37	3.66	Predicted Extraction/Removal
MW-78M1	8/11/2004	858250.40	253591.00	55.00	2.84	4.01	Predicted Extraction/Removal
MW-78M1	4/20/2005	858250.40	253591.00	55.00	2.10	4.70	Predicted Extraction/Removal
MW-78M1	4/19/2006	858250.40	253590.90	55.00	0.34	5.70	Predicted Extraction/Removal
MW-78M1	4/20/2007	858250.00	253590.80	55.00	0.35	6.70	Predicted Extraction/Removal
MW-78M1	4/23/2008	858250.00	253590.80	55.00	0.35	7.71	Predicted Extraction/Removal
MW-78M1	4/28/2009	858250.00	253590.80	55.00	0.35	8.72	Predicted Extraction/Removal
MW-78M2	12/6/2000	857362.30	253542.70	1.08	19.00	0.33	Predicted Extraction/Removal
MW-78M2	5/10/2001	857365.60	253543.30	2.37	9.00	0.75	Predicted Extraction/Removal
MW-78M2	8/15/2001	857366.70	253543.60	3.23	11.40	1.02	Predicted Extraction/Removal
MW-78M2	12/28/2001	857362.50	253542.70	3.66	4.43	1.39	Predicted Extraction/Removal
MW-78M2	4/25/2002	857353.40	253540.90	5.28	4.75	1.71	Predicted Extraction/Removal
MW-78M2	8/20/2002	858250.40	253591.00	55.00	6.30	2.03	Predicted Extraction/Removal
MW-78M2	11/20/2002	858250.40	253591.00	55.00	8.70	2.28	Predicted Extraction/Removal
MW-78M2	3/27/2003	858250.30	253591.00	55.00	4.70	2.63	Predicted Extraction/Removal
MW-78M2	12/4/2003	858250.30	253591.00	55.00	11.00	3.32	Predicted Extraction/Removal
MW-78M2	2/24/2004	858250.30	253591.00	55.00	8.34	3.55	Predicted Extraction/Removal
MW-78M2	4/6/2004	858250.30	253591.00	55.00	8.20	3.66	Predicted Extraction/Removal

Table 1
Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status
MW-78M2	8/12/2004	858250.30	253591.00	55.00	6.48	4.01	Predicted Extraction/Removal
MW-78M2	4/20/2005	858250.40	253591.00	55.00	3.50	4.70	Predicted Extraction/Removal
MW-78M2	4/19/2006	858250.40	253590.90	55.00	1.05	5.70	Predicted Extraction/Removal
MW-78M2	4/20/2007	858250.00	253590.80	55.00	0.87	6.70	Predicted Extraction/Removal
MW-78M2	4/24/2008	858249.90	253590.80	55.00	0.44	7.71	Predicted Extraction/Removal
MW-78M2	4/28/2009	858250.00	253590.80	55.00	0.35	8.72	Predicted Extraction/Removal
MW-78M3	12/6/2000	857339.40	253563.20	10.00	0.35	0.33	Predicted Extraction/Removal
MW-78M3	5/11/2001	857339.40	253563.30	10.00	0.35	0.76	Predicted Extraction/Removal
MW-78M3	8/15/2001	857339.40	253563.30	10.00	0.35	1.02	Predicted Extraction/Removal
MW-78M3	12/28/2001	857339.40	253563.30	10.00	0.35	1.39	Predicted Extraction/Removal
MW-78M3	4/25/2002	857338.30	253562.80	10.00	0.35	1.71	Predicted Extraction/Removal
MW-78M3	8/20/2002	857336.80	253562.30	10.00	0.35	2.03	Predicted Extraction/Removal
MW-78M3	11/20/2002	858250.40	253591.00	55.00	0.35	2.28	Predicted Extraction/Removal
MW-78M3	3/26/2003	858250.30	253591.00	55.00	0.35	2.63	Predicted Extraction/Removal
MW-78M3	12/4/2003	858250.20	253591.00	55.00	0.35	3.32	Predicted Extraction/Removal
MW-78M3	2/23/2004	858250.20	253591.00	55.00	0.35	3.54	Predicted Extraction/Removal
MW-78M3	4/6/2004	858250.20	253591.00	55.00	0.35	3.66	Predicted Extraction/Removal
MW-78M3	8/12/2004	858250.20	253591.00	55.00	0.35	4.01	Predicted Extraction/Removal
MW-78M3	4/20/2005	858250.30	253591.00	55.00	0.35	4.70	Predicted Extraction/Removal
MW-78M3	4/19/2006	858250.40	253591.00	55.00	0.35	5.70	Predicted Extraction/Removal
MW-78M3	4/20/2007	858250.40	253590.90	55.00	0.35	6.70	Predicted Extraction/Removal
PHOP02	4/17/2003	857336.90	253562.30	-10.00	0.35	2.69	Predicted Extraction/Removal
PHOP02	7/10/2003	857336.90	253562.30	-10.00	0.35	2.92	Predicted Extraction/Removal
PHOP02	12/10/2003	857336.90	253562.30	-10.00	0.35	3.34	Predicted Extraction/Removal
BH-582 (-130.68)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
BH-583 (-134.10)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
BH-597 (-134.40)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
DP-516 (42.89)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
DP-554 (-132.55)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
DP-554 (-137.55)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
DP-556 (-138.62)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
DP-557 (-138.31)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-221 (-138.44)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-225 (-144.72)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-231 (-139.37)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-352 (-135.36)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-353 (46.02)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-559 (-135.18)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-560 (-139.17)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-560 (-149.17)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-565 (-136.49)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-565 (-146.49)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-565 (-156.49)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-565 (-166.99)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-568 (-161.69)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-568 (-171.69)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-569 (-139.99)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-570 (-138.28)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-570 (-148.28)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-570 (-158.28)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-571 (-146.25)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-571 (-155.25)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-571 (-166.25)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-571 (-176.25)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domai

Table 1

Demo 1 Perchlorate Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD	Northing (SP	Elevation (feet	Perchlorate	Duration	Status

Legend

Deleted = point not used to develop plume shell

Predicted Extracted/Removed = predicted to have been extracted/removed

Not Within Model Domain = outside of model domain and not simulated or below model bottom

Table

Model Comparison - MW-569/MW-571/MW-582

Well	Easting	Northing	TOS (ft msl)	BOS (ft msl)	Measured (ppb)	Modeled (ppb)		Date
MW-569M1	846114.59	253618.05	-80	-90	3.7	2 (-80 to -90)	5.5 (-70 to -80)	4/4/2013
MW-569M2	846114.47	253617.75	-30	-40	2.1	1 (-30 to-40)	3 (-40 to -50)	4/4/2013
MW-571M1	845945.21	253545.65	-56	-66	3.7	1.5 (-60 to -70)	2 (- 70 to -80)	4/4/2013
MW-571M2	845944.88	253545.67	-16	-26	3.2	1 (-30 to -40)	3 (-40 to -50)	4/4/2013
MW-582M1	845047.06	253584.86	-62	-72	1.0	1.5 (-60 to -70)		4/19/2013
MW-582M2	845046.76	253585.02	-12	-22	3.4	2 (- 20 to -30)		4/19/2013

ft msl = feet mean sea level

ppb = parts per billion

D2

RDX Plume Shell Development

Figures

Impact Area Groundwater Study Program

LEGEND

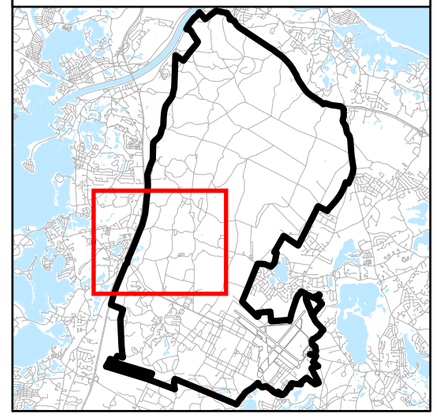
- Extraction Well
- Injection Well
- Monitoring Well

RDX in Groundwater

- 0.6 to 2 ppb
- 2 to 6 ppb
- 6 to 20 ppb
- 20 to 200 ppb

Note: Groundwater data through March 2013.
Contour lines dashed where inferred.

LOCATION MAP



NOTES & SOURCES

Basemap data from US Geological Survey 7 1/2 minute Topographic Maps. Source: MassGIS
Aerial Photos: Color Digital Orthophotos:
Date Flown: 2002 Source: EarthData International

TITLE

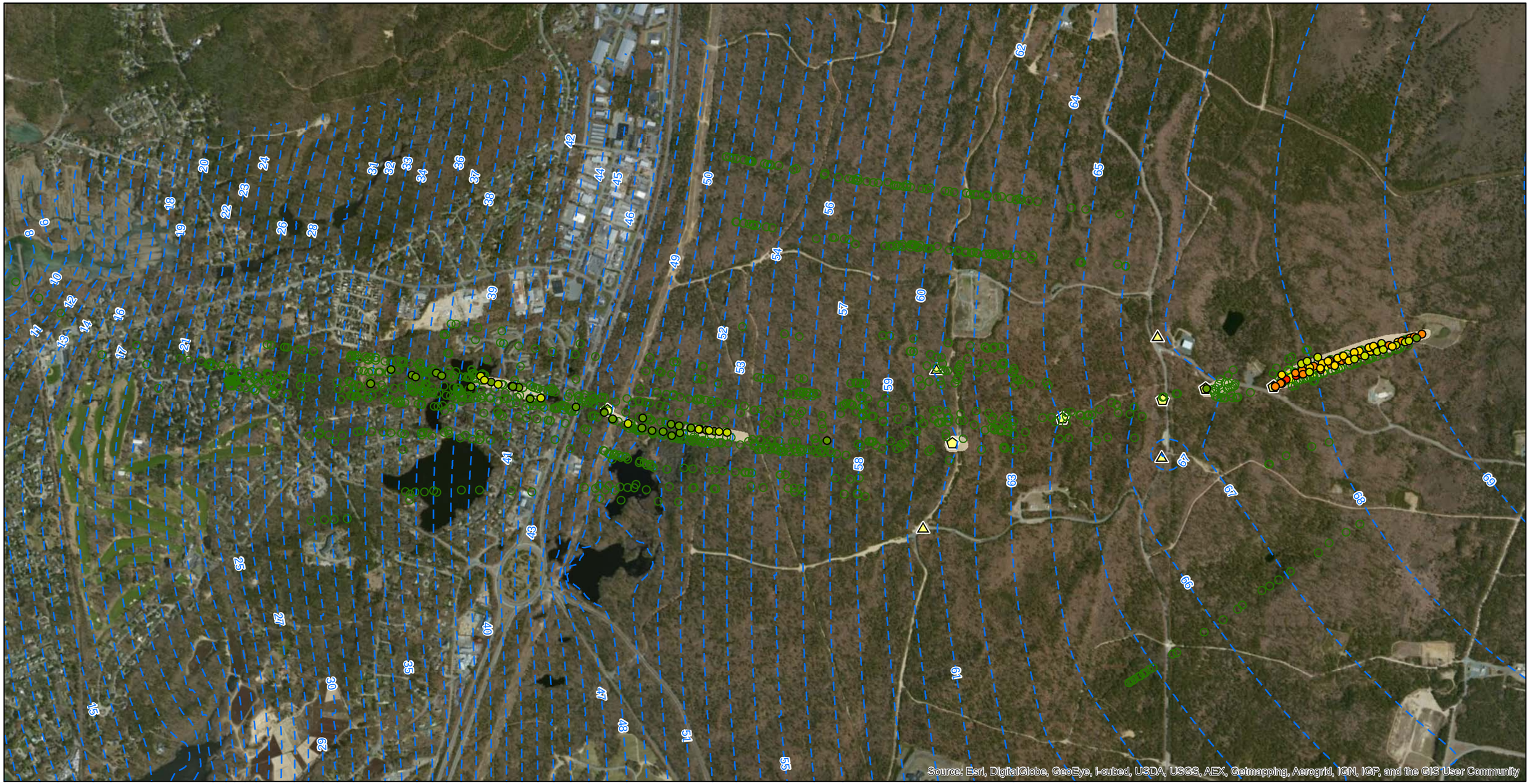
RDX Plume
Demo 1 Groundwater Operable Unit

0 1,250
Feet

N

US Army Corps of Engineers
New England District

M:\MMR\2013\Demo1\TechMemo\Figures\FigA2_051713.pdf
M:\MMR\2013\Demo1\TechMemo\MXDs\FigA2_051713.mxd
May 17, 2013 DWN: MTW CHKD: MRK



RDX Points Used CONC		RDX Points Deleted CONC	
●	0.0 - 0.25	○	0.0 - 0.25
●	0.251 - 0.60	○	0.251 - 0.60
●	0.601- 2.00	○	0.601- 2.00
●	2.001 - 6.00	○	2.001 - 6.00
●	6.001 - 20.00	○	6.001 - 20.00
●	20.01 - 60.00	○	20.01 - 60.00

US Army Corps of Engineers

N

0 1,250 2,500 Feet

Demolition Area 1 2013
RDX Plume Shell

Migrated Concentration Data and Associated Contours

Elevation Range: +70 to -105 feet msl

RDX Points Used
CONC

- 0.0 - 0.25
- 0.251 - 0.60
- 0.601- 2.00
- 2.001 - 6.00
- 6.001 - 20.00
- 20.01 - 60.00

RDX Points Deleted
CONC

- 0.0 - 0.25
- 0.251 - 0.60
- 0.601- 2.00
- 2.001 - 6.00
- 6.001 - 20.00
- 20.01 - 60.00

US Army Corps of Engineers

N

0 1,250 2,500 Feet

Demolition Area 1 2013
RDX Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: 75 to 65 feet msl

RDX Points Used CONC		RDX Points Deleted CONC	
●	0.0 - 0.25	○	0.0 - 0.25
●	0.251 - 0.60	○	0.251 - 0.60
●	0.601- 2.00	○	0.601- 2.00
●	2.001 - 6.00	○	2.001 - 6.00
●	6.001 - 20.00	○	6.001 - 20.00
●	20.01 - 60.00	○	20.01 - 60.00

US Army Corps of Engineers

N

0 1,250 2,500 Feet

Demolition Area 1 2013
RDX Plume Shell

Migrated Concentration Data and Associated Contours

Elevation Range: 70 to 60 feet msl

RDX Points Used CONC		RDX Points Deleted CONC	
●	0.0 - 0.25	○	0.0 - 0.25
●	0.251 - 0.60	○	0.251 - 0.60
●	0.601- 2.00	○	0.601- 2.00
●	2.001 - 6.00	○	2.001 - 6.00
●	6.001 - 20.00	○	6.001 - 20.00
●	20.01 - 60.00	○	20.01 - 60.00

US Army Corps of Engineers

N

0 1,250 2,500 Feet

Demolition Area 1 2013
RDX Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: 60 to 50 feet msl

RDX Points Used CONC		RDX Points Deleted CONC	
●	0.0 - 0.25	○	0.0 - 0.25
●	0.251 - 0.60	○	0.251 - 0.60
●	0.601- 2.00	○	0.601- 2.00
●	2.001 - 6.00	○	2.001 - 6.00
●	6.001 - 20.00	○	6.001 - 20.00
●	20.01 - 60.00	○	20.01 - 60.00

US Army Corps of Engineers

N

0 1,250 2,500 Feet

Demolition Area 1 2013
RDX Plume Shell

Migrated Concentration Data and Associated Contours

Elevation Range: 50 to 40 feet msl

RDX Points Used CONC		RDX Points Deleted CONC	
●	0.0 - 0.25	○	0.0 - 0.25
●	0.251 - 0.60	○	0.251 - 0.60
●	0.601- 2.00	○	0.601- 2.00
●	2.001 - 6.00	○	2.001 - 6.00
●	6.001 - 20.00	○	6.001 - 20.00
●	20.01 - 60.00	○	20.01 - 60.00

US Army Corps of Engineers

N

0 1,250 2,500 Feet

Demolition Area 1 2013
RDX Plume Shell

Migrated Concentration Data and Associated Contours

Elevation Range: 40 to 30 feet msl

RDX Points Used CONC		RDX Points Deleted CONC	
●	0.0 - 0.25	○	0.0 - 0.25
●	0.251 - 0.60	○	0.251 - 0.60
●	0.601- 2.00	○	0.601- 2.00
●	2.001 - 6.00	○	2.001 - 6.00
●	6.001 - 20.00	○	6.001 - 20.00
●	20.01 - 60.00	○	20.01 - 60.00

US Army Corps of Engineers

N

0 1,250 2,500 Feet

Demolition Area 1 2013
RDX Plume Shell

Migrated Concentration Data and Associated Contours

Elevation Range: 30 to 20 feet msl

RDX Points Used CONC		RDX Points Deleted CONC	
●	0.0 - 0.25	○	0.0 - 0.25
●	0.251 - 0.60	○	0.251 - 0.60
●	0.601- 2.00	○	0.601- 2.00
●	2.001 - 6.00	○	2.001 - 6.00
●	6.001 - 20.00	○	6.001 - 20.00
●	20.01 - 60.00	○	20.01 - 60.00

US Army Corps of Engineers

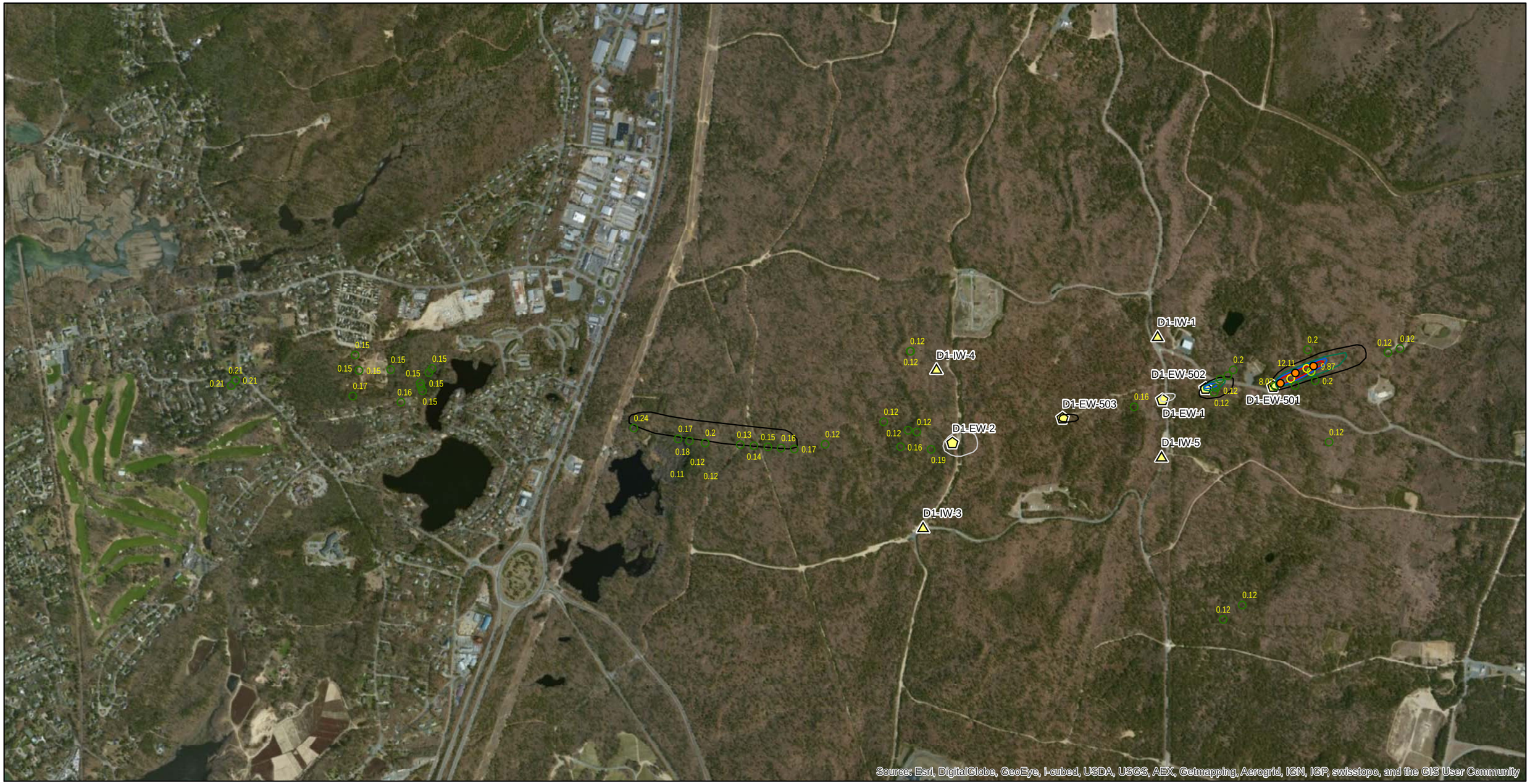
N

0 1,250 2,500 Feet

Demolition Area 1 2013
RDX Plume Shell

Migrated Concentration Data and Associated Contours

Elevation Range: 20 to 10 feet msl



RDX Points Used CONC		RDX Points Deleted CONC	
●	0.0 - 0.25	○	0.0 - 0.25
●	0.251 - 0.60	○	0.251 - 0.60
●	0.601- 2.00	○	0.601- 2.00
●	2.001 - 6.00	○	2.001 - 6.00
●	6.001 - 20.00	○	6.001 - 20.00
●	20.01 - 60.00	○	20.01 - 60.00

US Army Corps of Engineers

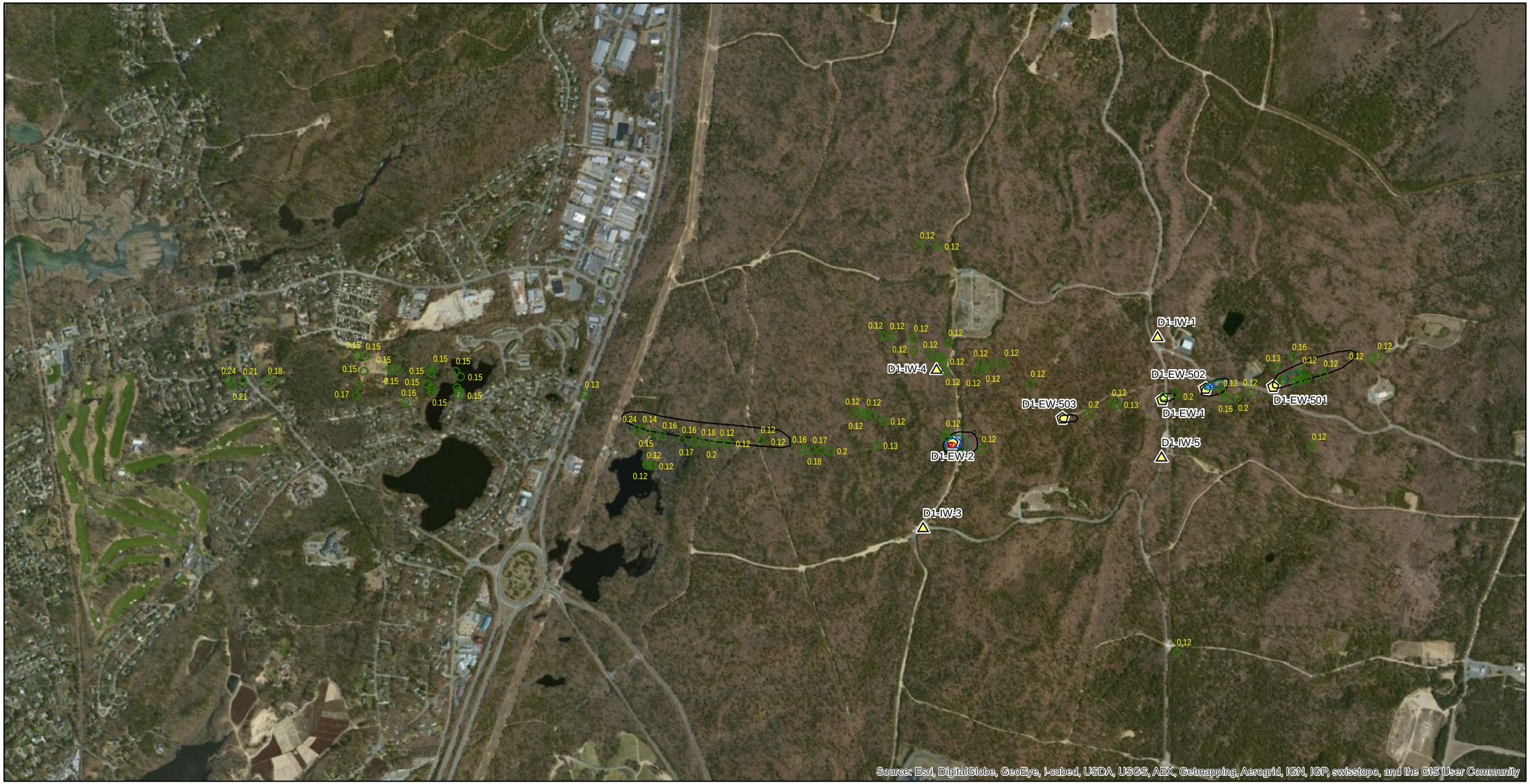
N

0 1,250 2,500 Feet

Demolition Area 1 2013
RDX Plume Shell

Migrated Concentration Data and Associated Contours

Elevation Range: 10 to 0 feet msl



RDX Points Used
CONC

- 0.0 - 0.25
- 0.251 - 0.60
- 0.601- 2.00
- 2.001 - 6.00
- 6.001 - 20.00
- 20.01 - 60.00

RDX Points Deleted
CONC

- 0.0 - 0.25
- 0.251 - 0.60
- 0.601- 2.00
- 2.001 - 6.00
- 6.001 - 20.00
- 20.01 - 60.00

US Army Corps of Engineers

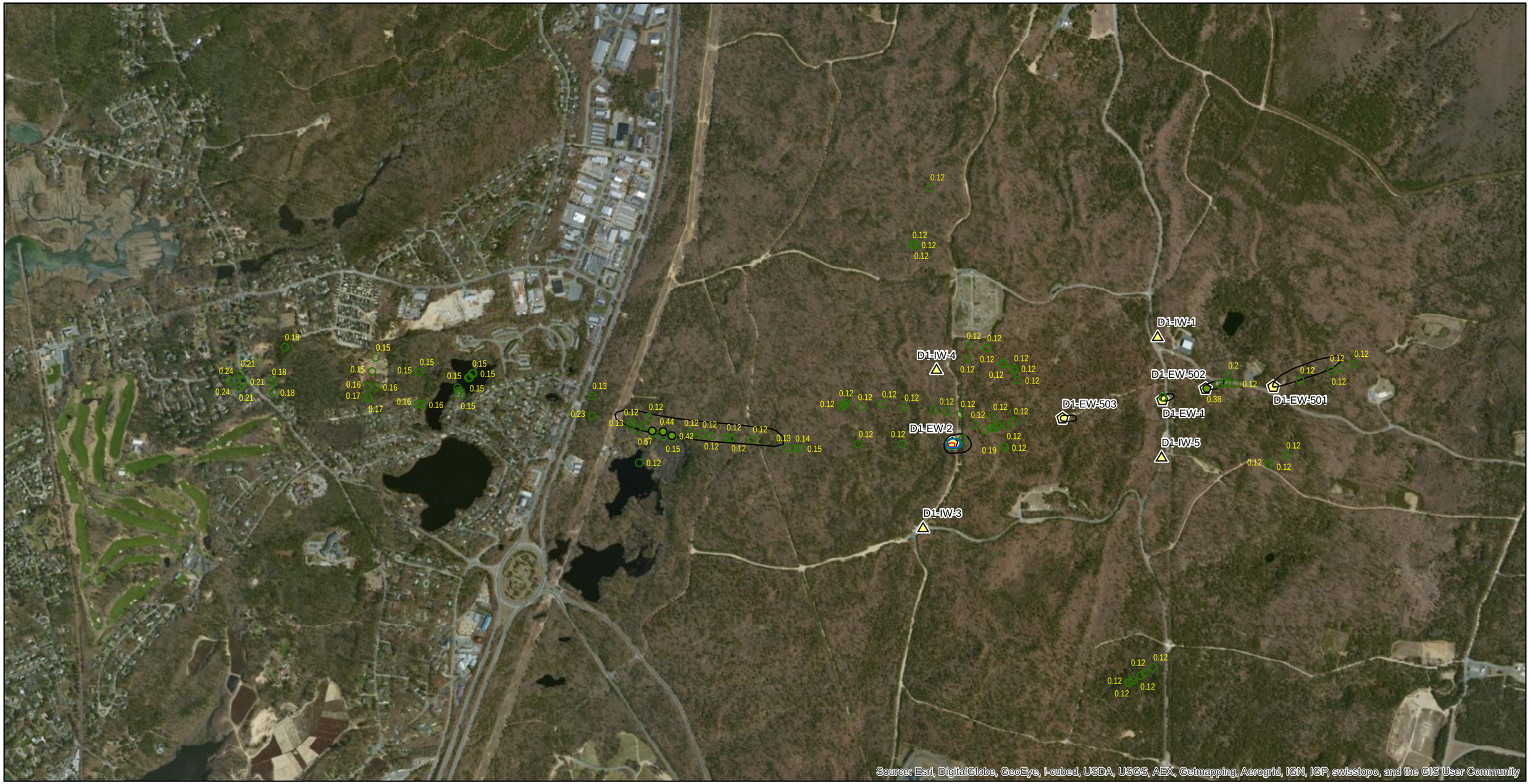
N

0 1,250 2,500
Feet

Demolition Area 1 2013
RDX Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: 0 to -10 feet msl



RDX Points Used CONC		RDX Points Deleted CONC	
●	0.0 - 0.25	○	0.0 - 0.25
●	0.251 - 0.60	○	0.251 - 0.60
●	0.601- 2.00	○	0.601- 2.00
●	2.001 - 6.00	○	2.001 - 6.00
●	6.001 - 20.00	○	6.001 - 20.00
●	20.01 - 60.00	○	20.01 - 60.00

US Army Corps of Engineers

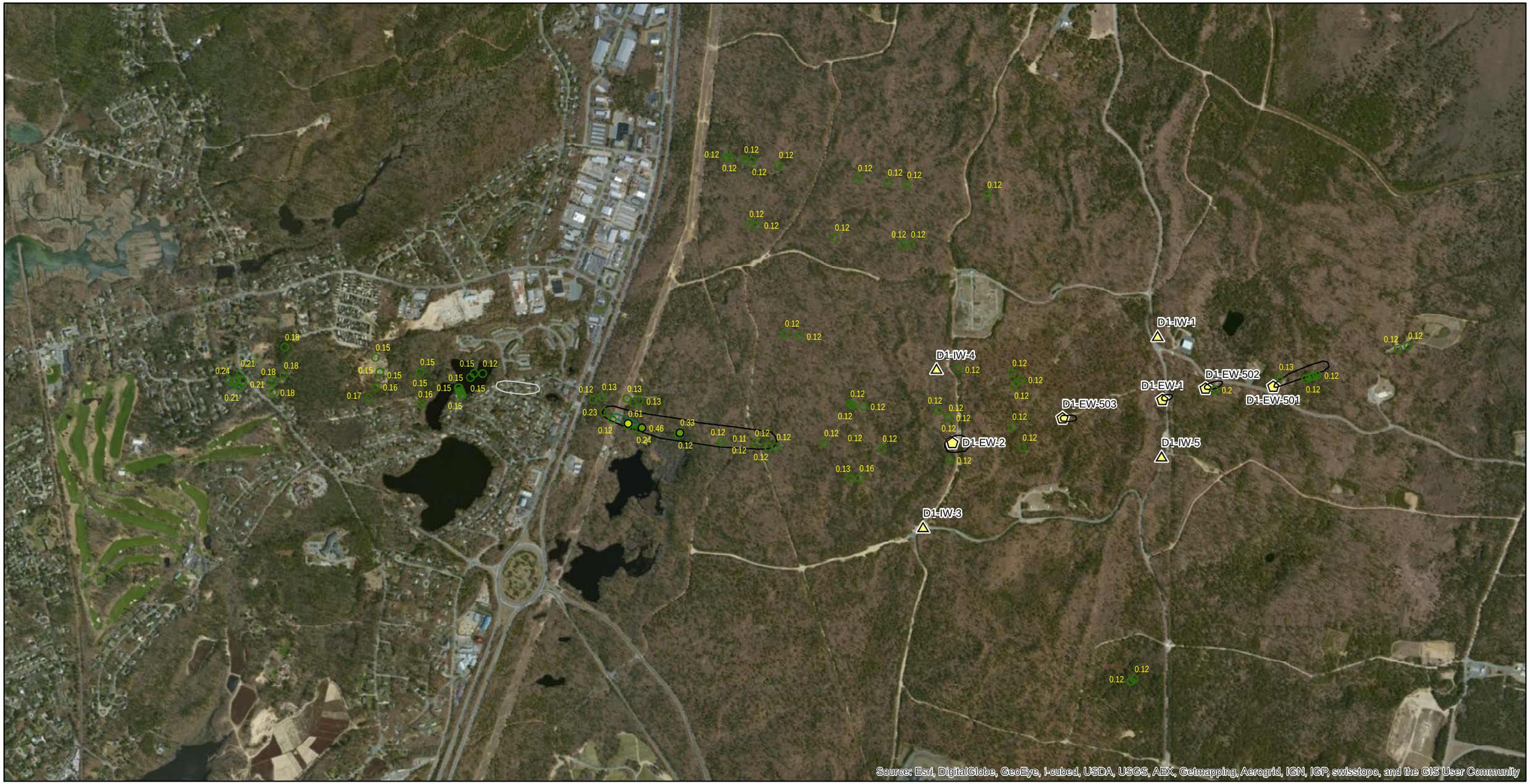
N

0 1,250 2,500 Feet

Demolition Area 1 2013
RDX Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: -10 to -20 feet msl



RDX Points Used CONC	RDX Points Deleted CONC
0.0 - 0.25	0.0 - 0.25
0.251 - 0.60	0.251 - 0.60
0.601- 2.00	0.601- 2.00
2.001 - 6.00	2.001 - 6.00
6.001 - 20.00	6.001 - 20.00
20.01 - 60.00	20.01 - 60.00

US Army Corps of Engineers

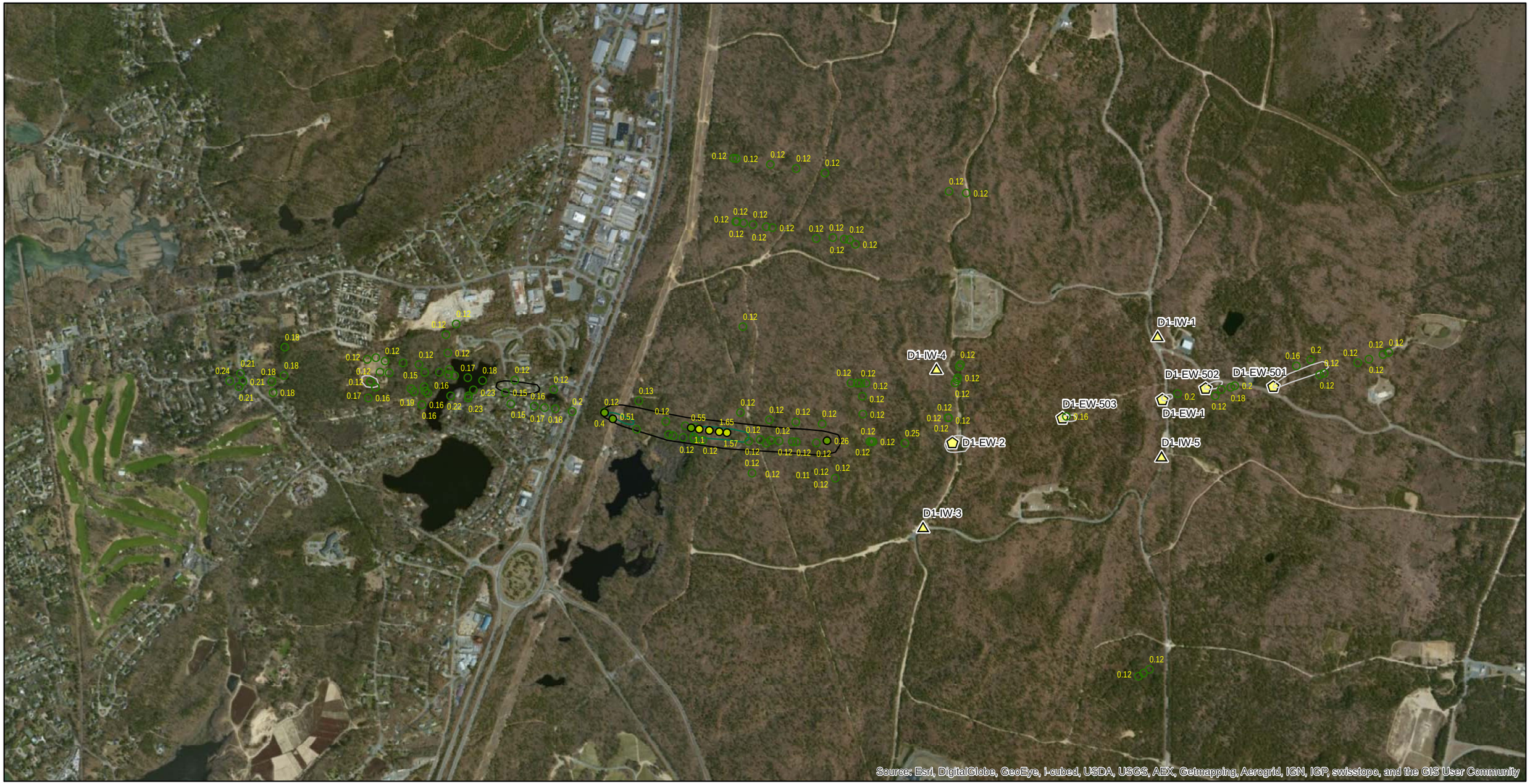
N

0 1,250 2,500 Feet

Demolition Area 1 2013
RDX Plume Shell

Migrated Concentration Data and Associated Contours

Elevation Range: -20 to -30 feet msl



RDX Points Used CONC	RDX Points Deleted CONC
0.0 - 0.25	0.0 - 0.25
0.251 - 0.60	0.251 - 0.60
0.601- 2.00	0.601- 2.00
2.001 - 6.00	2.001 - 6.00
6.001 - 20.00	6.001 - 20.00
20.01 - 60.00	20.01 - 60.00

US Army Corps of Engineers

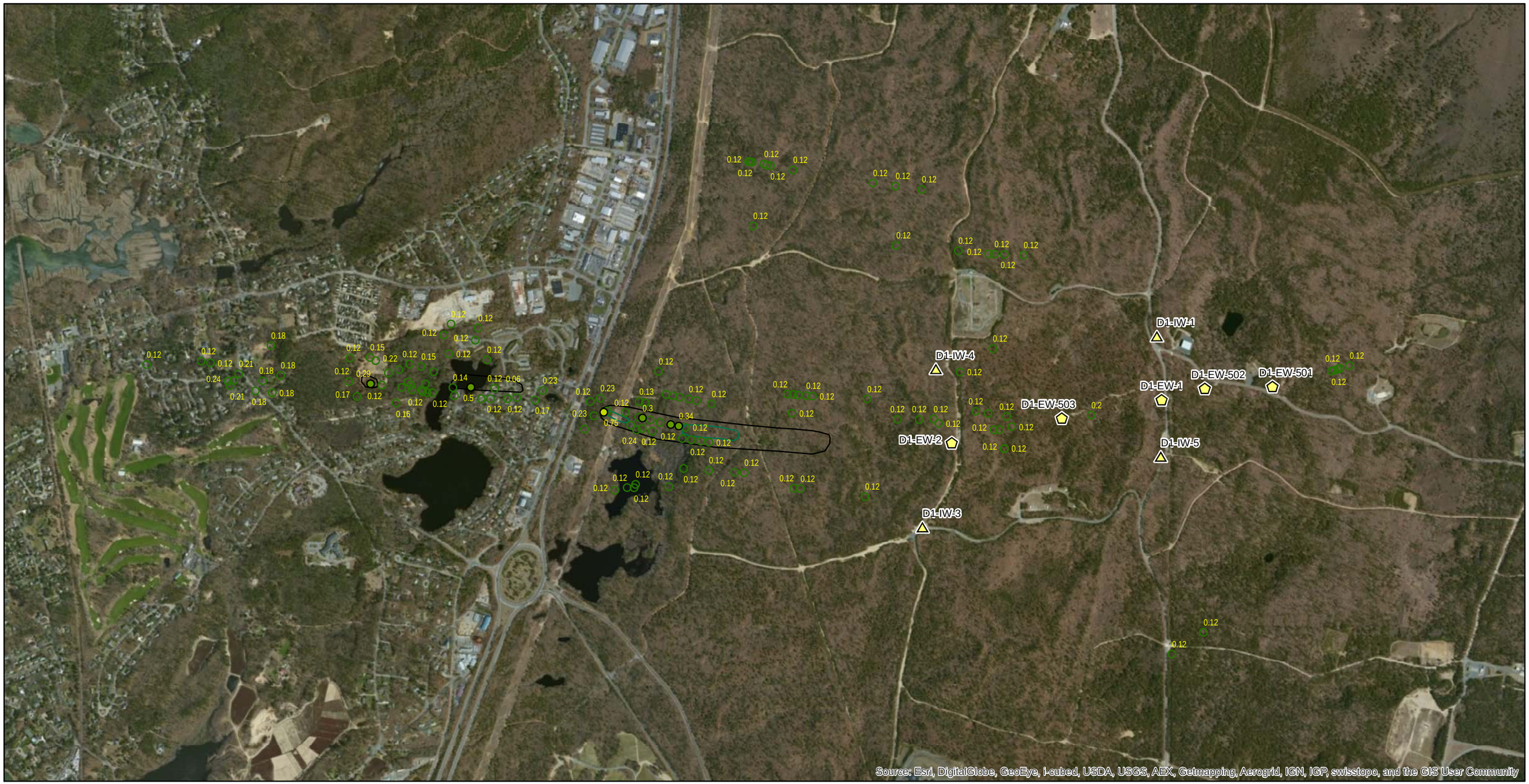
N

0 1,250 2,500 Feet

Demolition Area 1 2013
RDX Plume Shell

Migrated Concentration Data and Associated Contours

Elevation Range: -30 to -40 feet msl



RDX Points Used
CONC

- 0.0 - 0.25
- 0.251 - 0.60
- 0.601- 2.00
- 2.001 - 6.00
- 6.001 - 20.00
- 20.01 - 60.00

RDX Points Deleted
CONC

- 0.0 - 0.25
- 0.251 - 0.60
- 0.601- 2.00
- 2.001 - 6.00
- 6.001 - 20.00
- 20.01 - 60.00

US Army Corps of Engineers

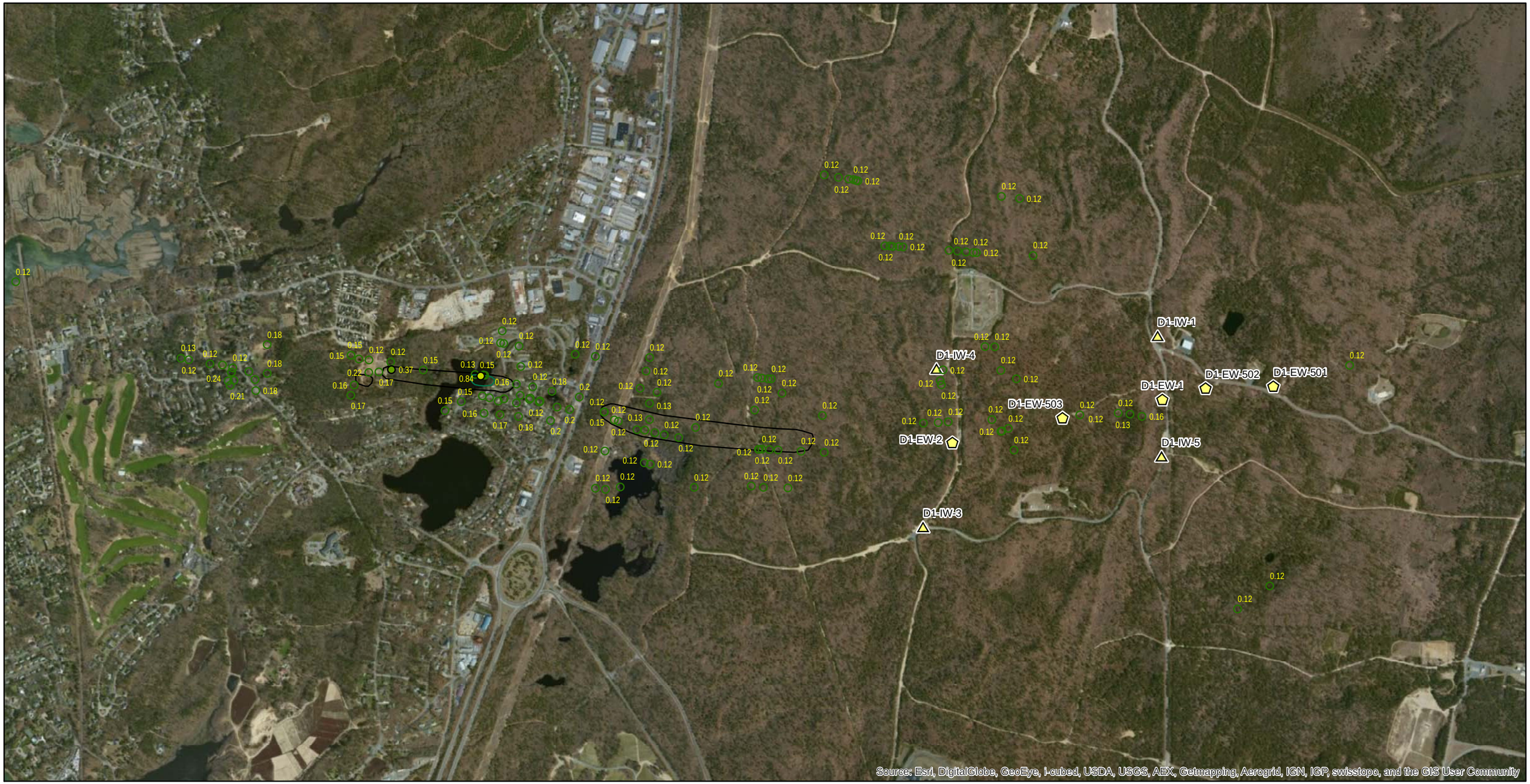
N

0 1,250 2,500 Feet

Demolition Area 1 2013
RDX Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: -40 to -50 feet msl



RDX Points Used
CONC

- 0.0 - 0.25
- 0.251 - 0.60
- 0.601- 2.00
- 2.001 - 6.00
- 6.001 - 20.00
- 20.01 - 60.00

RDX Points Deleted
CONC

- 0.0 - 0.25
- 0.251 - 0.60
- 0.601- 2.00
- 2.001 - 6.00
- 6.001 - 20.00
- 20.01 - 60.00

US Army Corps of Engineers

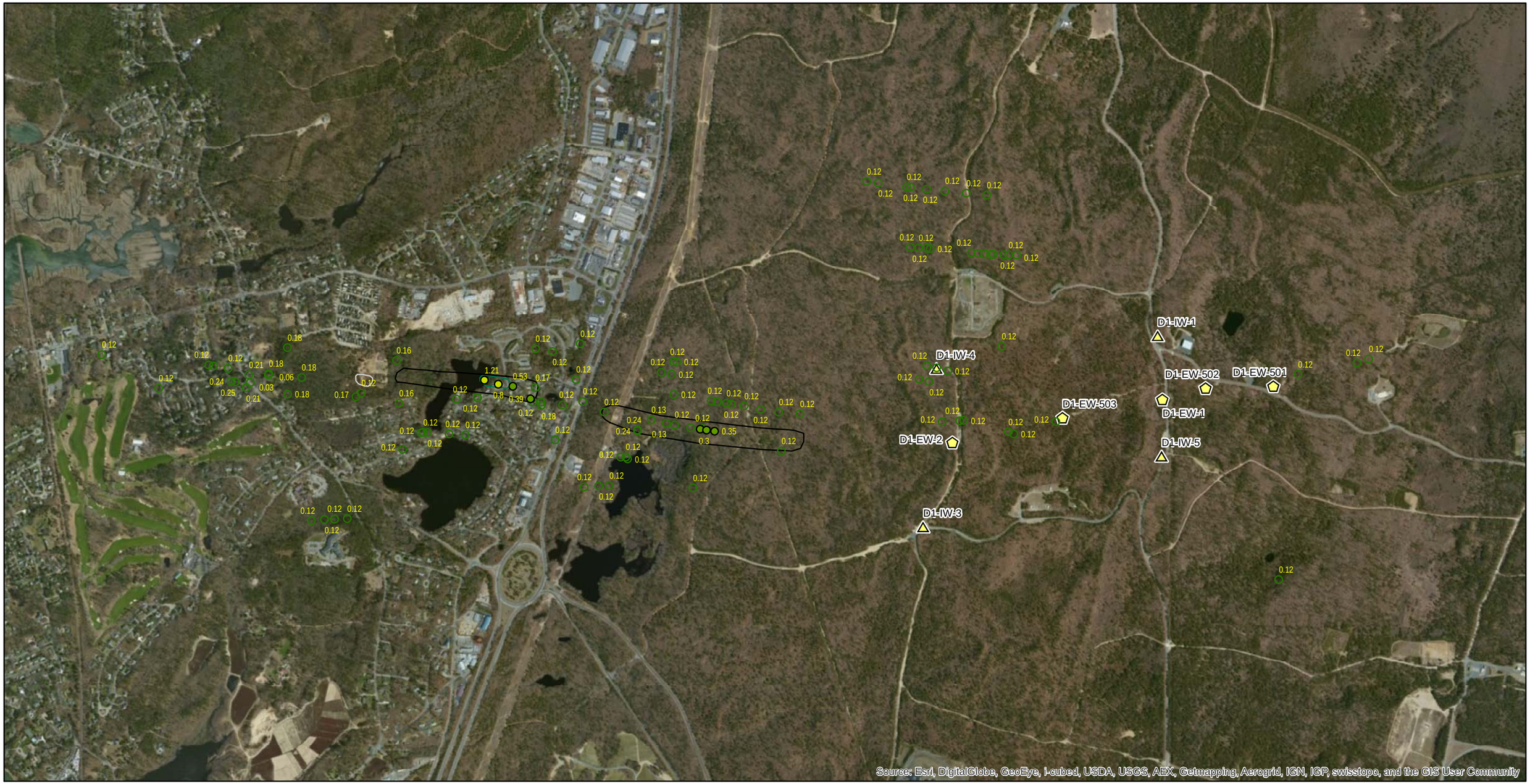
N

0 1,250 2,500
Feet

Demolition Area 1 2013
RDX Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: -50 to -60 feet msl



RDX Points Used CONC	RDX Points Deleted CONC
0.0 - 0.25	0.0 - 0.25
0.251 - 0.60	0.251 - 0.60
0.601- 2.00	0.601- 2.00
2.001 - 6.00	2.001 - 6.00
6.001 - 20.00	6.001 - 20.00
20.01 - 60.00	20.01 - 60.00

US Army Corps of Engineers

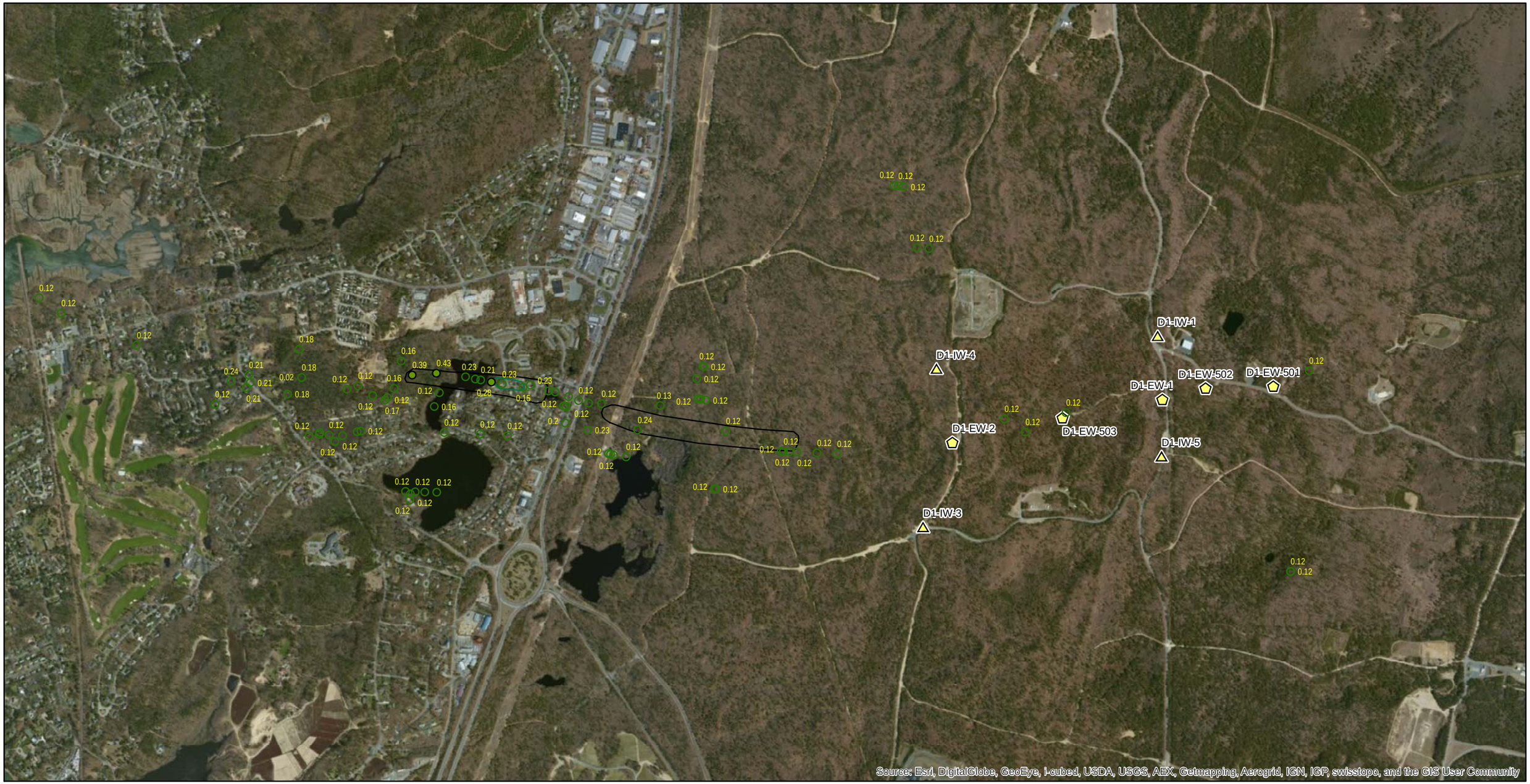
N

0 1,250 2,500 Feet

Demolition Area 1 2013
RDX Plume Shell

Migrated Concentration Data and Associated Contours

Elevation Range: -60 to -70 feet msl



RDX Points Used CONC	RDX Points Deleted CONC
0.0 - 0.25	0.0 - 0.25
0.251 - 0.60	0.251 - 0.60
0.601- 2.00	0.601- 2.00
2.001 - 6.00	2.001 - 6.00
6.001 - 20.00	6.001 - 20.00
20.01 - 60.00	20.01 - 60.00

US Army Corps of Engineers

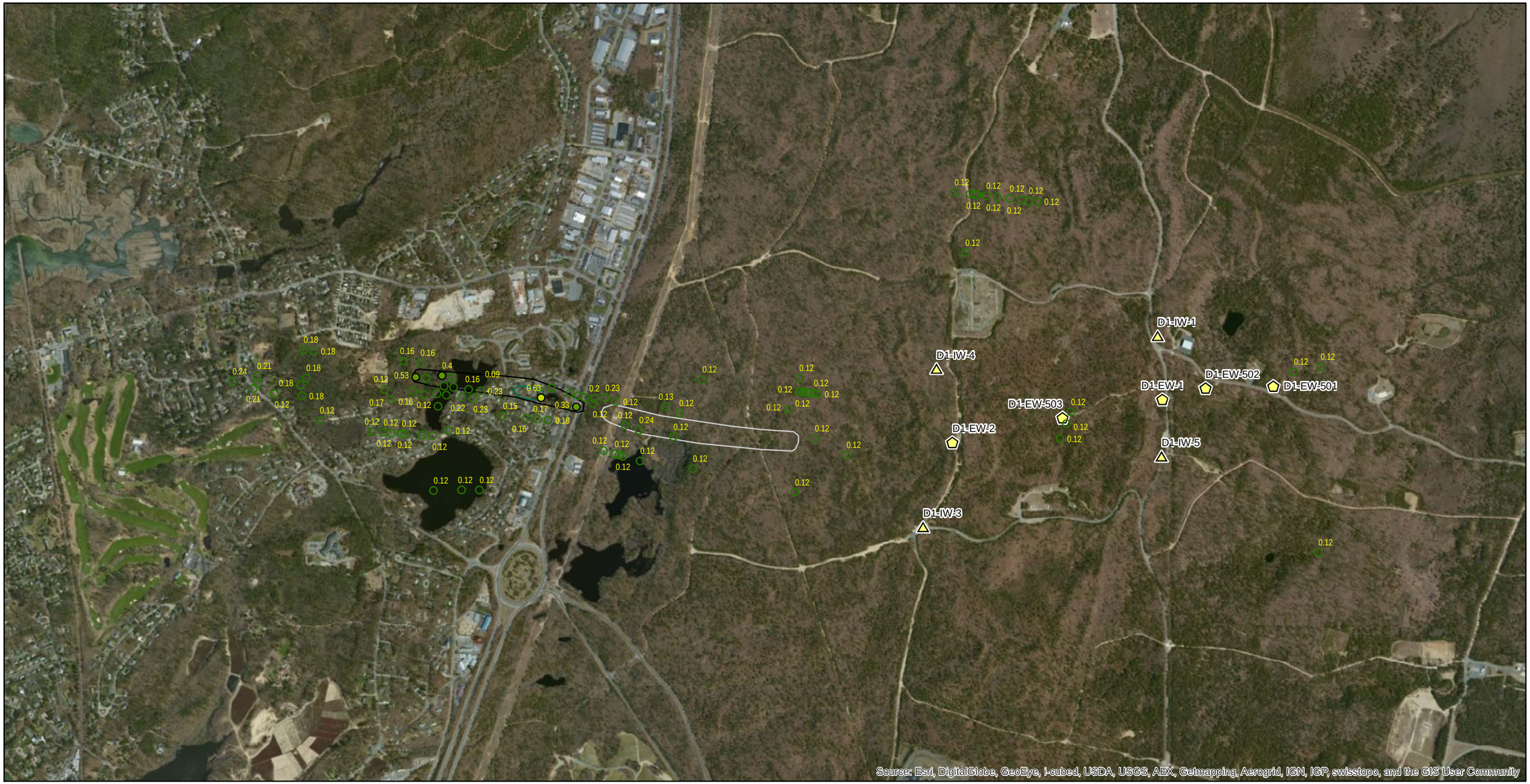
N

0 1,250 2,500 Feet

Demolition Area 1 2013
RDX Plume Shell

Migrated Concentration Data and Associated Contours

Elevation Range: -70 to -80 feet msl



RDX Points Used CONC		RDX Points Deleted CONC	
●	0.0 - 0.25	○	0.0 - 0.25
●	0.251 - 0.60	○	0.251 - 0.60
●	0.601- 2.00	○	0.601- 2.00
●	2.001 - 6.00	○	2.001 - 6.00
●	6.001 - 20.00	○	6.001 - 20.00
●	20.01 - 60.00	○	20.01 - 60.00

US Army Corps of Engineers

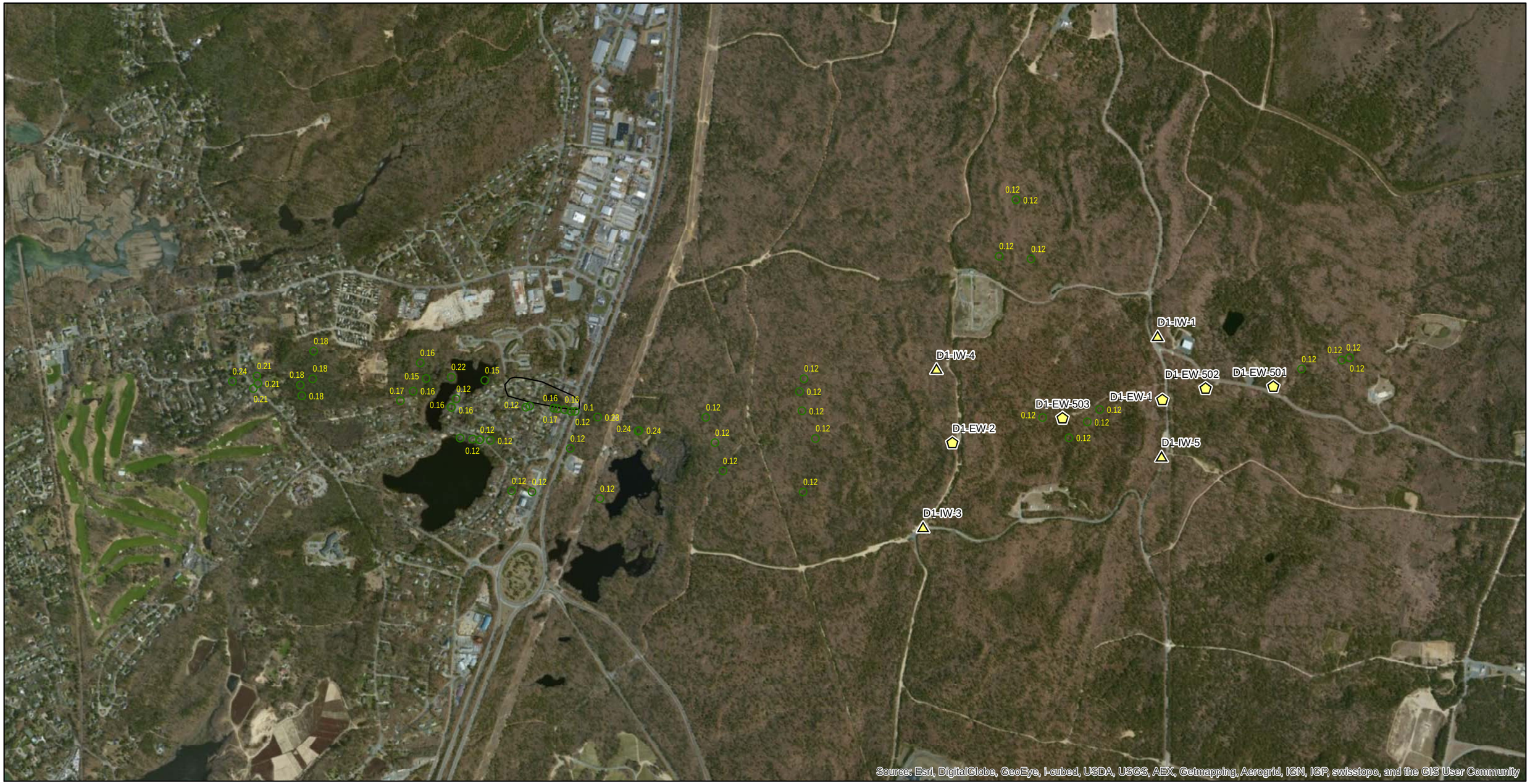
N

0 1,250 2,500 Feet

Demolition Area 1 2013
RDX Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: -80 to -90 feet msl



RDX Points Used CONC		RDX Points Deleted CONC	
●	0.0 - 0.25	○	0.0 - 0.25
●	0.251 - 0.60	○	0.251 - 0.60
●	0.601- 2.00	○	0.601- 2.00
●	2.001 - 6.00	○	2.001 - 6.00
●	6.001 - 20.00	○	6.001 - 20.00
●	20.01 - 60.00	○	20.01 - 60.00

US Army Corps of Engineers

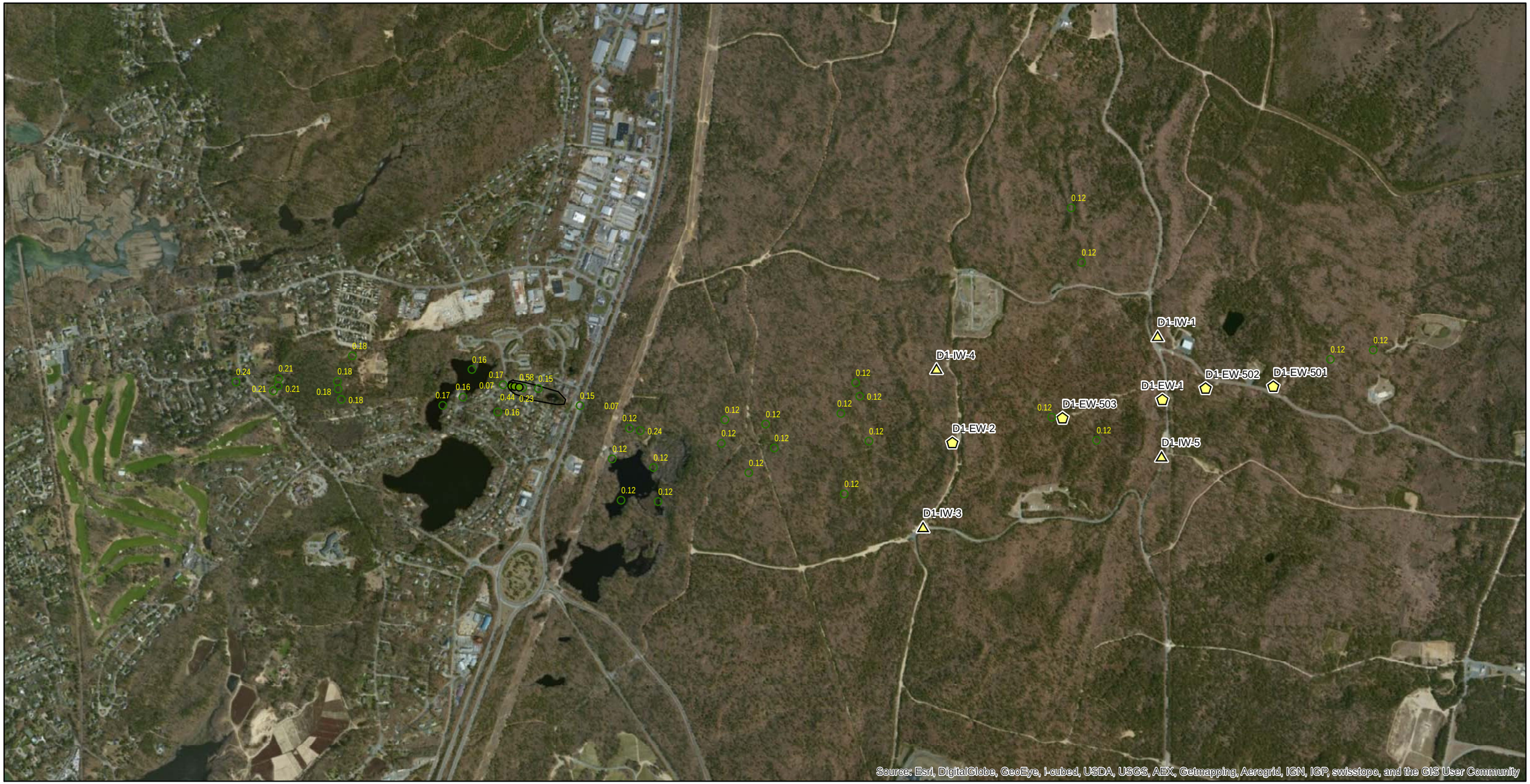
N

0 1,250 2,500 Feet

Demolition Area 1 2013
RDX Plume Shell

Migrated Concentration Data and Associated Contours

Elevation Range: -90 to -100 feet msl



RDX Points Used CONC		RDX Points Deleted CONC	
●	0.0 - 0.25	○	0.0 - 0.25
●	0.251 - 0.60	○	0.251 - 0.60
●	0.601- 2.00	○	0.601- 2.00
●	2.001 - 6.00	○	2.001 - 6.00
●	6.001 - 20.00	○	6.001 - 20.00
●	20.01 - 60.00	○	20.01 - 60.00

US Army Corps of Engineers

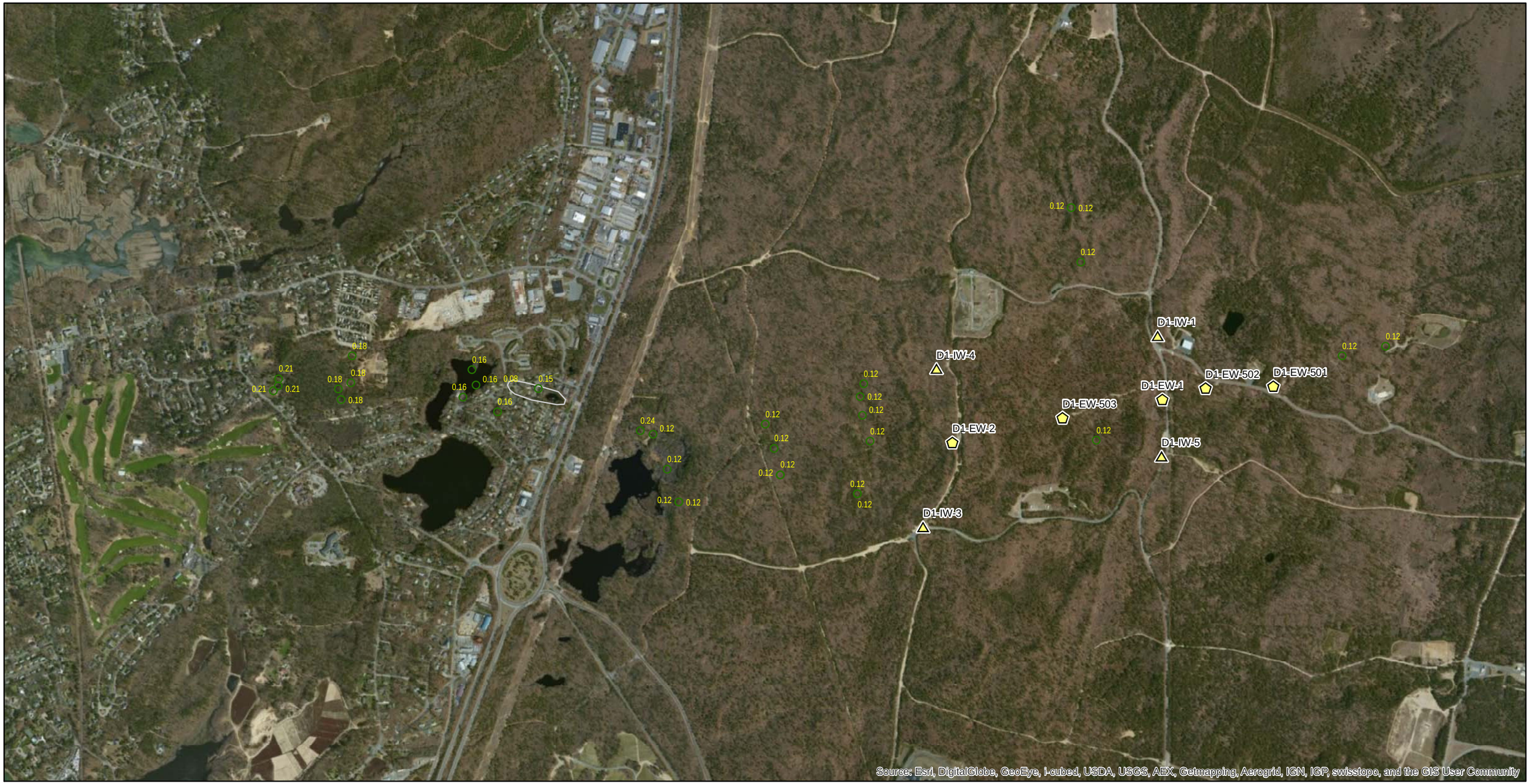
N

0 1,250 2,500 Feet

Demolition Area 1 2013
RDX Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: -100 to -110 feet msl



RDX Points Used
CONC

- 0.0 - 0.25
- 0.251 - 0.60
- 0.601- 2.00
- 2.001 - 6.00
- 6.001 - 20.00
- 20.01 - 60.00

RDX Points Deleted
CONC

- 0.0 - 0.25
- 0.251 - 0.60
- 0.601- 2.00
- 2.001 - 6.00
- 6.001 - 20.00
- 20.01 - 60.00

US Army Corps of Engineers

N

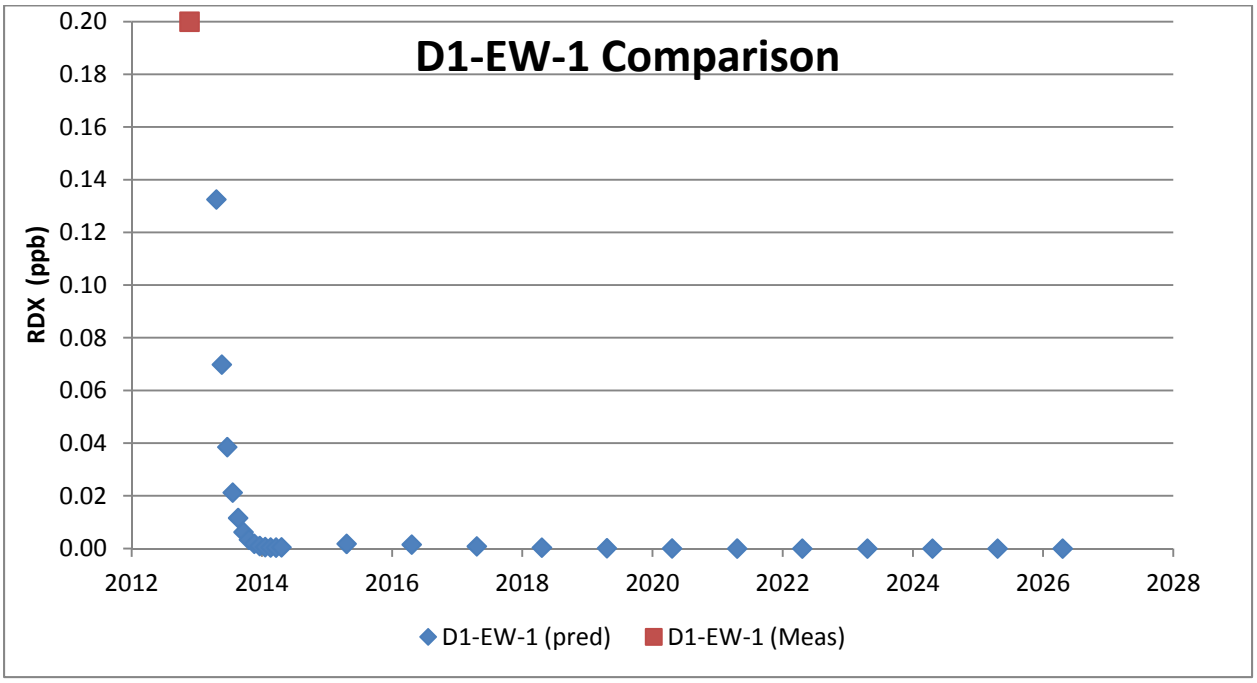
0 1,250 2,500
Feet

Demolition Area 1 2013
RDX Plume Shell

Migrated Concentration Data
and Associated Contours

Elevation Range: -110 to -120 feet msl

Figure
Demo 1 Measured and Predicted Extraction Well RDX Concentrations



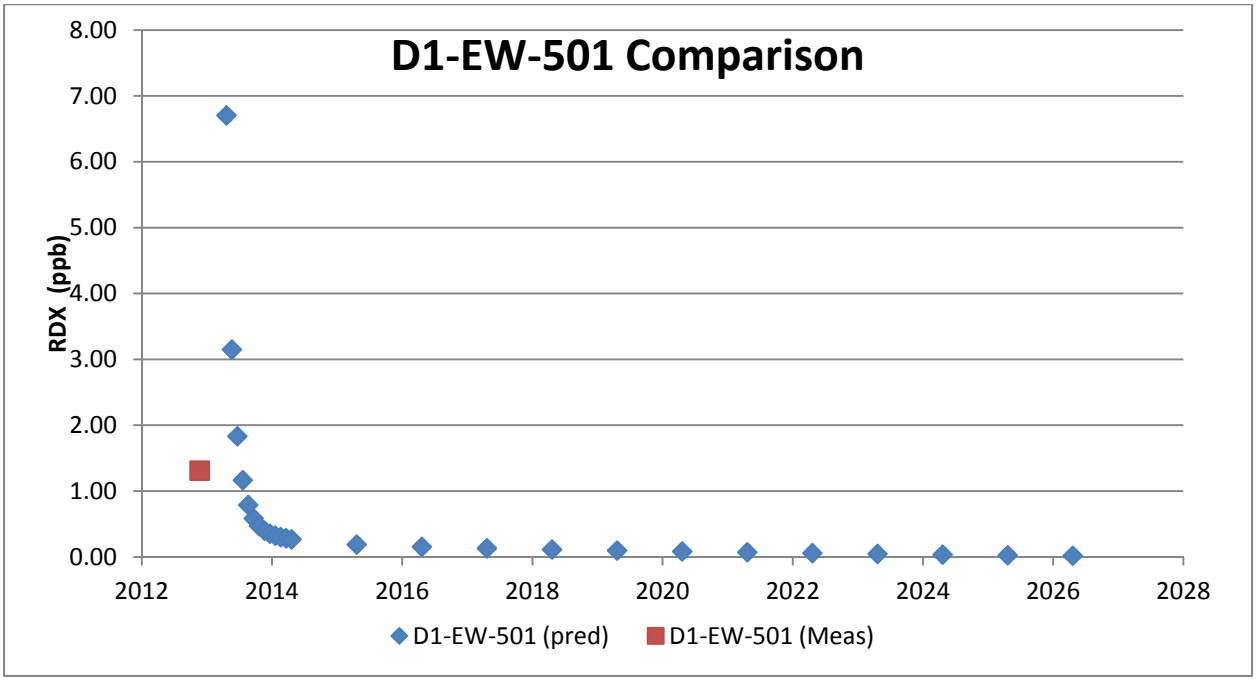
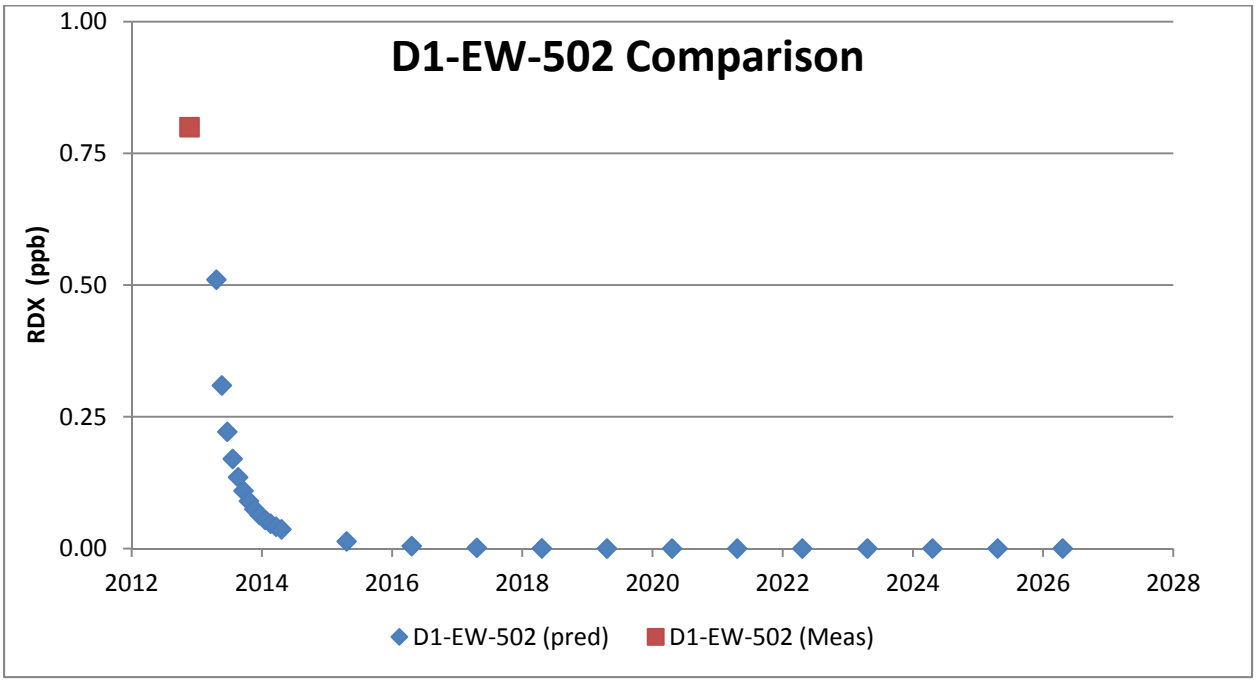


Figure
Demo 1 Measured and Predicted Extraction Well RDX Concentrations



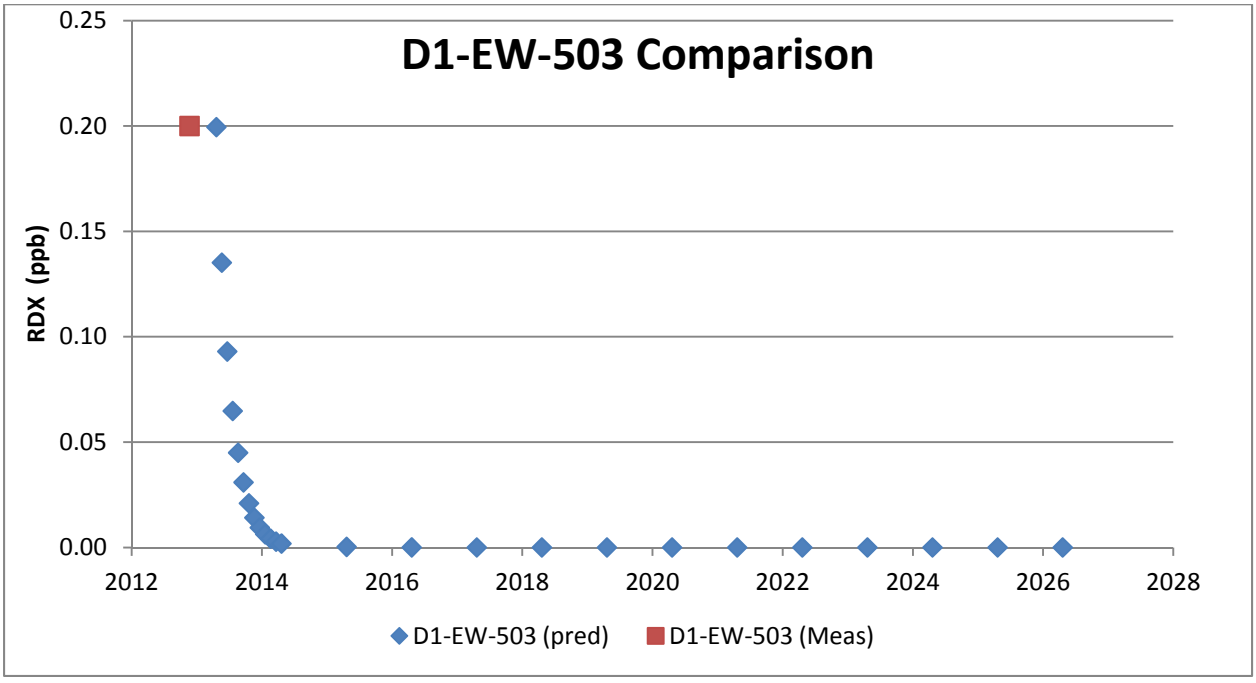
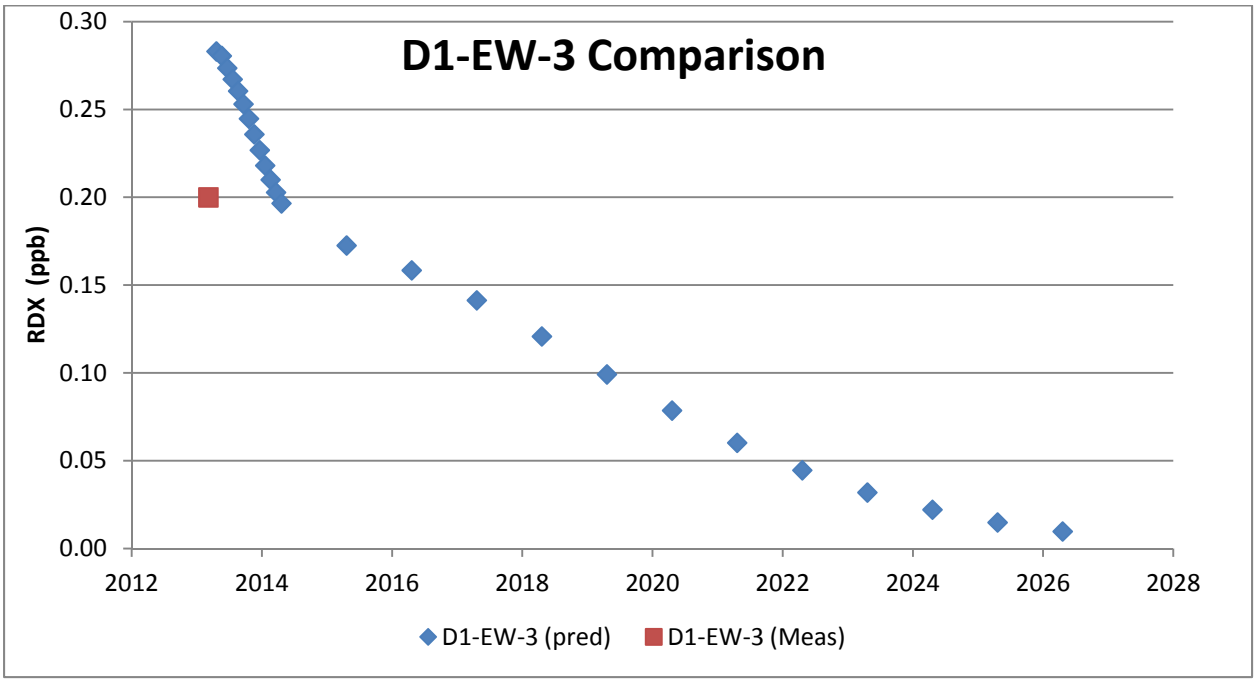
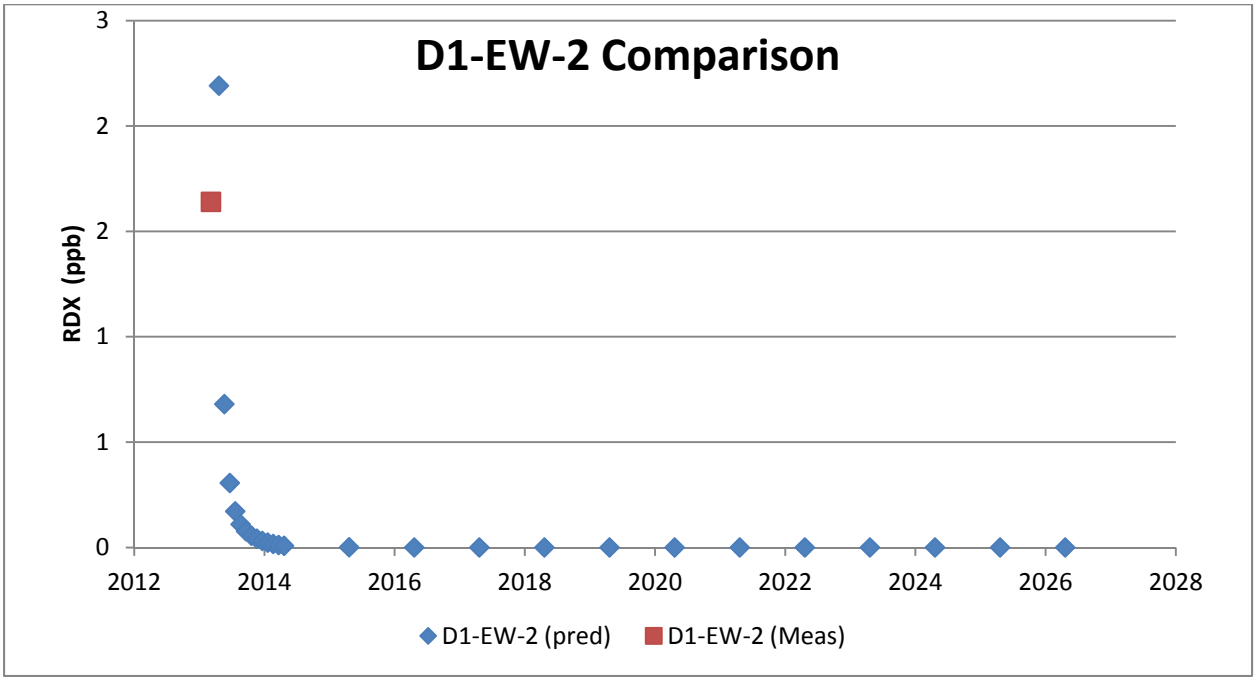


Figure
Demo 1 Measured and Predicted Extraction Well RDX Concentrations





Tables

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
DP-556 (-58.62)	3/18/2011	846441.60	253815.40	-59.30	0.37	13.36	Used
DP-556 (-68.62)	3/18/2011	847041.80	253767.90	-73.30	0.43	13.36	Used
DP-556 (-78.62)	3/18/2011	847116.50	253733.80	-80.86	0.40	13.36	Used
DP-558 (-66.85)	4/28/2011	846719.50	253740.50	-72.58	0.39	13.47	Used
DP-558 (-76.85)	4/29/2011	846767.30	253714.70	-80.48	0.53	13.47	Used
MW-114M1	8/18/2010	857336.80	253562.30	-14.21	0.38	12.78	Used
MW-19S	5/29/2002	858250.00	253590.80	53.28	56.11	4.56	Used
MW-19S	8/7/2002	858250.00	253590.80	45.70	46.29	4.75	Used
MW-19S	9/27/2003	858401.50	253680.60	11.37	37.41	5.89	Used
MW-19S	2/28/2004	858531.70	253734.00	10.34	30.39	6.31	Used
MW-19S	6/1/2004	858597.50	253758.00	10.81	34.13	6.57	Used
MW-19S	8/8/2005	858859.80	253845.00	15.53	6.55	7.75	Used
MW-19S	4/12/2006	858993.50	253887.60	18.93	8.88	8.43	Used
MW-19S	1/3/2007	859139.80	253934.20	22.85	15.90	9.16	Used
MW-19S	4/30/2007	859203.40	253954.40	24.65	11.55	9.48	Used
MW-19S	12/7/2007	859321.70	253992.40	28.16	7.67	10.08	Used
MW-19S	4/24/2008	859396.80	254016.80	30.45	6.05	10.46	Used
MW-19S	12/29/2008	859529.20	254060.20	34.70	2.95	11.14	Used
MW-19S	4/29/2009	859592.10	254080.90	36.83	4.41	11.47	Used
MW-19S	11/16/2009	859694.10	254114.90	40.47	5.90	12.02	Used
MW-19S	4/22/2010	859771.40	254140.80	43.40	6.05	12.45	Used
MW-19S	12/22/2010	859888.10	254180.00	48.09	3.69	13.12	Used
MW-19S	4/18/2011	859943.00	254198.50	50.40	7.75	13.44	Used
MW-19S	12/13/2011	860052.90	254235.60	55.25	8.70	14.10	Used
MW-19S	4/17/2012	860109.90	254254.90	57.88	8.65	14.44	Used
MW-19S	11/26/2012	860209.10	254288.60	62.66	9.75	15.05	Used
MW-211M1	2/4/2004	852263.50	252863.70	-34.35	0.26	6.24	Used
MW-225 (22.28)	6/13/2002	846165.40	253628.30	-44.77	0.29	4.60	Used
MW-225M3	8/4/2005	849284.40	253248.60	-49.01	0.75	7.74	Used
MW-225M3	2/7/2006	849289.60	253238.60	-39.10	0.40	8.25	Used
MW-225M3	4/6/2006	849398.40	253156.60	-35.51	0.51	8.41	Used
MW-225M3	8/8/2006	849604.90	253093.80	-29.52	0.61	8.75	Used
MW-225M3	12/21/2006	849790.40	253037.70	-23.97	0.46	9.12	Used
MW-225M3	4/11/2007	849926.10	252997.80	-19.94	0.57	9.42	Used
MW-225M3	12/5/2007	850189.20	252931.70	-13.62	0.42	10.08	Used
MW-31M	4/13/2006	858249.90	253590.80	24.63	12.16	8.43	Used
MW-31M	4/13/2006	858249.90	253590.80	24.63	12.16	8.43	Used
MW-31M	4/26/2007	858520.50	253769.30	6.01	12.11	9.46	Used
MW-31M	4/24/2008	858763.80	253860.90	8.77	9.87	10.46	Used
MW-31M	4/20/2009	858980.50	253935.10	13.23	9.56	11.45	Used
MW-31M	12/21/2010	859307.40	254043.70	22.07	2.70	13.12	Used
MW-31M	4/18/2011	859370.60	254064.40	23.90	4.33	13.44	Used
MW-31M	12/27/2011	859502.40	254107.60	27.96	4.50	14.14	Used
MW-31M	4/24/2012	859563.00	254127.40	29.92	4.07	14.46	Used
MW-31M	11/26/2012	859670.90	254162.70	33.59	0.96	15.05	Used
MW-31S	4/13/2006	858250.00	253590.80	42.44	12.62	8.43	Used

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-31S	4/13/2006	858250.00	253590.80	42.44	12.62	8.43	Used
MW-31S	12/7/2007	858611.60	253806.20	20.22	13.19	10.08	Used
MW-31S	4/24/2008	858714.70	253844.30	21.84	5.91	10.46	Used
MW-31S	12/16/2008	858875.90	253900.70	25.17	4.88	11.11	Used
MW-31S	4/20/2009	858955.60	253927.70	27.10	2.32	11.45	Used
MW-31S	11/18/2009	859084.60	253971.00	30.53	2.68	12.03	Used
MW-31S	12/21/2010	859307.50	254044.70	37.40	2.58	13.12	Used
MW-31S	12/27/2011	859502.40	254108.60	44.24	5.06	14.14	Used
MW-31S	4/24/2012	859563.00	254128.40	46.52	3.40	14.46	Used
MW-31S	11/26/2012	859670.90	254163.70	50.77	1.91	15.05	Used
MW-31S	4/8/2010	859165.70	253998.00	32.91	3.68	12.42	Used
MW-341 (38.36)	7/14/2004	850072.40	252987.30	-19.33	0.44	6.68	Used
MW-341M4	8/31/2004	850297.10	252969.90	-20.76	0.33	6.81	Used
MW-532 (-32.55)	1/20/2010	849802.20	253170.40	-48.13	0.30	12.20	Used
MW-532M1	9/6/2011	850567.30	253018.20	-65.73	0.26	13.83	Used
MW-532M1	12/14/2011	850652.90	253006.20	-65.14	0.30	14.10	Used
MW-532M1	4/18/2012	850760.90	252992.20	-64.42	0.35	14.44	Used
MW-532M2	12/30/2010	850179.80	253084.50	-41.60	0.49	13.14	Used
MW-532M2	4/14/2011	850287.10	253063.60	-40.13	0.34	13.43	Used
MW-532M2	9/6/2011	850446.20	253036.10	-38.35	0.55	13.83	Used
MW-532M2	12/14/2011	850553.90	253019.60	-37.25	1.10	14.10	Used
MW-532M2	4/18/2012	850689.40	253000.90	-35.93	1.25	14.44	Used
MW-532M2	8/21/2012	850822.20	252984.50	-34.66	1.65	14.79	Used
MW-532M2	11/27/2012	850925.30	252972.80	-33.68	1.57	15.06	Used
MW-545M2	12/7/2010	848441.20	253438.30	-89.86	0.63	13.08	Used
MW-545M2	6/16/2011	848912.00	253316.20	-88.37	0.33	13.60	Used
MW-545M3	6/16/2011	848299.30	253425.30	-62.33	0.39	13.60	Used
MW-545M3	12/6/2010	847506.90	253584.50	-45.91	0.50	13.08	Used
MW-554M1	9/23/2011	847776.40	253648.10	-71.60	0.28	13.88	Used
MW-556M1	12/26/2011	848050.30	253593.70	-108.38	0.35	14.13	Used
MW-556M1	3/26/2012	848088.00	253588.20	-108.40	0.44	14.38	Used
MW-556M1	8/20/2012	848149.10	253579.50	-108.42	0.58	14.78	Used
MW-556M2	12/26/2011	847633.90	253729.30	-59.68	0.84	14.13	Used
MW-556M2	3/26/2012	847684.90	253673.80	-63.19	1.21	14.38	Used
MW-556M2	8/20/2012	847870.20	253619.40	-64.97	0.80	14.78	Used
MW-556M2	12/12/2012	848063.20	253591.00	-66.36	0.53	15.10	Used
MW-73S	12/29/2008	859446.80	254000.60	34.60	0.71	11.14	Used
MW-73S	11/16/2009	859615.40	254056.70	40.37	0.97	12.02	Used
MW-73S	2/28/2004	858342.40	253633.30	15.50	8.42	6.31	Used
MW-73S	2/8/2006	858858.20	253812.20	17.95	6.08	8.25	Used
MW-73S	1/3/2007	859045.60	253871.10	22.65	4.54	9.16	Used
MW-73S	12/7/2007	859233.40	253931.00	27.91	2.02	10.08	Used
MW-73S	4/24/2008	859310.80	253956.10	30.18	1.15	10.46	Used
MW-73S	4/18/2011	859868.70	254142.20	50.08	1.51	13.44	Used
MW-73S	12/27/2011	859986.80	254182.50	55.21	1.18	14.14	Used
MW-73S	4/17/2012	860038.20	254200.10	57.55	0.98	14.44	Used

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-73S	11/26/2012	860138.90	254234.60	62.33	0.52	15.05	Used
MW-73S	4/22/2010	859694.20	254083.10	43.09	0.64	12.45	Used
MW-73S	12/22/2010	859812.90	254123.30	47.77	2.06	13.12	Used
MW-76M1	4/8/2010	858250.00	253590.80	34.76	7.36	12.42	Used
MW-76M1	12/22/2010	858321.70	253630.50	5.96	8.07	13.12	Used
MW-76M2	4/8/2010	858250.00	253590.80	51.78	5.39	12.42	Used
MW-76M2	12/22/2010	858250.00	253590.80	26.06	8.07	13.12	Used
MW-76M2	12/27/2011	858623.80	253754.10	20.01	9.95	14.14	Used
MW-76M2	4/23/2012	858710.60	253783.70	21.35	5.04	14.46	Used
MW-76M2	11/26/2012	858857.10	253832.20	24.33	2.24	15.05	Used
MW-76S	4/23/2012	858710.30	253781.70	40.06	0.76	14.46	Used
MW-77M2	11/16/2009	858250.00	253590.80	54.42	14.79	12.02	Used
MW-77M2	4/8/2010	858250.00	253590.80	38.64	15.45	12.42	Used
MW-77M2	12/21/2010	858340.00	253745.10	18.83	2.88	13.12	Used
MW-77M2	12/27/2011	858601.30	253895.80	20.11	1.42	14.14	Used
MW-77M2	4/19/2012	858678.30	253927.90	21.54	1.99	14.45	Used
MW-77M2	11/19/2012	858816.80	253980.20	24.55	1.50	15.03	Used
BH-581 (-6.00)	6/22/2012	844423.60	253761.70	-13.02	0.21	14.62	Deleted
BH-581 (-16.00)	6/22/2012	844423.40	253761.70	-22.32	0.21	14.62	Deleted
BH-581 (-26.00)	6/22/2012	844423.20	253761.70	-31.61	0.21	14.62	Deleted
BH-581 (-36.00)	6/22/2012	844402.80	253764.80	-40.90	0.21	14.62	Deleted
BH-581 (-46.00)	6/25/2012	844302.60	253780.30	-50.25	0.21	14.63	Deleted
BH-581 (-56.00)	6/25/2012	844302.50	253780.30	-59.29	0.21	14.63	Deleted
BH-581 (-66.00)	6/26/2012	844537.10	253744.90	-68.31	0.21	14.63	Deleted
BH-581 (-76.00)	6/26/2012	844536.80	253744.90	-77.70	0.21	14.63	Deleted
BH-581 (-86.00)	6/27/2012	844643.00	253730.10	-87.12	0.21	14.64	Deleted
BH-581 (-96.00)	6/27/2012	844642.90	253730.10	-96.63	0.21	14.64	Deleted
BH-581 (-106.00)	6/27/2012	844932.60	253693.00	-106.34	0.21	14.64	Deleted
BH-581 (-116.00)	6/28/2012	844933.00	253692.90	-116.20	0.21	14.64	Deleted
BH-581 (-124.00)	6/28/2012	844932.90	253692.90	-124.08	0.21	14.64	Deleted
BH-582 (15.77)	7/9/2012	844357.90	253670.10	7.51	0.21	14.67	Deleted
BH-582 (8.32)	7/9/2012	844357.80	253670.10	0.52	0.21	14.67	Deleted
BH-582 (-1.68)	7/9/2012	844456.00	253655.70	-8.46	0.21	14.67	Deleted
BH-582 (-11.68)	7/9/2012	844455.80	253655.70	-17.83	0.21	14.67	Deleted
BH-582 (-21.68)	7/9/2012	844455.60	253655.70	-27.17	0.21	14.67	Deleted
BH-582 (-31.68)	7/9/2012	844455.40	253655.70	-36.51	0.21	14.67	Deleted
BH-582 (-41.68)	7/9/2012	844335.50	253672.70	-46.07	0.21	14.67	Deleted
BH-582 (-51.68)	7/9/2012	844335.30	253672.70	-55.18	0.21	14.67	Deleted
BH-582 (-61.68)	7/10/2012	844556.20	253641.90	-64.11	0.21	14.67	Deleted
BH-582 (-71.68)	7/10/2012	844555.90	253641.90	-73.54	0.21	14.67	Deleted
BH-582 (-81.68)	7/11/2012	844656.10	253629.00	-82.95	0.21	14.68	Deleted
BH-582 (-91.68)	7/11/2012	844656.00	253628.90	-92.49	0.21	14.68	Deleted
BH-582 (-101.68)	7/11/2012	844929.30	253596.10	-102.06	0.21	14.68	Deleted
BH-582 (-111.68)	7/12/2012	844929.60	253596.10	-111.93	0.21	14.68	Deleted
BH-582 (-121.68)	7/12/2012	844929.60	253596.00	-121.79	0.21	14.68	Deleted
BH-583 (23.40)	7/13/2012	844304.30	253602.80	13.20	0.21	14.68	Deleted

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BH-583 (13.40)	7/13/2012	844302.20	253602.40	4.47	0.21	14.68	Deleted
BH-583 (5.90)	7/13/2012	844320.20	253599.40	-2.31	0.21	14.68	Deleted
BH-583 (-4.10)	7/16/2012	844404.60	253587.50	-10.82	0.21	14.69	Deleted
BH-583 (-14.10)	7/16/2012	844404.40	253587.40	-20.20	0.21	14.69	Deleted
BH-583 (-24.10)	7/16/2012	844404.00	253587.40	-29.54	0.21	14.69	Deleted
BH-583 (-34.10)	7/16/2012	844403.70	253587.30	-38.87	0.21	14.69	Deleted
BH-583 (-44.10)	7/16/2012	844286.70	253603.20	-48.44	0.21	14.69	Deleted
BH-583 (-54.10)	7/16/2012	844286.50	253603.20	-57.48	0.21	14.69	Deleted
BH-583 (-64.10)	7/16/2012	844499.50	253574.60	-66.42	0.21	14.69	Deleted
BH-583 (-74.10)	7/17/2012	844501.10	253574.30	-75.83	0.21	14.69	Deleted
BH-583 (-84.10)	7/17/2012	844596.80	253562.30	-85.26	0.21	14.69	Deleted
BH-583 (-94.10)	7/17/2012	844596.70	253562.30	-94.80	0.21	14.69	Deleted
BH-583 (-104.10)	7/18/2012	844863.90	253531.10	-104.45	0.21	14.70	Deleted
BH-583 (-114.10)	7/18/2012	844863.80	253531.10	-114.32	0.21	14.70	Deleted
BH-583 (-124.10)	7/18/2012	844863.80	253531.10	-124.18	0.21	14.70	Deleted
BH-597 (25.60)	1/22/2013	849677.80	253033.20	20.61	0.24	15.21	Deleted
BH-597 (15.60)	1/22/2013	849679.00	253033.40	11.53	0.24	15.21	Deleted
BH-597 (5.60)	1/22/2013	849679.40	253033.40	2.16	0.24	15.21	Deleted
BH-597 (-4.40)	1/23/2013	849719.00	253018.80	-7.38	0.24	15.21	Deleted
BH-597 (-14.40)	1/23/2013	849718.00	253017.80	-17.10	0.24	15.21	Deleted
BH-597 (-24.40)	1/23/2013	849717.00	253016.80	-26.82	0.24	15.21	Deleted
BH-597 (-34.40)	1/23/2013	849715.90	253016.00	-36.52	0.24	15.21	Deleted
BH-597 (-44.40)	1/23/2013	849722.80	253012.90	-46.20	0.24	15.21	Deleted
BH-597 (-54.40)	1/23/2013	849722.10	253012.30	-55.89	0.24	15.21	Deleted
BH-597 (-64.40)	1/23/2013	849729.50	253009.70	-65.57	0.24	15.21	Deleted
BH-597 (-74.40)	1/23/2013	849729.10	253009.30	-75.26	0.24	15.21	Deleted
BH-597 (-84.40)	1/24/2013	849753.10	253002.90	-85.00	0.24	15.22	Deleted
BH-597 (-94.40)	1/24/2013	849753.00	253002.80	-94.81	0.24	15.22	Deleted
BH-597 (-104.40)	1/24/2013	849768.00	252998.70	-104.66	0.24	15.22	Deleted
BH-597 (-114.40)	1/24/2013	849767.90	252998.40	-114.55	0.24	15.22	Deleted
BH-597 (-124.40)	1/24/2013	849767.90	252998.30	-124.45	0.24	15.22	Deleted
BH-598 (2.21)	2/4/2013	844265.40	253664.50	-0.64	0.24	15.25	Deleted
BH-598 (-7.79)	2/4/2013	844279.40	253662.10	-10.09	0.24	15.25	Deleted
BH-598 (-17.79)	2/5/2013	844281.20	253661.60	-19.71	0.24	15.25	Deleted
BH-598 (-27.79)	2/5/2013	844280.90	253661.60	-29.41	0.24	15.25	Deleted
BH-598 (-37.79)	2/5/2013	844280.60	253661.50	-39.14	0.24	15.25	Deleted
BH-598 (-47.79)	2/5/2013	844259.50	253664.50	-48.85	0.24	15.25	Deleted
BH-598 (-57.79)	2/5/2013	844259.50	253664.50	-58.54	0.24	15.25	Deleted
BH-598 (-67.79)	2/5/2013	844297.80	253658.90	-68.33	0.24	15.25	Deleted
BH-598 (-77.79)	2/6/2013	844299.70	253658.60	-78.15	0.24	15.25	Deleted
BH-598 (-87.79)	2/6/2013	844316.70	253656.20	-88.02	0.24	15.25	Deleted
BH-598 (-97.79)	2/6/2013	844316.70	253656.20	-97.91	0.24	15.25	Deleted
BH-598 (-107.79)	2/6/2013	844364.20	253649.40	-107.86	0.24	15.25	Deleted
DP-551 (17.70)	1/25/2011	846856.30	253532.00	2.55	0.15	13.22	Deleted
DP-551 (7.70)	1/25/2011	846986.00	253516.80	-4.67	0.15	13.22	Deleted
DP-551 (-2.30)	1/25/2011	847359.40	253473.20	-9.96	0.15	13.22	Deleted

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DP-551 (-12.30)	1/25/2011	847366.20	253473.40	-16.00	0.15	13.22	Deleted
DP-551 (-22.30)	1/25/2011	847375.90	253472.70	-21.83	0.15	13.22	Deleted
DP-551 (-32.30)	1/25/2011	847388.40	253471.30	-27.43	0.15	13.22	Deleted
DP-551 (-42.30)	1/25/2011	846891.70	253530.40	-35.47	0.15	13.22	Deleted
DP-551 (-52.30)	1/26/2011	846720.30	253548.70	-43.19	0.15	13.22	Deleted
DP-552 (16.89)	1/26/2011	846836.60	253588.90	2.22	0.15	13.22	Deleted
DP-552 (6.89)	1/26/2011	846979.50	253572.20	-4.82	0.15	13.22	Deleted
DP-552 (-3.11)	1/26/2011	847336.20	253528.90	-9.92	0.15	13.22	Deleted
DP-552 (-13.11)	1/26/2011	847341.40	253529.20	-15.97	0.15	13.22	Deleted
DP-552 (-23.11)	1/27/2011	847352.70	253528.50	-21.87	0.15	13.22	Deleted
DP-552 (-33.11)	1/27/2011	847364.70	253527.60	-27.66	0.15	13.22	Deleted
DP-552 (-43.11)	1/28/2011	846880.10	253587.90	-36.66	0.15	13.22	Deleted
DP-552 (-53.11)	1/28/2011	846704.70	253608.10	-45.42	0.15	13.22	Deleted
DP-552 (-63.11)	1/28/2011	847657.80	253464.80	-57.85	0.15	13.22	Deleted
DP-553 (17.43)	1/31/2011	846825.30	253631.70	2.79	0.15	13.23	Deleted
DP-553 (7.43)	1/31/2011	846909.20	253621.90	-4.61	0.15	13.23	Deleted
DP-553 (-2.57)	2/1/2011	847318.90	253571.30	-9.20	0.15	13.24	Deleted
DP-553 (-12.57)	2/1/2011	847325.90	253571.60	-15.17	0.15	13.24	Deleted
DP-553 (-22.57)	2/1/2011	847334.70	253571.40	-21.00	0.15	13.24	Deleted
DP-553 (-32.57)	2/1/2011	847346.60	253571.30	-26.70	0.15	13.24	Deleted
DP-554 (22.45)	2/3/2011	846940.90	253773.00	6.10	0.15	13.24	Deleted
DP-554 (12.45)	2/3/2011	846968.10	253770.70	-1.90	0.15	13.24	Deleted
DP-554 (2.45)	2/4/2011	847366.90	253719.70	-6.74	0.15	13.24	Deleted
DP-554 (-7.55)	2/4/2011	847472.10	253707.50	-12.85	0.15	13.24	Deleted
DP-554 (-17.55)	2/4/2011	847485.50	253708.60	-18.96	0.15	13.24	Deleted
DP-554 (-27.55)	2/4/2011	847496.00	253709.50	-24.90	0.15	13.24	Deleted
DP-554 (-37.55)	2/4/2011	847080.50	253778.20	-35.23	0.15	13.24	Deleted
DP-554 (-42.55)	3/1/2011	847008.10	253788.30	-40.21	0.15	13.31	Deleted
DP-554 (-52.55)	3/1/2011	846865.80	253808.60	-53.65	0.15	13.31	Deleted
DP-554 (-62.55)	3/2/2011	847559.60	253749.20	-57.98	0.13	13.32	Deleted
DP-554 (-72.55)	3/2/2011	847431.70	253719.80	-76.42	0.23	13.32	Deleted
DP-554 (-82.55)	3/3/2011	847691.40	253674.00	-84.43	0.09	13.32	Deleted
DP-554 (-92.55)	3/3/2011	847689.80	253672.70	-93.54	0.15	13.32	Deleted
DP-554 (-102.55)	3/3/2011	848405.30	253561.10	-103.11	0.15	13.32	Deleted
DP-554 (-112.55)	3/4/2011	848403.70	253560.50	-112.75	0.15	13.32	Deleted
DP-554 (-122.55)	3/4/2011	848402.50	253560.30	-122.60	0.15	13.32	Deleted
DP-555 (24.80)	2/9/2011	846985.00	253828.50	7.66	0.15	13.26	Deleted
DP-555 (14.80)	2/9/2011	846996.00	253828.00	-0.77	0.15	13.26	Deleted
DP-555 (4.80)	2/10/2011	847302.50	253791.20	-6.97	0.15	13.26	Deleted
DP-555 (-5.20)	2/10/2011	847520.40	253762.10	-12.64	0.15	13.26	Deleted
DP-555 (-15.20)	2/10/2011	847533.30	253762.50	-19.18	0.15	13.26	Deleted
DP-555 (-25.20)	2/10/2011	847545.80	253763.60	-25.67	0.15	13.26	Deleted
DP-555 (-35.20)	2/10/2011	847217.30	253816.50	-37.16	0.15	13.26	Deleted
DP-555 (-45.20)	2/10/2011	846841.60	253860.60	-49.42	0.15	13.26	Deleted
DP-556 (27.38)	2/16/2011	846431.20	253815.30	7.61	0.15	13.28	Deleted
DP-556 (17.38)	2/16/2011	846435.10	253815.60	-0.37	0.15	13.28	Deleted

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
DP-556 (7.38)	2/16/2011	846532.60	253806.50	-8.06	0.15	13.28	Deleted
DP-556 (-2.62)	2/16/2011	846809.70	253777.10	-12.44	0.15	13.28	Deleted
DP-556 (-12.62)	2/17/2011	846816.30	253779.20	-18.52	0.15	13.28	Deleted
DP-556 (-22.62)	2/17/2011	846821.70	253780.80	-24.55	0.15	13.28	Deleted
DP-556 (-29.62)	2/17/2011	846824.80	253782.80	-28.75	0.15	13.28	Deleted
DP-556 (-38.62)	3/17/2011	846886.30	253776.70	-32.59	0.15	13.36	Deleted
DP-556 (-48.62)	3/17/2011	846547.30	253818.60	-48.64	0.17	13.36	Deleted
DP-556 (-88.62)	3/21/2011	847241.70	253715.40	-89.98	0.15	13.37	Deleted
DP-556 (-98.62)	3/21/2011	847240.70	253713.30	-99.19	0.22	13.37	Deleted
DP-556 (-108.62)	3/21/2011	847935.40	253610.70	-108.55	0.17	13.37	Deleted
DP-556 (-118.62)	3/22/2011	847936.20	253610.30	-118.60	0.08	13.37	Deleted
DP-556 (-128.62)	3/22/2011	847936.20	253610.10	-128.62	0.15	13.37	Deleted
DP-557 (27.69)	2/18/2011	845955.40	254008.20	6.39	0.15	13.28	Deleted
DP-557 (17.69)	2/18/2011	845980.10	254005.20	-1.74	0.15	13.28	Deleted
DP-557 (7.69)	2/18/2011	846098.10	253992.20	-9.99	0.15	13.28	Deleted
DP-557 (-2.31)	2/18/2011	846231.20	253977.70	-17.97	0.15	13.28	Deleted
DP-557 (-12.31)	2/18/2011	846230.00	253977.10	-26.31	0.15	13.28	Deleted
DP-557 (-22.31)	2/21/2011	846235.00	253975.50	-34.61	0.15	13.29	Deleted
DP-557 (-32.31)	2/22/2011	846158.50	253981.70	-42.95	0.15	13.29	Deleted
DP-557 (-42.31)	2/22/2011	845901.70	254007.10	-51.44	0.15	13.29	Deleted
DP-557 (-46.81)	2/22/2011	845901.70	254006.30	-55.13	0.15	13.29	Deleted
DP-557 (-60.81)	3/24/2011	846508.90	253935.90	-66.13	0.16	13.38	Deleted
DP-557 (-68.31)	4/1/2011	846571.10	253928.50	-71.54	0.16	13.40	Deleted
DP-557 (-78.31)	4/1/2011	846602.40	253929.00	-80.38	0.16	13.40	Deleted
DP-557 (-88.31)	4/4/2011	846826.60	253905.20	-89.55	0.16	13.41	Deleted
DP-557 (-98.31)	4/4/2011	846825.60	253904.40	-98.93	0.16	13.41	Deleted
DP-557 (-108.31)	4/5/2011	847517.80	253815.80	-108.58	0.16	13.41	Deleted
DP-557 (-118.31)	4/5/2011	847516.50	253813.60	-118.45	0.16	13.41	Deleted
DP-557 (-128.31)	4/7/2011	847516.80	253812.50	-128.33	0.16	13.41	Deleted
DP-558 (32.15)	2/25/2011	846007.80	253804.20	9.40	0.15	13.30	Deleted
DP-558 (22.15)	2/25/2011	846007.60	253804.10	1.40	0.15	13.30	Deleted
DP-558 (12.15)	2/25/2011	846074.60	253797.70	-6.79	0.15	13.30	Deleted
DP-558 (2.15)	2/25/2011	846180.50	253788.60	-14.49	0.15	13.30	Deleted
DP-558 (-7.85)	2/28/2011	846287.50	253780.40	-20.85	0.15	13.31	Deleted
DP-558 (-17.85)	2/28/2011	846286.60	253781.50	-28.78	0.15	13.31	Deleted
DP-558 (-23.85)	2/28/2011	846288.50	253781.40	-33.49	0.15	13.31	Deleted
DP-558 (-26.85)	4/26/2011	846410.30	253771.10	-33.37	0.16	13.47	Deleted
DP-558 (-36.85)	4/26/2011	846403.30	253773.80	-41.33	0.15	13.47	Deleted
DP-558 (-46.85)	4/28/2011	846275.10	253784.10	-51.27	0.17	13.47	Deleted
DP-558 (-56.85)	4/28/2011	846138.20	253777.20	-59.12	0.22	13.47	Deleted
DP-558 (-86.85)	4/29/2011	846898.70	253698.20	-89.40	0.18	13.47	Deleted
DP-558 (-96.85)	5/3/2011	846903.90	253696.80	-98.03	0.15	13.48	Deleted
DP-558 (-106.85)	5/3/2011	847571.80	253611.00	-107.62	0.07	13.48	Deleted
DP-558 (-116.85)	5/4/2011	847570.60	253609.80	-117.20	0.16	13.49	Deleted
DP-558 (-126.85)	5/5/2011	847570.40	253609.30	-126.93	0.16	13.49	Deleted
MW-114M1	12/23/2010	857440.50	253541.30	-26.90	0.20	13.13	Deleted

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-114M1	4/12/2011	857530.90	253548.00	-30.46	0.16	13.43	Deleted
MW-114M1	12/15/2011	857657.20	253580.10	-33.16	0.18	14.10	Deleted
MW-114M1	4/25/2012	857710.50	253599.00	-33.88	0.20	14.47	Deleted
MW-114M2	4/12/2011	857405.40	253546.90	16.30	0.16	13.43	Deleted
MW-114M2	12/15/2011	857609.70	253565.00	18.03	0.18	14.10	Deleted
MW-114M2	4/25/2012	857680.10	253586.20	18.93	0.20	14.47	Deleted
MW-129M1	5/3/2011	857585.00	253437.30	-6.28	0.16	13.48	Deleted
MW-129M1	5/3/2012	857750.60	253447.70	-5.58	0.20	14.49	Deleted
MW-129M2	12/27/2010	857477.10	253448.40	10.46	0.15	13.14	Deleted
MW-129M2	5/3/2011	857565.10	253437.20	10.62	0.16	13.48	Deleted
MW-129M2	12/13/2011	857681.80	253439.70	11.85	0.18	14.10	Deleted
MW-129M2	5/3/2012	857744.50	253445.50	12.88	0.20	14.49	Deleted
MW-129M3	5/3/2011	857525.30	253440.70	27.18	0.16	13.48	Deleted
MW-129M3	5/3/2012	857733.20	253445.30	31.16	0.20	14.49	Deleted
MW-139M1	4/25/2012	856946.00	253493.00	-38.12	0.20	14.47	Deleted
MW-139M2	4/28/2011	856747.30	253446.80	-17.70	0.16	13.47	Deleted
MW-139M2	12/28/2011	856762.60	253451.30	-7.20	0.18	14.14	Deleted
MW-139M2	4/25/2012	856927.10	253493.90	-4.25	0.20	14.47	Deleted
MW-139M3	4/28/2011	856747.30	253446.80	-18.77	0.16	13.47	Deleted
MW-165 (23.15)	4/12/2001	853855.60	252917.30	-9.10	0.12	3.43	Deleted
MW-165 (-86.85)	4/13/2001	855456.60	253238.50	-75.64	0.12	3.43	Deleted
MW-165 (-96.85)	4/13/2001	855520.60	253248.10	-87.07	0.12	3.43	Deleted
MW-165 (-106.85)	4/13/2001	855904.60	253280.60	-97.08	0.12	3.43	Deleted
MW-165M2	3/29/2012	856747.30	253446.80	-16.95	0.20	14.39	Deleted
MW-172 (16.08)	5/31/2001	854230.00	253078.40	-10.90	0.12	3.56	Deleted
MW-172 (-83.92)	6/4/2001	855320.20	253118.10	-66.65	0.12	3.57	Deleted
MW-172 (-93.92)	6/4/2001	855461.70	253090.80	-83.82	0.12	3.57	Deleted
MW-172 (-103.92)	6/4/2001	855740.80	253115.90	-97.50	0.12	3.57	Deleted
MW-172M2	4/13/2007	855639.90	253209.80	-52.50	0.12	9.43	Deleted
MW-172M2	4/18/2008	855949.30	253243.80	-52.70	0.12	10.45	Deleted
MW-172M2	5/7/2009	856152.60	253234.80	-52.21	0.12	11.50	Deleted
MW-172M2	4/14/2010	856311.40	253218.20	-51.54	0.13	12.43	Deleted
MW-172M2	4/27/2011	856471.30	253189.50	-50.26	0.16	13.47	Deleted
MW-172M3	5/7/2009	856068.70	253373.50	-3.76	0.12	11.50	Deleted
MW-172M3	4/14/2010	856133.50	253345.30	-0.63	0.13	12.43	Deleted
MW-172M3	4/27/2011	856365.10	253317.40	3.25	0.16	13.47	Deleted
MW-173 (52.58)	6/14/2001	847193.30	254037.80	-38.75	0.12	3.60	Deleted
MW-173 (42.58)	6/14/2001	847214.40	254030.50	-44.02	0.12	3.60	Deleted
MW-173 (32.58)	6/14/2001	847722.10	253948.30	-48.34	0.12	3.60	Deleted
MW-173 (22.58)	6/14/2001	848169.80	253856.30	-57.93	0.12	3.60	Deleted
MW-173 (12.58)	6/15/2001	848910.20	253682.80	-60.02	0.12	3.60	Deleted
MW-173 (2.58)	6/15/2001	849763.30	253567.40	-51.49	0.12	3.60	Deleted
MW-173 (-7.42)	6/15/2001	852739.00	253218.80	-36.52	0.12	3.60	Deleted
MW-173 (-17.42)	6/15/2001	851802.20	253236.00	-47.44	0.12	3.60	Deleted
MW-173 (-27.42)	6/18/2001	851295.40	253274.70	-52.17	0.12	3.61	Deleted
MW-173 (-47.42)	6/18/2001	850216.00	253481.70	-67.64	0.12	3.61	Deleted

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Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-173 (-57.42)	6/18/2001	850538.80	253425.40	-72.44	0.12	3.61	Deleted
MW-173 (-67.42)	6/19/2001	850574.60	253419.50	-79.01	0.12	3.61	Deleted
MW-173 (-77.42)	6/19/2001	851741.00	253282.20	-83.09	0.12	3.61	Deleted
MW-173 (-87.42)	6/19/2001	851928.20	253262.90	-91.74	0.12	3.61	Deleted
MW-173 (-97.42)	6/19/2001	852447.30	253228.00	-100.14	0.12	3.61	Deleted
MW-173 (-107.42)	6/19/2001	852735.10	253203.80	-111.04	0.12	3.61	Deleted
MW-173 (-117.42)	6/19/2001	852736.70	253200.80	-120.38	0.12	3.61	Deleted
MW-173 (-127.42)	6/20/2001	852861.40	253189.30	-130.88	0.12	3.62	Deleted
MW-173M1	7/18/2001	850537.10	253425.80	-71.00	0.12	3.69	Deleted
MW-173M1	11/8/2001	850642.60	253408.10	-70.36	0.12	4.00	Deleted
MW-173M1	1/25/2002	850714.90	253396.40	-69.93	0.12	4.22	Deleted
MW-173M1	4/23/2002	850795.50	253383.50	-69.44	0.12	4.46	Deleted
MW-173M1	9/3/2002	850916.60	253364.60	-68.70	0.12	4.82	Deleted
MW-173M1	11/14/2002	850981.60	253354.60	-68.28	0.12	5.02	Deleted
MW-173M1	5/28/2003	851155.30	253327.90	-67.10	0.12	5.55	Deleted
MW-173M1	4/19/2004	851375.60	253284.70	-64.76	0.12	6.45	Deleted
MW-173M1	4/18/2005	851616.60	253246.10	-62.08	0.12	7.45	Deleted
MW-173M1	4/10/2006	851901.00	253223.10	-60.47	0.12	8.42	Deleted
MW-173M1	4/10/2007	852200.80	253202.30	-59.44	0.12	9.42	Deleted
MW-173M2	7/19/2001	853209.70	253154.80	-45.82	0.12	3.70	Deleted
MW-173M2	11/8/2001	853503.00	253152.50	-43.20	0.12	4.00	Deleted
MW-173M2	1/25/2002	853694.40	253158.40	-41.57	0.12	4.22	Deleted
MW-173M2	4/19/2002	853881.80	253172.60	-39.94	0.12	4.45	Deleted
MW-173M2	8/9/2002	853882.30	253172.40	-38.70	0.12	4.75	Deleted
MW-173M2	11/14/2002	853882.80	253172.20	-37.62	0.12	5.02	Deleted
MW-173M2	5/28/2003	853883.70	253171.90	-35.45	0.12	5.55	Deleted
MW-173M2	4/19/2004	853885.20	253171.40	-31.81	0.12	6.45	Deleted
MW-173M2	4/18/2005	853886.70	253171.30	-29.45	0.12	7.45	Deleted
MW-173M2	4/10/2006	853888.00	253171.70	-28.35	0.12	8.42	Deleted
MW-173M2	4/10/2007	853889.40	253172.10	-27.25	0.12	9.42	Deleted
MW-173M3	7/19/2001	849990.10	253511.30	-51.14	0.12	3.70	Deleted
MW-173M3	11/8/2001	850120.60	253485.60	-49.55	0.12	4.00	Deleted
MW-173M3	1/25/2002	850208.00	253468.00	-48.57	0.12	4.22	Deleted
MW-173M3	4/19/2002	850300.40	253449.40	-47.59	0.12	4.45	Deleted
MW-173M3	8/9/2002	850421.10	253425.00	-46.35	0.12	4.75	Deleted
MW-173M3	11/15/2002	850524.80	253404.00	-45.26	0.12	5.02	Deleted
MW-173M3	5/27/2003	850724.30	253361.50	-43.09	0.12	5.55	Deleted
MW-173M3	4/19/2004	851105.10	253240.40	-39.62	0.12	6.45	Deleted
MW-173M3	4/18/2005	851491.40	253143.90	-36.45	0.12	7.45	Deleted
MW-173M3	4/11/2006	851843.80	253115.30	-33.09	0.12	8.43	Deleted
MW-173M3	4/10/2007	852196.50	253089.50	-31.82	0.12	9.42	Deleted
MW-175 (49.43)	7/17/2001	847168.20	254281.10	-37.94	0.12	3.69	Deleted
MW-175 (39.43)	7/18/2001	847143.10	254282.10	-43.81	0.12	3.69	Deleted
MW-175 (29.43)	7/18/2001	847566.30	254210.80	-47.67	0.12	3.69	Deleted
MW-175 (19.43)	7/18/2001	847899.00	254172.50	-54.73	0.12	3.69	Deleted
MW-175 (9.43)	7/18/2001	850016.60	253794.10	-42.12	0.12	3.69	Deleted

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MW-175 (-0.57)	7/18/2001	849843.90	253793.90	-53.39	0.12	3.69	Deleted
MW-175 (-10.57)	7/19/2001	852734.50	253460.10	-38.17	0.12	3.70	Deleted
MW-175 (-30.57)	7/19/2001	850812.00	253630.10	-57.38	0.12	3.70	Deleted
MW-175 (-40.57)	7/19/2001	850047.90	253778.70	-62.85	0.12	3.70	Deleted
MW-175 (-50.57)	7/19/2001	850184.30	253753.30	-68.85	0.12	3.70	Deleted
MW-175 (-60.57)	7/19/2001	850521.40	253693.00	-74.07	0.12	3.70	Deleted
MW-175 (-70.57)	7/19/2001	850594.20	253681.30	-80.79	0.12	3.70	Deleted
MW-175 (-80.57)	7/19/2001	851893.30	253521.30	-85.55	0.12	3.70	Deleted
MW-175 (-90.57)	7/19/2001	851893.80	253520.70	-93.84	0.12	3.70	Deleted
MW-175 (-100.57)	7/20/2001	852699.90	253458.70	-103.54	0.12	3.70	Deleted
MW-175 (-110.57)	7/20/2001	852704.80	253455.00	-112.60	0.12	3.70	Deleted
MW-175 (-120.57)	7/20/2001	852707.80	253452.90	-121.71	0.12	3.70	Deleted
MW-175 (-130.57)	7/20/2001	853048.90	253437.40	-131.00	0.12	3.70	Deleted
MW-175M1	8/22/2001	851910.50	253519.30	-88.82	0.12	3.79	Deleted
MW-175M1	11/7/2001	851948.80	253514.80	-88.70	0.12	4.00	Deleted
MW-175M1	1/28/2002	851989.30	253510.10	-88.58	0.12	4.23	Deleted
MW-175M1	4/18/2002	852028.80	253505.40	-88.47	0.12	4.44	Deleted
MW-175M1	8/12/2002	852085.90	253498.60	-88.34	0.12	4.76	Deleted
MW-175M1	11/15/2002	852132.50	253492.90	-88.23	0.12	5.02	Deleted
MW-175M2	8/14/2001	851658.70	253499.50	-50.50	0.12	3.77	Deleted
MW-175M2	11/8/2001	851738.40	253492.10	-49.90	0.12	4.00	Deleted
MW-175M2	1/28/2002	851812.30	253485.60	-49.35	0.12	4.23	Deleted
MW-175M2	4/18/2002	851884.60	253479.60	-48.81	0.12	4.44	Deleted
MW-175M2	8/13/2002	851989.60	253471.40	-48.19	0.12	4.76	Deleted
MW-175M2	11/15/2002	852074.30	253465.20	-47.88	0.12	5.02	Deleted
MW-175M2	4/8/2005	852805.80	253426.10	-46.36	0.12	7.42	Deleted
MW-175M3	8/15/2001	847941.30	254165.40	-54.77	0.12	3.77	Deleted
MW-175M3	11/8/2001	848145.50	254130.20	-57.69	0.12	4.00	Deleted
MW-175M3	1/28/2002	848366.30	254092.60	-60.00	0.12	4.23	Deleted
MW-175M3	4/18/2002	848593.20	254057.20	-60.19	0.12	4.44	Deleted
MW-175M3	8/13/2002	848897.00	254018.40	-58.68	0.12	4.76	Deleted
MW-175M3	11/15/2002	849167.80	253992.10	-54.49	0.12	5.02	Deleted
MW-186 (50.86)	10/25/2001	847307.10	254424.50	-38.22	0.12	3.97	Deleted
MW-186 (40.86)	10/24/2001	847241.00	254428.60	-44.06	0.12	3.96	Deleted
MW-186 (30.86)	10/25/2001	847603.90	254376.00	-48.42	0.12	3.97	Deleted
MW-186 (20.86)	10/25/2001	847920.80	254331.90	-54.43	0.12	3.97	Deleted
MW-186 (10.86)	10/25/2001	848964.30	254162.20	-62.81	0.12	3.97	Deleted
MW-186 (0.86)	10/25/2001	849892.50	253977.50	-52.04	0.12	3.97	Deleted
MW-186 (-9.14)	10/25/2001	852581.60	253637.40	-36.90	0.12	3.97	Deleted
MW-186 (-19.14)	10/25/2001	851518.50	253691.10	-52.78	0.12	3.97	Deleted
MW-186 (-39.14)	10/26/2001	850212.60	253920.30	-61.35	0.12	3.97	Deleted
MW-186 (-49.14)	10/26/2001	850255.20	253917.70	-67.40	0.12	3.97	Deleted
MW-186 (-59.14)	10/26/2001	850602.60	253859.80	-72.64	0.12	3.97	Deleted
MW-186 (-69.14)	10/26/2001	850614.40	253857.80	-79.44	0.12	3.97	Deleted
MW-186 (-79.14)	10/26/2001	851891.20	253700.60	-83.93	0.12	3.97	Deleted
MW-186 (-89.14)	10/26/2001	851954.50	253693.00	-92.43	0.12	3.97	Deleted

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-186 (-99.14)	10/26/2001	852645.70	253640.30	-100.85	0.12	3.97	Deleted
MW-186 (-109.14)	10/29/2001	852751.70	253626.70	-110.73	0.12	3.98	Deleted
MW-186 (-129.14)	10/29/2001	852757.40	253621.80	-128.73	0.12	3.98	Deleted
MW-186 (-139.14)	10/29/2001	853525.70	253601.10	-137.90	0.12	3.98	Deleted
MW-186M1	1/24/2002	851335.30	253709.70	-54.92	0.12	4.21	Deleted
MW-186M1	4/8/2002	851390.70	253702.30	-54.54	0.12	4.42	Deleted
MW-186M1	7/30/2002	851474.50	253692.20	-53.97	0.12	4.73	Deleted
MW-186M2	1/23/2002	852667.30	253634.70	-32.66	0.12	4.21	Deleted
MW-186M2	4/8/2002	852715.50	253634.40	-32.00	0.12	4.42	Deleted
MW-186M2	7/29/2002	852782.70	253634.50	-31.12	0.12	4.72	Deleted
MW-19D (-23.18)	2/3/1998	858250.00	253590.80	38.54	0.12	0.24	Deleted
MW-19D (-35.18)	2/3/1998	858249.90	253590.80	5.64	0.12	0.24	Deleted
MW-19D (-43.18)	2/3/1998	858557.60	253751.90	-65.08	0.12	0.24	Deleted
MW-19D (-55.18)	2/4/1998	858704.90	253801.50	-75.30	0.12	0.24	Deleted
MW-19D (-63.18)	2/4/1998	858857.40	253851.80	-81.39	0.12	0.24	Deleted
MW-19D (-75.18)	2/4/1998	859142.40	253942.00	-90.86	0.12	0.24	Deleted
MW-19D (-83.18)	2/4/1998	859247.10	253974.40	-96.93	0.12	0.24	Deleted
MW-19D (-83.18)	2/4/1998	859247.10	253974.40	-96.93	0.12	0.24	Deleted
MW-19D (-95.18)	2/4/1998	859561.90	254076.00	-106.33	0.12	0.24	Deleted
MW-19D (-103.18)	2/4/1998	859726.20	254128.00	-113.34	0.12	0.24	Deleted
MW-19D (-115.18)	2/6/1998	859727.50	254128.40	-123.33	0.12	0.25	Deleted
MW-19D (-123.18)	2/6/1998	859728.10	254128.60	-129.99	0.12	0.25	Deleted
MW-19D (-135.18)	2/6/1998	859953.90	254202.30	-140.95	0.12	0.25	Deleted
MW-19D (-135.18)	2/6/1998	859953.90	254202.30	-140.95	0.12	0.25	Deleted
MW-19D (-143.18)	2/6/1998	859965.00	254206.40	-148.32	0.12	0.25	Deleted
MW-19D (-155.18)	2/12/1998	859965.30	254206.50	-159.43	0.12	0.27	Deleted
MW-19D (-163.18)	2/12/1998	859965.30	254206.50	-166.84	0.12	0.27	Deleted
MW-19D (-163.18)	2/12/1998	859965.30	254206.50	-166.84	0.12	0.27	Deleted
MW-19D (-175.18)	2/13/1998	859965.40	254206.50	-177.95	0.12	0.27	Deleted
MW-19D (-186.68)	3/4/1998	859966.40	254206.90	-188.60	0.19	0.32	Deleted
MW-19D	7/17/1998	859973.60	254209.20	-188.57	0.12	0.69	Deleted
MW-19D	2/11/1999	859984.70	254212.80	-188.52	0.12	1.26	Deleted
MW-19D	9/15/1999	859996.20	254216.60	-188.47	0.12	1.85	Deleted
MW-19D	8/8/2000	860013.60	254222.20	-188.40	0.12	2.75	Deleted
MW-19D	7/30/2001	860032.50	254228.40	-188.32	0.12	3.73	Deleted
MW-19D	4/23/2002	860046.60	254232.90	-188.25	0.12	4.46	Deleted
MW-19D	9/27/2003	860074.20	254241.90	-188.13	0.12	5.89	Deleted
MW-19S	2/8/2006	858960.10	253877.00	18.04	4.58	8.26	Deleted
MW-20	11/7/1997	851137.20	254389.20	-30.68	0.12	0.00	Deleted
MW-20	2/12/1999	851697.50	254293.40	-25.42	0.12	1.27	Deleted
MW-20	9/10/1999	851894.00	254258.80	-22.65	0.12	1.84	Deleted
MW-210 (-18.46)	3/22/2002	853762.50	253101.80	-43.93	0.12	4.37	Deleted
MW-210 (-28.46)	3/22/2002	853550.10	253099.50	-51.88	0.12	4.37	Deleted
MW-210 (-38.46)	3/22/2002	853747.40	253107.20	-55.14	0.12	4.37	Deleted
MW-210 (-48.46)	3/22/2002	853799.10	253117.20	-60.68	0.12	4.37	Deleted
MW-210 (-58.46)	3/25/2002	854035.80	253132.00	-63.46	0.12	4.38	Deleted

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-210 (-68.46)	3/25/2002	854089.00	253135.50	-69.71	0.12	4.38	Deleted
MW-210 (-78.46)	3/25/2002	854466.10	253147.80	-53.99	0.12	4.38	Deleted
MW-210 (-98.46)	3/25/2002	854632.80	253156.40	-78.82	0.12	4.38	Deleted
MW-210 (-108.46)	3/25/2002	855143.80	253173.90	-93.78	0.12	4.38	Deleted
MW-210 (-118.46)	3/25/2002	855264.60	253179.60	-109.64	0.12	4.38	Deleted
MW-210 (-128.46)	3/25/2002	855264.20	253179.40	-122.80	0.12	4.38	Deleted
MW-210 (-138.46)	3/25/2002	855754.20	253203.30	-134.59	0.12	4.38	Deleted
MW-210 (-148.46)	3/25/2002	855758.90	253202.70	-146.00	0.12	4.38	Deleted
MW-210M1	6/6/2002	853882.50	253116.40	-55.92	0.12	4.58	Deleted
MW-210M1	4/19/2011	855461.20	253188.80	-39.17	0.16	13.45	Deleted
MW-210M1	5/2/2012	855803.90	253212.30	-45.17	0.20	14.48	Deleted
MW-210M2	5/2/2012	855756.40	253213.20	-2.80	0.20	14.48	Deleted
MW-210M3	5/2/2012	855649.80	253208.40	28.92	0.20	14.48	Deleted
MW-211 (50.14)	4/10/2002	847827.30	253566.60	-43.28	0.12	4.42	Deleted
MW-211 (40.14)	4/10/2002	848297.50	253435.40	-55.19	0.12	4.42	Deleted
MW-211 (30.14)	4/10/2002	849284.30	253248.60	-56.35	0.12	4.42	Deleted
MW-211 (20.14)	4/10/2002	849284.30	253248.60	-55.96	0.12	4.42	Deleted
MW-211 (10.14)	4/10/2002	850367.10	253064.80	-37.73	0.12	4.42	Deleted
MW-211 (0.14)	4/11/2002	850376.50	253047.70	-47.17	0.12	4.43	Deleted
MW-211 (-9.86)	4/11/2002	853302.90	252832.60	-33.13	0.25	4.43	Deleted
MW-211 (-39.86)	4/12/2002	850505.60	253042.60	-59.49	0.12	4.43	Deleted
MW-211 (-49.86)	4/12/2002	850598.20	253031.40	-66.16	0.12	4.43	Deleted
MW-211 (-59.86)	4/15/2002	850909.00	252992.20	-72.02	0.12	4.44	Deleted
MW-211 (-79.86)	4/15/2002	852097.30	252894.50	-84.96	0.12	4.44	Deleted
MW-211 (-89.86)	4/15/2002	852108.30	252893.70	-93.69	0.12	4.44	Deleted
MW-211 (-99.86)	4/15/2002	852823.50	252858.90	-104.50	0.12	4.44	Deleted
MW-211 (-109.86)	4/16/2002	852837.10	252858.30	-113.88	0.12	4.44	Deleted
MW-211 (-119.86)	4/16/2002	852834.00	252857.20	-123.69	0.12	4.44	Deleted
MW-211 (-129.86)	4/16/2002	853112.00	252861.30	-135.97	0.12	4.44	Deleted
MW-211M1	6/6/2002	852877.50	252851.60	-39.35	0.12	4.58	Deleted
MW-211M1	10/28/2002	852858.80	252852.70	-38.57	0.12	4.97	Deleted
MW-211M1	2/28/2003	852835.20	252853.80	-38.00	0.12	5.31	Deleted
MW-211M2	6/6/2002	849284.30	253248.60	-53.89	0.12	4.58	Deleted
MW-211M2	10/29/2002	849334.50	253265.70	-47.63	0.12	4.98	Deleted
MW-211M2	2/28/2003	849571.00	253243.80	-42.48	0.12	5.31	Deleted
MW-211M2	2/4/2004	850106.60	253121.10	-31.58	0.12	6.24	Deleted
MW-211M2	5/21/2004	850500.60	253049.20	-30.19	0.12	6.54	Deleted
MW-211M3	6/6/2002	848161.50	253470.80	-52.52	0.12	4.58	Deleted
MW-211M3	10/28/2002	849284.30	253248.60	-54.42	0.12	4.97	Deleted
MW-211M3	2/28/2003	849284.30	253248.60	-50.75	0.12	5.31	Deleted
MW-211M3	5/21/2004	849876.60	253181.70	-19.51	0.12	6.54	Deleted
MW-214 (7.46)	4/29/2002	854081.20	252892.20	-10.49	0.12	4.47	Deleted
MW-214 (-2.54)	4/29/2002	854461.60	253035.70	-14.64	0.12	4.47	Deleted
MW-214 (-12.54)	4/29/2002	854499.30	253031.40	-17.91	0.12	4.47	Deleted
MW-214 (-22.54)	4/29/2002	854738.60	253050.30	-20.10	0.12	4.47	Deleted
MW-214 (-32.54)	4/30/2002	854500.10	253013.20	-44.45	0.12	4.48	Deleted

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-214 (-42.54)	4/30/2002	854577.00	253017.10	-48.47	0.12	4.48	Deleted
MW-214 (-52.54)	4/30/2002	854584.90	252989.60	-55.50	0.12	4.48	Deleted
MW-214 (-62.54)	4/30/2002	854686.20	252983.10	-60.58	0.12	4.48	Deleted
MW-214 (-72.54)	4/30/2002	854758.90	252954.70	-68.23	0.12	4.48	Deleted
MW-214 (-82.54)	4/30/2002	854912.80	252979.20	-71.25	0.12	4.48	Deleted
MW-214 (-92.54)	4/30/2002	855373.80	252891.20	-85.23	0.12	4.48	Deleted
MW-214 (-102.54)	4/30/2002	855495.30	252903.50	-95.64	0.12	4.48	Deleted
MW-214 (-112.54)	4/30/2002	855863.40	252869.30	-107.63	0.12	4.48	Deleted
MW-214 (-122.54)	4/30/2002	855860.70	252870.80	-117.02	0.12	4.48	Deleted
MW-214 (-132.54)	4/30/2002	856012.80	252912.90	-126.01	0.12	4.48	Deleted
MW-214 (-142.54)	4/30/2002	856373.40	252901.60	-136.85	0.12	4.48	Deleted
MW-214M1	6/21/2002	854600.60	252994.10	-56.21	0.12	4.62	Deleted
MW-214M1	11/4/2002	854686.30	253028.50	-52.97	0.12	4.99	Deleted
MW-214M1	2/5/2003	854740.40	253055.90	-50.00	0.12	5.25	Deleted
MW-214M2	6/21/2002	854661.20	253069.20	-19.38	0.12	4.62	Deleted
MW-214M3	6/21/2002	854374.30	253005.70	-12.80	0.12	4.62	Deleted
MW-214M3	11/4/2002	854538.60	253063.40	-12.06	0.12	4.99	Deleted
MW-214M3	2/6/2003	854755.80	253122.50	-11.95	0.12	5.25	Deleted
MW-221 (51.56)	5/14/2002	849847.60	252211.00	42.03	0.12	4.52	Deleted
MW-221 (41.56)	5/14/2002	849018.10	252246.50	-60.85	0.12	4.52	Deleted
MW-221 (31.56)	5/14/2002	849213.10	252261.00	-60.32	0.12	4.52	Deleted
MW-221 (21.56)	5/14/2002	849352.20	252264.50	-60.15	0.12	4.52	Deleted
MW-221 (11.56)	5/14/2002	849708.50	252283.70	-47.21	0.12	4.52	Deleted
MW-221 (1.56)	5/14/2002	850157.50	252254.80	-44.48	0.12	4.52	Deleted
MW-221 (-8.44)	5/14/2002	852778.70	252119.80	-43.31	0.12	4.52	Deleted
MW-221 (-18.44)	5/15/2002	851412.10	252240.90	-51.84	0.12	4.52	Deleted
MW-221 (-28.44)	5/15/2002	851248.60	252258.20	-54.03	0.12	4.52	Deleted
MW-221 (-38.44)	5/15/2002	850486.20	252240.60	-58.56	0.12	4.52	Deleted
MW-221 (-48.44)	5/15/2002	850469.20	252233.60	-64.86	0.12	4.52	Deleted
MW-221 (-58.44)	5/15/2002	850756.10	252223.20	-71.25	0.12	4.52	Deleted
MW-221 (-68.44)	5/16/2002	850776.10	252223.40	-78.36	0.12	4.52	Deleted
MW-221 (-78.44)	5/16/2002	851831.90	252177.10	-83.92	0.12	4.52	Deleted
MW-221 (-88.44)	5/16/2002	851942.70	252178.10	-92.81	0.12	4.52	Deleted
MW-221 (-98.44)	5/17/2002	852492.20	252152.70	-101.06	0.12	4.52	Deleted
MW-221 (-108.44)	5/17/2002	852668.00	252156.50	-111.03	0.12	4.52	Deleted
MW-221 (-118.44)	5/17/2002	852667.70	252156.00	-119.79	0.12	4.52	Deleted
MW-221 (-128.44)	5/17/2002	852669.60	252156.10	-128.62	0.12	4.52	Deleted
MW-221M1	7/30/2002	851741.00	252234.00	-50.02	0.12	4.73	Deleted
MW-221M1	11/1/2002	851824.10	252230.30	-49.49	0.12	4.98	Deleted
MW-221M1	2/10/2003	851914.10	252226.40	-49.11	0.12	5.26	Deleted
MW-221M2	7/30/2002	849498.30	252247.60	-54.45	0.12	4.73	Deleted
MW-221M2	11/1/2002	849597.10	252240.40	-48.02	0.12	4.98	Deleted
MW-221M2	2/10/2003	849688.70	252238.40	-41.20	0.12	5.26	Deleted
MW-221M3	7/30/2002	849166.80	252228.60	-57.28	0.12	4.73	Deleted
MW-221M3	11/1/2002	849301.70	252213.40	-51.89	0.12	4.98	Deleted
MW-221M3	2/10/2003	849430.80	252204.20	-44.22	0.12	5.26	Deleted

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Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-225 (52.28)	6/12/2002	846162.60	253655.40	-32.29	0.12	4.60	Deleted
MW-225 (42.28)	6/13/2002	846157.90	253653.60	-38.42	0.12	4.60	Deleted
MW-225 (32.28)	6/13/2002	845877.10	253660.20	-49.95	0.12	4.60	Deleted
MW-225 (12.28)	6/13/2002	846921.90	253512.00	-45.64	0.12	4.60	Deleted
MW-225 (2.28)	6/17/2002	848331.80	253382.30	-67.95	0.12	4.61	Deleted
MW-225 (-17.72)	6/17/2002	848740.90	253328.50	-74.11	0.12	4.61	Deleted
MW-225 (-27.72)	6/17/2002	848773.70	253324.30	-76.03	0.12	4.61	Deleted
MW-225 (-67.72)	6/18/2002	849564.90	253072.10	-85.27	0.12	4.61	Deleted
MW-225 (-77.72)	6/18/2002	850210.60	252918.10	-87.34	0.12	4.61	Deleted
MW-225 (-87.72)	6/18/2002	850764.00	252839.70	-92.61	0.12	4.61	Deleted
MW-225 (-97.72)	6/18/2002	850849.40	252830.10	-100.65	0.12	4.61	Deleted
MW-225 (-107.72)	6/18/2002	851557.00	252766.40	-107.72	0.12	4.61	Deleted
MW-225 (-117.72)	6/19/2002	851554.60	252762.50	-116.66	0.12	4.61	Deleted
MW-225 (-127.72)	6/19/2002	851556.30	252756.10	-125.32	0.12	4.61	Deleted
MW-225 (-137.72)	6/19/2002	852321.90	252702.20	-136.64	0.12	4.61	Deleted
MW-225M1	12/7/2004	849827.50	253006.10	-57.15	0.12	7.08	Deleted
MW-225M1	4/6/2005	849961.20	252972.10	-54.70	0.12	7.41	Deleted
MW-225M1	8/4/2005	850087.50	252943.10	-52.63	0.12	7.74	Deleted
MW-225M1	2/9/2006	850278.40	252906.20	-50.05	0.12	8.26	Deleted
MW-225M1	4/6/2006	850333.40	252896.90	-49.42	0.12	8.41	Deleted
MW-225M1	8/8/2006	850454.60	252878.30	-48.13	0.12	8.75	Deleted
MW-225M1	12/21/2006	850585.40	252860.60	-46.88	0.12	9.12	Deleted
MW-225M1	4/11/2007	850692.10	252847.60	-45.92	0.12	9.42	Deleted
MW-225M2	8/5/2002	848440.60	253378.40	-68.19	0.12	4.74	Deleted
MW-225M2	11/14/2002	848729.90	253344.80	-68.42	0.12	5.02	Deleted
MW-225M2	2/27/2003	849284.30	253248.50	-66.44	0.12	5.31	Deleted
MW-225M2	7/2/2004	849419.60	253142.00	-53.05	0.12	6.65	Deleted
MW-225M2	8/6/2004	849474.00	253124.30	-51.86	0.12	6.75	Deleted
MW-225M2	12/7/2004	849646.00	253075.00	-47.92	0.12	7.08	Deleted
MW-225M2	4/6/2005	849795.90	253032.80	-44.28	0.12	7.41	Deleted
MW-225M2	8/4/2005	849932.40	252996.10	-41.02	0.12	7.74	Deleted
MW-225M2	2/9/2006	850144.20	252945.60	-36.97	0.12	8.26	Deleted
MW-225M2	4/6/2006	850205.80	252933.00	-36.01	0.12	8.41	Deleted
MW-225M2	8/8/2006	850340.00	252908.80	-34.17	0.12	8.75	Deleted
MW-225M2	12/21/2006	850483.90	252886.60	-32.44	0.12	9.12	Deleted
MW-225M2	4/11/2007	850601.80	252870.70	-31.15	0.12	9.42	Deleted
MW-225M2	12/5/2007	850853.40	252841.60	-28.54	0.12	10.08	Deleted
MW-225M2	4/14/2008	850991.10	252827.60	-27.13	0.12	10.43	Deleted
MW-225M2	9/2/2008	851138.40	252813.90	-25.61	0.11	10.82	Deleted
MW-225M2	12/23/2008	851254.00	252803.90	-24.39	0.12	11.13	Deleted
MW-225M2	4/15/2009	851368.90	252794.40	-23.13	0.12	11.44	Deleted
MW-225M2	7/29/2009	851474.30	252786.10	-21.93	0.12	11.72	Deleted
MW-225M2	11/18/2009	851584.70	252777.90	-20.59	0.12	12.03	Deleted
MW-225M2	4/16/2010	851727.60	252767.80	-18.65	0.13	12.44	Deleted
MW-225M2	8/18/2010	851838.40	252761.00	-16.82	0.14	12.78	Deleted
MW-225M2	12/21/2010	851902.40	252758.70	-14.58	0.15	13.12	Deleted

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-225M2	4/21/2011	851941.80	252748.80	-9.48	0.16	13.45	Deleted
MW-225M2	8/24/2011	852068.60	252739.70	-8.09	0.17	13.79	Deleted
MW-225M2	12/28/2011	852190.60	252732.40	-6.52	0.18	14.14	Deleted
MW-225M2	4/18/2012	852297.00	252726.30	-4.91	0.20	14.45	Deleted
MW-225M3	8/6/2002	846315.40	253611.50	-43.51	0.12	4.75	Deleted
MW-225M3	11/14/2002	846580.30	253578.50	-42.78	0.12	5.02	Deleted
MW-225M3	2/27/2003	846852.40	253545.90	-42.16	0.12	5.31	Deleted
MW-225M3	2/4/2004	847752.10	253439.10	-50.63	0.12	6.24	Deleted
MW-225M3	7/2/2004	848287.50	253416.10	-57.89	0.12	6.65	Deleted
MW-225M3	8/6/2004	848427.20	253397.30	-58.48	0.12	6.75	Deleted
MW-225M3	12/8/2004	849284.30	253248.60	-57.07	0.12	7.09	Deleted
MW-225M3	4/6/2005	849284.30	253248.60	-53.67	0.15	7.41	Deleted
MW-225M3	4/14/2008	850330.10	252905.30	-11.11	0.12	10.43	Deleted
MW-225M3	9/2/2008	850480.70	252882.00	-8.76	0.11	10.82	Deleted
MW-225M3	12/23/2008	850599.50	252866.00	-7.04	0.12	11.13	Deleted
MW-225M3	4/15/2009	850718.70	252851.50	-5.36	0.12	11.44	Deleted
MW-225M3	7/29/2009	850828.70	252839.10	-3.82	0.12	11.72	Deleted
MW-225M3	11/18/2009	850945.10	252826.90	-2.18	0.12	12.03	Deleted
MW-225M3	4/19/2010	851103.20	252811.60	0.06	0.13	12.45	Deleted
MW-225M3	8/18/2010	851286.00	252795.40	1.88	0.14	12.78	Deleted
MW-225M3	12/21/2010	851471.40	252780.40	3.82	0.15	13.12	Deleted
MW-225M3	4/21/2011	851647.20	252767.30	5.87	0.16	13.45	Deleted
MW-225M3	8/24/2011	851825.40	252754.90	8.70	0.17	13.79	Deleted
MW-225M3	12/28/2011	852008.90	252743.00	12.62	0.18	14.14	Deleted
MW-225M3	4/18/2012	852172.30	252733.10	14.75	0.20	14.45	Deleted
MW-231 (50.63)	7/23/2002	846838.40	252971.50	-67.63	0.12	4.71	Deleted
MW-231 (40.63)	7/23/2002	846863.60	252976.60	-69.24	0.12	4.71	Deleted
MW-231 (30.63)	7/23/2002	847146.70	252974.70	-70.06	0.12	4.71	Deleted
MW-231 (20.63)	7/23/2002	847626.60	252952.00	-71.49	0.12	4.71	Deleted
MW-231 (10.63)	7/23/2002	847991.10	252928.20	-75.78	0.12	4.71	Deleted
MW-231 (0.63)	7/23/2002	849573.70	252647.00	-60.78	0.12	4.71	Deleted
MW-231 (-9.37)	7/24/2002	849370.60	252682.80	-73.31	0.12	4.71	Deleted
MW-231 (-19.37)	7/24/2002	849819.10	252569.40	-58.62	0.12	4.71	Deleted
MW-231 (-29.37)	7/24/2002	849900.30	252552.10	-56.45	0.12	4.71	Deleted
MW-231 (-39.37)	7/24/2002	849342.20	252691.60	-75.63	0.12	4.71	Deleted
MW-231 (-49.37)	7/24/2002	849273.50	252735.20	-81.28	0.12	4.71	Deleted
MW-231 (-59.37)	7/24/2002	849534.00	252656.60	-82.85	0.12	4.71	Deleted
MW-231 (-69.37)	7/25/2002	849764.70	252595.20	-84.96	0.12	4.71	Deleted
MW-231 (-79.37)	7/25/2002	850468.00	252492.40	-86.85	0.12	4.71	Deleted
MW-231 (-89.37)	7/25/2002	850871.10	252461.30	-93.59	0.12	4.71	Deleted
MW-231 (-99.37)	7/25/2002	851216.70	252436.00	-102.06	0.12	4.71	Deleted
MW-231 (-109.37)	7/25/2002	851638.60	252410.00	-110.20	0.12	4.71	Deleted
MW-231 (-119.37)	7/25/2002	851635.30	252407.50	-119.75	0.12	4.71	Deleted
MW-231 (-129.37)	7/25/2002	851633.60	252405.40	-129.39	0.12	4.71	Deleted
MW-231M1	8/26/2002	849421.20	252689.60	-81.81	0.12	4.80	Deleted
MW-231M1	11/14/2002	849481.90	252673.70	-80.03	0.12	5.02	Deleted

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Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-231M1	2/6/2003	849575.80	252647.90	-78.01	0.12	5.25	Deleted
MW-231M2	8/26/2002	849408.90	252672.30	-72.34	0.12	4.80	Deleted
MW-231M2	11/14/2002	849504.70	252646.20	-69.53	0.12	5.02	Deleted
MW-231M2	2/6/2003	849596.40	252620.90	-66.26	0.12	5.25	Deleted
MW-231M2	4/12/2005	850350.90	252496.90	-47.08	0.12	7.43	Deleted
MW-231M2	4/6/2006	850689.20	252470.30	-44.16	0.12	8.41	Deleted
MW-231M2	4/12/2007	851035.80	252446.20	-41.20	0.12	9.43	Deleted
MW-231M2	8/28/2007	851162.40	252437.80	-40.08	0.12	9.81	Deleted
MW-231M2	12/5/2007	851260.90	252431.30	-39.25	0.12	10.08	Deleted
MW-231M2	4/15/2008	851391.40	252423.00	-38.13	0.12	10.44	Deleted
MW-231M2	8/29/2008	852075.90	252380.50	-34.53	0.11	10.81	Deleted
MW-231M2	12/22/2008	852180.90	252375.10	-33.58	0.12	11.12	Deleted
MW-231M2	4/15/2009	852282.00	252369.70	-32.44	0.12	11.44	Deleted
MW-231M2	7/29/2009	852372.30	252364.90	-31.23	0.12	11.72	Deleted
MW-231M2	4/19/2010	852570.80	252354.20	-27.99	0.13	12.45	Deleted
MW-231M2	4/21/2011	852695.10	252363.50	-21.18	0.16	13.45	Deleted
MW-231M3	8/26/2002	846922.60	252973.80	-68.97	0.12	4.80	Deleted
MW-231M3	2/6/2003	847211.00	252954.80	-67.77	0.12	5.25	Deleted
MW-231M3	6/12/2003	847430.10	252941.20	-66.88	0.12	5.59	Deleted
MW-231M3	4/12/2005	848629.10	252876.90	-65.65	0.12	7.43	Deleted
MW-231M3	4/7/2006	849295.30	252726.10	-50.96	0.12	8.41	Deleted
MW-231M3	4/12/2007	849752.50	252568.70	-18.41	0.12	9.43	Deleted
MW-231M3	8/28/2007	849852.70	252538.10	-6.67	0.12	9.81	Deleted
MW-231M3	9/10/2007	849861.10	252536.30	-5.74	0.12	9.84	Deleted
MW-231M3	12/6/2007	849920.50	252526.40	-0.76	0.12	10.08	Deleted
MW-231M3	4/15/2008	850065.50	252518.10	3.02	0.12	10.44	Deleted
MW-231M3	8/29/2008	850258.60	252508.70	5.09	0.11	10.81	Deleted
MW-231M3	12/22/2008	850433.70	252497.30	6.99	0.12	11.12	Deleted
MW-231M3	4/15/2009	850610.20	252484.70	8.90	0.12	11.44	Deleted
MW-231M3	7/29/2009	850772.60	252472.90	10.70	0.12	11.72	Deleted
MW-231M3	4/19/2010	851174.30	252444.70	15.37	0.13	12.45	Deleted
MW-231M3	4/21/2011	851709.60	252410.50	22.56	0.16	13.45	Deleted
MW-240 (46.32)	9/20/2002	846119.30	253951.10	-37.71	0.12	4.87	Deleted
MW-240 (41.32)	9/23/2002	846233.10	253940.30	-40.39	0.22	4.88	Deleted
MW-240 (31.32)	9/24/2002	845888.60	253974.60	-48.29	0.12	4.88	Deleted
MW-240 (21.32)	9/24/2002	846007.50	253957.40	-53.63	0.12	4.88	Deleted
MW-240 (1.32)	9/24/2002	847687.90	253739.80	-56.67	0.12	4.88	Deleted
MW-240 (-8.68)	9/25/2002	848998.00	253387.60	-63.02	0.12	4.88	Deleted
MW-240 (-28.68)	9/25/2002	848296.00	253608.30	-71.90	0.12	4.88	Deleted
MW-240 (-38.68)	9/25/2002	848630.40	253516.50	-76.38	0.12	4.88	Deleted
MW-240 (-48.68)	9/26/2002	848806.70	253453.80	-79.78	0.12	4.89	Deleted
MW-240 (-58.68)	9/26/2002	849130.80	253363.00	-81.11	0.12	4.89	Deleted
MW-240 (-68.68)	9/26/2002	849441.10	253387.90	-85.72	0.12	4.89	Deleted
MW-240 (-78.68)	9/26/2002	850286.20	253234.90	-88.21	0.12	4.89	Deleted
MW-240 (-88.68)	10/1/2002	850642.30	253177.00	-94.17	0.12	4.90	Deleted
MW-240 (-98.68)	10/1/2002	850896.70	253143.30	-101.73	0.12	4.90	Deleted

Table 1
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Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-240 (-108.68)	10/1/2002	851441.60	253086.40	-108.56	0.12	4.90	Deleted
MW-240 (-118.68)	10/1/2002	851437.10	253086.90	-116.99	0.12	4.90	Deleted
MW-240 (-128.68)	10/1/2002	851435.50	253085.40	-125.20	0.12	4.90	Deleted
MW-240 (-135.68)	10/2/2002	852209.40	253025.50	-132.68	0.12	4.90	Deleted
MW-240M1	11/12/2002	848941.20	253402.90	-79.83	0.12	5.01	Deleted
MW-240M1	3/5/2003	849076.60	253366.80	-78.01	0.12	5.32	Deleted
MW-240M1	8/12/2003	849247.00	253359.70	-76.34	0.12	5.76	Deleted
MW-240M2	11/14/2002	846141.20	253944.20	-53.05	0.12	5.02	Deleted
MW-240M2	3/5/2003	846431.00	253916.90	-51.61	0.12	5.32	Deleted
MW-240M2	6/12/2003	846688.10	253892.50	-49.92	0.12	5.59	Deleted
MW-240M2	4/11/2005	848329.70	253583.70	-51.69	0.12	7.43	Deleted
MW-240M2	4/6/2006	849103.90	253391.70	-41.39	0.12	8.41	Deleted
MW-240M2	4/12/2007	849666.00	253371.40	-22.99	0.12	9.43	Deleted
MW-240M3	11/14/2002	846355.30	253928.60	-39.47	0.12	5.02	Deleted
MW-240M3	3/6/2003	846597.60	253905.10	-37.17	0.12	5.33	Deleted
MW-240M3	6/12/2003	846808.00	253882.30	-35.00	0.12	5.59	Deleted
MW-240M3	7/29/2004	847661.80	253762.60	-25.67	0.12	6.73	Deleted
MW-240M3	4/11/2005	848089.10	253675.20	-33.66	0.12	7.43	Deleted
MW-240M3	4/6/2006	848608.60	253548.30	-36.21	0.12	8.41	Deleted
MW-240M3	4/12/2007	849136.00	253415.20	-23.46	0.12	9.43	Deleted
MW-248 (41.26)	11/8/2002	846592.00	252749.40	-69.96	0.12	5.00	Deleted
MW-248 (31.26)	11/8/2002	845687.00	252855.00	-73.70	0.12	5.00	Deleted
MW-248 (21.26)	11/8/2002	845342.00	252929.90	-76.70	0.12	5.00	Deleted
MW-248 (11.26)	11/8/2002	845484.80	252973.90	-77.27	0.12	5.00	Deleted
MW-248 (1.26)	11/8/2002	845984.90	252984.20	-77.69	0.12	5.00	Deleted
MW-248 (-8.74)	11/8/2002	846033.70	252994.40	-79.61	0.12	5.00	Deleted
MW-248 (-18.74)	11/8/2002	846179.20	252986.90	-81.94	0.12	5.00	Deleted
MW-248 (-28.74)	11/12/2002	846618.00	252954.70	-83.89	0.12	5.01	Deleted
MW-248 (-38.74)	11/13/2002	846849.50	252938.50	-86.85	0.12	5.02	Deleted
MW-248 (-48.74)	11/13/2002	846986.70	252928.30	-90.00	0.12	5.02	Deleted
MW-248 (-58.74)	11/13/2002	847358.60	252899.70	-92.92	0.12	5.02	Deleted
MW-248 (-68.74)	11/14/2002	847619.90	252877.70	-96.09	0.12	5.02	Deleted
MW-248 (-78.74)	11/15/2002	848832.40	252761.10	-99.19	0.12	5.02	Deleted
MW-248 (-88.74)	11/15/2002	849392.40	252621.20	-105.62	0.12	5.02	Deleted
MW-248 (-98.74)	11/18/2002	849941.90	252507.00	-106.32	0.12	5.03	Deleted
MW-248 (-108.74)	11/18/2002	850125.90	252483.10	-112.99	0.12	5.03	Deleted
MW-248 (-118.74)	11/19/2002	850124.00	252484.00	-121.02	0.12	5.03	Deleted
MW-248M1	1/6/2003	847526.10	252885.80	-93.77	0.12	5.16	Deleted
MW-248M1	3/19/2003	847625.80	252878.40	-93.68	0.12	5.36	Deleted
MW-248M1	6/26/2003	847763.30	252868.10	-93.64	0.12	5.63	Deleted
MW-248M2	1/8/2003	846335.00	252976.60	-82.39	0.12	5.17	Deleted
MW-248M2	3/19/2003	846436.60	252969.50	-82.07	0.12	5.36	Deleted
MW-248M2	6/25/2003	846578.20	252959.70	-81.61	0.12	5.63	Deleted
MW-248M3	1/8/2003	845475.60	252949.70	-77.23	0.12	5.17	Deleted
MW-248M3	3/19/2003	845606.00	252941.90	-76.83	0.12	5.36	Deleted
MW-248M3	6/25/2003	845787.60	252930.70	-76.26	0.12	5.63	Deleted

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Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-252 (11.84)	12/13/2002	845370.00	251797.40	-65.02	0.12	5.10	Deleted
MW-252 (1.84)	12/17/2002	846686.50	252070.50	-72.36	0.12	5.11	Deleted
MW-252 (-8.16)	12/17/2002	846693.80	252152.80	-76.63	0.12	5.11	Deleted
MW-252 (-18.16)	12/18/2002	846629.50	252185.20	-79.82	0.12	5.11	Deleted
MW-252 (-28.16)	12/18/2002	847004.80	252199.90	-82.55	0.12	5.11	Deleted
MW-252 (-38.16)	12/19/2002	847378.30	252205.40	-85.70	0.12	5.12	Deleted
MW-252 (-48.16)	12/19/2002	847617.70	252207.00	-89.26	0.12	5.12	Deleted
MW-252 (-58.16)	12/19/2002	848047.00	252193.60	-93.53	0.12	5.12	Deleted
MW-252 (-68.16)	12/19/2002	848320.40	252180.90	-96.82	0.12	5.12	Deleted
MW-252 (-78.16)	12/19/2002	849227.90	252090.30	-99.45	0.12	5.12	Deleted
MW-252 (-88.16)	12/19/2002	849509.20	252067.80	-101.10	0.12	5.12	Deleted
MW-252 (-98.16)	1/8/2003	850005.80	252051.00	-103.36	0.12	5.17	Deleted
MW-252 (-108.16)	1/8/2003	850282.60	252045.50	-111.33	0.12	5.17	Deleted
MW-252 (-118.16)	1/8/2003	850282.80	252045.80	-119.89	0.12	5.17	Deleted
MW-252M1	2/26/2003	846758.70	252182.20	-79.32	0.12	5.30	Deleted
MW-252M1	5/8/2003	846886.50	252180.10	-78.99	0.12	5.50	Deleted
MW-252M1	8/6/2003	847047.70	252176.90	-78.57	0.12	5.75	Deleted
MW-252M2	2/26/2003	845546.40	251812.60	-64.95	0.12	5.30	Deleted
MW-252M2	5/8/2003	845680.90	251817.60	-64.37	0.12	5.50	Deleted
MW-252M2	8/6/2003	845850.50	251823.20	-63.63	0.12	5.75	Deleted
MW-255 (60.00)	2/11/2003	853381.00	254059.80	4.68	0.12	5.26	Deleted
MW-255 (50.00)	2/11/2003	853373.40	254061.80	1.64	0.12	5.26	Deleted
MW-255 (40.00)	2/11/2003	853423.80	254059.00	-1.76	0.12	5.26	Deleted
MW-255 (30.00)	2/11/2003	853642.00	254019.60	-3.59	0.12	5.26	Deleted
MW-255 (20.00)	2/11/2003	853791.90	253979.80	-5.64	0.12	5.26	Deleted
MW-255 (10.00)	2/12/2003	854138.70	253960.20	-10.58	0.12	5.27	Deleted
MW-255 (0.00)	2/12/2003	854315.90	253898.60	-9.16	0.12	5.27	Deleted
MW-255 (-10.00)	2/12/2003	854628.00	253905.40	-7.69	0.12	5.27	Deleted
MW-255 (-20.00)	2/12/2003	854607.30	253898.30	-13.23	0.12	5.27	Deleted
MW-255 (-30.00)	2/12/2003	854619.40	253888.00	-18.92	0.12	5.27	Deleted
MW-255 (-40.00)	2/12/2003	854761.30	253833.40	-19.68	0.12	5.27	Deleted
MW-255 (-50.00)	2/12/2003	854585.20	253805.30	-50.04	0.12	5.27	Deleted
MW-255 (-60.00)	2/12/2003	854792.40	253691.80	-54.20	0.12	5.27	Deleted
MW-255M1	3/31/2003	854760.20	253798.60	-19.45	0.12	5.39	Deleted
MW-255M1	7/31/2003	854811.20	253673.90	-11.99	0.12	5.73	Deleted
MW-255M1	12/3/2003	854983.30	253623.50	-7.96	0.12	6.07	Deleted
MW-255M2	3/31/2003	854491.50	253884.50	-7.94	0.12	5.39	Deleted
MW-255M2	7/31/2003	854379.80	253836.00	-6.61	0.12	5.73	Deleted
MW-255M2	12/3/2003	854267.30	253778.50	-5.93	0.12	6.07	Deleted
MW-255M2	8/28/2007	855216.90	253604.40	23.35	0.12	9.81	Deleted
MW-255M3	3/31/2003	853729.00	253980.20	-4.07	0.12	5.39	Deleted
MW-255M3	7/31/2003	853806.90	253895.70	-2.60	0.12	5.73	Deleted
MW-255M3	12/11/2003	853844.60	253794.10	-1.92	0.12	6.09	Deleted
MW-255M3	8/28/2007	855192.70	253648.60	27.18	0.12	9.81	Deleted
MW-258 (42.10)	1/29/2003	843900.80	253933.80	-43.77	0.12	5.23	Deleted
MW-258 (32.10)	1/29/2003	844027.20	253909.40	-48.06	0.12	5.23	Deleted

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-258 (22.10)	1/29/2003	844182.80	253876.70	-52.04	0.12	5.23	Deleted
MW-258 (12.10)	1/30/2003	843627.90	253967.60	-58.33	0.13	5.23	Deleted
MW-258 (2.10)	1/30/2003	844001.20	253877.10	-62.11	0.12	5.23	Deleted
MW-258 (-7.90)	1/30/2003	844797.00	253743.50	-67.08	0.12	5.23	Deleted
MW-258 (-17.90)	1/30/2003	847310.80	253419.30	-65.02	0.12	5.23	Deleted
MW-258 (-27.90)	1/30/2003	845845.90	253554.00	-70.07	0.12	5.23	Deleted
MW-258 (-37.90)	1/30/2003	845993.70	253596.30	-73.45	0.12	5.23	Deleted
MW-258 (-47.90)	1/31/2003	846349.10	253550.20	-81.79	0.12	5.23	Deleted
MW-258 (-57.90)	1/31/2003	846872.80	253484.00	-86.66	0.12	5.23	Deleted
MW-258 (-67.90)	1/31/2003	847306.80	253424.60	-91.03	0.12	5.23	Deleted
MW-258 (-77.90)	1/31/2003	848237.60	253312.30	-95.36	0.12	5.23	Deleted
MW-258 (-87.90)	2/4/2003	848841.30	253256.90	-97.62	0.12	5.24	Deleted
MW-258 (-97.90)	2/4/2003	849620.90	253030.30	-107.63	0.12	5.24	Deleted
MW-258 (-107.90)	2/4/2003	849937.00	252952.60	-113.29	0.12	5.24	Deleted
MW-258 (-117.90)	2/4/2003	849934.60	252952.40	-120.87	0.12	5.24	Deleted
MW-258M1	3/7/2003	846038.20	253499.50	-68.62	0.12	5.33	Deleted
MW-258M1	6/12/2003	846190.50	253468.20	-72.01	0.12	5.59	Deleted
MW-258M1	9/24/2003	846386.30	253441.80	-72.38	0.12	5.88	Deleted
MW-258M2	3/7/2003	844063.20	253865.10	-61.69	0.12	5.33	Deleted
MW-258M2	6/12/2003	844259.00	253831.70	-60.37	0.12	5.59	Deleted
MW-258M2	9/24/2003	844535.10	253788.50	-58.88	0.12	5.88	Deleted
MW-258M2	2/10/2006	846861.10	253524.10	-41.26	0.12	8.26	Deleted
MW-258M2	4/5/2006	846993.40	253508.10	-41.00	0.12	8.41	Deleted
MW-258M2	8/8/2006	847287.70	253471.90	-40.53	0.12	8.75	Deleted
MW-258M2	12/20/2006	847645.60	253428.80	-41.93	0.12	9.12	Deleted
MW-258M2	4/4/2007	847946.00	253423.00	-53.56	0.12	9.41	Deleted
MW-258M2	8/30/2007	848416.80	253384.10	-57.12	0.12	9.81	Deleted
MW-258M2	8/31/2007	848421.50	253383.60	-57.14	0.12	9.81	Deleted
MW-258M2	12/4/2007	849284.30	253248.60	-56.24	0.12	10.07	Deleted
MW-258M2	4/14/2008	849284.30	253248.60	-52.19	0.12	10.43	Deleted
MW-258M2	9/3/2008	849284.40	253248.60	-46.12	0.11	10.82	Deleted
MW-258M2	12/31/2008	849284.60	253246.80	-39.53	0.12	11.15	Deleted
MW-258M2	4/14/2009	849430.00	253126.60	-33.10	0.12	11.43	Deleted
MW-258M2	7/31/2009	849602.70	253072.00	-27.91	0.12	11.73	Deleted
MW-258M2	11/18/2009	849753.90	253024.30	-23.19	0.12	12.03	Deleted
MW-258M2	4/21/2010	849938.40	252966.30	-17.28	0.13	12.45	Deleted
MW-258M2	8/17/2010	850067.50	252930.60	-13.75	0.14	12.78	Deleted
MW-258M2	12/22/2010	850203.10	252900.00	-10.75	0.15	13.12	Deleted
MW-258M2	4/14/2011	850322.20	252877.90	-8.54	0.16	13.43	Deleted
MW-258M2	9/7/2011	850476.10	252854.10	-6.05	0.17	13.83	Deleted
MW-258M2	12/14/2011	850579.30	252840.40	-4.49	0.18	14.10	Deleted
MW-258M2	4/24/2012	850718.00	252823.80	-2.45	0.20	14.46	Deleted
MW-258M3	3/7/2003	843734.00	253946.30	-57.83	0.12	5.33	Deleted
MW-258M3	6/12/2003	844017.10	253890.50	-56.93	0.12	5.59	Deleted
MW-258M3	9/24/2003	844319.80	253838.60	-55.26	0.12	5.88	Deleted
MW-258M3	4/5/2006	846704.80	253559.30	-36.27	0.12	8.41	Deleted

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-258M3	4/4/2007	847471.60	253464.10	-33.73	0.12	9.41	Deleted
MW-258M3	8/31/2007	847769.40	253430.40	-42.35	0.12	9.81	Deleted
MW-258M3	12/4/2007	847996.10	253431.80	-48.59	0.12	10.07	Deleted
MW-258M3	4/14/2008	848401.70	253398.10	-52.47	0.12	10.43	Deleted
MW-258M3	9/3/2008	849284.30	253248.60	-51.26	0.11	10.82	Deleted
MW-258M3	12/31/2008	849284.40	253248.60	-46.49	0.12	11.15	Deleted
MW-258M3	4/15/2009	849284.40	253248.60	-40.96	0.12	11.44	Deleted
MW-258M3	7/31/2009	849284.40	253248.60	-33.64	0.12	11.73	Deleted
MW-258M3	11/19/2009	849393.10	253149.20	-23.99	0.12	12.03	Deleted
MW-258M3	4/21/2010	849636.40	253071.60	-15.58	0.13	12.45	Deleted
MW-258M3	8/17/2010	849794.00	253020.20	-9.99	0.14	12.78	Deleted
MW-258M3	12/22/2010	849940.10	252970.30	-4.66	0.15	13.12	Deleted
MW-258M3	4/14/2011	850061.80	252934.80	-1.04	0.16	13.43	Deleted
MW-258M3	9/7/2011	850271.50	252888.20	2.51	0.17	13.83	Deleted
MW-258M3	12/14/2011	850425.80	252862.80	4.43	0.18	14.10	Deleted
MW-258M3	4/24/2012	850634.00	252835.20	6.80	0.20	14.46	Deleted
MW-271 (46.03)	5/21/2003	853007.70	254272.10	-3.79	0.12	5.53	Deleted
MW-271 (36.03)	5/22/2003	853103.70	254264.90	-6.30	0.12	5.54	Deleted
MW-271 (26.03)	5/22/2003	853420.10	254229.70	-6.12	0.12	5.54	Deleted
MW-271 (16.03)	5/22/2003	853881.80	254171.30	-6.72	0.12	5.54	Deleted
MW-271 (6.03)	5/22/2003	854175.40	254136.00	-15.06	0.12	5.54	Deleted
MW-271 (-3.97)	5/22/2003	854399.20	254098.40	-13.71	0.12	5.54	Deleted
MW-271 (-13.97)	5/22/2003	854400.00	254100.60	-18.40	0.12	5.54	Deleted
MW-271 (-23.97)	5/23/2003	854486.90	254098.30	-45.01	0.12	5.54	Deleted
MW-271 (-33.97)	5/23/2003	854373.70	254120.90	-51.65	0.12	5.54	Deleted
MW-271 (-43.97)	5/23/2003	854502.90	254119.00	-55.71	0.12	5.54	Deleted
MW-271 (-63.97)	5/28/2003	854595.20	254124.90	-68.63	0.12	5.55	Deleted
MW-272 (5.31)	6/10/2003	854327.50	252750.60	-8.47	0.12	5.59	Deleted
MW-272 (-4.69)	6/11/2003	854619.20	252778.90	-11.60	0.19	5.59	Deleted
MW-272 (-14.69)	6/11/2003	854634.30	252775.90	-16.58	0.12	5.59	Deleted
MW-272 (-24.69)	6/11/2003	854874.30	252771.60	-26.53	0.12	5.59	Deleted
MW-272 (-34.69)	6/11/2003	854636.70	252759.70	-43.46	0.12	5.59	Deleted
MW-272 (-44.69)	6/11/2003	854639.80	252764.80	-49.92	0.12	5.59	Deleted
MW-272 (-54.69)	6/11/2003	854759.70	252739.40	-56.85	0.12	5.59	Deleted
MW-31D	10/27/2004	858250.00	253590.80	51.51	0.12	6.97	Deleted
MW-31D	4/30/2005	858250.00	253590.80	34.40	0.12	7.48	Deleted
MW-31D	4/13/2006	858336.10	253672.80	-2.90	0.12	8.43	Deleted
MW-31D (18.09)	4/27/2007	858614.80	253807.00	-7.24	0.12	9.47	Deleted
MW-31D (-66.41)	6/22/1998	858250.00	253590.80	49.88	0.12	0.62	Deleted
MW-31D (-76.41)	6/22/1998	858499.60	253785.40	-83.41	0.12	0.62	Deleted
MW-31D (-86.41)	6/22/1998	858603.50	253823.20	-93.88	0.12	0.62	Deleted
MW-31D (-96.41)	6/22/1998	858989.50	253952.50	-104.53	0.12	0.62	Deleted
MW-31D (-106.41)	6/22/1998	859145.90	253999.00	-113.72	0.12	0.62	Deleted
MW-31D (-116.41)	6/22/1998	859147.20	253999.40	-122.13	0.12	0.62	Deleted
MW-31D (-126.41)	6/22/1998	859214.80	254021.70	-130.62	0.12	0.62	Deleted
MW-31D (-136.41)	6/22/1998	859391.20	254075.10	-140.08	0.12	0.62	Deleted

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Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-31D (-146.41)	6/23/1998	859404.70	254078.90	-149.14	0.12	0.63	Deleted
MW-31D (-156.41)	6/23/1998	859404.70	254078.90	-158.15	0.12	0.63	Deleted
MW-31D (-166.41)	6/23/1998	859404.70	254078.90	-167.17	0.12	0.63	Deleted
MW-31D (-171.41)	6/23/1998	859404.70	254078.90	-171.68	0.12	0.63	Deleted
MW-31M	12/7/2007	858672.70	253828.40	7.39	5.42	10.08	Deleted
MW-31M	12/16/2008	858908.30	253910.60	11.59	0.10	11.11	Deleted
MW-31M	11/18/2009	859097.80	253974.30	16.17	0.11	12.03	Deleted
MW-31M	4/8/2010	859171.70	253998.90	18.21	0.75	12.42	Deleted
MW-31S	4/26/2007	858443.80	253735.10	19.04	2.95	9.47	Deleted
MW-31S	4/18/2011	859370.60	254065.40	39.53	1.93	13.44	Deleted
MW-32D	7/16/1998	853597.90	253867.60	-65.95	0.12	0.69	Deleted
MW-32D	2/2/1999	853727.30	253839.50	-63.31	0.12	1.24	Deleted
MW-32D	9/16/1999	853876.00	253797.70	-60.94	0.12	1.86	Deleted
MW-32M	7/16/1998	853813.00	253810.60	-54.25	0.12	0.69	Deleted
MW-32M	2/3/1999	854047.50	253786.60	-48.87	0.12	1.24	Deleted
MW-32M	9/16/1999	854738.10	253769.90	-23.76	0.12	1.86	Deleted
MW-32S	7/22/1998	854044.10	253881.40	-34.65	0.12	0.70	Deleted
MW-32S	2/3/1999	854030.80	253854.70	-32.71	0.12	1.24	Deleted
MW-32S	9/16/1999	854013.00	253818.50	-28.34	0.12	1.86	Deleted
MW-33D	7/21/1998	853491.80	253687.70	-65.03	0.12	0.70	Deleted
MW-33D	2/3/1999	853628.30	253654.10	-62.48	0.12	1.24	Deleted
MW-33D	9/16/1999	853789.20	253611.00	-58.66	0.12	1.86	Deleted
MW-33M	7/20/1998	853774.90	253666.20	-53.42	0.12	0.70	Deleted
MW-33M	2/3/1999	854854.30	253676.60	-21.59	0.12	1.24	Deleted
MW-33M	9/16/1999	854764.40	253608.70	-23.98	0.12	1.86	Deleted
MW-33S	7/21/1998	854006.90	253705.40	-37.66	0.12	0.70	Deleted
MW-33S	2/4/1999	853997.20	253678.30	-33.24	0.12	1.24	Deleted
MW-33S	9/16/1999	853971.90	253637.70	-30.33	0.12	1.86	Deleted
MW-341 (58.36)	7/13/2004	849645.00	253112.20	-17.27	0.12	6.68	Deleted
MW-341 (48.36)	7/13/2004	849821.60	253055.50	-17.85	0.12	6.68	Deleted
MW-341 (28.36)	7/14/2004	850273.90	252946.60	-23.94	0.12	6.68	Deleted
MW-341 (18.36)	7/15/2004	850480.50	252915.50	-30.20	0.12	6.69	Deleted
MW-341 (8.36)	7/15/2004	851297.40	252829.30	-29.35	0.12	6.69	Deleted
MW-341 (-1.64)	7/15/2004	851450.80	252830.60	-36.72	0.12	6.69	Deleted
MW-341 (-11.64)	7/16/2004	853001.90	252759.50	-27.56	0.12	6.69	Deleted
MW-341 (-21.64)	7/19/2004	853257.60	252817.70	-18.09	0.12	6.70	Deleted
MW-341 (-31.64)	7/19/2004	853899.10	252603.10	-20.31	0.12	6.70	Deleted
MW-341 (-41.64)	7/19/2004	851357.70	252749.60	-50.53	0.12	6.70	Deleted
MW-341 (-49.64)	7/19/2004	851345.60	252747.90	-57.52	0.12	6.70	Deleted
MW-341 (-61.64)	7/23/2004	851653.00	252723.30	-66.53	0.12	6.71	Deleted
MW-341 (-71.64)	7/23/2004	851649.30	252720.90	-75.33	0.12	6.71	Deleted
MW-341 (-81.64)	7/23/2004	852519.60	252672.50	-83.70	0.12	6.71	Deleted
MW-341M1	8/30/2004	851679.70	252721.50	-79.43	0.12	6.81	Deleted
MW-341M1	12/10/2004	851759.80	252719.20	-78.97	0.12	7.09	Deleted
MW-341M1	4/18/2005	851859.50	252714.40	-78.76	0.12	7.45	Deleted
MW-341M1	4/7/2006	852128.50	252701.10	-78.25	0.12	8.41	Deleted

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MW-341M1	4/6/2007	852394.50	252689.80	-77.67	0.12	9.41	Deleted
MW-341M2	8/30/2004	851391.50	252750.80	-56.36	0.12	6.81	Deleted
MW-341M2	12/10/2004	851492.40	252747.60	-55.16	0.12	7.09	Deleted
MW-341M2	4/18/2005	851607.80	252740.80	-54.36	0.12	7.45	Deleted
MW-341M2	4/7/2006	851914.80	252723.30	-52.83	0.12	8.41	Deleted
MW-341M2	4/6/2007	852224.70	252708.40	-51.25	0.12	9.41	Deleted
MW-341M3	4/14/2011	853243.90	252783.10	0.63	0.16	13.43	Deleted
MW-341M3	5/1/2012	853653.60	252748.20	1.69	0.19	14.48	Deleted
MW-341M3	8/18/2004	851214.40	252858.20	-34.98	0.12	6.78	Deleted
MW-341M3	12/10/2004	851370.60	252878.40	-35.51	0.12	7.09	Deleted
MW-341M3	4/18/2005	851509.70	252869.00	-34.33	0.12	7.45	Deleted
MW-341M3	8/8/2005	851622.60	252861.50	-33.26	0.12	7.75	Deleted
MW-341M3	2/9/2006	851800.10	252851.00	-31.52	0.12	8.26	Deleted
MW-341M3	4/7/2006	851853.40	252848.30	-31.19	0.12	8.41	Deleted
MW-341M3	12/27/2006	852120.10	252837.20	-30.59	0.12	9.14	Deleted
MW-341M3	4/9/2007	852222.60	252832.60	-29.60	0.12	9.42	Deleted
MW-341M3	4/16/2008	852537.90	252821.00	-24.94	0.12	10.44	Deleted
MW-341M3	5/8/2009	852682.90	252818.50	-13.71	0.12	11.50	Deleted
MW-341M3	4/16/2010	852916.60	252801.80	-3.50	0.13	12.44	Deleted
MW-341M4	12/10/2004	850449.10	252966.00	-19.88	0.12	7.09	Deleted
MW-341M4	4/18/2005	850594.50	252947.30	-18.13	0.12	7.45	Deleted
MW-341M4	8/8/2005	850718.00	252932.80	-16.65	0.12	7.75	Deleted
MW-341M4	2/9/2006	850920.10	252911.80	-14.25	0.12	8.26	Deleted
MW-341M4	4/7/2006	850982.20	252906.20	-13.52	0.12	8.41	Deleted
MW-341M4	12/27/2006	851270.40	252884.10	-10.29	0.12	9.14	Deleted
MW-341M4	4/9/2007	851378.00	252876.20	-9.00	0.12	9.42	Deleted
MW-341M4	4/16/2008	851750.00	252850.90	-3.67	0.12	10.44	Deleted
MW-341M4	5/8/2009	852236.70	252817.60	5.93	0.12	11.50	Deleted
MW-341M4	4/16/2010	852708.70	252789.00	13.75	0.13	12.44	Deleted
MW-341M4	4/14/2011	853194.90	252761.50	20.66	0.16	13.43	Deleted
MW-341M4	5/1/2012	853621.40	252725.50	25.82	0.20	14.48	Deleted
MW-34M1	4/25/2012	857621.20	253739.10	-11.54	0.20	14.47	Deleted
MW-34M2	4/25/2012	857617.20	253734.10	6.94	0.20	14.47	Deleted
MW-35 (58.09)	1/21/1999	852573.20	253361.40	-22.03	0.12	1.21	Deleted
MW-35 (48.09)	1/21/1999	852602.80	253343.30	-26.71	0.12	1.21	Deleted
MW-35 (38.09)	1/21/1999	852994.70	253351.70	-14.21	0.12	1.21	Deleted
MW-35 (28.09)	1/22/1999	853294.60	253306.50	-10.44	0.12	1.21	Deleted
MW-35 (19.09)	1/22/1999	853685.90	253266.00	-16.18	0.12	1.21	Deleted
MW-35 (14.09)	1/22/1999	853750.20	253267.70	-20.49	0.12	1.21	Deleted
MW-35 (9.09)	1/22/1999	853861.10	253255.90	-19.60	0.12	1.21	Deleted
MW-35 (4.09)	1/25/1999	854049.30	253223.70	-18.45	0.12	1.22	Deleted
MW-35 (-0.91)	1/25/1999	854481.40	253181.50	-16.85	0.12	1.22	Deleted
MW-35 (-20.91)	1/25/1999	854256.90	253260.60	-47.80	0.12	1.22	Deleted
MW-35 (-30.91)	1/25/1999	854421.70	253233.90	-47.88	0.12	1.22	Deleted
MW-35 (-40.91)	1/25/1999	854670.40	253191.70	-46.97	0.12	1.22	Deleted
MW-352M1	11/3/2004	845482.70	253132.90	-87.84	0.12	6.99	Deleted

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-352M1	2/1/2008	847200.40	252999.40	-83.08	0.12	10.24	Deleted
MW-352M2	11/3/2004	844084.00	253351.30	-74.49	0.12	6.99	Deleted
MW-352M3	11/3/2004	843330.70	253563.80	-69.92	0.12	6.99	Deleted
MW-353M1	11/22/2004	844879.40	253491.10	-84.20	0.12	7.04	Deleted
MW-353M2	11/22/2004	842571.60	254015.10	-63.96	0.12	7.04	Deleted
MW-353M3	11/22/2004	843171.50	253887.00	-48.95	0.12	7.04	Deleted
MW-35M2	2/22/1999	852598.60	253340.00	-26.59	0.12	1.29	Deleted
MW-35M2	8/19/1999	852748.80	253323.70	-20.71	0.12	1.78	Deleted
MW-35M2	10/28/1999	852724.80	253311.40	-15.39	0.12	1.97	Deleted
MW-35M2	5/22/2000	852788.80	253239.20	-6.04	0.12	2.54	Deleted
MW-35M2	8/9/2000	852881.30	253193.30	-3.36	0.12	2.76	Deleted
MW-35M2	11/17/2000	853016.30	253127.60	-1.21	0.12	3.03	Deleted
MW-35M2	4/27/2001	853461.70	252980.60	0.85	0.12	3.47	Deleted
MW-35S	2/22/1999	852516.70	253367.00	-17.12	0.12	1.29	Deleted
MW-35S	8/19/1999	852489.10	253341.80	-12.75	0.12	1.78	Deleted
MW-35S	10/28/1999	852458.10	253328.30	-10.80	0.12	1.97	Deleted
MW-35S	5/22/2000	852651.50	253251.00	-4.81	0.12	2.54	Deleted
MW-35S	8/10/2000	852741.90	253208.30	-1.24	0.12	2.76	Deleted
MW-35S	12/18/2000	853020.40	253117.80	2.91	0.12	3.11	Deleted
MW-35S	4/27/2001	853344.30	253004.80	3.94	0.12	3.47	Deleted
MW-35S	8/3/2001	853851.10	252960.90	-4.39	0.12	3.74	Deleted
MW-36M2	4/12/2011	857514.20	253685.70	4.12	0.16	13.43	Deleted
MW-36M2	4/17/2012	857690.10	253812.00	5.23	0.20	14.44	Deleted
MW-46 (67.12)	2/18/1999	850914.10	256661.10	-29.72	0.12	1.28	Deleted
MW-46 (48.62)	2/19/1999	851050.00	256634.20	-37.75	0.12	1.29	Deleted
MW-46 (48.12)	1/18/1999	851011.90	256639.70	-38.37	0.12	1.20	Deleted
MW-46 (38.62)	2/19/1999	851241.30	256599.40	-42.48	0.12	1.29	Deleted
MW-46 (38.12)	1/18/1999	851218.60	256602.60	-43.00	0.12	1.20	Deleted
MW-46 (29.12)	1/18/1999	851465.30	256555.80	-46.65	0.12	1.20	Deleted
MW-46 (28.62)	2/19/1999	851513.60	256547.60	-46.58	0.12	1.29	Deleted
MW-46 (19.12)	1/18/1999	851814.40	256490.90	-49.98	0.12	1.20	Deleted
MW-46 (9.12)	1/19/1999	852225.30	256416.40	-52.74	0.12	1.20	Deleted
MW-46 (-1.38)	2/19/1999	852652.10	256343.40	-55.12	0.12	1.29	Deleted
MW-46 (-10.88)	1/20/1999	852674.00	256337.50	-58.69	0.12	1.20	Deleted
MW-46 (-20.88)	1/20/1999	852792.90	256328.60	-62.51	0.12	1.20	Deleted
MW-46 (-30.88)	1/20/1999	852946.70	256309.60	-66.68	0.12	1.20	Deleted
MW-46 (-40.88)	1/20/1999	853157.40	256278.20	-70.79	0.12	1.20	Deleted
MW-46 (-50.88)	1/20/1999	853284.00	256261.70	-75.29	0.12	1.20	Deleted
MW-46 (-70.88)	1/22/1999	853965.00	256187.00	-84.15	0.12	1.21	Deleted
MW-46 (-80.88)	1/22/1999	854788.50	256087.30	-90.13	0.12	1.21	Deleted
MW-46 (-90.88)	1/25/1999	854788.90	256085.80	-96.85	0.12	1.22	Deleted
MW-46 (-100.88)	1/25/1999	855525.40	255977.70	-103.26	0.12	1.22	Deleted
MW-46 (-110.88)	1/27/1999	855525.60	255978.40	-111.39	0.12	1.22	Deleted
MW-46 (-120.88)	1/27/1999	855526.10	255979.00	-119.53	0.12	1.22	Deleted
MW-46 (-130.88)	1/27/1999	855718.10	255957.80	-127.69	0.12	1.22	Deleted
MW-46 (-140.88)	1/28/1999	856173.00	255895.80	-137.00	0.12	1.22	Deleted

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-46D	4/1/1999	854176.20	256162.40	-85.80	0.12	1.40	Deleted
MW-46D	8/24/1999	854237.30	256155.70	-85.50	0.12	1.79	Deleted
MW-46D	11/2/1999	854266.60	256152.30	-85.36	0.12	1.99	Deleted
MW-46D	8/24/2000	854388.40	256138.40	-84.78	0.12	2.80	Deleted
MW-46D	8/6/2001	854533.50	256121.70	-84.15	0.12	3.75	Deleted
MW-46D	10/2/2002	854704.50	256102.10	-83.38	0.12	4.90	Deleted
MW-46D	11/19/2003	854859.80	256084.30	-82.39	0.12	6.03	Deleted
MW-46D	8/17/2004	854956.20	256073.30	-81.57	0.12	6.78	Deleted
MW-46D	7/22/2005	855071.30	256059.90	-80.41	0.12	7.71	Deleted
MW-46M1	3/29/1999	853214.30	256271.40	-70.40	0.12	1.39	Deleted
MW-46M1	8/24/1999	853325.50	256257.40	-69.55	0.12	1.79	Deleted
MW-46M1	11/1/1999	853376.80	256251.10	-69.13	0.12	1.98	Deleted
MW-46M1	8/23/2000	853592.40	256226.20	-67.18	0.12	2.79	Deleted
MW-46M1	8/7/2001	853837.40	256201.00	-64.82	0.12	3.75	Deleted
MW-46M1	10/2/2002	854123.90	256173.20	-62.40	0.12	4.90	Deleted
MW-46M1	11/19/2003	854397.00	256147.30	-60.15	0.12	6.03	Deleted
MW-46M1	8/17/2004	854592.70	256128.80	-58.81	0.12	6.78	Deleted
MW-46M1	7/22/2005	854835.70	256102.00	-57.10	0.12	7.71	Deleted
MW-46M2	3/30/1999	852415.40	256384.20	-53.03	0.12	1.39	Deleted
MW-46M2	8/24/1999	852552.60	256363.40	-51.95	0.12	1.79	Deleted
MW-46M2	11/1/1999	852616.20	256353.80	-51.43	0.12	1.98	Deleted
MW-46M2	8/23/2000	852882.70	256314.90	-49.08	0.12	2.79	Deleted
MW-46M2	8/7/2001	853185.70	256273.20	-45.93	0.12	3.75	Deleted
MW-46M2	10/3/2002	853537.00	256230.30	-40.73	0.12	4.90	Deleted
MW-46M2	11/19/2003	853892.20	256196.90	-33.84	0.12	6.03	Deleted
MW-46M2	8/17/2004	854122.60	256175.70	-30.51	0.12	6.78	Deleted
MW-46M2	7/22/2005	854402.20	256149.30	-25.88	0.12	7.71	Deleted
MW-46M3	3/31/1999	851268.40	256595.20	-41.92	0.12	1.39	Deleted
MW-46M3	8/23/1999	851428.20	256569.90	-40.53	0.12	1.79	Deleted
MW-46M3	11/1/1999	851505.80	256557.60	-39.86	0.12	1.98	Deleted
MW-46M3	8/23/2000	851850.60	256502.90	-37.01	0.12	2.79	Deleted
MW-46M3	8/7/2001	852235.20	256442.10	-33.58	0.12	3.75	Deleted
MW-46M3	10/3/2002	852673.00	256374.80	-29.16	0.12	4.90	Deleted
MW-46M3	11/20/2003	853076.80	256317.70	-24.27	0.12	6.04	Deleted
MW-46M3	8/17/2004	853330.80	256285.40	-20.25	0.12	6.78	Deleted
MW-46M3	7/25/2005	853640.70	256246.40	-12.90	0.12	7.71	Deleted
MW-46S	3/26/1999	850958.30	256650.70	-29.22	0.12	1.38	Deleted
MW-46S	8/25/1999	851152.50	256620.00	-27.30	0.12	1.80	Deleted
MW-46S	11/19/1999	851260.00	256603.00	-26.23	0.12	2.03	Deleted
MW-46S	9/12/2000	851619.00	256545.60	-22.56	0.12	2.85	Deleted
MW-47 (53.84)	1/11/1999	851057.30	255792.10	-34.10	0.12	1.18	Deleted
MW-47 (43.84)	1/11/1999	851146.60	255772.30	-38.12	0.12	1.18	Deleted
MW-47 (33.84)	1/12/1999	851283.10	255740.10	-42.29	0.12	1.18	Deleted
MW-47 (23.84)	1/12/1999	852117.30	255566.20	-34.49	0.12	1.18	Deleted
MW-47 (13.84)	1/12/1999	852643.30	255488.60	-34.74	0.12	1.18	Deleted
MW-47 (3.84)	1/12/1999	854024.80	255409.80	-42.40	0.12	1.18	Deleted

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-47 (-6.16)	1/13/1999	853192.10	255480.30	-46.27	0.12	1.18	Deleted
MW-47 (-16.16)	1/13/1999	853035.80	255469.80	-53.35	0.12	1.18	Deleted
MW-47 (-26.16)	1/13/1999	853142.10	255460.00	-58.22	0.12	1.18	Deleted
MW-47 (-36.16)	1/13/1999	853376.40	255449.40	-63.76	0.12	1.18	Deleted
MW-47 (-46.16)	1/13/1999	853465.90	255443.40	-70.37	0.12	1.18	Deleted
MW-47 (-56.16)	1/14/1999	853624.70	255430.90	-77.12	0.12	1.19	Deleted
MW-47 (-66.16)	1/14/1999	854111.50	255378.90	-83.96	0.12	1.19	Deleted
MW-47 (-76.16)	1/15/1999	854561.90	255330.70	-90.12	0.12	1.19	Deleted
MW-47 (-86.16)	1/15/1999	854988.10	255294.60	-93.72	0.12	1.19	Deleted
MW-47 (-106.16)	1/15/1999	855662.80	255248.00	-104.72	0.12	1.19	Deleted
MW-47 (-116.16)	1/15/1999	855651.90	255251.40	-113.07	0.12	1.19	Deleted
MW-47 (-126.16)	1/18/1999	855640.20	255252.70	-121.65	0.12	1.20	Deleted
MW-47 (-136.16)	1/18/1999	856148.10	255221.80	-128.42	0.12	1.20	Deleted
MW-47 (-146.16)	1/18/1999	856255.30	255196.50	-139.02	0.12	1.20	Deleted
MW-47 (-156.16)	1/18/1999	856252.00	255197.40	-149.84	0.12	1.20	Deleted
MW-47D	3/25/1999	853489.40	255443.50	-66.83	0.12	1.38	Deleted
MW-47D	8/24/1999	853594.10	255436.60	-67.70	0.12	1.79	Deleted
MW-47D	11/2/1999	853643.70	255432.40	-68.23	0.12	1.99	Deleted
MW-47D	12/19/2001	854188.40	255374.40	-66.95	0.12	4.12	Deleted
MW-47D	5/9/2002	854279.20	255366.80	-66.09	0.12	4.50	Deleted
MW-47D	10/2/2002	854371.00	255360.20	-65.21	0.12	4.90	Deleted
MW-47D	2/5/2003	854449.10	255355.50	-64.47	0.12	5.25	Deleted
MW-47D	4/1/2003	854482.90	255353.80	-64.15	0.12	5.40	Deleted
MW-47D	11/19/2003	854624.50	255348.30	-62.74	0.12	6.03	Deleted
MW-47D	3/5/2004	854689.50	255346.90	-62.02	0.12	6.33	Deleted
MW-47D	8/31/2004	854798.60	255346.10	-60.48	0.12	6.82	Deleted
MW-47D	7/25/2005	855015.00	255340.40	-54.26	0.12	7.71	Deleted
MW-47M1	3/26/1999	853103.10	255466.30	-52.23	0.12	1.38	Deleted
MW-47M1	8/24/1999	853222.50	255458.40	-51.27	0.12	1.79	Deleted
MW-47M1	11/2/1999	853276.90	255455.30	-50.93	0.12	1.99	Deleted
MW-47M1	12/19/2001	853891.90	255409.80	-54.58	0.12	4.12	Deleted
MW-47M1	5/9/2002	854005.50	255398.40	-53.74	0.12	4.50	Deleted
MW-47M1	10/2/2002	854120.90	255388.10	-52.54	0.12	4.90	Deleted
MW-47M1	2/5/2003	854217.60	255380.70	-51.21	0.12	5.25	Deleted
MW-47M1	4/1/2003	854259.20	255377.80	-50.66	0.12	5.40	Deleted
MW-47M1	11/19/2003	854429.90	255367.30	-48.61	0.12	6.03	Deleted
MW-47M1	3/5/2004	854507.90	255363.40	-47.73	0.12	6.33	Deleted
MW-47M1	8/31/2004	854640.00	255358.40	-46.26	0.12	6.82	Deleted
MW-47M1	7/25/2005	854897.40	255350.00	-41.34	0.12	7.71	Deleted
MW-47M2	3/26/1999	852339.60	255578.40	-35.08	0.12	1.38	Deleted
MW-47M2	8/25/1999	852493.00	255560.30	-33.49	0.12	1.80	Deleted
MW-47M2	11/2/1999	852561.60	255552.50	-32.72	0.12	1.99	Deleted
MW-47M2	12/20/2001	853268.70	255489.80	-21.75	0.12	4.12	Deleted
MW-47M2	5/9/2002	853382.80	255485.40	-20.79	0.12	4.50	Deleted
MW-47M2	10/2/2002	853428.90	255481.10	-18.62	0.12	4.90	Deleted
MW-47M2	2/5/2003	853427.60	255479.60	-16.65	0.12	5.25	Deleted

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Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-47M2	4/1/2003	853426.20	255479.30	-15.79	0.12	5.40	Deleted
MW-47M2	11/19/2003	853413.40	255481.50	-11.97	0.12	6.03	Deleted
MW-47M2	3/5/2004	853402.80	255484.70	-10.47	0.12	6.33	Deleted
MW-47M2	8/31/2004	853504.30	255477.70	-7.63	0.12	6.82	Deleted
MW-47M2	7/22/2005	853737.20	255463.00	-0.52	0.12	7.71	Deleted
MW-47M3	3/29/1999	851273.40	255753.20	-39.40	0.12	1.39	Deleted
MW-47M3	8/25/1999	851451.00	255724.40	-37.79	0.12	1.80	Deleted
MW-47M3	11/2/1999	851531.70	255711.40	-37.01	0.12	1.99	Deleted
MW-47M3	12/19/2001	852364.50	255578.60	-22.75	0.12	4.12	Deleted
MW-47S	3/30/1999	851041.70	255792.20	-30.56	0.12	1.39	Deleted
MW-47S	8/25/1999	851224.00	255761.50	-28.80	0.12	1.80	Deleted
MW-47S	11/17/1999	851325.20	255744.50	-27.78	0.12	2.03	Deleted
MW-532 (-22.55)	1/20/2010	849750.20	253185.10	-40.70	0.21	12.20	Deleted
MW-532 (-42.55)	1/20/2010	849890.10	253147.50	-55.05	0.13	12.20	Deleted
MW-532 (-52.55)	1/20/2010	849915.20	253140.80	-62.94	0.13	12.20	Deleted
MW-532M1	4/19/2010	850113.40	253097.60	-69.46	0.13	12.45	Deleted
MW-532M1	8/17/2010	850224.80	253075.30	-68.40	0.12	12.78	Deleted
MW-532M1	12/30/2010	850346.90	253053.00	-67.37	0.10	13.15	Deleted
MW-532M1	4/14/2011	850440.30	253037.50	-66.65	0.24	13.43	Deleted
MW-532M2	4/19/2010	849904.90	253146.30	-46.15	0.22	12.45	Deleted
MW-532M2	8/17/2010	850037.70	253115.20	-43.82	0.13	12.78	Deleted
MW-542 (33.81)	2/2/2010	849021.60	253482.00	-7.61	0.13	12.24	Deleted
MW-542 (23.81)	2/2/2010	849124.70	253464.30	-16.58	0.13	12.24	Deleted
MW-542 (13.81)	2/2/2010	849254.10	253450.30	-22.55	0.13	12.24	Deleted
MW-542 (3.81)	2/2/2010	849590.40	253426.30	-21.86	0.13	12.24	Deleted
MW-542 (-6.19)	2/2/2010	849752.30	253396.30	-26.73	0.13	12.24	Deleted
MW-542 (-16.19)	2/2/2010	849746.30	253395.80	-34.77	0.13	12.24	Deleted
MW-542 (-26.19)	2/3/2010	849757.50	253392.50	-42.61	0.13	12.24	Deleted
MW-542 (-36.19)	2/3/2010	849839.60	253375.70	-49.81	0.13	12.24	Deleted
MW-542 (-46.19)	2/3/2010	849889.80	253364.50	-57.36	0.13	12.24	Deleted
MW-542 (-66.19)	2/3/2010	850032.60	253334.70	-73.01	0.13	12.24	Deleted
MW-542 (-76.19)	2/3/2010	850110.30	253319.60	-81.22	0.13	12.24	Deleted
MW-543M1	11/30/2010	847930.40	253195.70	-80.23	0.15	13.06	Deleted
MW-543M1	6/23/2011	848246.80	253169.70	-81.40	0.16	13.62	Deleted
MW-543M1	9/19/2011	848386.30	253155.20	-81.44	0.17	13.87	Deleted
MW-543M1	12/22/2011	848533.80	253139.50	-81.17	0.18	14.12	Deleted
MW-543M1	5/31/2012	848765.80	253100.20	-79.94	0.20	14.56	Deleted
MW-543M1	12/11/2012	849064.10	253010.10	-75.75	0.23	15.09	Deleted
MW-543M2	6/23/2011	847678.40	253230.50	-52.44	0.16	13.62	Deleted
MW-543M2	9/19/2011	847892.90	253211.10	-52.81	0.17	13.87	Deleted
MW-543M2	12/22/2011	848139.50	253189.70	-55.34	0.18	14.12	Deleted
MW-543M2	6/1/2012	848566.60	253135.00	-54.48	0.20	14.57	Deleted
MW-543M2	12/11/2012	849027.30	253024.80	-46.60	0.23	15.09	Deleted
MW-543M2	12/1/2010	847156.30	253266.90	-53.51	0.15	13.07	Deleted
MW-544M1	12/13/2010	848289.10	253329.70	-95.04	0.15	13.10	Deleted
MW-544M1	6/21/2011	848612.50	253299.30	-94.49	0.16	13.62	Deleted

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-544M1	7/20/2011	848658.20	253292.90	-94.39	0.17	13.70	Deleted
MW-544M1	9/20/2011	848754.10	253278.30	-94.11	0.16	13.87	Deleted
MW-544M1	12/21/2011	848898.00	253257.40	-93.52	0.12	14.12	Deleted
MW-544M1	3/20/2012	849006.70	253231.30	-93.21	0.10	14.37	Deleted
MW-544M1	5/31/2012	849067.80	253218.70	-93.29	0.04	14.56	Deleted
MW-544M1	12/11/2012	849196.70	253181.20	-93.34	0.23	15.09	Deleted
MW-544M2	12/10/2010	847375.30	253386.40	-51.46	0.15	13.09	Deleted
MW-544M2	6/22/2011	847869.70	253395.10	-57.61	0.16	13.62	Deleted
MW-544M2	9/20/2011	848110.70	253368.50	-59.92	0.17	13.87	Deleted
MW-544M2	12/22/2011	848444.40	253337.60	-60.58	0.18	14.12	Deleted
MW-544M2	3/20/2012	848654.20	253314.40	-59.92	0.19	14.37	Deleted
MW-544M2	5/30/2012	848822.40	253282.00	-58.29	0.20	14.56	Deleted
MW-544M2	12/11/2012	849152.70	253202.00	-48.88	0.23	15.09	Deleted
MW-544M3	12/9/2010	848037.30	253356.60	-32.38	0.15	13.09	Deleted
MW-544M3	6/21/2011	848348.40	253326.80	-36.52	0.16	13.62	Deleted
MW-544M3	9/20/2011	848486.00	253307.50	-36.31	0.17	13.87	Deleted
MW-544M3	12/21/2011	848631.80	253291.50	-37.03	0.18	14.12	Deleted
MW-544M3	5/31/2012	848857.50	253253.70	-32.58	0.20	14.56	Deleted
MW-544M3	12/11/2012	849124.40	253195.20	-18.13	0.23	15.09	Deleted
MW-545M1	12/7/2010	848961.00	253334.20	-100.14	0.15	13.08	Deleted
MW-545M1	12/10/2012	849285.50	253250.20	-101.81	0.07	15.09	Deleted
MW-545M3	9/21/2011	848561.50	253383.10	-62.86	0.09	13.87	Deleted
MW-545M3	12/20/2011	849284.30	253248.50	-61.86	0.07	14.12	Deleted
MW-545M3	5/30/2012	849284.30	253248.60	-57.06	0.03	14.56	Deleted
MW-545M3	12/10/2012	849284.40	253248.60	-48.99	0.23	15.09	Deleted
MW-545M4	12/8/2010	847964.30	253507.80	-39.62	0.15	13.09	Deleted
MW-545M4	6/16/2011	848121.10	253447.90	-47.09	0.16	13.61	Deleted
MW-545M4	9/20/2011	848365.40	253412.80	-48.63	0.17	13.87	Deleted
MW-545M4	12/20/2011	849284.30	253248.60	-51.13	0.03	14.12	Deleted
MW-545M4	5/30/2012	849284.40	253248.60	-43.94	0.20	14.56	Deleted
MW-545M4	12/10/2012	849284.20	253248.80	-29.92	0.23	15.09	Deleted
MW-546M1	12/13/2010	848576.50	253569.30	-88.64	0.15	13.10	Deleted
MW-546M1	6/20/2011	848828.20	253500.30	-87.66	0.16	13.62	Deleted
MW-546M1	9/22/2011	848938.80	253465.60	-86.77	0.17	13.87	Deleted
MW-546M1	12/20/2011	849023.90	253442.00	-85.82	0.18	14.12	Deleted
MW-546M1	5/29/2012	849151.40	253431.00	-84.80	0.20	14.56	Deleted
MW-546M1	12/10/2012	849298.50	253438.80	-83.19	0.23	15.09	Deleted
MW-546M2	12/13/2010	847670.30	253744.80	-51.65	0.15	13.10	Deleted
MW-546M2	6/20/2011	848112.00	253621.10	-59.80	0.16	13.62	Deleted
MW-546M2	9/22/2011	848364.10	253573.50	-60.05	0.17	13.87	Deleted
MW-546M2	12/20/2011	848587.60	253523.40	-59.71	0.18	14.12	Deleted
MW-546M2	5/29/2012	848952.10	253448.10	-54.76	0.20	14.56	Deleted
MW-546M2	12/10/2012	849237.70	253435.20	-46.58	0.23	15.09	Deleted
MW-554M1	5/20/2011	847562.40	253688.70	-75.15	0.16	13.53	Deleted
MW-554M1	6/29/2011	847635.10	253676.10	-74.86	0.21	13.64	Deleted
MW-554M1	12/22/2011	847920.50	253621.90	-72.14	0.23	14.12	Deleted

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-554M1	6/1/2012	848201.20	253579.80	-72.90	0.15	14.57	Deleted
MW-554M1	12/12/2012	848539.70	253530.40	-71.90	0.23	15.10	Deleted
MW-554M2	5/20/2011	847205.60	253747.60	-33.93	0.16	13.53	Deleted
MW-554M2	6/29/2011	847286.30	253734.30	-33.20	0.16	13.64	Deleted
MW-554M2	9/23/2011	847461.80	253705.70	-31.99	0.17	13.88	Deleted
MW-554M2	12/27/2011	847658.30	253670.00	-32.31	0.18	14.14	Deleted
MW-554M2	6/1/2012	847974.40	253609.60	-43.08	0.06	14.57	Deleted
MW-554M2	12/12/2012	848468.30	253540.30	-42.20	0.23	15.10	Deleted
MW-556M1	12/12/2012	848196.60	253572.70	-108.41	0.23	15.10	Deleted
MW-558M1	12/27/2011	847146.40	253594.90	-85.71	0.18	14.14	Deleted
MW-558M1	3/26/2012	847271.40	253579.20	-85.56	0.20	14.38	Deleted
MW-558M1	8/20/2012	847475.20	253552.80	-85.32	0.16	14.79	Deleted
MW-558M1	12/12/2012	847634.50	253532.10	-84.84	0.23	15.10	Deleted
MW-558M2	12/27/2011	846668.20	253655.30	-42.05	0.15	14.14	Deleted
MW-558M2	3/26/2012	846899.00	253626.20	-41.43	0.20	14.38	Deleted
MW-558M2	8/20/2012	847267.50	253579.70	-40.48	0.14	14.79	Deleted
MW-558M2	12/12/2012	847537.10	253544.00	-39.92	0.23	15.10	Deleted
MW-559 (14.82)	5/10/2011	846011.00	253601.50	-3.84	0.16	13.50	Deleted
MW-559 (4.82)	5/10/2011	846125.20	253590.00	-10.36	0.16	13.50	Deleted
MW-559 (-5.18)	5/11/2011	846232.40	253579.00	-15.80	0.16	13.51	Deleted
MW-559 (-15.18)	5/11/2011	846230.40	253579.20	-23.33	0.16	13.51	Deleted
MW-559 (-25.18)	5/11/2011	846228.00	253579.10	-30.71	0.16	13.51	Deleted
MW-559 (-35.18)	5/12/2011	846227.30	253579.30	-37.86	0.16	13.51	Deleted
MW-559 (-45.18)	5/12/2011	845944.40	253608.20	-55.89	0.16	13.51	Deleted
MW-559 (-75.18)	5/13/2011	846476.20	253563.40	-78.04	0.16	13.51	Deleted
MW-559 (-85.18)	5/16/2011	846729.20	253529.40	-87.51	0.16	13.52	Deleted
MW-559 (-95.18)	5/17/2011	846732.20	253527.30	-96.53	0.16	13.52	Deleted
MW-559 (-105.18)	5/18/2011	847395.80	253447.10	-106.08	0.16	13.53	Deleted
MW-559 (-115.18)	5/18/2011	847396.20	253447.10	-115.66	0.16	13.53	Deleted
MW-559 (-125.18)	5/19/2011	847396.60	253447.00	-125.33	0.16	13.53	Deleted
MW-559M1	12/27/2011	847048.10	253490.50	-89.42	0.18	14.14	Deleted
MW-559M1	3/26/2012	847174.00	253474.80	-89.22	0.20	14.38	Deleted
MW-559M1	8/20/2012	847378.20	253449.10	-88.89	0.22	14.79	Deleted
MW-559M1	12/11/2012	847535.20	253429.90	-88.58	0.23	15.09	Deleted
MW-559M2	1/3/2012	846746.50	253518.70	-38.53	0.19	14.16	Deleted
MW-559M2	3/27/2012	846925.60	253498.60	-37.97	0.20	14.39	Deleted
MW-559M2	8/20/2012	847231.70	253464.00	-36.96	0.22	14.79	Deleted
MW-559M2	12/12/2012	847467.30	253437.10	-36.34	0.23	15.10	Deleted
MW-560 (20.83)	6/8/2011	846568.70	253379.20	4.81	0.16	13.58	Deleted
MW-560 (10.83)	6/8/2011	846623.90	253372.90	-3.29	0.16	13.58	Deleted
MW-560 (0.83)	6/8/2011	846797.80	253356.30	-11.38	0.16	13.58	Deleted
MW-560 (-9.17)	6/8/2011	846844.70	253349.80	-17.87	0.16	13.58	Deleted
MW-560 (-19.17)	6/8/2011	846845.60	253349.00	-24.52	0.16	13.58	Deleted
MW-560 (-29.17)	6/9/2011	846848.80	253347.10	-31.18	0.16	13.59	Deleted
MW-560 (-39.17)	6/9/2011	846847.80	253344.30	-37.88	0.16	13.59	Deleted
MW-560 (-49.17)	6/9/2011	846505.60	253371.30	-49.17	0.16	13.59	Deleted

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-560 (-59.17)	6/10/2011	846544.80	253364.40	-60.52	0.16	13.59	Deleted
MW-560 (-69.17)	6/10/2011	847014.00	253322.20	-71.15	0.16	13.59	Deleted
MW-560 (-79.17)	6/10/2011	847063.20	253324.90	-81.07	0.16	13.59	Deleted
MW-560 (-89.17)	6/13/2011	847241.90	253309.80	-90.05	0.16	13.60	Deleted
MW-560 (-99.17)	6/13/2011	847240.80	253311.80	-99.64	0.16	13.60	Deleted
MW-560 (-109.17)	6/14/2011	847860.80	253250.20	-109.02	0.16	13.60	Deleted
MW-560 (-119.17)	6/14/2011	847860.40	253250.70	-119.12	0.16	13.60	Deleted
MW-560 (-129.17)	6/15/2011	847860.60	253250.90	-129.17	0.16	13.60	Deleted
MW-565 (30.26)	8/26/2011	845923.40	253461.50	11.88	0.17	13.80	Deleted
MW-565 (19.76)	8/26/2011	845923.20	253461.80	2.82	0.17	13.80	Deleted
MW-565 (10.76)	8/26/2011	845967.70	253457.70	-5.20	0.17	13.80	Deleted
MW-565 (0.76)	8/29/2011	846122.50	253439.70	-12.23	0.17	13.81	Deleted
MW-565 (-7.74)	8/29/2011	846135.40	253437.60	-19.16	0.17	13.81	Deleted
MW-565 (-18.24)	8/29/2011	846134.00	253437.90	-28.00	0.17	13.81	Deleted
MW-565 (-30.24)	8/29/2011	846132.20	253437.60	-37.97	0.17	13.81	Deleted
MW-565 (-38.24)	8/30/2011	845984.70	253460.20	-46.76	0.17	13.81	Deleted
MW-565 (-47.49)	8/30/2011	845899.20	253472.60	-54.29	0.17	13.81	Deleted
MW-565 (-56.99)	8/31/2011	845965.50	253452.00	-61.17	0.17	13.81	Deleted
MW-565 (-66.99)	9/1/2011	846354.00	253407.80	-75.12	0.17	13.82	Deleted
MW-565 (-76.99)	9/1/2011	846433.30	253413.70	-82.23	0.17	13.82	Deleted
MW-565 (-96.99)	9/2/2011	846560.70	253399.80	-98.27	0.17	13.82	Deleted
MW-565 (-106.99)	9/7/2011	847125.50	253337.70	-107.63	0.17	13.83	Deleted
MW-568 (-1.69)	11/1/2011	844858.10	253507.30	-13.80	0.18	13.98	Deleted
MW-568 (-11.69)	11/1/2011	844858.30	253507.40	-22.64	0.18	13.98	Deleted
MW-568 (-21.69)	11/1/2011	844858.50	253507.50	-31.46	0.18	13.98	Deleted
MW-568 (-31.69)	11/1/2011	844851.70	253508.40	-40.25	0.18	13.98	Deleted
MW-568 (-41.69)	11/1/2011	844625.50	253534.40	-48.95	0.18	13.98	Deleted
MW-568 (-51.69)	11/2/2011	844628.30	253534.10	-57.43	0.18	13.99	Deleted
MW-568 (-61.69)	11/2/2011	845054.40	253487.10	-65.99	0.18	13.99	Deleted
MW-568 (-71.69)	11/2/2011	845054.20	253487.00	-74.87	0.18	13.99	Deleted
MW-568 (-81.69)	11/2/2011	845245.10	253467.40	-83.82	0.18	13.99	Deleted
MW-568 (-91.69)	11/2/2011	845244.70	253467.10	-93.00	0.18	13.99	Deleted
MW-568 (-101.69)	11/3/2011	845770.30	253415.60	-102.17	0.18	13.99	Deleted
MW-568 (-111.69)	11/3/2011	845769.40	253414.90	-111.99	0.18	13.99	Deleted
MW-568 (-121.69)	11/3/2011	845769.00	253414.60	-121.83	0.18	13.99	Deleted
MW-569 (-9.99)	11/7/2011	845004.50	253737.40	-22.73	0.18	14.00	Deleted
MW-569 (-19.99)	11/7/2011	845006.40	253736.70	-32.09	0.18	14.00	Deleted
MW-569 (-29.99)	11/7/2011	844963.10	253741.50	-41.55	0.18	14.00	Deleted
MW-569 (-39.99)	11/7/2011	844781.70	253764.10	-50.41	0.18	14.00	Deleted
MW-569 (-49.99)	11/7/2011	844801.90	253762.80	-60.05	0.18	14.00	Deleted
MW-569 (-59.99)	11/8/2011	845241.10	253709.60	-66.51	0.18	14.00	Deleted
MW-569 (-69.99)	11/8/2011	845241.30	253709.60	-71.08	0.18	14.00	Deleted
MW-569 (-79.99)	11/8/2011	845301.50	253701.20	-81.21	0.18	14.00	Deleted
MW-569 (-89.99)	11/8/2011	845388.10	253692.60	-90.74	0.18	14.00	Deleted
MW-569 (-99.99)	11/8/2011	845719.60	253657.60	-100.37	0.18	14.00	Deleted
MW-569 (-109.99)	11/9/2011	845899.50	253639.70	-110.05	0.18	14.01	Deleted

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Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-569 (-119.99)	11/9/2011	845898.00	253640.10	-120.05	0.18	14.01	Deleted
MW-569 (-129.99)	11/9/2011	845897.80	253640.10	-129.99	0.18	14.01	Deleted
MW-570 (-8.28)	11/11/2011	845015.80	254114.70	-19.50	0.18	14.01	Deleted
MW-570 (-18.28)	11/11/2011	845015.80	254114.70	-28.27	0.18	14.01	Deleted
MW-570 (-28.28)	11/11/2011	845015.80	254114.70	-37.04	0.18	14.01	Deleted
MW-570 (-38.28)	11/11/2011	844833.90	254141.40	-45.80	0.18	14.01	Deleted
MW-570 (-48.28)	11/11/2011	844781.60	254149.40	-54.35	0.18	14.01	Deleted
MW-570 (-58.28)	11/11/2011	845050.90	254109.70	-62.84	0.18	14.01	Deleted
MW-570 (-68.28)	11/11/2011	845207.80	254087.80	-71.74	0.18	14.01	Deleted
MW-570 (-78.28)	11/14/2011	845266.90	254079.80	-80.69	0.18	14.02	Deleted
MW-570 (-88.28)	11/14/2011	845401.80	254062.10	-89.82	0.18	14.02	Deleted
MW-570 (-98.28)	11/14/2011	845401.70	254062.10	-99.01	0.18	14.02	Deleted
MW-570 (-108.28)	11/15/2011	845917.80	253999.90	-108.57	0.18	14.02	Deleted
MW-570 (-118.28)	11/15/2011	845917.30	253999.80	-118.42	0.18	14.02	Deleted
MW-570 (-128.28)	11/15/2011	845917.00	253999.70	-128.30	0.18	14.02	Deleted
MW-571 (3.75)	11/18/2011	844789.90	253660.50	-8.61	0.18	14.03	Deleted
MW-571 (-6.25)	11/18/2011	844844.30	253653.90	-17.46	0.18	14.03	Deleted
MW-571 (-16.25)	11/18/2011	844844.50	253653.90	-26.33	0.18	14.03	Deleted
MW-571 (-26.25)	11/18/2011	844844.70	253653.90	-35.17	0.18	14.03	Deleted
MW-571 (-36.25)	11/18/2011	844722.90	253669.10	-43.99	0.18	14.03	Deleted
MW-571 (-46.25)	11/18/2011	844618.00	253682.80	-52.61	0.18	14.03	Deleted
MW-571 (-56.25)	11/21/2011	844720.90	253669.40	-61.10	0.03	14.04	Deleted
MW-571 (-66.25)	11/21/2011	845038.80	253631.20	-69.89	0.06	14.04	Deleted
MW-571 (-76.25)	11/21/2011	845038.60	253631.20	-78.84	0.02	14.04	Deleted
MW-571 (-86.25)	11/21/2011	845223.10	253610.60	-87.93	0.18	14.04	Deleted
MW-571 (-96.25)	11/22/2011	845224.20	253610.40	-97.15	0.18	14.04	Deleted
MW-571 (-106.25)	11/22/2011	845729.90	253557.50	-106.62	0.18	14.04	Deleted
MW-571 (-116.25)	11/29/2011	845731.90	253557.00	-116.45	0.18	14.06	Deleted
MW-597M1	2/28/2013	849737.70	252992.80	-93.89	0.24	15.31	Deleted
MW-597M2	2/28/2013	849729.70	252995.50	-64.19	0.24	15.31	Deleted
MW-598M1	3/5/2013	844353.80	253651.60	-62.52	0.25	15.32	Deleted
MW-598M2	3/5/2013	844347.90	253652.60	-28.81	0.25	15.32	Deleted
MW-64 (66.38)	8/31/1999	856296.90	249630.90	-10.99	0.12	1.81	Deleted
MW-64 (57.38)	8/31/1999	856296.80	249630.80	-14.25	0.12	1.81	Deleted
MW-64 (47.38)	9/1/1999	856297.70	249631.40	-18.25	0.12	1.82	Deleted
MW-64 (37.38)	9/1/1999	856322.90	249647.80	-22.37	0.12	1.82	Deleted
MW-64 (27.38)	9/1/1999	856371.70	249679.90	-26.50	0.12	1.82	Deleted
MW-64 (17.38)	9/1/1999	856426.80	249716.60	-30.66	0.12	1.82	Deleted
MW-64 (7.38)	9/1/1999	856490.30	249758.40	-34.84	0.12	1.82	Deleted
MW-64 (-2.62)	9/1/1999	856569.90	249808.00	-39.07	0.12	1.82	Deleted
MW-64 (-12.62)	9/1/1999	856881.70	250013.90	-43.43	0.12	1.82	Deleted
MW-64 (-22.62)	9/2/1999	857302.90	250305.90	-47.87	0.12	1.82	Deleted
MW-64 (-32.62)	9/2/1999	857749.40	250616.20	-52.63	0.12	1.82	Deleted
MW-64 (-42.62)	9/2/1999	858178.30	250924.00	-58.32	0.12	1.82	Deleted
MW-64 (-52.62)	9/7/1999	858298.30	251007.80	-64.91	0.12	1.83	Deleted
MW-64 (-62.62)	9/7/1999	858456.60	251119.40	-71.97	0.12	1.83	Deleted

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-64 (-72.62)	9/7/1999	858457.10	251117.00	-79.22	0.12	1.83	Deleted
MW-64 (-82.62)	9/7/1999	858825.80	251370.20	-87.31	0.12	1.83	Deleted
MW-64M2	10/20/1999	856348.60	249659.90	-13.74	0.12	1.95	Deleted
MW-64M2	2/7/2000	856449.90	249723.10	-12.61	0.12	2.25	Deleted
MW-64M2	4/20/2000	856516.40	249765.10	-11.87	0.12	2.45	Deleted
MW-64M2	8/15/2000	856622.00	249832.40	-10.66	0.12	2.77	Deleted
MW-64M2	8/8/2001	856936.30	250038.40	-6.85	0.12	3.75	Deleted
MW-64M2	9/12/2003	857554.70	250475.40	1.90	0.12	5.85	Deleted
MW-64M2	8/26/2004	857810.50	250668.00	6.17	0.12	6.80	Deleted
MW-64M2	9/9/2005	858071.40	250867.40	11.01	0.12	7.84	Deleted
MW-64M2	8/31/2009	858970.30	251499.60	32.65	0.12	11.81	Deleted
MW-64M2	9/27/2010	859198.60	251641.30	39.49	0.14	12.89	Deleted
MW-64M2	8/15/2011	859382.60	251754.80	45.44	0.17	13.77	Deleted
MW-73S	4/29/2009	859511.10	254021.90	36.73	0.59	11.48	Deleted
MW-73S	9/27/2003	858249.90	253590.80	29.77	5.61	5.89	Deleted
MW-73S	6/1/2004	858445.90	253676.90	13.15	5.14	6.57	Deleted
MW-73S	8/8/2005	858751.30	253778.50	15.60	4.35	7.75	Deleted
MW-73S	4/12/2006	858893.40	253823.20	18.81	4.54	8.43	Deleted
MW-73S	4/30/2007	859111.30	253892.00	24.42	1.22	9.48	Deleted
MW-74M1	4/5/2004	857495.30	253623.00	-18.57	0.12	6.41	Deleted
MW-74M1	8/3/2004	857581.30	253639.70	-19.40	0.12	6.74	Deleted
MW-74M1	12/8/2004	857624.40	253631.70	-18.84	0.12	7.09	Deleted
MW-74M1	6/22/2005	857718.00	253627.40	-17.20	0.12	7.62	Deleted
MW-74M2	4/19/2005	857461.20	253569.50	7.66	0.12	7.45	Deleted
MW-75M1	12/3/2003	857556.20	253503.10	-1.71	0.12	6.07	Deleted
MW-75M1	4/28/2009	858249.90	253590.80	26.19	0.12	11.47	Deleted
MW-75M1	4/8/2010	858269.70	253835.30	-1.79	0.13	12.42	Deleted
MW-75M1	4/18/2011	858475.60	253987.10	-1.96	0.16	13.44	Deleted
MW-75M1	4/23/2012	858682.70	254082.50	1.29	0.20	14.46	Deleted
MW-75M2	2/25/2004	857435.50	253511.90	9.24	0.12	6.30	Deleted
MW-75M2	4/7/2004	857660.60	253493.30	11.30	0.12	6.42	Deleted
MW-75M2	4/28/2009	858250.00	253590.80	51.12	0.12	11.47	Deleted
MW-75M2	4/8/2010	858224.10	253764.60	19.81	0.13	12.42	Deleted
MW-75M2	4/18/2011	858430.40	253961.90	20.16	0.16	13.44	Deleted
MW-75M2	4/23/2012	858665.70	254076.20	24.91	0.20	14.46	Deleted
MW-76M1	4/20/2011	858459.20	253693.60	1.55	2.26	13.45	Deleted
MW-76M1	4/23/2012	858729.90	253789.50	2.49	1.97	14.46	Deleted
MW-76M2	4/20/2011	858417.40	253677.20	19.43	3.66	13.45	Deleted
MW-76S	4/20/2011	858387.40	253662.40	36.11	0.18	13.45	Deleted
MW-77M1	12/26/2001	857916.10	253511.90	-0.66	0.12	4.14	Deleted
MW-77M1	4/21/2009	858249.90	253590.80	29.31	0.12	11.45	Deleted
MW-77M1	4/8/2010	858300.90	253713.20	-28.03	0.13	12.42	Deleted
MW-77M1	4/20/2011	858532.60	253864.80	-35.94	0.16	13.45	Deleted
MW-77M1	4/19/2012	858726.10	253946.00	-35.35	0.20	14.45	Deleted
MW-77M2	4/20/2011	858432.30	253811.30	18.11	0.41	13.45	Deleted
MW-77S	4/20/2011	858413.50	253797.20	48.54	0.16	13.45	Deleted

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-77S	4/19/2012	858678.00	253925.80	55.23	0.20	14.45	Deleted
MW-78 (-48.65)	1/6/2000	857449.80	253463.30	-31.07	0.12	2.16	Deleted
MW-78M1	4/13/2010	858249.90	253590.80	30.52	0.13	12.43	Deleted
MW-78M1	4/20/2011	858519.00	253602.90	1.03	0.16	13.45	Deleted
MW-78M1	4/23/2012	858786.00	253665.60	2.69	0.20	14.46	Deleted
MW-78M2	4/13/2010	858250.00	253590.80	46.22	0.13	12.43	Deleted
MW-78M2	4/20/2011	858477.80	253594.60	18.70	0.16	13.45	Deleted
MW-78M2	4/23/2012	858765.60	253658.20	21.41	0.20	14.46	Deleted
MW-79 (59.09)	10/29/1999	858529.10	253656.70	-9.86	0.12	1.98	Deleted
MW-79 (49.09)	10/29/1999	858584.60	253671.90	-15.54	0.12	1.98	Deleted
MW-79 (39.09)	10/29/1999	858658.90	253692.70	-21.22	0.12	1.98	Deleted
MW-79 (29.09)	10/29/1999	858754.10	253720.30	-27.00	0.12	1.98	Deleted
MW-79 (19.09)	11/1/1999	858845.20	253747.40	-32.62	0.12	1.98	Deleted
MW-79 (9.09)	11/1/1999	858905.60	253765.60	-38.10	0.12	1.98	Deleted
MW-79 (-0.91)	11/1/1999	859014.90	253799.30	-43.71	0.12	1.98	Deleted
MW-79 (-10.91)	11/1/1999	859129.00	253835.30	-49.50	0.12	1.98	Deleted
MW-79 (-20.91)	11/1/1999	859246.80	253872.70	-55.47	0.12	1.98	Deleted
MW-79 (-30.91)	11/1/1999	859343.40	253903.80	-61.51	0.12	1.98	Deleted
MW-79 (-40.91)	11/1/1999	859500.80	253955.70	-67.88	0.12	1.98	Deleted
MW-79M1	1/25/2000	859057.10	253812.40	-43.84	0.12	2.22	Deleted
MW-79M1	5/10/2000	859095.30	253824.20	-43.26	0.12	2.51	Deleted
MW-79M1	8/1/2000	859124.80	253833.40	-42.79	0.12	2.73	Deleted
MW-79M1	8/16/2001	859256.20	253874.90	-40.49	0.12	3.77	Deleted
MW-79M1	4/25/2002	859353.10	253906.00	-38.85	0.12	4.46	Deleted
MW-79M1	5/15/2003	859504.10	253955.40	-36.17	0.12	5.52	Deleted
MW-79M1	9/29/2004	859692.20	254018.00	-32.39	0.12	6.89	Deleted
MW-79M1	4/30/2005	859769.90	254044.20	-30.70	0.12	7.48	Deleted
MW-79M1	4/12/2006	859894.60	254086.60	-27.83	0.12	8.43	Deleted
MW-79M1	4/27/2007	860027.70	254132.40	-24.51	0.12	9.47	Deleted
MW-79M2	1/25/2000	858714.40	253710.80	-21.52	0.12	2.22	Deleted
MW-79M2	5/9/2000	858768.60	253726.50	-21.02	0.12	2.50	Deleted
MW-79M2	8/1/2000	858810.50	253738.80	-20.52	0.12	2.73	Deleted
MW-79M2	8/16/2001	859004.10	253797.30	-17.65	0.12	3.77	Deleted
MW-79M2	4/25/2002	859127.00	253835.50	-15.39	0.12	4.46	Deleted
MW-79M2	5/15/2003	859305.70	253892.40	-11.62	0.12	5.52	Deleted
MW-79M2	9/29/2004	859526.60	253964.50	-6.23	0.12	6.89	Deleted
MW-79M2	4/30/2005	859616.20	253994.30	-3.80	0.12	7.48	Deleted
MW-79M2	4/12/2006	859759.20	254042.30	0.32	0.12	8.43	Deleted
MW-79M2	4/27/2007	859918.60	254096.70	5.10	0.12	9.47	Deleted
MW-79S	1/25/2000	858559.60	253666.90	-6.90	0.12	2.22	Deleted
MW-79S	5/8/2000	858630.20	253686.60	-6.82	0.12	2.50	Deleted
MW-79S	8/1/2000	858683.80	253701.80	-6.44	0.12	2.73	Deleted
MW-79S	8/16/2001	858896.00	253764.20	-3.26	0.12	3.77	Deleted
MW-79S	9/29/2004	859453.40	253940.20	10.51	0.12	6.89	Deleted
MW-79S	4/30/2005	859549.70	253971.90	13.45	0.12	7.48	Deleted
MW-79S	4/12/2006	859702.40	254023.00	18.45	0.12	8.43	Deleted

Table 1
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Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-79S	4/27/2007	859875.30	254081.70	24.25	0.12	9.47	Deleted
PW-304	12/18/2003	858165.70	252547.80	-17.33	0.12	6.11	Deleted
PW-304	1/7/2004	858172.70	252552.10	-17.15	0.12	6.17	Deleted
PW-304	9/21/2005	858396.80	252666.60	-11.23	0.12	7.87	Deleted
PW-304	1/16/2008	858739.70	252787.00	-2.51	0.12	10.19	Deleted
PW-304	5/7/2009	858972.10	252846.70	2.94	0.12	11.50	Deleted
XX9514	2/10/1998	840990.70	255241.00	5.94	0.12	0.26	Deleted
XX9514	1/22/1999	841421.30	254988.20	-56.68	0.12	1.21	Deleted
XX9514	9/28/1999	841733.70	254773.20	-73.86	0.12	1.89	Deleted
XX9514	8/28/2000	842028.30	254569.50	-79.01	0.12	2.81	Deleted
XX9514	9/5/2001	843038.90	254141.00	-78.52	0.12	3.83	Deleted
XX9514	9/6/2002	847081.90	253506.10	-70.60	0.12	4.83	Deleted
XX9514	11/14/2003	847588.30	253440.60	-69.31	0.12	6.02	Deleted
XX9514	10/14/2004	847591.10	253439.60	-67.07	0.12	6.94	Deleted
BH-17	10/25/2000	860292.90	254268.00	65.53	18.00	2.97	Predicted Extraction/Removal
MW-114 (63.73)	8/11/2000	857818.90	253649.40	63.73	0.25	2.76	Predicted Extraction/Removal
MW-114 (56.73)	8/11/2000	857818.90	253649.40	56.73	0.25	2.76	Predicted Extraction/Removal
MW-114 (46.73)	8/11/2000	857818.90	253649.40	46.73	0.25	2.76	Predicted Extraction/Removal
MW-114 (36.73)	8/14/2000	857818.90	253649.40	36.73	3.20	2.77	Predicted Extraction/Removal
MW-114 (26.73)	8/14/2000	857818.90	253649.40	26.73	130.00	2.77	Predicted Extraction/Removal
MW-114 (16.73)	8/14/2000	857818.90	253649.40	16.73	100.00	2.77	Predicted Extraction/Removal
MW-114 (6.73)	8/14/2000	857818.90	253649.40	6.73	15.00	2.77	Predicted Extraction/Removal
MW-114 (-3.27)	8/14/2000	857818.90	253649.40	-3.27	1.20	2.77	Predicted Extraction/Removal
MW-114 (-13.27)	8/14/2000	857818.90	253649.40	-13.27	8.90	2.77	Predicted Extraction/Removal
MW-114 (-23.27)	8/14/2000	857818.90	253649.40	-23.27	3.20	2.77	Predicted Extraction/Removal
MW-114 (-33.27)	8/14/2000	857818.90	253649.40	-33.27	0.25	2.77	Predicted Extraction/Removal
MW-114 (-43.27)	8/14/2000	857818.90	253649.40	-43.27	0.25	2.77	Predicted Extraction/Removal
MW-114 (-53.27)	8/14/2000	857818.90	253649.40	-53.27	0.25	2.77	Predicted Extraction/Removal
MW-114 (-63.27)	8/14/2000	857818.90	253649.40	-63.27	0.25	2.77	Predicted Extraction/Removal
MW-114 (-73.27)	8/14/2000	857818.90	253649.40	-73.27	0.25	2.77	Predicted Extraction/Removal
MW-114M1	10/24/2000	857818.90	253650.40	-35.27	0.40	2.96	Predicted Extraction/Removal
MW-114M1	3/14/2001	857818.90	253650.40	-35.27	2.00	3.35	Predicted Extraction/Removal
MW-114M1	6/18/2001	857818.90	253650.40	-35.27	1.60	3.61	Predicted Extraction/Removal
MW-114M1	12/21/2001	857818.90	253650.40	-35.27	3.30	4.12	Predicted Extraction/Removal
MW-114M1	6/21/2002	857818.90	253650.40	-35.27	2.10	4.62	Predicted Extraction/Removal
MW-114M1	8/9/2002	857818.90	253650.40	-35.27	2.50	4.75	Predicted Extraction/Removal
MW-114M1	11/13/2002	857818.90	253650.40	-35.27	1.70	5.02	Predicted Extraction/Removal
MW-114M1	5/27/2003	857818.90	253650.40	-35.27	1.20	5.55	Predicted Extraction/Removal
MW-114M1	10/2/2003	857818.90	253650.40	-35.27	1.10	5.90	Predicted Extraction/Removal
MW-114M1	2/9/2004	857818.90	253650.40	-35.27	1.60	6.26	Predicted Extraction/Removal
MW-114M1	4/19/2004	857818.90	253650.40	-35.27	1.40	6.45	Predicted Extraction/Removal
MW-114M1	7/30/2004	857818.90	253650.40	-35.27	0.67	6.73	Predicted Extraction/Removal
MW-114M1	12/7/2004	857818.90	253650.40	-35.27	0.56	7.08	Predicted Extraction/Removal
MW-114M1	6/21/2005	857818.90	253650.40	-35.27	0.26	7.62	Predicted Extraction/Removal
MW-114M1	2/8/2006	857818.90	253650.40	-35.27	0.25	8.26	Predicted Extraction/Removal
MW-114M1	4/18/2006	857818.90	253650.40	-35.27	0.27	8.44	Predicted Extraction/Removal

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Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-114M1	1/2/2007	857818.90	253650.40	-35.27	1.30	9.15	Predicted Extraction/Removal
MW-114M1	4/19/2007	857818.90	253650.40	-35.27	2.02	9.45	Predicted Extraction/Removal
MW-114M1	4/8/2008	857818.90	253650.40	-35.27	10.60	10.42	Predicted Extraction/Removal
MW-114M1	4/21/2009	857818.90	253650.40	-35.27	4.54	11.45	Predicted Extraction/Removal
MW-114M1	11/16/2009	857818.90	253650.40	-35.27	1.30	12.03	Predicted Extraction/Removal
MW-114M1	4/13/2010	857818.90	253650.40	-35.27	0.79	12.43	Predicted Extraction/Removal
MW-114M2	10/24/2000	857818.90	253648.40	21.73	140.00	2.96	Predicted Extraction/Removal
MW-114M2	3/14/2001	857818.90	253648.40	21.73	120.00	3.35	Predicted Extraction/Removal
MW-114M2	6/19/2001	857818.90	253648.40	21.73	140.00	3.61	Predicted Extraction/Removal
MW-114M2	1/7/2002	857818.90	253648.40	21.73	170.00	4.17	Predicted Extraction/Removal
MW-114M2	5/29/2002	857818.90	253648.40	21.73	190.00	4.56	Predicted Extraction/Removal
MW-114M2	8/9/2002	857818.90	253648.40	21.73	210.00	4.75	Predicted Extraction/Removal
MW-114M2	11/13/2002	857818.90	253648.40	21.73	220.00	5.02	Predicted Extraction/Removal
MW-114M2	5/27/2003	857818.90	253648.40	21.73	200.00	5.55	Predicted Extraction/Removal
MW-114M2	10/1/2003	857818.90	253648.40	21.73	220.00	5.90	Predicted Extraction/Removal
MW-114M2	2/9/2004	857818.90	253648.40	21.73	210.00	6.26	Predicted Extraction/Removal
MW-114M2	4/19/2004	857818.90	253648.40	21.73	180.00	6.45	Predicted Extraction/Removal
MW-114M2	7/30/2004	857818.90	253648.40	21.73	160.00	6.73	Predicted Extraction/Removal
MW-114M2	4/13/2005	857818.90	253648.40	21.73	140.00	7.43	Predicted Extraction/Removal
MW-114M2	4/18/2006	857818.90	253648.40	21.73	220.00	8.44	Predicted Extraction/Removal
MW-114M2	4/18/2006	857818.90	253648.40	21.73	220.00	8.44	Predicted Extraction/Removal
MW-114M2	4/19/2007	857818.90	253648.40	21.73	86.50	9.45	Predicted Extraction/Removal
MW-114M2	12/6/2007	857818.90	253648.40	21.73	112.00	10.08	Predicted Extraction/Removal
MW-114M2	1/31/2008	857818.90	253648.40	21.73	102.00	10.23	Predicted Extraction/Removal
MW-114M2	4/8/2008	857818.90	253648.40	21.73	33.70	10.42	Predicted Extraction/Removal
MW-114M2	12/23/2008	857818.90	253648.40	21.73	3.44	11.13	Predicted Extraction/Removal
MW-114M2	4/21/2009	857818.90	253648.40	21.73	1.30	11.45	Predicted Extraction/Removal
MW-114M2	11/16/2009	857818.90	253648.40	21.73	0.23	12.03	Predicted Extraction/Removal
MW-114M2	4/13/2010	857818.90	253648.40	21.73	0.25	12.43	Predicted Extraction/Removal
MW-114M2	12/23/2010	857818.90	253648.40	21.73	0.25	13.13	Predicted Extraction/Removal
MW-129 (51.25)	9/26/2000	857861.10	253461.50	51.25	0.25	2.89	Predicted Extraction/Removal
MW-129 (46.25)	9/26/2000	857861.10	253461.50	46.25	0.25	2.89	Predicted Extraction/Removal
MW-129 (36.25)	9/26/2000	857861.10	253461.50	36.25	0.25	2.89	Predicted Extraction/Removal
MW-129 (26.25)	9/26/2000	857861.10	253461.50	26.25	0.25	2.89	Predicted Extraction/Removal
MW-129 (16.25)	9/26/2000	857861.10	253461.50	16.25	0.25	2.89	Predicted Extraction/Removal
MW-129 (6.25)	9/26/2000	857861.10	253461.50	6.25	1.10	2.89	Predicted Extraction/Removal
MW-129 (-3.75)	9/26/2000	857861.10	253461.50	-3.75	0.54	2.89	Predicted Extraction/Removal
MW-129 (-13.75)	9/26/2000	857861.10	253461.50	-13.75	0.25	2.89	Predicted Extraction/Removal
MW-129 (-23.75)	9/27/2000	857861.10	253461.50	-23.75	0.25	2.89	Predicted Extraction/Removal
MW-129 (-33.75)	9/27/2000	857861.10	253461.50	-33.75	0.25	2.89	Predicted Extraction/Removal
MW-129 (-43.75)	9/27/2000	857861.10	253461.50	-43.75	0.25	2.89	Predicted Extraction/Removal
MW-129 (-53.75)	9/27/2000	857861.10	253461.50	-53.75	0.25	2.89	Predicted Extraction/Removal
MW-129 (-63.75)	9/27/2000	857861.10	253461.50	-63.75	0.25	2.89	Predicted Extraction/Removal
MW-129 (-73.75)	9/27/2000	857861.10	253461.50	-73.75	0.25	2.89	Predicted Extraction/Removal
MW-129 (-83.75)	9/27/2000	857861.10	253461.50	-83.75	0.25	2.89	Predicted Extraction/Removal
MW-129 (-93.75)	9/27/2000	857861.10	253461.50	-93.75	0.25	2.89	Predicted Extraction/Removal

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-129M1	11/3/2000	857861.10	253462.50	-4.75	0.66	2.99	Predicted Extraction/Removal
MW-129M1	3/14/2001	857861.10	253462.50	-4.75	0.62	3.35	Predicted Extraction/Removal
MW-129M1	6/19/2001	857861.10	253462.50	-4.75	0.48	3.61	Predicted Extraction/Removal
MW-129M1	12/21/2001	857861.10	253462.50	-4.75	1.50	4.12	Predicted Extraction/Removal
MW-129M1	4/12/2002	857861.10	253462.50	-4.75	1.70	4.43	Predicted Extraction/Removal
MW-129M1	6/27/2002	857861.10	253462.50	-4.75	0.72	4.64	Predicted Extraction/Removal
MW-129M1	7/10/2002	857861.10	253462.50	-4.75	0.50	4.67	Predicted Extraction/Removal
MW-129M1	8/19/2002	857861.10	253462.50	-4.75	0.25	4.78	Predicted Extraction/Removal
MW-129M1	11/13/2002	857861.10	253462.50	-4.75	0.26	5.02	Predicted Extraction/Removal
MW-129M1	3/24/2003	857861.10	253462.50	-4.75	1.70	5.38	Predicted Extraction/Removal
MW-129M1	10/2/2003	857861.10	253462.50	-4.75	1.60	5.90	Predicted Extraction/Removal
MW-129M1	2/10/2004	857861.10	253462.50	-4.75	2.20	6.26	Predicted Extraction/Removal
MW-129M1	4/7/2004	857861.10	253462.50	-4.75	2.50	6.42	Predicted Extraction/Removal
MW-129M1	8/6/2004	857861.10	253462.50	-4.75	1.70	6.75	Predicted Extraction/Removal
MW-129M1	4/5/2005	857861.10	253462.50	-4.75	1.70	7.41	Predicted Extraction/Removal
MW-129M1	4/19/2006	857861.10	253462.50	-4.75	0.35	8.45	Predicted Extraction/Removal
MW-129M1	4/18/2007	857861.10	253462.50	-4.75	7.79	9.44	Predicted Extraction/Removal
MW-129M1	4/22/2008	857861.10	253462.50	-4.75	16.80	10.46	Predicted Extraction/Removal
MW-129M1	4/22/2009	857861.10	253462.50	-4.75	0.25	11.46	Predicted Extraction/Removal
MW-129M1	4/15/2010	857861.10	253462.50	-4.75	0.25	12.44	Predicted Extraction/Removal
MW-129M2	11/3/2000	857861.10	253460.50	15.25	1.70	2.99	Predicted Extraction/Removal
MW-129M2	3/14/2001	857861.10	253460.50	15.25	1.20	3.35	Predicted Extraction/Removal
MW-129M2	6/20/2001	857861.10	253460.50	15.25	1.80	3.62	Predicted Extraction/Removal
MW-129M2	12/21/2001	857861.10	253460.50	15.25	10.00	4.12	Predicted Extraction/Removal
MW-129M2	4/12/2002	857861.10	253460.50	15.25	0.25	4.43	Predicted Extraction/Removal
MW-129M2	6/27/2002	857861.10	253460.50	15.25	7.60	4.64	Predicted Extraction/Removal
MW-129M2	7/10/2002	857861.10	253460.50	15.25	7.90	4.67	Predicted Extraction/Removal
MW-129M2	8/19/2002	857861.10	253460.50	15.25	8.40	4.78	Predicted Extraction/Removal
MW-129M2	11/13/2002	857861.10	253460.50	15.25	13.00	5.02	Predicted Extraction/Removal
MW-129M2	3/24/2003	857861.10	253460.50	15.25	13.00	5.38	Predicted Extraction/Removal
MW-129M2	10/2/2003	857861.10	253460.50	15.25	3.80	5.90	Predicted Extraction/Removal
MW-129M2	2/10/2004	857861.10	253460.50	15.25	2.80	6.26	Predicted Extraction/Removal
MW-129M2	4/7/2004	857861.10	253460.50	15.25	2.10	6.42	Predicted Extraction/Removal
MW-129M2	8/6/2004	857861.10	253460.50	15.25	2.80	6.75	Predicted Extraction/Removal
MW-129M2	4/5/2005	857861.10	253460.50	15.25	4.40	7.41	Predicted Extraction/Removal
MW-129M2	4/19/2006	857861.10	253460.50	15.25	14.00	8.45	Predicted Extraction/Removal
MW-129M2	4/19/2007	857861.10	253460.50	15.25	6.27	9.45	Predicted Extraction/Removal
MW-129M2	12/6/2007	857861.10	253460.50	15.25	71.90	10.08	Predicted Extraction/Removal
MW-129M2	1/31/2008	857861.10	253460.50	15.25	68.60	10.23	Predicted Extraction/Removal
MW-129M2	4/22/2008	857861.10	253460.50	15.25	61.10	10.46	Predicted Extraction/Removal
MW-129M2	12/23/2008	857861.10	253460.50	15.25	1.97	11.13	Predicted Extraction/Removal
MW-129M2	4/22/2009	857861.10	253460.50	15.25	0.58	11.46	Predicted Extraction/Removal
MW-129M2	11/16/2009	857861.10	253460.50	15.25	0.25	12.03	Predicted Extraction/Removal
MW-129M2	4/15/2010	857861.10	253460.50	15.25	0.25	12.44	Predicted Extraction/Removal
MW-129M3	11/3/2000	857862.10	253461.50	35.25	0.25	2.99	Predicted Extraction/Removal
MW-129M3	3/14/2001	857862.10	253461.50	35.25	0.25	3.35	Predicted Extraction/Removal

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-129M3	6/20/2001	857862.10	253461.50	35.25	0.25	3.62	Predicted Extraction/Removal
MW-129M3	12/21/2001	857862.10	253461.50	35.25	0.25	4.12	Predicted Extraction/Removal
MW-129M3	4/15/2002	857862.10	253461.50	35.25	0.32	4.44	Predicted Extraction/Removal
MW-129M3	8/19/2002	857862.10	253461.50	35.25	0.25	4.78	Predicted Extraction/Removal
MW-129M3	11/13/2002	857862.10	253461.50	35.25	0.25	5.02	Predicted Extraction/Removal
MW-129M3	3/24/2003	857862.10	253461.50	35.25	0.25	5.38	Predicted Extraction/Removal
MW-129M3	10/2/2003	857862.10	253461.50	35.25	0.25	5.90	Predicted Extraction/Removal
MW-129M3	2/10/2004	857862.10	253461.50	35.25	0.25	6.26	Predicted Extraction/Removal
MW-129M3	4/7/2004	857862.10	253461.50	35.25	0.25	6.42	Predicted Extraction/Removal
MW-129M3	8/6/2004	857862.10	253461.50	35.25	0.25	6.75	Predicted Extraction/Removal
MW-129M3	12/7/2004	857862.10	253461.50	35.25	0.25	7.08	Predicted Extraction/Removal
MW-129M3	6/21/2005	857862.10	253461.50	35.25	0.25	7.62	Predicted Extraction/Removal
MW-129M3	4/19/2006	857862.10	253461.50	35.25	0.41	8.45	Predicted Extraction/Removal
MW-129M3	4/19/2007	857862.10	253461.50	35.25	0.25	9.45	Predicted Extraction/Removal
MW-129M3	4/22/2008	857862.10	253461.50	35.25	0.70	10.46	Predicted Extraction/Removal
MW-129M3	4/22/2009	857862.10	253461.50	35.25	0.25	11.46	Predicted Extraction/Removal
MW-129M3	4/15/2010	857862.10	253461.50	35.25	0.25	12.44	Predicted Extraction/Removal
MW-139 (51.94)	11/7/2000	857107.30	253554.20	51.94	0.25	3.00	Predicted Extraction/Removal
MW-139 (38.94)	11/7/2000	857107.30	253554.20	38.94	0.25	3.00	Predicted Extraction/Removal
MW-139 (28.94)	11/7/2000	857107.30	253554.20	28.94	0.25	3.00	Predicted Extraction/Removal
MW-139 (18.94)	11/7/2000	857107.30	253554.20	18.94	0.25	3.00	Predicted Extraction/Removal
MW-139 (8.94)	11/7/2000	857107.30	253554.20	8.94	0.25	3.00	Predicted Extraction/Removal
MW-139 (-1.06)	11/7/2000	857107.30	253554.20	-1.06	0.25	3.00	Predicted Extraction/Removal
MW-139 (-11.06)	11/8/2000	857107.30	253554.20	-11.06	1.50	3.00	Predicted Extraction/Removal
MW-139 (-21.06)	11/8/2000	857107.30	253554.20	-21.06	0.25	3.00	Predicted Extraction/Removal
MW-139 (-31.06)	11/8/2000	857107.30	253554.20	-31.06	0.25	3.00	Predicted Extraction/Removal
MW-139 (-41.06)	11/8/2000	857107.30	253554.20	-41.06	0.34	3.00	Predicted Extraction/Removal
MW-139 (-51.06)	11/8/2000	857107.30	253554.20	-51.06	0.25	3.00	Predicted Extraction/Removal
MW-139 (-61.06)	11/8/2000	857107.30	253554.20	-61.06	0.25	3.00	Predicted Extraction/Removal
MW-139 (-71.06)	11/8/2000	857107.30	253554.20	-71.06	0.25	3.00	Predicted Extraction/Removal
MW-139 (-81.06)	11/8/2000	857107.30	253554.20	-81.06	0.25	3.00	Predicted Extraction/Removal
MW-139 (-91.06)	11/8/2000	857107.30	253554.20	-91.06	0.25	3.00	Predicted Extraction/Removal
MW-139 (-101.06)	11/8/2000	857107.30	253554.20	-101.06	0.25	3.00	Predicted Extraction/Removal
MW-139M1	12/29/2000	857107.30	253555.20	-50.06	0.25	3.14	Predicted Extraction/Removal
MW-139M1	3/15/2001	857107.30	253555.20	-50.06	0.25	3.35	Predicted Extraction/Removal
MW-139M1	6/20/2001	857107.30	253555.20	-50.06	0.25	3.62	Predicted Extraction/Removal
MW-139M1	12/27/2001	857107.30	253555.20	-50.06	0.25	4.14	Predicted Extraction/Removal
MW-139M1	4/17/2002	857107.30	253555.20	-50.06	0.25	4.44	Predicted Extraction/Removal
MW-139M1	8/9/2002	857107.30	253555.20	-50.06	0.25	4.75	Predicted Extraction/Removal
MW-139M1	11/13/2002	857107.30	253555.20	-50.06	0.25	5.02	Predicted Extraction/Removal
MW-139M1	3/28/2003	857107.30	253555.20	-50.06	0.25	5.39	Predicted Extraction/Removal
MW-139M1	10/10/2003	857107.30	253555.20	-50.06	0.25	5.92	Predicted Extraction/Removal
MW-139M1	2/27/2004	857107.30	253555.20	-50.06	0.25	6.31	Predicted Extraction/Removal
MW-139M1	5/14/2004	857107.30	253555.20	-50.06	0.25	6.52	Predicted Extraction/Removal
MW-139M1	8/4/2004	857107.30	253555.20	-50.06	0.25	6.74	Predicted Extraction/Removal
MW-139M1	4/6/2005	857107.30	253555.20	-50.06	0.25	7.41	Predicted Extraction/Removal

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-139M1	4/13/2006	857107.30	253555.20	-50.06	0.25	8.43	Predicted Extraction/Removal
MW-139M1	4/18/2007	857107.30	253555.20	-50.06	0.25	9.44	Predicted Extraction/Removal
MW-139M1	4/8/2008	857107.30	253555.20	-50.06	0.25	10.42	Predicted Extraction/Removal
MW-139M1	4/30/2009	857107.30	253555.20	-50.06	0.25	11.48	Predicted Extraction/Removal
MW-139M1	4/14/2010	857107.30	253555.20	-50.06	0.25	12.43	Predicted Extraction/Removal
MW-139M1	4/28/2011	857107.30	253555.20	-50.06	0.25	13.47	Predicted Extraction/Removal
MW-139M2	12/29/2000	857107.30	253556.20	-10.06	0.25	3.14	Predicted Extraction/Removal
MW-139M2	3/15/2001	857107.30	253556.20	-10.06	0.25	3.35	Predicted Extraction/Removal
MW-139M2	6/20/2001	857107.30	253556.20	-10.06	0.25	3.62	Predicted Extraction/Removal
MW-139M2	12/27/2001	857107.30	253556.20	-10.06	0.25	4.14	Predicted Extraction/Removal
MW-139M2	4/17/2002	857107.30	253556.20	-10.06	0.25	4.44	Predicted Extraction/Removal
MW-139M2	8/9/2002	857107.30	253556.20	-10.06	0.25	4.75	Predicted Extraction/Removal
MW-139M2	11/13/2002	857107.30	253556.20	-10.06	0.25	5.02	Predicted Extraction/Removal
MW-139M2	3/28/2003	857107.30	253556.20	-10.06	0.25	5.39	Predicted Extraction/Removal
MW-139M2	10/10/2003	857107.30	253556.20	-10.06	0.32	5.92	Predicted Extraction/Removal
MW-139M2	2/27/2004	857107.30	253556.20	-10.06	0.25	6.31	Predicted Extraction/Removal
MW-139M2	5/14/2004	857107.30	253556.20	-10.06	0.25	6.52	Predicted Extraction/Removal
MW-139M2	8/4/2004	857107.30	253556.20	-10.06	0.25	6.74	Predicted Extraction/Removal
MW-139M2	12/6/2004	857107.30	253556.20	-10.06	0.25	7.08	Predicted Extraction/Removal
MW-139M2	6/23/2005	857107.30	253556.20	-10.06	0.30	7.63	Predicted Extraction/Removal
MW-139M2	2/7/2006	857107.30	253556.20	-10.06	0.92	8.25	Predicted Extraction/Removal
MW-139M2	4/13/2006	857107.30	253556.20	-10.06	1.70	8.43	Predicted Extraction/Removal
MW-139M2	1/2/2007	857107.30	253556.20	-10.06	3.20	9.15	Predicted Extraction/Removal
MW-139M2	4/18/2007	857107.30	253556.20	-10.06	3.53	9.44	Predicted Extraction/Removal
MW-139M2	12/6/2007	857107.30	253556.20	-10.06	4.63	10.08	Predicted Extraction/Removal
MW-139M2	4/8/2008	857107.30	253556.20	-10.06	4.02	10.42	Predicted Extraction/Removal
MW-139M2	12/22/2008	857107.30	253556.20	-10.06	0.25	11.12	Predicted Extraction/Removal
MW-139M2	4/30/2009	857107.30	253556.20	-10.06	0.25	11.48	Predicted Extraction/Removal
MW-139M2	11/16/2009	857107.30	253556.20	-10.06	0.25	12.03	Predicted Extraction/Removal
MW-139M2	4/14/2010	857107.30	253556.20	-10.06	0.23	12.43	Predicted Extraction/Removal
MW-139M2	12/27/2010	857107.30	253556.20	-10.06	0.25	13.14	Predicted Extraction/Removal
MW-139M3	12/29/2000	857108.30	253554.20	24.94	0.25	3.14	Predicted Extraction/Removal
MW-139M3	3/15/2001	857108.30	253554.20	24.94	0.25	3.35	Predicted Extraction/Removal
MW-139M3	6/20/2001	857108.30	253554.20	24.94	0.25	3.62	Predicted Extraction/Removal
MW-139M3	12/27/2001	857108.30	253554.20	24.94	0.25	4.14	Predicted Extraction/Removal
MW-139M3	4/17/2002	857108.30	253554.20	24.94	0.25	4.44	Predicted Extraction/Removal
MW-139M3	8/9/2002	857108.30	253554.20	24.94	0.25	4.75	Predicted Extraction/Removal
MW-139M3	11/13/2002	857108.30	253554.20	24.94	0.25	5.02	Predicted Extraction/Removal
MW-139M3	3/28/2003	857108.30	253554.20	24.94	0.25	5.39	Predicted Extraction/Removal
MW-139M3	10/10/2003	857108.30	253554.20	24.94	0.25	5.92	Predicted Extraction/Removal
MW-139M3	2/27/2004	857108.30	253554.20	24.94	0.25	6.31	Predicted Extraction/Removal
MW-139M3	5/14/2004	857108.30	253554.20	24.94	0.25	6.52	Predicted Extraction/Removal
MW-139M3	8/4/2004	857108.30	253554.20	24.94	0.25	6.74	Predicted Extraction/Removal
MW-139M3	4/7/2005	857108.30	253554.20	24.94	0.25	7.42	Predicted Extraction/Removal
MW-139M3	4/13/2006	857108.30	253554.20	24.94	0.25	8.43	Predicted Extraction/Removal
MW-139M3	4/18/2007	857108.30	253554.20	24.94	0.25	9.44	Predicted Extraction/Removal

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-139M3	4/8/2008	857108.30	253554.20	24.94	0.25	10.42	Predicted Extraction/Removal
MW-139M3	5/1/2009	857108.30	253554.20	24.94	0.25	11.48	Predicted Extraction/Removal
MW-139M3	4/14/2010	857108.30	253554.20	24.94	0.25	12.43	Predicted Extraction/Removal
MW-162 (50.22)	4/2/2001	858243.00	253406.00	50.22	0.25	3.40	Predicted Extraction/Removal
MW-162 (40.22)	4/2/2001	858243.00	253406.00	40.22	0.25	3.40	Predicted Extraction/Removal
MW-162 (30.22)	4/3/2001	858243.00	253406.00	30.22	0.25	3.40	Predicted Extraction/Removal
MW-162 (20.22)	4/3/2001	858243.00	253406.00	20.22	0.25	3.40	Predicted Extraction/Removal
MW-162 (10.22)	4/3/2001	858243.00	253406.00	10.22	0.25	3.40	Predicted Extraction/Removal
MW-162 (0.22)	4/3/2001	858243.00	253406.00	0.22	0.25	3.40	Predicted Extraction/Removal
MW-162 (-9.78)	4/3/2001	858243.00	253406.00	-9.78	0.25	3.40	Predicted Extraction/Removal
MW-162 (-19.78)	4/3/2001	858243.00	253406.00	-19.78	0.25	3.40	Predicted Extraction/Removal
MW-162 (-29.78)	4/3/2001	858243.00	253406.00	-29.78	0.25	3.40	Predicted Extraction/Removal
MW-162 (-39.78)	4/3/2001	858243.00	253406.00	-39.78	0.25	3.40	Predicted Extraction/Removal
MW-162 (-49.78)	4/3/2001	858243.00	253406.00	-49.78	0.25	3.40	Predicted Extraction/Removal
MW-162 (-59.78)	4/3/2001	858243.00	253406.00	-59.78	0.25	3.40	Predicted Extraction/Removal
MW-162 (-69.78)	4/3/2001	858243.00	253406.00	-69.78	0.25	3.40	Predicted Extraction/Removal
MW-162M1	5/4/2001	858243.00	253405.70	-55.28	0.25	3.49	Predicted Extraction/Removal
MW-162M1	8/15/2001	858243.00	253405.70	-55.28	0.25	3.77	Predicted Extraction/Removal
MW-162M1	1/18/2002	858243.00	253405.70	-55.28	0.25	4.20	Predicted Extraction/Removal
MW-162M2	5/5/2001	858242.70	253406.00	9.72	0.25	3.49	Predicted Extraction/Removal
MW-162M2	8/15/2001	858242.70	253406.00	9.72	0.25	3.77	Predicted Extraction/Removal
MW-162M2	1/18/2002	858242.70	253406.00	9.72	0.25	4.20	Predicted Extraction/Removal
MW-162M2	4/18/2002	858242.70	253406.00	9.72	0.25	4.44	Predicted Extraction/Removal
MW-162M2	3/27/2003	858242.70	253406.00	9.72	0.25	5.38	Predicted Extraction/Removal
MW-162M2	4/16/2004	858242.70	253406.00	9.72	0.25	6.44	Predicted Extraction/Removal
MW-162M2	7/28/2004	858242.70	253406.00	9.72	0.25	6.72	Predicted Extraction/Removal
MW-162M2	4/19/2005	858242.70	253406.00	9.72	0.25	7.45	Predicted Extraction/Removal
MW-162M2	4/18/2006	858242.70	253406.00	9.72	0.25	8.44	Predicted Extraction/Removal
MW-162M2	4/19/2007	858242.70	253406.00	9.72	0.25	9.45	Predicted Extraction/Removal
MW-162M3	5/5/2001	858243.00	253405.40	49.72	0.25	3.49	Predicted Extraction/Removal
MW-162M3	8/16/2001	858243.00	253405.40	49.72	0.25	3.77	Predicted Extraction/Removal
MW-162M3	1/22/2002	858243.00	253405.40	49.72	0.25	4.21	Predicted Extraction/Removal
MW-165 (53.15)	4/12/2001	856752.00	253351.40	53.15	0.25	3.43	Predicted Extraction/Removal
MW-165 (43.15)	4/12/2001	856752.00	253351.40	43.15	0.25	3.43	Predicted Extraction/Removal
MW-165 (33.15)	4/12/2001	856752.00	253351.40	33.15	0.25	3.43	Predicted Extraction/Removal
MW-165 (33.15)	4/12/2001	856752.00	253351.40	33.15	0.25	3.43	Predicted Extraction/Removal
MW-165 (13.15)	4/12/2001	856752.00	253351.40	13.15	72.00	3.43	Predicted Extraction/Removal
MW-165 (3.15)	4/12/2001	856752.00	253351.40	3.15	43.00	3.43	Predicted Extraction/Removal
MW-165 (-6.85)	4/12/2001	856752.00	253351.40	-6.85	33.00	3.43	Predicted Extraction/Removal
MW-165 (-16.85)	4/13/2001	856752.00	253351.40	-16.85	5.00	3.43	Predicted Extraction/Removal
MW-165 (-26.85)	4/13/2001	856752.00	253351.40	-26.85	0.50	3.43	Predicted Extraction/Removal
MW-165 (-36.85)	4/13/2001	856752.00	253351.40	-36.85	0.25	3.43	Predicted Extraction/Removal
MW-165 (-46.85)	4/13/2001	856752.00	253351.40	-46.85	0.25	3.43	Predicted Extraction/Removal
MW-165 (-56.85)	4/13/2001	856752.00	253351.40	-56.85	0.25	3.43	Predicted Extraction/Removal
MW-165 (-66.85)	4/13/2001	856752.00	253351.40	-66.85	0.25	3.43	Predicted Extraction/Removal
MW-165 (-76.85)	4/13/2001	856752.00	253351.40	-76.85	0.25	3.43	Predicted Extraction/Removal

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-165M1	5/7/2001	856752.30	253351.40	-46.35	0.25	3.50	Predicted Extraction/Removal
MW-165M1	8/16/2001	856752.30	253351.40	-46.35	0.25	3.77	Predicted Extraction/Removal
MW-165M1	2/7/2002	856752.30	253351.40	-46.35	0.25	4.25	Predicted Extraction/Removal
MW-165M1	4/18/2002	856752.30	253351.40	-46.35	0.25	4.44	Predicted Extraction/Removal
MW-165M1	8/10/2002	856752.30	253351.40	-46.35	0.25	4.76	Predicted Extraction/Removal
MW-165M1	11/13/2002	856752.30	253351.40	-46.35	0.25	5.02	Predicted Extraction/Removal
MW-165M1	3/27/2003	856752.30	253351.40	-46.35	0.25	5.38	Predicted Extraction/Removal
MW-165M1	9/10/2003	856752.30	253351.40	-46.35	0.25	5.84	Predicted Extraction/Removal
MW-165M1	3/1/2004	856752.30	253351.40	-46.35	0.25	6.31	Predicted Extraction/Removal
MW-165M1	4/9/2004	856752.30	253351.40	-46.35	0.25	6.42	Predicted Extraction/Removal
MW-165M1	8/5/2004	856752.30	253351.40	-46.35	0.25	6.74	Predicted Extraction/Removal
MW-165M1	12/7/2004	856752.30	253351.40	-46.35	0.25	7.08	Predicted Extraction/Removal
MW-165M1	4/14/2005	856752.30	253351.40	-46.35	0.25	7.43	Predicted Extraction/Removal
MW-165M1	8/8/2005	856752.30	253351.40	-46.35	0.25	7.75	Predicted Extraction/Removal
MW-165M1	4/14/2006	856752.30	253351.40	-46.35	0.25	8.43	Predicted Extraction/Removal
MW-165M1	4/16/2007	856752.30	253351.40	-46.35	0.25	9.44	Predicted Extraction/Removal
MW-165M1	4/18/2008	856752.30	253351.40	-46.35	0.25	10.45	Predicted Extraction/Removal
MW-165M1	4/16/2009	856752.30	253351.40	-46.35	0.25	11.44	Predicted Extraction/Removal
MW-165M1	4/15/2010	856752.30	253351.40	-46.35	0.25	12.44	Predicted Extraction/Removal
MW-165M1	4/19/2011	856752.30	253351.40	-46.35	0.25	13.45	Predicted Extraction/Removal
MW-165M1	3/29/2012	856752.30	253351.40	-46.35	0.25	14.39	Predicted Extraction/Removal
MW-165M2	5/8/2001	856752.00	253351.70	13.65	60.00	3.50	Predicted Extraction/Removal
MW-165M2	8/16/2001	856752.00	253351.70	13.65	50.00	3.77	Predicted Extraction/Removal
MW-165M2	1/7/2002	856752.00	253351.70	13.65	27.00	4.17	Predicted Extraction/Removal
MW-165M2	4/18/2002	856752.00	253351.70	13.65	26.00	4.44	Predicted Extraction/Removal
MW-165M2	8/10/2002	856752.00	253351.70	13.65	23.00	4.76	Predicted Extraction/Removal
MW-165M2	11/26/2002	856752.00	253351.70	13.65	19.00	5.05	Predicted Extraction/Removal
MW-165M2	3/27/2003	856752.00	253351.70	13.65	35.00	5.38	Predicted Extraction/Removal
MW-165M2	9/11/2003	856752.00	253351.70	13.65	12.00	5.84	Predicted Extraction/Removal
MW-165M2	3/1/2004	856752.00	253351.70	13.65	13.00	6.31	Predicted Extraction/Removal
MW-165M2	4/9/2004	856752.00	253351.70	13.65	10.00	6.42	Predicted Extraction/Removal
MW-165M2	8/6/2004	856752.00	253351.70	13.65	10.00	6.75	Predicted Extraction/Removal
MW-165M2	12/7/2004	856752.00	253351.70	13.65	130.00	7.08	Predicted Extraction/Removal
MW-165M2	4/14/2005	856752.00	253351.70	13.65	23.00	7.43	Predicted Extraction/Removal
MW-165M2	8/8/2005	856752.00	253351.70	13.65	0.56	7.75	Predicted Extraction/Removal
MW-165M2	2/7/2006	856752.00	253351.70	13.65	1.30	8.25	Predicted Extraction/Removal
MW-165M2	4/14/2006	856752.00	253351.70	13.65	0.74	8.43	Predicted Extraction/Removal
MW-165M2	12/28/2006	856752.00	253351.70	13.65	1.80	9.14	Predicted Extraction/Removal
MW-165M2	4/16/2007	856752.00	253351.70	13.65	1.99	9.44	Predicted Extraction/Removal
MW-165M2	12/6/2007	856752.00	253351.70	13.65	171.00	10.08	Predicted Extraction/Removal
MW-165M2	2/1/2008	856752.00	253351.70	13.65	26.90	10.24	Predicted Extraction/Removal
MW-165M2	4/18/2008	856752.00	253351.70	13.65	11.60	10.45	Predicted Extraction/Removal
MW-165M2	12/16/2008	856752.00	253351.70	13.65	0.25	11.11	Predicted Extraction/Removal
MW-165M2	4/16/2009	856752.00	253351.70	13.65	0.25	11.44	Predicted Extraction/Removal
MW-165M2	11/16/2009	856752.00	253351.70	13.65	0.25	12.03	Predicted Extraction/Removal
MW-165M2	4/15/2010	856752.00	253351.70	13.65	0.25	12.44	Predicted Extraction/Removal

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-165M2	12/23/2010	856752.00	253351.70	13.65	0.25	13.13	Predicted Extraction/Removal
MW-165M2	4/19/2011	856752.00	253351.70	13.65	0.25	13.45	Predicted Extraction/Removal
MW-165M2	12/15/2011	856752.00	253351.70	13.65	0.25	14.10	Predicted Extraction/Removal
MW-165M3	5/9/2001	856752.70	253351.40	43.65	0.25	3.50	Predicted Extraction/Removal
MW-165M3	8/16/2001	856752.70	253351.40	43.65	0.25	3.77	Predicted Extraction/Removal
MW-165M3	2/13/2002	856752.70	253351.40	43.65	0.25	4.27	Predicted Extraction/Removal
MW-165M3	4/19/2002	856752.70	253351.40	43.65	0.25	4.45	Predicted Extraction/Removal
MW-165M3	8/10/2002	856752.70	253351.40	43.65	0.25	4.76	Predicted Extraction/Removal
MW-165M3	11/26/2002	856752.70	253351.40	43.65	0.25	5.05	Predicted Extraction/Removal
MW-165M3	3/28/2003	856752.70	253351.40	43.65	0.25	5.39	Predicted Extraction/Removal
MW-165M3	10/14/2003	856752.70	253351.40	43.65	0.25	5.93	Predicted Extraction/Removal
MW-165M3	3/1/2004	856752.70	253351.40	43.65	0.25	6.31	Predicted Extraction/Removal
MW-165M3	4/19/2004	856752.70	253351.40	43.65	0.25	6.45	Predicted Extraction/Removal
MW-165M3	8/5/2004	856752.70	253351.40	43.65	0.25	6.74	Predicted Extraction/Removal
MW-165M3	4/14/2005	856752.70	253351.40	43.65	0.25	7.43	Predicted Extraction/Removal
MW-165M3	4/14/2006	856752.70	253351.40	43.65	0.25	8.43	Predicted Extraction/Removal
MW-165M3	4/16/2007	856752.70	253351.40	43.65	0.25	9.44	Predicted Extraction/Removal
MW-165M3	4/21/2008	856752.70	253351.40	43.65	0.25	10.45	Predicted Extraction/Removal
MW-165M3	4/16/2009	856752.70	253351.40	43.65	0.25	11.44	Predicted Extraction/Removal
MW-165M3	4/15/2010	856752.70	253351.40	43.65	0.25	12.44	Predicted Extraction/Removal
MW-165M3	4/19/2011	856752.70	253351.40	43.65	0.25	13.45	Predicted Extraction/Removal
MW-172 (56.08)	5/31/2001	856749.40	253071.40	56.08	0.25	3.56	Predicted Extraction/Removal
MW-172 (46.08)	5/31/2001	856749.40	253071.40	46.08	0.25	3.56	Predicted Extraction/Removal
MW-172 (36.08)	5/31/2001	856749.40	253071.40	36.08	0.25	3.56	Predicted Extraction/Removal
MW-172 (26.08)	5/31/2001	856749.40	253071.40	26.08	0.25	3.56	Predicted Extraction/Removal
MW-172 (6.08)	6/1/2001	856749.40	253071.40	6.08	0.25	3.57	Predicted Extraction/Removal
MW-172 (-3.92)	6/1/2001	856749.40	253071.40	-3.92	0.25	3.57	Predicted Extraction/Removal
MW-172 (-13.92)	6/1/2001	856749.40	253071.40	-13.92	0.25	3.57	Predicted Extraction/Removal
MW-172 (-23.92)	6/1/2001	856749.40	253071.40	-23.92	0.25	3.57	Predicted Extraction/Removal
MW-172 (-33.92)	6/1/2001	856749.40	253071.40	-33.92	0.25	3.57	Predicted Extraction/Removal
MW-172 (-43.92)	6/4/2001	856749.40	253071.40	-43.92	0.25	3.57	Predicted Extraction/Removal
MW-172 (-53.92)	6/4/2001	856749.40	253071.40	-53.92	0.25	3.57	Predicted Extraction/Removal
MW-172 (-63.92)	6/4/2001	856749.40	253071.40	-63.92	0.25	3.57	Predicted Extraction/Removal
MW-172 (-73.92)	6/4/2001	856749.40	253071.40	-73.92	0.25	3.57	Predicted Extraction/Removal
MW-172M1	6/21/2001	856749.70	253071.40	-75.92	0.25	3.62	Predicted Extraction/Removal
MW-172M1	9/21/2001	856749.70	253071.40	-75.92	0.25	3.87	Predicted Extraction/Removal
MW-172M1	2/8/2002	856749.70	253071.40	-75.92	0.25	4.26	Predicted Extraction/Removal
MW-172M1	9/18/2002	856749.70	253071.40	-75.92	0.25	4.86	Predicted Extraction/Removal
MW-172M1	2/3/2003	856749.70	253071.40	-75.92	0.25	5.24	Predicted Extraction/Removal
MW-172M1	3/28/2003	856749.70	253071.40	-75.92	0.25	5.39	Predicted Extraction/Removal
MW-172M1	10/14/2003	856749.70	253071.40	-75.92	0.25	5.93	Predicted Extraction/Removal
MW-172M1	2/10/2004	856749.70	253071.40	-75.92	0.25	6.26	Predicted Extraction/Removal
MW-172M1	4/19/2004	856749.70	253071.40	-75.92	0.25	6.45	Predicted Extraction/Removal
MW-172M1	7/28/2004	856749.70	253071.40	-75.92	0.25	6.72	Predicted Extraction/Removal
MW-172M2	6/21/2001	856749.40	253071.70	-45.92	0.25	3.62	Predicted Extraction/Removal
MW-172M2	9/21/2001	856749.40	253071.70	-45.92	0.25	3.87	Predicted Extraction/Removal

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-172M2	2/8/2002	856749.40	253071.70	-45.92	0.25	4.26	Predicted Extraction/Removal
MW-172M2	9/18/2002	856749.40	253071.70	-45.92	0.25	4.86	Predicted Extraction/Removal
MW-172M2	11/26/2002	856749.40	253071.70	-45.92	0.25	5.05	Predicted Extraction/Removal
MW-172M2	3/28/2003	856749.40	253071.70	-45.92	0.25	5.39	Predicted Extraction/Removal
MW-172M2	10/15/2003	856749.40	253071.70	-45.92	0.25	5.94	Predicted Extraction/Removal
MW-172M2	2/10/2004	856749.40	253071.70	-45.92	0.25	6.26	Predicted Extraction/Removal
MW-172M2	4/19/2004	856749.40	253071.70	-45.92	0.25	6.45	Predicted Extraction/Removal
MW-172M2	7/28/2004	856749.40	253071.70	-45.92	0.25	6.72	Predicted Extraction/Removal
MW-172M2	4/5/2005	856749.40	253071.70	-45.92	0.25	7.41	Predicted Extraction/Removal
MW-172M2	4/14/2006	856749.40	253071.70	-45.92	0.25	8.43	Predicted Extraction/Removal
MW-172M3	6/21/2001	856749.10	253071.40	14.08	0.25	3.62	Predicted Extraction/Removal
MW-172M3	9/24/2001	856749.10	253071.40	14.08	0.25	3.88	Predicted Extraction/Removal
MW-172M3	2/8/2002	856749.10	253071.40	14.08	0.25	4.26	Predicted Extraction/Removal
MW-172M3	9/18/2002	856749.10	253071.40	14.08	0.25	4.86	Predicted Extraction/Removal
MW-172M3	2/3/2003	856749.10	253071.40	14.08	0.25	5.24	Predicted Extraction/Removal
MW-172M3	3/28/2003	856749.10	253071.40	14.08	0.25	5.39	Predicted Extraction/Removal
MW-172M3	10/15/2003	856749.10	253071.40	14.08	0.25	5.94	Predicted Extraction/Removal
MW-172M3	2/10/2004	856749.10	253071.40	14.08	0.25	6.26	Predicted Extraction/Removal
MW-172M3	4/19/2004	856749.10	253071.40	14.08	0.25	6.45	Predicted Extraction/Removal
MW-172M3	7/28/2004	856749.10	253071.40	14.08	0.25	6.72	Predicted Extraction/Removal
MW-172M3	4/5/2005	856749.10	253071.40	14.08	0.25	7.41	Predicted Extraction/Removal
MW-172M3	4/14/2006	856749.10	253071.40	14.08	0.25	8.43	Predicted Extraction/Removal
MW-172M3	4/13/2007	856749.10	253071.40	14.08	0.25	9.43	Predicted Extraction/Removal
MW-172M3	4/18/2008	856749.10	253071.40	14.08	0.25	10.45	Predicted Extraction/Removal
MW-19D (43.82)	2/3/1998	860260.10	254303.80	43.82	9.00	0.24	Predicted Extraction/Removal
MW-19D (36.82)	2/3/1998	860260.10	254303.80	36.82	0.25	0.24	Predicted Extraction/Removal
MW-19D (24.82)	2/3/1998	860260.10	254303.80	24.82	0.25	0.24	Predicted Extraction/Removal
MW-19D (16.82)	2/3/1998	860260.10	254303.80	16.82	0.25	0.24	Predicted Extraction/Removal
MW-19D (4.82)	2/3/1998	860260.10	254303.80	4.82	0.25	0.24	Predicted Extraction/Removal
MW-19D (-3.18)	2/3/1998	860260.10	254303.80	-3.18	0.25	0.24	Predicted Extraction/Removal
MW-19D (-15.18)	2/3/1998	860260.10	254303.80	-15.18	0.25	0.24	Predicted Extraction/Removal
MW-19S	2/12/1999	860259.60	254305.80	65.82	250.00	1.27	Predicted Extraction/Removal
MW-19S	9/10/1999	860259.60	254305.80	65.82	240.00	1.84	Predicted Extraction/Removal
MW-19S	5/12/2000	860259.60	254305.80	65.82	150.00	2.51	Predicted Extraction/Removal
MW-19S	5/23/2000	860259.60	254305.80	65.82	160.00	2.54	Predicted Extraction/Removal
MW-19S	8/8/2000	860259.60	254305.80	65.82	290.00	2.75	Predicted Extraction/Removal
MW-19S	12/8/2000	860259.60	254305.80	65.82	45.00	3.09	Predicted Extraction/Removal
MW-19S	12/8/2000	860259.60	254305.80	65.82	45.00	3.09	Predicted Extraction/Removal
MW-19S	12/8/2000	860259.60	254305.80	65.82	45.00	3.09	Predicted Extraction/Removal
MW-19S	6/18/2001	860259.60	254305.80	65.82	200.00	3.61	Predicted Extraction/Removal
MW-19S	6/18/2001	860259.60	254305.80	65.82	200.00	3.61	Predicted Extraction/Removal
MW-19S	8/24/2001	860259.60	254305.80	65.82	120.00	3.80	Predicted Extraction/Removal
MW-19S	12/27/2001	860259.60	254305.80	65.82	120.00	4.14	Predicted Extraction/Removal
MW-210 (51.54)	3/21/2002	856000.50	253221.90	51.54	0.25	4.37	Predicted Extraction/Removal
MW-210 (41.54)	3/21/2002	856000.50	253221.90	41.54	0.25	4.37	Predicted Extraction/Removal
MW-210 (31.54)	3/21/2002	856000.50	253221.90	31.54	0.25	4.37	Predicted Extraction/Removal

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-210 (21.54)	3/22/2002	856000.50	253221.90	21.54	0.25	4.37	Predicted Extraction/Removal
MW-210 (11.54)	3/22/2002	856000.50	253221.90	11.54	0.25	4.37	Predicted Extraction/Removal
MW-210 (1.54)	3/22/2002	856000.50	253221.90	1.54	0.25	4.37	Predicted Extraction/Removal
MW-210 (-8.46)	3/22/2002	856000.50	253221.90	-8.46	0.25	4.37	Predicted Extraction/Removal
MW-210 (-88.46)	3/25/2002	856000.50	253221.90	-88.46	0.25	4.38	Predicted Extraction/Removal
MW-210M1	10/28/2002	856000.90	253222.30	-44.46	0.25	4.97	Predicted Extraction/Removal
MW-210M1	3/21/2003	856000.90	253222.30	-44.46	0.25	5.37	Predicted Extraction/Removal
MW-210M1	2/5/2004	856000.90	253222.30	-44.46	0.25	6.25	Predicted Extraction/Removal
MW-210M1	3/10/2004	856000.90	253222.30	-44.46	0.25	6.34	Predicted Extraction/Removal
MW-210M1	5/20/2004	856000.90	253222.30	-44.46	0.25	6.53	Predicted Extraction/Removal
MW-210M1	8/5/2004	856000.90	253222.30	-44.46	0.25	6.74	Predicted Extraction/Removal
MW-210M1	12/6/2004	856000.90	253222.30	-44.46	0.25	7.08	Predicted Extraction/Removal
MW-210M1	6/21/2005	856000.90	253222.30	-44.46	0.25	7.62	Predicted Extraction/Removal
MW-210M1	2/10/2006	856000.90	253222.30	-44.46	0.25	8.26	Predicted Extraction/Removal
MW-210M1	4/17/2006	856000.90	253222.30	-44.46	0.25	8.44	Predicted Extraction/Removal
MW-210M1	12/28/2006	856000.90	253222.30	-44.46	0.25	9.14	Predicted Extraction/Removal
MW-210M1	4/17/2007	856000.90	253222.30	-44.46	0.25	9.44	Predicted Extraction/Removal
MW-210M1	4/17/2008	856000.90	253222.30	-44.46	0.28	10.44	Predicted Extraction/Removal
MW-210M1	5/7/2009	856000.90	253222.30	-44.46	0.18	11.50	Predicted Extraction/Removal
MW-210M1	4/20/2010	856000.90	253222.30	-44.46	0.25	12.45	Predicted Extraction/Removal
MW-210M2	6/6/2002	856001.30	253222.70	0.54	0.25	4.58	Predicted Extraction/Removal
MW-210M2	10/28/2002	856001.30	253222.70	0.54	0.25	4.97	Predicted Extraction/Removal
MW-210M2	2/28/2003	856001.30	253222.70	0.54	0.25	5.31	Predicted Extraction/Removal
MW-210M2	2/5/2004	856001.30	253222.70	0.54	0.88	6.25	Predicted Extraction/Removal
MW-210M2	3/11/2004	856001.30	253222.70	0.54	1.40	6.34	Predicted Extraction/Removal
MW-210M2	5/20/2004	856001.30	253222.70	0.54	3.90	6.53	Predicted Extraction/Removal
MW-210M2	8/5/2004	856001.30	253222.70	0.54	7.90	6.74	Predicted Extraction/Removal
MW-210M2	12/6/2004	856001.30	253222.70	0.54	5.70	7.08	Predicted Extraction/Removal
MW-210M2	6/21/2005	856001.30	253222.70	0.54	1.00	7.62	Predicted Extraction/Removal
MW-210M2	2/7/2006	856001.30	253222.70	0.54	31.00	8.25	Predicted Extraction/Removal
MW-210M2	4/17/2006	856001.30	253222.70	0.54	21.00	8.44	Predicted Extraction/Removal
MW-210M2	4/17/2006	856001.30	253222.70	0.54	21.00	8.44	Predicted Extraction/Removal
MW-210M2	12/28/2006	856001.30	253222.70	0.54	60.00	9.14	Predicted Extraction/Removal
MW-210M2	12/28/2006	856001.30	253222.70	0.54	60.00	9.14	Predicted Extraction/Removal
MW-210M2	4/17/2007	856001.30	253222.70	0.54	53.40	9.44	Predicted Extraction/Removal
MW-210M2	12/6/2007	856001.30	253222.70	0.54	0.64	10.08	Predicted Extraction/Removal
MW-210M2	1/31/2008	856001.30	253222.70	0.54	1.12	10.23	Predicted Extraction/Removal
MW-210M2	4/21/2008	856001.30	253222.70	0.54	2.23	10.45	Predicted Extraction/Removal
MW-210M2	12/30/2008	856001.30	253222.70	0.54	0.62	11.15	Predicted Extraction/Removal
MW-210M2	5/7/2009	856001.30	253222.70	0.54	0.41	11.50	Predicted Extraction/Removal
MW-210M2	11/16/2009	856001.30	253222.70	0.54	0.41	12.03	Predicted Extraction/Removal
MW-210M2	4/20/2010	856001.30	253222.70	0.54	0.62	12.45	Predicted Extraction/Removal
MW-210M2	12/23/2010	856001.30	253222.70	0.54	0.25	13.13	Predicted Extraction/Removal
MW-210M2	4/19/2011	856001.30	253222.70	0.54	0.25	13.45	Predicted Extraction/Removal
MW-210M3	6/6/2002	856001.80	253223.10	35.54	0.25	4.58	Predicted Extraction/Removal
MW-210M3	10/25/2002	856001.80	253223.10	35.54	0.25	4.96	Predicted Extraction/Removal

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-210M3	2/28/2003	856001.80	253223.10	35.54	0.25	5.31	Predicted Extraction/Removal
MW-210M3	2/5/2004	856001.80	253223.10	35.54	0.25	6.25	Predicted Extraction/Removal
MW-210M3	3/11/2004	856001.80	253223.10	35.54	0.25	6.34	Predicted Extraction/Removal
MW-210M3	5/20/2004	856001.80	253223.10	35.54	0.25	6.53	Predicted Extraction/Removal
MW-210M3	8/5/2004	856001.80	253223.10	35.54	0.25	6.74	Predicted Extraction/Removal
MW-210M3	4/20/2005	856001.80	253223.10	35.54	0.25	7.45	Predicted Extraction/Removal
MW-210M3	4/17/2006	856001.80	253223.10	35.54	0.25	8.44	Predicted Extraction/Removal
MW-210M3	4/18/2007	856001.80	253223.10	35.54	0.25	9.44	Predicted Extraction/Removal
MW-210M3	4/21/2008	856001.80	253223.10	35.54	0.25	10.45	Predicted Extraction/Removal
MW-210M3	5/7/2009	856001.80	253223.10	35.54	0.25	11.50	Predicted Extraction/Removal
MW-210M3	4/20/2010	856001.80	253223.10	35.54	0.25	12.45	Predicted Extraction/Removal
MW-210M3	4/19/2011	856001.80	253223.10	35.54	0.25	13.45	Predicted Extraction/Removal
MW-211M1	5/21/2004	853901.80	252822.50	-4.86	1.10	6.54	Predicted Extraction/Removal
MW-211M1	7/30/2004	853901.80	252822.50	-4.86	1.20	6.73	Predicted Extraction/Removal
MW-211M1	12/6/2004	853901.80	252822.50	-4.86	7.70	7.08	Predicted Extraction/Removal
MW-211M1	4/5/2005	853901.80	252822.50	-4.86	4.00	7.41	Predicted Extraction/Removal
MW-211M1	8/8/2005	853901.80	252822.50	-4.86	5.70	7.75	Predicted Extraction/Removal
MW-211M1	2/7/2006	853901.80	252822.50	-4.86	5.00	8.25	Predicted Extraction/Removal
MW-211M1	4/10/2006	853901.80	252822.50	-4.86	4.60	8.42	Predicted Extraction/Removal
MW-211M1	12/27/2006	853901.80	252822.50	-4.86	5.60	9.14	Predicted Extraction/Removal
MW-211M1	4/9/2007	853901.80	252822.50	-4.86	6.45	9.42	Predicted Extraction/Removal
MW-211M1	12/5/2007	853901.80	252822.50	-4.86	9.51	10.08	Predicted Extraction/Removal
MW-211M1	4/17/2008	853901.80	252822.50	-4.86	8.34	10.44	Predicted Extraction/Removal
MW-211M1	12/23/2008	853901.80	252822.50	-4.86	8.22	11.13	Predicted Extraction/Removal
MW-211M1	5/8/2009	853901.80	252822.50	-4.86	8.48	11.50	Predicted Extraction/Removal
MW-211M1	11/18/2009	853901.80	252822.50	-4.86	11.40	12.03	Predicted Extraction/Removal
MW-211M1	4/27/2010	853901.80	252822.50	-4.86	15.00	12.47	Predicted Extraction/Removal
MW-211M1	12/21/2010	853901.80	252822.50	-4.86	21.80	13.12	Predicted Extraction/Removal
MW-211M1	4/26/2011	853901.80	252822.50	-4.86	14.90	13.47	Predicted Extraction/Removal
MW-211M1	12/28/2011	853901.80	252822.50	-4.86	23.00	14.14	Predicted Extraction/Removal
MW-211M1	5/2/2012	853901.80	252822.50	-4.86	17.40	14.48	Predicted Extraction/Removal
MW-211M1	11/27/2012	853901.80	252822.50	-4.86	15.10	15.06	Predicted Extraction/Removal
MW-211M2	7/30/2004	853902.20	252822.90	20.14	0.25	6.73	Predicted Extraction/Removal
MW-211M2	12/6/2004	853902.20	252822.90	20.14	0.25	7.08	Predicted Extraction/Removal
MW-211M2	4/5/2005	853902.20	252822.90	20.14	0.38	7.41	Predicted Extraction/Removal
MW-211M2	8/8/2005	853902.20	252822.90	20.14	0.25	7.75	Predicted Extraction/Removal
MW-211M2	2/9/2006	853902.20	252822.90	20.14	0.25	8.26	Predicted Extraction/Removal
MW-211M2	4/10/2006	853902.20	252822.90	20.14	0.25	8.42	Predicted Extraction/Removal
MW-211M2	12/27/2006	853902.20	252822.90	20.14	0.25	9.14	Predicted Extraction/Removal
MW-211M2	4/9/2007	853902.20	252822.90	20.14	0.25	9.42	Predicted Extraction/Removal
MW-211M2	12/5/2007	853902.20	252822.90	20.14	0.25	10.08	Predicted Extraction/Removal
MW-211M2	4/17/2008	853902.20	252822.90	20.14	0.25	10.44	Predicted Extraction/Removal
MW-211M2	12/29/2008	853902.20	252822.90	20.14	0.25	11.14	Predicted Extraction/Removal
MW-211M2	5/8/2009	853902.20	252822.90	20.14	0.25	11.50	Predicted Extraction/Removal
MW-211M2	11/18/2009	853902.20	252822.90	20.14	0.25	12.03	Predicted Extraction/Removal
MW-211M2	4/27/2010	853902.20	252822.90	20.14	0.25	12.47	Predicted Extraction/Removal

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-211M2	12/21/2010	853902.20	252822.90	20.14	0.25	13.12	Predicted Extraction/Removal
MW-211M2	4/26/2011	853902.20	252822.90	20.14	0.25	13.47	Predicted Extraction/Removal
MW-211M2	12/28/2011	853902.20	252822.90	20.14	0.25	14.14	Predicted Extraction/Removal
MW-211M2	5/2/2012	853902.20	252822.90	20.14	0.25	14.48	Predicted Extraction/Removal
MW-211M3	4/5/2005	853902.60	252823.30	45.14	0.25	7.41	Predicted Extraction/Removal
MW-211M3	4/10/2006	853902.60	252823.30	45.14	0.25	8.42	Predicted Extraction/Removal
MW-211M3	4/9/2007	853902.60	252823.30	45.14	0.25	9.42	Predicted Extraction/Removal
MW-211M3	4/17/2008	853902.60	252823.30	45.14	0.25	10.44	Predicted Extraction/Removal
MW-211M3	5/8/2009	853902.60	252823.30	45.14	0.25	11.50	Predicted Extraction/Removal
MW-211M3	4/27/2010	853902.60	252823.30	45.14	0.25	12.47	Predicted Extraction/Removal
MW-211M3	4/26/2011	853902.60	252823.30	45.14	0.25	13.47	Predicted Extraction/Removal
MW-214 (47.46)	4/29/2002	856619.60	252832.00	47.46	0.25	4.47	Predicted Extraction/Removal
MW-214 (37.46)	4/29/2002	856619.60	252832.00	37.46	0.25	4.47	Predicted Extraction/Removal
MW-214 (27.46)	4/29/2002	856619.60	252832.00	27.46	0.25	4.47	Predicted Extraction/Removal
MW-214 (17.46)	4/29/2002	856619.60	252832.00	17.46	0.25	4.47	Predicted Extraction/Removal
MW-214M2	11/4/2002	856620.40	252832.80	-22.54	0.25	4.99	Predicted Extraction/Removal
MW-214M2	2/5/2003	856620.40	252832.80	-22.54	0.25	5.25	Predicted Extraction/Removal
MW-225 (-37.72)	6/18/2002	852647.80	252707.50	-37.72	0.25	4.61	Predicted Extraction/Removal
MW-225 (-47.72)	6/18/2002	852647.80	252707.50	-47.72	0.25	4.61	Predicted Extraction/Removal
MW-225 (-57.72)	6/18/2002	852647.80	252707.50	-57.72	0.25	4.61	Predicted Extraction/Removal
MW-225M1	8/5/2002	852647.50	252707.20	-27.72	0.25	4.74	Predicted Extraction/Removal
MW-225M1	11/12/2002	852647.50	252707.20	-27.72	0.25	5.01	Predicted Extraction/Removal
MW-225M1	2/27/2003	852647.50	252707.20	-27.72	0.25	5.31	Predicted Extraction/Removal
MW-252 (41.84)	12/12/2002	851420.40	252001.60	41.84	0.25	5.10	Predicted Extraction/Removal
MW-252 (31.84)	12/12/2002	851420.40	252001.60	31.84	0.25	5.10	Predicted Extraction/Removal
MW-252 (21.84)	12/13/2002	851420.40	252001.60	21.84	0.25	5.10	Predicted Extraction/Removal
MW-252M3	2/26/2003	851421.40	252001.60	41.40	0.25	5.30	Predicted Extraction/Removal
MW-252M3	5/8/2003	851421.40	252001.60	41.40	0.25	5.50	Predicted Extraction/Removal
MW-252M3	8/3/2003	851421.40	252001.60	41.40	0.25	5.74	Predicted Extraction/Removal
MW-255 (-80.00)	2/13/2003	856919.80	254229.90	-80.00	0.25	5.27	Predicted Extraction/Removal
MW-255 (-90.00)	2/13/2003	856919.80	254229.90	-90.00	0.25	5.27	Predicted Extraction/Removal
MW-255 (-100.00)	2/13/2003	856919.80	254229.90	-100.00	0.25	5.27	Predicted Extraction/Removal
MW-272 (50.31)	6/2/2003	856732.30	252681.40	50.31	0.25	5.57	Predicted Extraction/Removal
MW-272 (45.31)	6/9/2003	856732.30	252681.40	45.31	0.25	5.59	Predicted Extraction/Removal
MW-272 (35.31)	6/9/2003	856732.30	252681.40	35.31	0.25	5.59	Predicted Extraction/Removal
MW-272 (25.31)	6/9/2003	856732.30	252681.40	25.31	0.25	5.59	Predicted Extraction/Removal
MW-272 (15.31)	6/10/2003	856732.30	252681.40	15.31	0.25	5.59	Predicted Extraction/Removal
MW-31D (53.59)	6/18/1998	859727.30	254180.20	53.59	0.25	0.61	Predicted Extraction/Removal
MW-31D (43.59)	6/18/1998	859727.30	254180.20	43.59	100.00	0.61	Predicted Extraction/Removal
MW-31D (33.59)	6/18/1998	859727.30	254180.20	33.59	270.00	0.61	Predicted Extraction/Removal
MW-31D (23.59)	6/18/1998	859727.30	254180.20	23.59	7.60	0.61	Predicted Extraction/Removal
MW-31D (18.09)	7/14/1998	859727.30	254180.20	18.09	0.25	0.68	Predicted Extraction/Removal
MW-31D	2/1/1999	859727.30	254180.20	18.09	0.25	1.24	Predicted Extraction/Removal
MW-31D	9/15/1999	859727.30	254180.20	18.09	0.25	1.85	Predicted Extraction/Removal
MW-31D	5/15/2000	859727.30	254180.20	18.09	0.25	2.52	Predicted Extraction/Removal
MW-31D	8/9/2000	859727.30	254180.20	18.09	150.00	2.76	Predicted Extraction/Removal

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Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-31D	12/18/2000	859727.30	254180.20	18.09	0.25	3.11	Predicted Extraction/Removal
MW-31D	5/2/2001	859727.30	254180.20	18.09	0.25	3.48	Predicted Extraction/Removal
MW-31D	8/2/2001	859727.30	254180.20	18.09	0.25	3.74	Predicted Extraction/Removal
MW-31D	1/4/2002	859727.30	254180.20	18.09	0.25	4.16	Predicted Extraction/Removal
MW-31D	4/22/2002	859727.30	254180.20	18.09	0.25	4.46	Predicted Extraction/Removal
MW-31D	8/7/2002	859727.30	254180.20	18.09	0.25	4.75	Predicted Extraction/Removal
MW-31D	11/15/2002	859727.30	254180.20	18.09	0.25	5.02	Predicted Extraction/Removal
MW-31D	3/27/2003	859727.30	254180.20	18.09	0.25	5.38	Predicted Extraction/Removal
MW-31D	9/27/2003	859727.30	254180.20	18.09	0.25	5.89	Predicted Extraction/Removal
MW-31D	2/28/2004	859727.30	254180.20	18.09	0.25	6.31	Predicted Extraction/Removal
MW-31D	5/11/2004	859727.30	254180.20	18.09	0.25	6.51	Predicted Extraction/Removal
MW-31D (13.59)	6/18/1998	859727.30	254180.20	13.59	1.10	0.61	Predicted Extraction/Removal
MW-31D (3.59)	6/19/1998	859727.30	254180.20	3.59	0.50	0.61	Predicted Extraction/Removal
MW-31D (-6.41)	6/19/1998	859727.30	254180.20	-6.41	0.25	0.61	Predicted Extraction/Removal
MW-31D (-16.41)	6/19/1998	859727.30	254180.20	-16.41	0.29	0.61	Predicted Extraction/Removal
MW-31D (-26.41)	6/19/1998	859727.30	254180.20	-26.41	0.25	0.61	Predicted Extraction/Removal
MW-31D (-36.41)	6/19/1998	859727.30	254180.20	-36.41	0.25	0.61	Predicted Extraction/Removal
MW-31D (-46.41)	6/22/1998	859727.30	254180.20	-46.41	0.25	0.62	Predicted Extraction/Removal
MW-31D (-56.41)	6/22/1998	859727.30	254180.20	-56.41	0.25	0.62	Predicted Extraction/Removal
MW-31M	2/2/1999	859727.30	254181.20	35.59	370.00	1.24	Predicted Extraction/Removal
MW-31M	9/15/1999	859727.30	254181.20	35.59	29.00	1.85	Predicted Extraction/Removal
MW-31M	5/15/2000	859727.30	254181.20	35.59	19.00	2.52	Predicted Extraction/Removal
MW-31M	8/9/2000	859727.30	254181.20	35.59	14.00	2.76	Predicted Extraction/Removal
MW-31M	12/8/2000	859727.30	254181.20	35.59	1.60	3.09	Predicted Extraction/Removal
MW-31M	5/23/2001	859727.30	254181.20	35.59	70.00	3.54	Predicted Extraction/Removal
MW-31M	8/2/2001	859727.30	254181.20	35.59	0.25	3.74	Predicted Extraction/Removal
MW-31M	1/4/2002	859727.30	254181.20	35.59	1.20	4.16	Predicted Extraction/Removal
MW-31M	4/22/2002	859727.30	254181.20	35.59	7.40	4.46	Predicted Extraction/Removal
MW-31M	8/7/2002	859727.30	254181.20	35.59	7.80	4.75	Predicted Extraction/Removal
MW-31M	11/15/2002	859727.30	254181.20	35.59	4.60	5.02	Predicted Extraction/Removal
MW-31M	3/27/2003	859727.30	254181.20	35.59	8.10	5.38	Predicted Extraction/Removal
MW-31M	9/27/2003	859727.30	254181.20	35.59	1.40	5.89	Predicted Extraction/Removal
MW-31M	2/28/2004	859727.30	254181.20	35.59	1.20	6.31	Predicted Extraction/Removal
MW-31M	5/11/2004	859727.30	254181.20	35.59	2.00	6.51	Predicted Extraction/Removal
MW-31M	10/27/2004	859727.30	254181.20	35.59	50.00	6.97	Predicted Extraction/Removal
MW-31M	4/30/2005	859727.30	254181.20	35.59	120.00	7.48	Predicted Extraction/Removal
MW-31S	2/1/1999	859727.30	254182.20	53.09	210.00	1.24	Predicted Extraction/Removal
MW-31S	9/15/1999	859727.30	254182.20	53.09	50.00	1.85	Predicted Extraction/Removal
MW-31S	5/15/2000	859727.30	254182.20	53.09	110.00	2.52	Predicted Extraction/Removal
MW-31S	8/9/2000	859727.30	254182.20	53.09	140.00	2.76	Predicted Extraction/Removal
MW-31S	12/8/2000	859727.30	254182.20	53.09	120.00	3.09	Predicted Extraction/Removal
MW-31S	5/2/2001	859727.30	254182.20	53.09	81.00	3.48	Predicted Extraction/Removal
MW-31S	8/24/2001	859727.30	254182.20	53.09	88.00	3.80	Predicted Extraction/Removal
MW-31S	1/4/2002	859727.30	254182.20	53.09	31.00	4.16	Predicted Extraction/Removal
MW-31S	5/29/2002	859727.30	254182.20	53.09	130.00	4.56	Predicted Extraction/Removal
MW-31S	8/7/2002	859727.30	254182.20	53.09	85.00	4.75	Predicted Extraction/Removal

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-31S	11/15/2002	859727.30	254182.20	53.09	11.00	5.02	Predicted Extraction/Removal
MW-31S	3/28/2003	859727.30	254182.20	53.09	86.00	5.39	Predicted Extraction/Removal
MW-31S	9/27/2003	859727.30	254182.20	53.09	63.00	5.89	Predicted Extraction/Removal
MW-31S	2/28/2004	859727.30	254182.20	53.09	21.00	6.31	Predicted Extraction/Removal
MW-31S	5/11/2004	859727.30	254182.20	53.09	72.00	6.51	Predicted Extraction/Removal
MW-31S	10/27/2004	859727.30	254182.20	53.09	13.00	6.97	Predicted Extraction/Removal
MW-31S	4/30/2005	859727.30	254182.20	53.09	61.00	7.48	Predicted Extraction/Removal
MW-34 (13.93)	1/8/1999	857747.00	253831.60	13.93	29.00	1.17	Predicted Extraction/Removal
MW-34 (3.93)	1/8/1999	857747.00	253831.60	3.93	13.00	1.17	Predicted Extraction/Removal
MW-34 (-6.07)	1/12/1999	857747.00	253831.60	-6.07	0.25	1.18	Predicted Extraction/Removal
MW-34 (-11.07)	1/12/1999	857747.00	253831.60	-11.07	0.25	1.18	Predicted Extraction/Removal
MW-34 (-16.07)	1/12/1999	857747.00	253831.60	-16.07	0.25	1.18	Predicted Extraction/Removal
MW-34 (-21.07)	1/12/1999	857747.00	253831.60	-21.07	0.25	1.18	Predicted Extraction/Removal
MW-34 (-26.07)	1/12/1999	857747.00	253831.60	-26.07	0.25	1.18	Predicted Extraction/Removal
MW-34 (-32.07)	1/12/1999	857747.00	253831.60	-32.07	0.25	1.18	Predicted Extraction/Removal
MW-34 (-46.07)	1/12/1999	857747.00	253831.60	-46.07	0.25	1.18	Predicted Extraction/Removal
MW-34 (-56.07)	1/12/1999	857747.00	253831.60	-56.07	0.25	1.18	Predicted Extraction/Removal
MW-34 (-66.07)	1/13/1999	857747.00	253831.60	-66.07	0.25	1.18	Predicted Extraction/Removal
MW-34M1	2/19/1999	857747.00	253831.70	-11.07	0.25	1.29	Predicted Extraction/Removal
MW-34M1	8/16/1999	857747.00	253831.70	-11.07	0.39	1.77	Predicted Extraction/Removal
MW-34M1	10/25/1999	857747.00	253831.70	-11.07	0.79	1.96	Predicted Extraction/Removal
MW-34M1	10/25/1999	857747.00	253831.70	-11.07	0.79	1.96	Predicted Extraction/Removal
MW-34M1	5/17/2000	857747.00	253831.70	-11.07	2.20	2.53	Predicted Extraction/Removal
MW-34M1	8/11/2000	857747.00	253831.70	-11.07	5.00	2.76	Predicted Extraction/Removal
MW-34M1	11/17/2000	857747.00	253831.70	-11.07	4.50	3.03	Predicted Extraction/Removal
MW-34M1	5/5/2001	857747.00	253831.70	-11.07	1.50	3.49	Predicted Extraction/Removal
MW-34M1	7/31/2001	857747.00	253831.70	-11.07	0.87	3.73	Predicted Extraction/Removal
MW-34M1	12/26/2001	857747.00	253831.70	-11.07	0.53	4.14	Predicted Extraction/Removal
MW-34M1	4/24/2002	857747.00	253831.70	-11.07	0.25	4.46	Predicted Extraction/Removal
MW-34M1	8/20/2002	857747.00	253831.70	-11.07	0.28	4.78	Predicted Extraction/Removal
MW-34M1	11/15/2002	857747.00	253831.70	-11.07	0.32	5.02	Predicted Extraction/Removal
MW-34M1	3/24/2003	857747.00	253831.70	-11.07	4.30	5.38	Predicted Extraction/Removal
MW-34M1	11/12/2003	857747.00	253831.70	-11.07	4.90	6.01	Predicted Extraction/Removal
MW-34M1	3/5/2004	857747.00	253831.70	-11.07	2.60	6.33	Predicted Extraction/Removal
MW-34M1	5/14/2004	857747.00	253831.70	-11.07	6.80	6.52	Predicted Extraction/Removal
MW-34M1	8/5/2004	857747.00	253831.70	-11.07	3.70	6.74	Predicted Extraction/Removal
MW-34M1	4/21/2005	857747.00	253831.70	-11.07	4.70	7.45	Predicted Extraction/Removal
MW-34M1	4/18/2006	857747.00	253831.70	-11.07	6.60	8.44	Predicted Extraction/Removal
MW-34M1	4/25/2007	857747.00	253831.70	-11.07	0.47	9.46	Predicted Extraction/Removal
MW-34M1	4/21/2008	857747.00	253831.70	-11.07	0.25	10.45	Predicted Extraction/Removal
MW-34M1	4/30/2009	857747.00	253831.70	-11.07	0.25	11.48	Predicted Extraction/Removal
MW-34M1	4/14/2010	857747.00	253831.70	-11.07	0.25	12.43	Predicted Extraction/Removal
MW-34M1	4/28/2011	857747.00	253831.70	-11.07	0.25	13.47	Predicted Extraction/Removal
MW-34M2	2/19/1999	857750.30	253831.70	8.93	6.20	1.29	Predicted Extraction/Removal
MW-34M2	8/16/1999	857750.30	253831.70	8.93	1.30	1.77	Predicted Extraction/Removal
MW-34M2	10/25/1999	857750.30	253831.70	8.93	1.90	1.96	Predicted Extraction/Removal

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-34M2	5/18/2000	857750.30	253831.70	8.93	4.70	2.53	Predicted Extraction/Removal
MW-34M2	8/10/2000	857750.30	253831.70	8.93	3.10	2.76	Predicted Extraction/Removal
MW-34M2	11/17/2000	857750.30	253831.70	8.93	2.50	3.03	Predicted Extraction/Removal
MW-34M2	5/1/2001	857750.30	253831.70	8.93	0.87	3.48	Predicted Extraction/Removal
MW-34M2	7/30/2001	857750.30	253831.70	8.93	0.37	3.73	Predicted Extraction/Removal
MW-34M2	12/26/2001	857750.30	253831.70	8.93	0.25	4.14	Predicted Extraction/Removal
MW-34M2	4/24/2002	857750.30	253831.70	8.93	0.50	4.46	Predicted Extraction/Removal
MW-34M2	8/20/2002	857750.30	253831.70	8.93	0.66	4.78	Predicted Extraction/Removal
MW-34M2	11/15/2002	857750.30	253831.70	8.93	1.20	5.02	Predicted Extraction/Removal
MW-34M2	3/24/2003	857750.30	253831.70	8.93	1.90	5.38	Predicted Extraction/Removal
MW-34M2	11/12/2003	857750.30	253831.70	8.93	3.90	6.01	Predicted Extraction/Removal
MW-34M2	3/5/2004	857750.30	253831.70	8.93	0.25	6.33	Predicted Extraction/Removal
MW-34M2	5/14/2004	857750.30	253831.70	8.93	3.20	6.52	Predicted Extraction/Removal
MW-34M2	8/5/2004	857750.30	253831.70	8.93	2.10	6.74	Predicted Extraction/Removal
MW-34M2	12/8/2004	857750.30	253831.70	8.93	2.20	7.09	Predicted Extraction/Removal
MW-34M2	6/22/2005	857750.30	253831.70	8.93	4.80	7.62	Predicted Extraction/Removal
MW-34M2	2/8/2006	857750.30	253831.70	8.93	3.90	8.26	Predicted Extraction/Removal
MW-34M2	4/18/2006	857750.30	253831.70	8.93	4.90	8.44	Predicted Extraction/Removal
MW-34M2	1/2/2007	857750.30	253831.70	8.93	2.70	9.15	Predicted Extraction/Removal
MW-34M2	4/25/2007	857750.30	253831.70	8.93	1.70	9.46	Predicted Extraction/Removal
MW-34M2	4/21/2008	857750.30	253831.70	8.93	0.25	10.45	Predicted Extraction/Removal
MW-34M2	4/30/2009	857750.30	253831.70	8.93	0.25	11.48	Predicted Extraction/Removal
MW-34M2	4/14/2010	857750.30	253831.70	8.93	0.25	12.43	Predicted Extraction/Removal
MW-34M2	4/28/2011	857750.30	253831.70	8.93	0.25	13.47	Predicted Extraction/Removal
MW-34M3	2/19/1999	857747.00	253834.90	28.93	0.25	1.29	Predicted Extraction/Removal
MW-34M3	8/16/1999	857747.00	253834.90	28.93	0.25	1.77	Predicted Extraction/Removal
MW-34M3	10/25/1999	857747.00	253834.90	28.93	0.25	1.96	Predicted Extraction/Removal
MW-34M3	5/18/2000	857747.00	253834.90	28.93	0.25	2.53	Predicted Extraction/Removal
MW-34M3	8/10/2000	857747.00	253834.90	28.93	0.25	2.76	Predicted Extraction/Removal
MW-34M3	11/17/2000	857747.00	253834.90	28.93	0.25	3.03	Predicted Extraction/Removal
MW-34M3	5/1/2001	857747.00	253834.90	28.93	0.25	3.48	Predicted Extraction/Removal
MW-34M3	7/31/2001	857747.00	253834.90	28.93	0.25	3.73	Predicted Extraction/Removal
MW-34M3	12/26/2001	857747.00	253834.90	28.93	0.25	4.14	Predicted Extraction/Removal
MW-34M3	4/24/2002	857747.00	253834.90	28.93	0.25	4.46	Predicted Extraction/Removal
MW-34M3	8/20/2002	857747.00	253834.90	28.93	0.25	4.78	Predicted Extraction/Removal
MW-34M3	11/15/2002	857747.00	253834.90	28.93	0.25	5.02	Predicted Extraction/Removal
MW-34M3	3/24/2003	857747.00	253834.90	28.93	0.25	5.38	Predicted Extraction/Removal
MW-34M3	11/12/2003	857747.00	253834.90	28.93	0.37	6.01	Predicted Extraction/Removal
MW-34M3	3/5/2004	857747.00	253834.90	28.93	0.25	6.33	Predicted Extraction/Removal
MW-34M3	5/14/2004	857747.00	253834.90	28.93	0.25	6.52	Predicted Extraction/Removal
MW-34M3	8/6/2004	857747.00	253834.90	28.93	0.25	6.75	Predicted Extraction/Removal
MW-34M3	12/8/2004	857747.00	253834.90	28.93	0.25	7.09	Predicted Extraction/Removal
MW-34M3	6/22/2005	857747.00	253834.90	28.93	0.25	7.62	Predicted Extraction/Removal
MW-34M3	4/18/2006	857747.00	253834.90	28.93	0.25	8.44	Predicted Extraction/Removal
MW-34M3	4/26/2007	857747.00	253834.90	28.93	0.25	9.47	Predicted Extraction/Removal
MW-34M3	4/23/2008	857747.00	253834.90	28.93	0.25	10.46	Predicted Extraction/Removal

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-34M3	4/30/2009	857747.00	253834.90	28.93	0.25	11.48	Predicted Extraction/Removal
MW-34M3	4/14/2010	857747.00	253834.90	28.93	0.25	12.43	Predicted Extraction/Removal
MW-34M3	5/3/2011	857747.00	253834.90	28.93	0.25	13.48	Predicted Extraction/Removal
MW-35 (-10.91)	1/25/1999	857065.80	253742.60	-10.91	0.25	1.22	Predicted Extraction/Removal
MW-35M1	2/19/1999	857065.80	253742.70	-5.91	0.25	1.29	Predicted Extraction/Removal
MW-35M1	8/20/1999	857065.80	253742.70	-5.91	0.25	1.78	Predicted Extraction/Removal
MW-35M1	10/28/1999	857065.80	253742.70	-5.91	0.25	1.97	Predicted Extraction/Removal
MW-35M1	5/22/2000	857065.80	253742.70	-5.91	0.25	2.54	Predicted Extraction/Removal
MW-35M1	8/9/2000	857065.80	253742.70	-5.91	0.25	2.76	Predicted Extraction/Removal
MW-35M1	11/17/2000	857065.80	253742.70	-5.91	0.25	3.03	Predicted Extraction/Removal
MW-35M1	4/27/2001	857065.80	253742.70	-5.91	0.25	3.47	Predicted Extraction/Removal
MW-35M1	8/3/2001	857065.80	253742.70	-5.91	0.25	3.74	Predicted Extraction/Removal
MW-35M1	12/21/2001	857065.80	253742.70	-5.91	0.25	4.12	Predicted Extraction/Removal
MW-35M1	4/24/2002	857065.80	253742.70	-5.91	0.25	4.46	Predicted Extraction/Removal
MW-35M1	8/19/2002	857065.80	253742.70	-5.91	0.25	4.78	Predicted Extraction/Removal
MW-35M1	11/18/2002	857065.80	253742.70	-5.91	0.25	5.03	Predicted Extraction/Removal
MW-35M1	7/1/2003	857065.80	253742.70	-5.91	0.25	5.65	Predicted Extraction/Removal
MW-35M1	8/25/2004	857065.80	253742.70	-5.91	0.25	6.80	Predicted Extraction/Removal
MW-35M2	8/3/2001	857069.10	253742.70	49.09	0.25	3.74	Predicted Extraction/Removal
MW-35M2	12/21/2001	857069.10	253742.70	49.09	0.25	4.12	Predicted Extraction/Removal
MW-35M2	4/24/2002	857069.10	253742.70	49.09	0.25	4.46	Predicted Extraction/Removal
MW-35M2	8/20/2002	857069.10	253742.70	49.09	0.25	4.78	Predicted Extraction/Removal
MW-35M2	11/18/2002	857069.10	253742.70	49.09	0.25	5.03	Predicted Extraction/Removal
MW-35S	1/14/2002	857065.80	253746.00	65.09	0.25	4.19	Predicted Extraction/Removal
MW-36 (62.52)	3/10/1999	857805.00	253907.80	62.52	0.25	1.34	Predicted Extraction/Removal
MW-36 (47.52)	3/10/1999	857805.00	253907.80	47.52	0.25	1.34	Predicted Extraction/Removal
MW-36 (37.52)	3/11/1999	857805.00	253907.80	37.52	0.25	1.34	Predicted Extraction/Removal
MW-36 (27.52)	3/11/1999	857805.00	253907.80	27.52	0.25	1.34	Predicted Extraction/Removal
MW-36 (17.52)	3/11/1999	857805.00	253907.80	17.52	0.25	1.34	Predicted Extraction/Removal
MW-36 (7.52)	3/11/1999	857805.00	253907.80	7.52	0.25	1.34	Predicted Extraction/Removal
MW-36 (-2.48)	3/11/1999	857805.00	253907.80	-2.48	0.25	1.34	Predicted Extraction/Removal
MW-36 (-12.48)	3/11/1999	857805.00	253907.80	-12.48	0.25	1.34	Predicted Extraction/Removal
MW-36 (-22.48)	3/12/1999	857805.00	253907.80	-22.48	0.25	1.34	Predicted Extraction/Removal
MW-36 (-32.48)	3/12/1999	857805.00	253907.80	-32.48	0.25	1.34	Predicted Extraction/Removal
MW-36 (-42.48)	3/12/1999	857805.00	253907.80	-42.48	0.25	1.34	Predicted Extraction/Removal
MW-36 (-52.48)	3/12/1999	857805.00	253907.80	-52.48	0.25	1.34	Predicted Extraction/Removal
MW-36M1	5/5/1999	857805.00	253907.90	-12.48	0.25	1.49	Predicted Extraction/Removal
MW-36M1	8/17/1999	857805.00	253907.90	-12.48	0.25	1.78	Predicted Extraction/Removal
MW-36M1	10/25/1999	857805.00	253907.90	-12.48	0.25	1.96	Predicted Extraction/Removal
MW-36M1	8/10/2000	857805.00	253907.90	-12.48	0.25	2.76	Predicted Extraction/Removal
MW-36M1	8/2/2001	857805.00	253907.90	-12.48	0.25	3.74	Predicted Extraction/Removal
MW-36M1	4/24/2002	857805.00	253907.90	-12.48	0.25	4.46	Predicted Extraction/Removal
MW-36M1	11/12/2003	857805.00	253907.90	-12.48	0.25	6.01	Predicted Extraction/Removal
MW-36M1	8/3/2004	857805.00	253907.90	-12.48	0.25	6.74	Predicted Extraction/Removal
MW-36M1	4/21/2005	857805.00	253907.90	-12.48	0.25	7.45	Predicted Extraction/Removal
MW-36M2	5/5/1999	857808.30	253907.90	7.52	0.25	1.49	Predicted Extraction/Removal

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-36M2	8/17/1999	857808.30	253907.90	7.52	0.25	1.78	Predicted Extraction/Removal
MW-36M2	10/25/1999	857808.30	253907.90	7.52	0.25	1.96	Predicted Extraction/Removal
MW-36M2	8/10/2000	857808.30	253907.90	7.52	0.25	2.76	Predicted Extraction/Removal
MW-36M2	8/2/2001	857808.30	253907.90	7.52	0.25	3.74	Predicted Extraction/Removal
MW-36M2	4/24/2002	857808.30	253907.90	7.52	0.25	4.46	Predicted Extraction/Removal
MW-36M2	11/12/2003	857808.30	253907.90	7.52	0.25	6.01	Predicted Extraction/Removal
MW-36M2	4/22/2004	857808.30	253907.90	7.52	0.25	6.46	Predicted Extraction/Removal
MW-36M2	8/3/2004	857808.30	253907.90	7.52	0.25	6.74	Predicted Extraction/Removal
MW-36M2	4/18/2006	857808.30	253907.90	7.52	0.25	8.44	Predicted Extraction/Removal
MW-36M2	4/26/2007	857808.30	253907.90	7.52	0.25	9.47	Predicted Extraction/Removal
MW-36M2	4/23/2008	857808.30	253907.90	7.52	0.25	10.46	Predicted Extraction/Removal
MW-36M2	4/22/2009	857808.30	253907.90	7.52	0.25	11.46	Predicted Extraction/Removal
MW-36M2	4/13/2010	857808.30	253907.90	7.52	0.25	12.43	Predicted Extraction/Removal
MW-36S	5/5/1999	857805.00	253911.20	65.52	0.25	1.49	Predicted Extraction/Removal
MW-36S	8/17/1999	857805.00	253911.20	65.52	0.25	1.78	Predicted Extraction/Removal
MW-36S	10/25/1999	857805.00	253911.20	65.52	0.25	1.96	Predicted Extraction/Removal
MW-36S	9/20/2000	857805.00	253911.20	65.52	0.25	2.87	Predicted Extraction/Removal
MW-36S	8/2/2001	857805.00	253911.20	65.52	0.25	3.74	Predicted Extraction/Removal
MW-545M1	6/20/2011	849317.30	253279.90	-104.20	0.37	13.62	Predicted Extraction/Removal
MW-545M1	9/21/2011	849317.30	253279.90	-104.20	0.18	13.87	Predicted Extraction/Removal
MW-545M1	12/20/2011	849317.30	253279.90	-104.20	0.18	14.12	Predicted Extraction/Removal
MW-545M1	5/30/2012	849317.30	253279.90	-104.20	0.14	14.56	Predicted Extraction/Removal
MW-545M2	9/21/2011	849322.40	253278.50	-84.30	0.61	13.87	Predicted Extraction/Removal
MW-545M2	12/21/2011	849322.40	253278.50	-84.30	0.32	14.12	Predicted Extraction/Removal
MW-545M2	5/30/2012	849322.40	253278.50	-84.30	0.23	14.56	Predicted Extraction/Removal
MW-545M2	12/10/2012	849322.40	253278.50	-84.30	0.10	15.09	Predicted Extraction/Removal
MW-73S	7/9/1999	860190.10	254252.20	65.49	50.00	1.67	Predicted Extraction/Removal
MW-73S	9/16/1999	860190.10	254252.20	65.49	63.00	1.86	Predicted Extraction/Removal
MW-73S	11/2/1999	860190.10	254252.20	65.49	57.00	1.99	Predicted Extraction/Removal
MW-73S	6/2/2000	860190.10	254252.20	65.49	44.00	2.57	Predicted Extraction/Removal
MW-73S	9/5/2000	860190.10	254252.20	65.49	29.00	2.83	Predicted Extraction/Removal
MW-73S	11/14/2000	860190.10	254252.20	65.49	28.00	3.02	Predicted Extraction/Removal
MW-73S	6/14/2001	860190.10	254252.20	65.49	22.00	3.60	Predicted Extraction/Removal
MW-73S	1/11/2002	860190.10	254252.20	65.49	79.00	4.18	Predicted Extraction/Removal
MW-73S	8/20/2002	860190.10	254252.20	65.49	34.00	4.78	Predicted Extraction/Removal
MW-74 (57.54)	1/18/2000	858836.30	254302.20	57.54	0.25	2.20	Predicted Extraction/Removal
MW-74 (47.54)	1/18/2000	858836.30	254302.20	47.54	0.25	2.20	Predicted Extraction/Removal
MW-74 (37.54)	1/19/2000	858836.30	254302.20	37.54	0.25	2.20	Predicted Extraction/Removal
MW-74 (27.54)	1/19/2000	858836.30	254302.20	27.54	0.25	2.20	Predicted Extraction/Removal
MW-74 (17.54)	1/19/2000	858836.30	254302.20	17.54	0.25	2.20	Predicted Extraction/Removal
MW-74 (7.54)	1/19/2000	858836.30	254302.20	7.54	0.25	2.20	Predicted Extraction/Removal
MW-74 (-2.46)	1/19/2000	858836.30	254302.20	-2.46	0.25	2.20	Predicted Extraction/Removal
MW-74 (-12.46)	1/19/2000	858836.30	254302.20	-12.46	0.25	2.20	Predicted Extraction/Removal
MW-74 (-22.46)	1/19/2000	858836.30	254302.20	-22.46	0.25	2.20	Predicted Extraction/Removal
MW-74 (-32.46)	1/20/2000	858836.30	254302.20	-32.46	0.25	2.20	Predicted Extraction/Removal
MW-74 (-40.96)	1/20/2000	858836.30	254302.20	-40.96	0.25	2.20	Predicted Extraction/Removal

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-74M1	2/14/2000	858836.30	254303.20	-12.46	0.25	2.27	Predicted Extraction/Removal
MW-74M1	5/1/2000	858836.30	254303.20	-12.46	0.25	2.48	Predicted Extraction/Removal
MW-74M1	8/1/2000	858836.30	254303.20	-12.46	0.25	2.73	Predicted Extraction/Removal
MW-74M1	5/2/2001	858836.30	254303.20	-12.46	0.25	3.48	Predicted Extraction/Removal
MW-74M1	5/8/2001	858836.30	254303.20	-12.46	0.25	3.50	Predicted Extraction/Removal
MW-74M1	8/13/2001	858836.30	254303.20	-12.46	0.25	3.77	Predicted Extraction/Removal
MW-74M1	1/3/2002	858836.30	254303.20	-12.46	0.25	4.16	Predicted Extraction/Removal
MW-74M1	4/25/2002	858836.30	254303.20	-12.46	0.99	4.46	Predicted Extraction/Removal
MW-74M2	2/14/2000	858836.30	254302.20	32.55	0.25	2.27	Predicted Extraction/Removal
MW-74M2	5/1/2000	858836.30	254302.20	32.55	0.25	2.48	Predicted Extraction/Removal
MW-74M2	8/1/2000	858836.30	254302.20	32.55	0.25	2.73	Predicted Extraction/Removal
MW-74M2	5/2/2001	858836.30	254302.20	32.55	0.25	3.48	Predicted Extraction/Removal
MW-74M2	8/10/2001	858836.30	254302.20	32.55	0.25	3.76	Predicted Extraction/Removal
MW-74M2	1/3/2002	858836.30	254302.20	32.55	0.25	4.16	Predicted Extraction/Removal
MW-74M2	4/25/2002	858836.30	254302.20	32.55	0.25	4.46	Predicted Extraction/Removal
MW-74M2	3/25/2003	858836.30	254302.20	32.55	0.25	5.38	Predicted Extraction/Removal
MW-74M2	4/5/2004	858836.30	254302.20	32.55	0.25	6.41	Predicted Extraction/Removal
MW-74M2	8/3/2004	858836.30	254302.20	32.55	0.25	6.74	Predicted Extraction/Removal
MW-74M3	2/14/2000	858837.30	254302.20	57.54	0.25	2.27	Predicted Extraction/Removal
MW-74M3	5/1/2000	858837.30	254302.20	57.54	0.25	2.48	Predicted Extraction/Removal
MW-74M3	8/1/2000	858837.30	254302.20	57.54	0.25	2.73	Predicted Extraction/Removal
MW-74M3	5/10/2001	858837.30	254302.20	57.54	0.25	3.51	Predicted Extraction/Removal
MW-74M3	8/13/2001	858837.30	254302.20	57.54	0.25	3.77	Predicted Extraction/Removal
MW-74M3	1/3/2002	858837.30	254302.20	57.54	0.25	4.16	Predicted Extraction/Removal
MW-75 (50.06)	11/18/1999	858866.00	254151.80	50.06	0.25	2.03	Predicted Extraction/Removal
MW-75 (40.06)	11/18/1999	858866.00	254151.80	40.06	0.85	2.03	Predicted Extraction/Removal
MW-75 (40.06)	11/18/1999	858866.00	254151.80	40.06	0.85	2.03	Predicted Extraction/Removal
MW-75 (30.06)	11/18/1999	858866.00	254151.80	30.06	3.20	2.03	Predicted Extraction/Removal
MW-75 (20.06)	11/18/1999	858866.00	254151.80	20.06	1.70	2.03	Predicted Extraction/Removal
MW-75 (10.06)	11/18/1999	858866.00	254151.80	10.06	0.25	2.03	Predicted Extraction/Removal
MW-75 (0.06)	11/18/1999	858866.00	254151.80	0.06	0.25	2.03	Predicted Extraction/Removal
MW-75 (-9.94)	11/18/1999	858866.00	254151.80	-9.94	0.25	2.03	Predicted Extraction/Removal
MW-75 (-19.94)	11/18/1999	858866.00	254151.80	-19.94	0.25	2.03	Predicted Extraction/Removal
MW-75 (-29.94)	11/18/1999	858866.00	254151.80	-29.94	0.25	2.03	Predicted Extraction/Removal
MW-75 (-39.94)	11/18/1999	858866.00	254151.80	-39.94	0.25	2.03	Predicted Extraction/Removal
MW-75 (-49.94)	11/19/1999	858866.00	254151.80	-49.94	0.25	2.03	Predicted Extraction/Removal
MW-75M1	1/27/2000	858866.00	254151.90	5.06	0.25	2.22	Predicted Extraction/Removal
MW-75M1	5/1/2000	858866.00	254151.90	5.06	0.25	2.48	Predicted Extraction/Removal
MW-75M1	8/1/2000	858866.00	254151.90	5.06	0.25	2.73	Predicted Extraction/Removal
MW-75M1	12/7/2000	858866.00	254151.90	5.06	0.25	3.08	Predicted Extraction/Removal
MW-75M1	5/9/2001	858866.00	254151.90	5.06	0.25	3.50	Predicted Extraction/Removal
MW-75M1	8/9/2001	858866.00	254151.90	5.06	0.25	3.75	Predicted Extraction/Removal
MW-75M1	1/4/2002	858866.00	254151.90	5.06	0.25	4.16	Predicted Extraction/Removal
MW-75M1	4/24/2002	858866.00	254151.90	5.06	0.25	4.46	Predicted Extraction/Removal
MW-75M1	8/19/2002	858866.00	254151.90	5.06	0.25	4.78	Predicted Extraction/Removal
MW-75M1	11/18/2002	858866.00	254151.90	5.06	0.25	5.03	Predicted Extraction/Removal

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-75M1	3/25/2003	858866.00	254151.90	5.06	0.25	5.38	Predicted Extraction/Removal
MW-75M1	2/25/2004	858866.00	254151.90	5.06	0.25	6.30	Predicted Extraction/Removal
MW-75M1	4/7/2004	858866.00	254151.90	5.06	0.25	6.42	Predicted Extraction/Removal
MW-75M1	8/3/2004	858866.00	254151.90	5.06	0.25	6.74	Predicted Extraction/Removal
MW-75M1	4/12/2005	858866.00	254151.90	5.06	0.25	7.43	Predicted Extraction/Removal
MW-75M1	4/21/2006	858866.00	254151.90	5.06	0.25	8.45	Predicted Extraction/Removal
MW-75M1	4/24/2007	858866.00	254151.90	5.06	0.25	9.46	Predicted Extraction/Removal
MW-75M1	4/25/2008	858866.00	254151.90	5.06	0.25	10.47	Predicted Extraction/Removal
MW-75M2	1/27/2000	858866.90	254152.90	30.06	1.60	2.22	Predicted Extraction/Removal
MW-75M2	5/1/2000	858866.90	254152.90	30.06	1.60	2.48	Predicted Extraction/Removal
MW-75M2	8/2/2000	858866.90	254152.90	30.06	0.69	2.74	Predicted Extraction/Removal
MW-75M2	12/7/2000	858866.90	254152.90	30.06	1.20	3.08	Predicted Extraction/Removal
MW-75M2	5/9/2001	858866.90	254152.90	30.06	1.40	3.50	Predicted Extraction/Removal
MW-75M2	8/9/2001	858866.90	254152.90	30.06	1.60	3.75	Predicted Extraction/Removal
MW-75M2	1/7/2002	858866.90	254152.90	30.06	0.81	4.17	Predicted Extraction/Removal
MW-75M2	4/25/2002	858866.90	254152.90	30.06	0.25	4.46	Predicted Extraction/Removal
MW-75M2	6/28/2002	858866.90	254152.90	30.06	0.76	4.64	Predicted Extraction/Removal
MW-75M2	8/19/2002	858866.90	254152.90	30.06	0.50	4.78	Predicted Extraction/Removal
MW-75M2	11/18/2002	858866.90	254152.90	30.06	0.25	5.03	Predicted Extraction/Removal
MW-75M2	3/26/2003	858866.90	254152.90	30.06	0.25	5.38	Predicted Extraction/Removal
MW-75M2	12/4/2003	858866.90	254152.90	30.06	0.25	6.07	Predicted Extraction/Removal
MW-75M2	8/3/2004	858866.90	254152.90	30.06	0.25	6.74	Predicted Extraction/Removal
MW-75M2	12/8/2004	858866.90	254152.90	30.06	0.25	7.09	Predicted Extraction/Removal
MW-75M2	6/22/2005	858866.90	254152.90	30.06	0.25	7.62	Predicted Extraction/Removal
MW-75M2	2/10/2006	858866.90	254152.90	30.06	0.25	8.26	Predicted Extraction/Removal
MW-75M2	4/21/2006	858866.90	254152.90	30.06	0.30	8.45	Predicted Extraction/Removal
MW-75M2	1/3/2007	858866.90	254152.90	30.06	0.37	9.16	Predicted Extraction/Removal
MW-75M2	4/24/2007	858866.90	254152.90	30.06	0.46	9.46	Predicted Extraction/Removal
MW-75M2	4/25/2008	858866.90	254152.90	30.06	0.25	10.47	Predicted Extraction/Removal
MW-75S	1/27/2000	858866.90	254150.90	64.06	0.25	2.22	Predicted Extraction/Removal
MW-75S	5/2/2000	858866.90	254150.90	64.06	0.25	2.48	Predicted Extraction/Removal
MW-75S	8/1/2000	858866.90	254150.90	64.06	0.25	2.73	Predicted Extraction/Removal
MW-75S	12/7/2000	858866.90	254150.90	64.06	0.25	3.08	Predicted Extraction/Removal
MW-75S	5/9/2001	858866.90	254150.90	64.06	0.25	3.50	Predicted Extraction/Removal
MW-75S	8/10/2001	858866.90	254150.90	64.06	0.25	3.76	Predicted Extraction/Removal
MW-75S	1/3/2002	858866.90	254150.90	64.06	0.25	4.16	Predicted Extraction/Removal
MW-75S	8/20/2002	858866.90	254150.90	64.06	0.25	4.78	Predicted Extraction/Removal
MW-75S	12/4/2003	858866.90	254150.90	64.06	0.25	6.07	Predicted Extraction/Removal
MW-75S	2/25/2004	858866.90	254150.90	64.06	0.25	6.30	Predicted Extraction/Removal
MW-75S	4/7/2004	858866.90	254150.90	64.06	0.25	6.42	Predicted Extraction/Removal
MW-75S	8/3/2004	858866.90	254150.90	64.06	0.25	6.74	Predicted Extraction/Removal
MW-75S	4/15/2005	858866.90	254150.90	64.06	0.25	7.44	Predicted Extraction/Removal
MW-75S	4/21/2006	858866.90	254150.90	64.06	0.25	8.45	Predicted Extraction/Removal
MW-75S	4/24/2007	858866.90	254150.90	64.06	0.25	9.46	Predicted Extraction/Removal
MW-76 (61.06)	10/18/1999	858929.00	253854.90	61.06	0.25	1.94	Predicted Extraction/Removal
MW-76 (56.06)	10/18/1999	858929.00	253854.90	56.06	0.25	1.94	Predicted Extraction/Removal

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-76 (46.06)	10/19/1999	858929.00	253854.90	46.06	8.30	1.95	Predicted Extraction/Removal
MW-76 (46.06)	10/19/1999	858929.00	253854.90	46.06	8.30	1.95	Predicted Extraction/Removal
MW-76 (36.06)	10/19/1999	858929.00	253854.90	36.06	18.00	1.95	Predicted Extraction/Removal
MW-76 (26.06)	10/19/1999	858929.00	253854.90	26.06	25.00	1.95	Predicted Extraction/Removal
MW-76 (16.06)	10/19/1999	858929.00	253854.90	16.06	0.65	1.95	Predicted Extraction/Removal
MW-76 (6.06)	10/19/1999	858929.00	253854.90	6.06	0.25	1.95	Predicted Extraction/Removal
MW-76 (-3.94)	10/19/1999	858929.00	253854.90	-3.94	0.25	1.95	Predicted Extraction/Removal
MW-76 (-13.94)	10/19/1999	858929.00	253854.90	-13.94	0.25	1.95	Predicted Extraction/Removal
MW-76 (-23.94)	10/19/1999	858929.00	253854.90	-23.94	0.25	1.95	Predicted Extraction/Removal
MW-76 (-33.94)	10/19/1999	858929.00	253854.90	-33.94	0.25	1.95	Predicted Extraction/Removal
MW-76M1	1/24/2000	858929.00	253855.00	6.06	0.25	2.21	Predicted Extraction/Removal
MW-76M1	5/2/2000	858929.00	253855.00	6.06	0.25	2.48	Predicted Extraction/Removal
MW-76M1	8/1/2000	858929.00	253855.00	6.06	0.25	2.73	Predicted Extraction/Removal
MW-76M1	12/7/2000	858929.00	253855.00	6.06	5.30	3.08	Predicted Extraction/Removal
MW-76M1	5/7/2001	858929.00	253855.00	6.06	28.00	3.50	Predicted Extraction/Removal
MW-76M1	8/13/2001	858929.00	253855.00	6.06	90.00	3.77	Predicted Extraction/Removal
MW-76M1	12/28/2001	858929.00	253855.00	6.06	110.00	4.14	Predicted Extraction/Removal
MW-76M1	4/24/2002	858929.00	253855.00	6.06	79.00	4.46	Predicted Extraction/Removal
MW-76M1	8/19/2002	858929.00	253855.00	6.06	14.00	4.78	Predicted Extraction/Removal
MW-76M1	11/18/2002	858929.00	253855.00	6.06	2.70	5.03	Predicted Extraction/Removal
MW-76M1	3/25/2003	858929.00	253855.00	6.06	110.00	5.38	Predicted Extraction/Removal
MW-76M1	9/27/2003	858929.00	253855.00	6.06	170.00	5.89	Predicted Extraction/Removal
MW-76M1	2/24/2004	858929.00	253855.00	6.06	51.00	6.30	Predicted Extraction/Removal
MW-76M1	4/21/2004	858929.00	253855.00	6.06	38.00	6.45	Predicted Extraction/Removal
MW-76M1	8/11/2004	858929.00	253855.00	6.06	59.00	6.76	Predicted Extraction/Removal
MW-76M1	4/14/2005	858929.00	253855.00	6.06	13.00	7.43	Predicted Extraction/Removal
MW-76M1	4/19/2006	858929.00	253855.00	6.06	0.46	8.45	Predicted Extraction/Removal
MW-76M1	4/20/2007	858929.00	253855.00	6.06	3.90	9.45	Predicted Extraction/Removal
MW-76M1	4/24/2008	858929.00	253855.00	6.06	0.25	10.46	Predicted Extraction/Removal
MW-76M1	4/29/2009	858929.00	253855.00	6.06	10.60	11.48	Predicted Extraction/Removal
MW-76M2	1/24/2000	858930.00	253856.00	26.06	31.00	2.21	Predicted Extraction/Removal
MW-76M2	5/2/2000	858930.00	253856.00	26.06	37.00	2.48	Predicted Extraction/Removal
MW-76M2	8/2/2000	858930.00	253856.00	26.06	31.00	2.74	Predicted Extraction/Removal
MW-76M2	12/7/2000	858930.00	253856.00	26.06	46.00	3.08	Predicted Extraction/Removal
MW-76M2	5/7/2001	858930.00	253856.00	26.06	56.00	3.50	Predicted Extraction/Removal
MW-76M2	8/13/2001	858930.00	253856.00	26.06	51.00	3.77	Predicted Extraction/Removal
MW-76M2	1/7/2002	858930.00	253856.00	26.06	92.00	4.17	Predicted Extraction/Removal
MW-76M2	4/24/2002	858930.00	253856.00	26.06	130.00	4.46	Predicted Extraction/Removal
MW-76M2	8/19/2002	858930.00	253856.00	26.06	160.00	4.78	Predicted Extraction/Removal
MW-76M2	11/20/2002	858930.00	253856.00	26.06	160.00	5.04	Predicted Extraction/Removal
MW-76M2	3/26/2003	858930.00	253856.00	26.06	220.00	5.38	Predicted Extraction/Removal
MW-76M2	12/3/2003	858930.00	253856.00	26.06	150.00	6.07	Predicted Extraction/Removal
MW-76M2	2/24/2004	858930.00	253856.00	26.06	160.00	6.30	Predicted Extraction/Removal
MW-76M2	4/22/2004	858930.00	253856.00	26.06	160.00	6.46	Predicted Extraction/Removal
MW-76M2	8/11/2004	858930.00	253856.00	26.06	140.00	6.76	Predicted Extraction/Removal
MW-76M2	4/13/2005	858930.00	253856.00	26.06	62.00	7.43	Predicted Extraction/Removal

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-76M2	4/19/2006	858930.00	253856.00	26.06	28.00	8.45	Predicted Extraction/Removal
MW-76M2	4/23/2007	858930.00	253856.00	26.06	22.60	9.46	Predicted Extraction/Removal
MW-76M2	12/7/2007	858930.00	253856.00	26.06	9.44	10.08	Predicted Extraction/Removal
MW-76M2	4/24/2008	858930.00	253856.00	26.06	22.90	10.46	Predicted Extraction/Removal
MW-76M2	12/16/2008	858930.00	253856.00	26.06	21.40	11.11	Predicted Extraction/Removal
MW-76M2	4/29/2009	858930.00	253856.00	26.06	22.80	11.48	Predicted Extraction/Removal
MW-76M2	11/16/2009	858930.00	253856.00	26.06	12.00	12.03	Predicted Extraction/Removal
MW-76M2	11/16/2009	858930.00	253856.00	26.06	12.00	12.03	Predicted Extraction/Removal
MW-76S	1/20/2000	858930.00	253854.00	46.06	11.00	2.20	Predicted Extraction/Removal
MW-76S	5/2/2000	858930.00	253854.00	46.06	7.50	2.48	Predicted Extraction/Removal
MW-76S	8/1/2000	858930.00	253854.00	46.06	4.10	2.73	Predicted Extraction/Removal
MW-76S	12/7/2000	858930.00	253854.00	46.06	1.30	3.08	Predicted Extraction/Removal
MW-76S	5/7/2001	858930.00	253854.00	46.06	2.10	3.50	Predicted Extraction/Removal
MW-76S	8/10/2001	858930.00	253854.00	46.06	4.50	3.76	Predicted Extraction/Removal
MW-76S	12/28/2001	858930.00	253854.00	46.06	9.90	4.14	Predicted Extraction/Removal
MW-76S	4/24/2002	858930.00	253854.00	46.06	25.00	4.46	Predicted Extraction/Removal
MW-76S	8/20/2002	858930.00	253854.00	46.06	31.00	4.78	Predicted Extraction/Removal
MW-76S	11/18/2002	858930.00	253854.00	46.06	10.00	5.03	Predicted Extraction/Removal
MW-76S	9/27/2003	858930.00	253854.00	46.06	18.00	5.89	Predicted Extraction/Removal
MW-76S	2/24/2004	858930.00	253854.00	46.06	28.00	6.30	Predicted Extraction/Removal
MW-76S	4/21/2004	858930.00	253854.00	46.06	14.00	6.45	Predicted Extraction/Removal
MW-76S	8/11/2004	858930.00	253854.00	46.06	3.50	6.76	Predicted Extraction/Removal
MW-76S	4/13/2005	858930.00	253854.00	46.06	3.90	7.43	Predicted Extraction/Removal
MW-76S	4/19/2006	858930.00	253854.00	46.06	3.80	8.45	Predicted Extraction/Removal
MW-76S	4/23/2007	858930.00	253854.00	46.06	7.88	9.46	Predicted Extraction/Removal
MW-76S	4/24/2008	858930.00	253854.00	46.06	3.44	10.46	Predicted Extraction/Removal
MW-76S	4/29/2009	858930.00	253854.00	46.06	0.55	11.48	Predicted Extraction/Removal
MW-76S	4/8/2010	858930.00	253854.00	46.06	1.67	12.42	Predicted Extraction/Removal
MW-77 (61.41)	11/8/1999	858891.00	254005.80	61.41	0.25	2.00	Predicted Extraction/Removal
MW-77 (51.41)	11/8/1999	858891.00	254005.80	51.41	0.25	2.00	Predicted Extraction/Removal
MW-77 (41.41)	11/8/1999	858891.00	254005.80	41.41	0.25	2.00	Predicted Extraction/Removal
MW-77 (31.41)	11/9/1999	858891.00	254005.80	31.41	150.00	2.01	Predicted Extraction/Removal
MW-77 (21.41)	11/9/1999	858891.00	254005.80	21.41	110.00	2.01	Predicted Extraction/Removal
MW-77 (11.41)	11/9/1999	858891.00	254005.80	11.41	10.00	2.01	Predicted Extraction/Removal
MW-77 (1.41)	11/9/1999	858891.00	254005.80	1.41	5.40	2.01	Predicted Extraction/Removal
MW-77 (-8.59)	11/9/1999	858891.00	254005.80	-8.59	2.00	2.01	Predicted Extraction/Removal
MW-77 (-18.59)	11/9/1999	858891.00	254005.80	-18.59	0.42	2.01	Predicted Extraction/Removal
MW-77 (-28.59)	11/9/1999	858891.00	254005.80	-28.59	0.25	2.01	Predicted Extraction/Removal
MW-77 (-38.59)	11/9/1999	858891.00	254005.80	-38.59	0.25	2.01	Predicted Extraction/Removal
MW-77M1	1/24/2000	858891.00	254005.90	-33.59	0.25	2.21	Predicted Extraction/Removal
MW-77M1	5/2/2000	858891.00	254005.90	-33.59	0.25	2.48	Predicted Extraction/Removal
MW-77M1	8/1/2000	858891.00	254005.90	-33.59	0.25	2.73	Predicted Extraction/Removal
MW-77M1	12/7/2000	858891.00	254005.90	-33.59	0.25	3.08	Predicted Extraction/Removal
MW-77M1	5/11/2001	858891.00	254005.90	-33.59	0.25	3.51	Predicted Extraction/Removal
MW-77M1	8/13/2001	858891.00	254005.90	-33.59	0.25	3.77	Predicted Extraction/Removal
MW-77M1	4/24/2002	858891.00	254005.90	-33.59	0.25	4.46	Predicted Extraction/Removal

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-77M1	8/7/2002	858891.00	254005.90	-33.59	0.25	4.75	Predicted Extraction/Removal
MW-77M1	11/19/2002	858891.00	254005.90	-33.59	0.25	5.03	Predicted Extraction/Removal
MW-77M1	3/26/2003	858891.00	254005.90	-33.59	0.25	5.38	Predicted Extraction/Removal
MW-77M1	9/27/2003	858891.00	254005.90	-33.59	0.25	5.89	Predicted Extraction/Removal
MW-77M1	2/12/2004	858891.00	254005.90	-33.59	0.25	6.27	Predicted Extraction/Removal
MW-77M1	4/5/2004	858891.00	254005.90	-33.59	0.25	6.41	Predicted Extraction/Removal
MW-77M1	7/28/2004	858891.00	254005.90	-33.59	0.25	6.72	Predicted Extraction/Removal
MW-77M1	4/19/2005	858891.00	254005.90	-33.59	0.25	7.45	Predicted Extraction/Removal
MW-77M1	4/20/2006	858891.00	254005.90	-33.59	0.25	8.45	Predicted Extraction/Removal
MW-77M1	4/23/2007	858891.00	254005.90	-33.59	0.25	9.46	Predicted Extraction/Removal
MW-77M1	4/25/2008	858891.00	254005.90	-33.59	0.25	10.47	Predicted Extraction/Removal
MW-77M2	1/25/2000	858891.90	254006.90	26.41	150.00	2.22	Predicted Extraction/Removal
MW-77M2	5/2/2000	858891.90	254006.90	26.41	100.00	2.48	Predicted Extraction/Removal
MW-77M2	8/1/2000	858891.90	254006.90	26.41	97.00	2.73	Predicted Extraction/Removal
MW-77M2	12/7/2000	858891.90	254006.90	26.41	93.00	3.08	Predicted Extraction/Removal
MW-77M2	5/10/2001	858891.90	254006.90	26.41	39.00	3.51	Predicted Extraction/Removal
MW-77M2	8/10/2001	858891.90	254006.90	26.41	29.00	3.76	Predicted Extraction/Removal
MW-77M2	12/26/2001	858891.90	254006.90	26.41	26.00	4.14	Predicted Extraction/Removal
MW-77M2	4/24/2002	858891.90	254006.90	26.41	5.40	4.46	Predicted Extraction/Removal
MW-77M2	8/7/2002	858891.90	254006.90	26.41	5.00	4.75	Predicted Extraction/Removal
MW-77M2	11/19/2002	858891.90	254006.90	26.41	8.00	5.03	Predicted Extraction/Removal
MW-77M2	3/26/2003	858891.90	254006.90	26.41	10.00	5.38	Predicted Extraction/Removal
MW-77M2	9/27/2003	858891.90	254006.90	26.41	14.00	5.89	Predicted Extraction/Removal
MW-77M2	2/12/2004	858891.90	254006.90	26.41	12.00	6.27	Predicted Extraction/Removal
MW-77M2	4/5/2004	858891.90	254006.90	26.41	14.00	6.41	Predicted Extraction/Removal
MW-77M2	7/28/2004	858891.90	254006.90	26.41	11.00	6.72	Predicted Extraction/Removal
MW-77M2	4/20/2005	858891.90	254006.90	26.41	48.00	7.45	Predicted Extraction/Removal
MW-77M2	4/20/2006	858891.90	254006.90	26.41	94.00	8.45	Predicted Extraction/Removal
MW-77M2	4/23/2007	858891.90	254006.90	26.41	37.40	9.46	Predicted Extraction/Removal
MW-77M2	12/6/2007	858891.90	254006.90	26.41	54.80	10.08	Predicted Extraction/Removal
MW-77M2	4/25/2008	858891.90	254006.90	26.41	37.40	10.47	Predicted Extraction/Removal
MW-77M2	12/16/2008	858891.90	254006.90	26.41	11.90	11.11	Predicted Extraction/Removal
MW-77M2	4/21/2009	858891.90	254006.90	26.41	9.76	11.45	Predicted Extraction/Removal
MW-77S	1/24/2000	858891.90	254004.90	63.41	0.25	2.21	Predicted Extraction/Removal
MW-77S	5/2/2000	858891.90	254004.90	63.41	0.25	2.48	Predicted Extraction/Removal
MW-77S	8/1/2000	858891.90	254004.90	63.41	0.25	2.73	Predicted Extraction/Removal
MW-77S	12/7/2000	858891.90	254004.90	63.41	0.25	3.08	Predicted Extraction/Removal
MW-77S	5/10/2001	858891.90	254004.90	63.41	0.25	3.51	Predicted Extraction/Removal
MW-77S	8/24/2001	858891.90	254004.90	63.41	0.25	3.80	Predicted Extraction/Removal
MW-77S	12/26/2001	858891.90	254004.90	63.41	0.25	4.14	Predicted Extraction/Removal
MW-77S	5/29/2002	858891.90	254004.90	63.41	0.25	4.56	Predicted Extraction/Removal
MW-77S	8/7/2002	858891.90	254004.90	63.41	0.25	4.75	Predicted Extraction/Removal
MW-77S	9/27/2003	858891.90	254004.90	63.41	0.25	5.89	Predicted Extraction/Removal
MW-77S	2/12/2004	858891.90	254004.90	63.41	0.25	6.27	Predicted Extraction/Removal
MW-77S	4/5/2004	858891.90	254004.90	63.41	0.25	6.41	Predicted Extraction/Removal
MW-77S	7/28/2004	858891.90	254004.90	63.41	0.25	6.72	Predicted Extraction/Removal

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-77S	4/21/2005	858891.90	254004.90	63.41	0.25	7.45	Predicted Extraction/Removal
MW-77S	4/20/2006	858891.90	254004.90	63.41	0.25	8.45	Predicted Extraction/Removal
MW-77S	4/23/2007	858891.90	254004.90	63.41	0.25	9.46	Predicted Extraction/Removal
MW-77S	4/25/2008	858891.90	254004.90	63.41	0.25	10.47	Predicted Extraction/Removal
MW-77S	4/21/2009	858891.90	254004.90	63.41	0.25	11.45	Predicted Extraction/Removal
MW-77S	4/13/2010	858891.90	254004.90	63.41	0.25	12.43	Predicted Extraction/Removal
MW-78 (56.35)	1/5/2000	858983.90	253721.50	56.35	0.25	2.16	Predicted Extraction/Removal
MW-78 (51.35)	1/5/2000	858983.90	253721.50	51.35	0.25	2.16	Predicted Extraction/Removal
MW-78 (41.35)	1/5/2000	858983.90	253721.50	41.35	0.25	2.16	Predicted Extraction/Removal
MW-78 (31.35)	1/5/2000	858983.90	253721.50	31.35	0.25	2.16	Predicted Extraction/Removal
MW-78 (21.35)	1/5/2000	858983.90	253721.50	21.35	0.25	2.16	Predicted Extraction/Removal
MW-78 (11.35)	1/5/2000	858983.90	253721.50	11.35	0.25	2.16	Predicted Extraction/Removal
MW-78 (1.35)	1/5/2000	858983.90	253721.50	1.35	0.25	2.16	Predicted Extraction/Removal
MW-78 (-8.65)	1/5/2000	858983.90	253721.50	-8.65	0.25	2.16	Predicted Extraction/Removal
MW-78 (-18.65)	1/5/2000	858983.90	253721.50	-18.65	0.25	2.16	Predicted Extraction/Removal
MW-78 (-28.65)	1/5/2000	858983.90	253721.50	-28.65	0.25	2.16	Predicted Extraction/Removal
MW-78 (-38.65)	1/6/2000	858983.90	253721.50	-38.65	0.25	2.16	Predicted Extraction/Removal
MW-78M1	2/7/2000	858983.90	253722.50	6.35	0.25	2.25	Predicted Extraction/Removal
MW-78M1	5/8/2000	858983.90	253722.50	6.35	0.25	2.50	Predicted Extraction/Removal
MW-78M1	8/2/2000	858983.90	253722.50	6.35	0.25	2.74	Predicted Extraction/Removal
MW-78M1	5/10/2001	858983.90	253722.50	6.35	0.25	3.51	Predicted Extraction/Removal
MW-78M1	8/14/2001	858983.90	253722.50	6.35	0.25	3.77	Predicted Extraction/Removal
MW-78M1	12/27/2001	858983.90	253722.50	6.35	0.25	4.14	Predicted Extraction/Removal
MW-78M1	4/25/2002	858983.90	253722.50	6.35	0.25	4.46	Predicted Extraction/Removal
MW-78M1	8/20/2002	858983.90	253722.50	6.35	0.40	4.78	Predicted Extraction/Removal
MW-78M1	11/20/2002	858983.90	253722.50	6.35	0.35	5.04	Predicted Extraction/Removal
MW-78M1	3/26/2003	858983.90	253722.50	6.35	0.38	5.38	Predicted Extraction/Removal
MW-78M1	12/4/2003	858983.90	253722.50	6.35	0.25	6.07	Predicted Extraction/Removal
MW-78M1	2/23/2004	858983.90	253722.50	6.35	0.25	6.30	Predicted Extraction/Removal
MW-78M1	4/6/2004	858983.90	253722.50	6.35	0.25	6.41	Predicted Extraction/Removal
MW-78M1	8/11/2004	858983.90	253722.50	6.35	0.26	6.76	Predicted Extraction/Removal
MW-78M1	12/8/2004	858983.90	253722.50	6.35	0.56	7.09	Predicted Extraction/Removal
MW-78M1	6/23/2005	858983.90	253722.50	6.35	0.25	7.63	Predicted Extraction/Removal
MW-78M1	2/10/2006	858983.90	253722.50	6.35	0.25	8.26	Predicted Extraction/Removal
MW-78M1	4/19/2006	858983.90	253722.50	6.35	0.25	8.45	Predicted Extraction/Removal
MW-78M1	1/2/2007	858983.90	253722.50	6.35	0.25	9.15	Predicted Extraction/Removal
MW-78M1	4/20/2007	858983.90	253722.50	6.35	0.25	9.45	Predicted Extraction/Removal
MW-78M1	4/23/2008	858983.90	253722.50	6.35	0.25	10.46	Predicted Extraction/Removal
MW-78M1	4/28/2009	858983.90	253722.50	6.35	0.25	11.47	Predicted Extraction/Removal
MW-78M2	2/7/2000	858983.90	253720.50	26.19	0.25	2.25	Predicted Extraction/Removal
MW-78M2	5/9/2000	858983.90	253720.50	26.19	0.25	2.50	Predicted Extraction/Removal
MW-78M2	8/3/2000	858983.90	253720.50	26.19	0.25	2.74	Predicted Extraction/Removal
MW-78M2	5/10/2001	858983.90	253720.50	26.19	0.25	3.51	Predicted Extraction/Removal
MW-78M2	8/15/2001	858983.90	253720.50	26.19	0.48	3.77	Predicted Extraction/Removal
MW-78M2	12/28/2001	858983.90	253720.50	26.19	0.80	4.14	Predicted Extraction/Removal
MW-78M2	4/25/2002	858983.90	253720.50	26.19	0.38	4.46	Predicted Extraction/Removal

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Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-78M2	8/20/2002	858983.90	253720.50	26.19	0.65	4.78	Predicted Extraction/Removal
MW-78M2	11/20/2002	858983.90	253720.50	26.19	0.87	5.04	Predicted Extraction/Removal
MW-78M2	3/27/2003	858983.90	253720.50	26.19	0.96	5.38	Predicted Extraction/Removal
MW-78M2	12/4/2003	858983.90	253720.50	26.19	0.45	6.07	Predicted Extraction/Removal
MW-78M2	2/24/2004	858983.90	253720.50	26.19	0.94	6.30	Predicted Extraction/Removal
MW-78M2	4/6/2004	858983.90	253720.50	26.19	1.00	6.41	Predicted Extraction/Removal
MW-78M2	8/12/2004	858983.90	253720.50	26.19	1.00	6.76	Predicted Extraction/Removal
MW-78M2	12/8/2004	858983.90	253720.50	26.19	0.59	7.09	Predicted Extraction/Removal
MW-78M2	6/23/2005	858983.90	253720.50	26.19	0.98	7.63	Predicted Extraction/Removal
MW-78M2	2/8/2006	858983.90	253720.50	26.19	0.25	8.26	Predicted Extraction/Removal
MW-78M2	4/19/2006	858983.90	253720.50	26.19	0.25	8.45	Predicted Extraction/Removal
MW-78M2	1/2/2007	858983.90	253720.50	26.19	0.25	9.15	Predicted Extraction/Removal
MW-78M2	4/20/2007	858983.90	253720.50	26.19	0.25	9.45	Predicted Extraction/Removal
MW-78M2	4/24/2008	858983.90	253720.50	26.19	0.25	10.46	Predicted Extraction/Removal
MW-78M2	4/28/2009	858983.90	253720.50	26.19	0.25	11.47	Predicted Extraction/Removal
MW-78M3	2/7/2000	858984.90	253721.50	56.35	0.25	2.25	Predicted Extraction/Removal
MW-78M3	5/9/2000	858984.90	253721.50	56.35	0.25	2.50	Predicted Extraction/Removal
MW-78M3	8/2/2000	858984.90	253721.50	56.35	0.25	2.74	Predicted Extraction/Removal
MW-78M3	5/11/2001	858984.90	253721.50	56.35	0.25	3.51	Predicted Extraction/Removal
MW-78M3	8/15/2001	858984.90	253721.50	56.35	0.25	3.77	Predicted Extraction/Removal
MW-78M3	12/28/2001	858984.90	253721.50	56.35	0.25	4.14	Predicted Extraction/Removal
MW-78M3	4/25/2002	858984.90	253721.50	56.35	0.25	4.46	Predicted Extraction/Removal
MW-78M3	8/20/2002	858984.90	253721.50	56.35	0.25	4.78	Predicted Extraction/Removal
MW-78M3	11/20/2002	858984.90	253721.50	56.35	0.25	5.04	Predicted Extraction/Removal
MW-78M3	3/26/2003	858984.90	253721.50	56.35	0.25	5.38	Predicted Extraction/Removal
MW-78M3	12/4/2003	858984.90	253721.50	56.35	0.25	6.07	Predicted Extraction/Removal
MW-78M3	2/23/2004	858984.90	253721.50	56.35	0.25	6.30	Predicted Extraction/Removal
MW-78M3	4/6/2004	858984.90	253721.50	56.35	0.25	6.41	Predicted Extraction/Removal
MW-78M3	8/12/2004	858984.90	253721.50	56.35	0.25	6.76	Predicted Extraction/Removal
MW-78M3	4/20/2005	858984.90	253721.50	56.35	0.25	7.45	Predicted Extraction/Removal
MW-78M3	4/19/2006	858984.90	253721.50	56.35	0.25	8.45	Predicted Extraction/Removal
MW-78M3	4/20/2007	858984.90	253721.50	56.35	0.25	9.45	Predicted Extraction/Removal
BH-582 (-130.68)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
BH-583 (-134.10)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
BH-597 (-134.40)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
DP-554 (-132.55)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
DP-554 (-137.55)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
DP-556 (-138.62)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
DP-557 (-138.31)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-173 (-137.42)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-173 (-147.42)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-175 (-140.57)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-221 (-138.44)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-225 (-144.72)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-231 (-139.37)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-46 (-170.88)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain

Table 1
Demo 1 2013 RDX Plume Shell Measured and Migrated Locations

Location	Release Date	Easting (SP NAD 27) (feet)	Northing (SP NAD 27) (feet)	Elevation (feet msl)	RDX Concentration (µg/L)	Migration Duration (Years)	Status
MW-559 (-135.18)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-560 (-139.17)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-560 (-149.17)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-565 (-136.49)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-565 (-146.49)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-565 (-156.49)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-565 (-166.99)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-568 (-161.69)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-568 (-171.69)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-569 (-139.99)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-570 (-138.28)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-570 (-148.28)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-570 (-158.28)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-571 (-146.25)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-571 (-155.25)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-571 (-166.25)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain
MW-571 (-176.25)	N/A	N/A	N/A	N/A	N/A	N/A	Not Within Model Domain

Legend

Deleted = point not used to develop plume shell

Predicted Extracted/Removed = predicted to have been extracted/removed

Not Within Model Domain = outside of model domain and not simulated or below model bottom

D3

Summary of Alternatives Analysis

Alt #	Design Details			Estimated Year Perchlorate Concentrations Decrease Below 15 ug/L	Estimated Year Perchlorate Concentrations Decrease Below 6 ug/L	Estimated Year Perchlorate Concentrations Decrease Below 2 ug/L	Estimated Year Perchlorate Concentrations Decrease Below 0.35 ug/L	Perchlorate Mass Captured (Pounds)	Extraction Well ND Date	Estimated Year RDX Concentrations Decrease Below 6 ug/L	Estimated Year RDX Concentrations Decrease Below 2 ug/L	Estimated Year RDX Concentrations Decrease Below 0.6 ug/L	Estimated Year RDX Concentrations Decrease Below Non-Detect	RDX Mass Captured (Pounds)	Extraction Well ND Date
	Masximum Number of Extraction Wells	Extraction Well Location	Total Extraction Rate (gpm)												
1	6		**665**	2015.3	2016.3	2026.3	2059.3	6.43	2025.3	2015.3	2018.3	2022.3	2025.3	2.06	2015.3
		D1-EW-1	150												
		D1-EW-501	150												
		D1-EW-502	100												
		D1-EW-503	100												
		D1-EW-2	100												
		D1-EW-3	65												
2	6		**565**	2015.3	2016.3	2026.3	2059.3	6.37	2025.3	2015.3	2018.3	2022.3	2025.3	2.06	2015.3
		D1-EW-1	150												
		D1-EW-501	150												
		D1-EW-502	100												
		D1-EW-503	100**/0**												
		D1-EW-2	100												
		D1-EW-3	65												
3	7		**765**	2015.3	2016.3	2021.3	2055.3	7.99	2025.3	2015.3	2018.3	2022.3	2025.3	2.24	2015.3
		D1-EW-1	150												
		D1-EW-501	150												
		D1-EW-502	100												
		D1-EW-503	100												
		D1-EW-2	100												
		D1-EW-3	65												
		Off-Base # 1	100												
4	8		**865**	2015.3	2016.3	2021.3	2046.3	10.55	2025.3	2015.3	2018.3	2022.3	2025.3	2.42	2015.3
		D1-EW-1	150												
		D1-EW-501	150												
		D1-EW-502	100												
		D1-EW-503	100												
		D1-EW-2	100												
		D1-EW-3	65												
		Off-Base # 1	100												
		Off-Base # 2	100												
5	9		**945**	2015.3	2016.3	2021.3	2045.3	11.55	2024.3	2015.3	2018.3	2022.3	2025.30	2.52	2016.3
		D1-EW-1	150												
		D1-EW-501	150												
		D1-EW-502	100												
		D1-EW-503	100												
		D1-EW-2	100												
		D1-EW-3	65												
		On-Base # 1	80												
		Off-Base # 1	100												
		Off-Base # 2	100												

Alt #	Design Details															
	Masximum Number of Extraction Wells	Extraction Well Location	Total Extraction Rate (gpm)	Estimated Year Perchlorate Concentrations Decrease Below 15 ug/L	Estimated Year Perchlorate Concentrations Decrease Below 6 ug/L	Estimated Year Perchlorate Concentrations Decrease Below 2 ug/L	Estimated Year Perchlorate Concentrations Decrease Below 0.35 ug/L	Perchlorate Mass Captured (Pounds)	Extraction Well ND Date	Estimated Year RDX Concentrations Decrease Below 6 ug/L	Estimated Year RDX Concentrations Decrease Below 2 ug/L	Estimated Year RDX Concentrations Decrease Below 0.6 ug/L	Estimated Year RDX Concentrations Decrease Below Non-Detect	RDX Mass Captured (Pounds)	Extraction Well ND Date
6A	7		**640**	2015.3	2016.3	2026.3	2059.3	6.37	2025.3	2015.3	2017.3	2020.3	2021.3	2.13	2018.3
		D1-EW-1	150												
		D1-EW-501	150												
		D1-EW-502	100												
		D1-EW-503	100 / **0**												
		D1-EW-2	100												
		D1-EW-3	65												
		On-Base # 2	75												
7	17		**1595**	2015.3	2016.3	<2017.3	2032.3	11.92	2022.3	2015.3	2016.3	<2017.3	2019.30	2.57	2017.3
10 - Year		D1-EW-1	150												
		D1-EW-501	150												
		D1-EW-502	100												
		D1-EW-503	100 / **0**												
		D1-EW-2	100												
		D1-EW-3	65/**110**												
		On-Base # 1	80												
		On-Base # 2	80												
		On-Base # 3	100												
		On-Base # 4	75												
		On-Base # 5	75												
		On-Base # 6	75												
		Off-Base # 1	100												
		Off-Base # 2	100												
		Off-Base # 3	100												
		Off-Base # 4	100												
		Off-Base # 5	100												

Notes

1. Cleanup timeframes based on contaminant transport modeling animations according to site achieving concentrations below: 2 ppb for Perchlorate; 0.6 ppb for RDX
2. Contaminant transport modeling for analysis assumes plumes transport start date of 31 March 2013.
3. Extraction well shut off year corresponds to first year when extraction well influent concentration decreases below the reporting limit of 0.2 ug/L for perchlorate and RDX.

D4

Perchlorate and RDX Animations (Compact Disk)

TABLE 1
Demo-1 Groundwater Alternative 1
Cost Basis

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL	SUBTOTAL	COMMENTS	ASSUMPTIONS
ANNUAL COSTS - OPERATIONS AND MAINTENANCE							
Demo-1 Treatment System	1	YR	$ 450,000	$ 450,000		2012 annual costs for Demo-1 systems	
TOTAL					$ 450,000		
TOTAL ESCALATED					$ 472,500	Escalated from 2012	initial year is 2014
CAPITAL COSTS - MONITORING WELL CONSTRUCTION COSTS							
Property Access Support (ROA)	1	LS	$ 13,000	$ 13,000		Includes NHESP fee.	
Site Prep/UXO Support/Restoration-Well Area	3	WELL	$ 50,000	$ 150,000		Per well cluster.	
Drilling Subcontractor Mobilization	1	LS	$ 8,500	$ 8,500			
LTM Well Drilling	3	EA	$ 87,000	$ 261,000		Includes all labor, subcontractor cost and materials for well drilling, screen installation, development, and pump installation. Also includes analytical.	One well cluster will include two screens.
IDM	3	LS	$ 5,000	$ 15,000			
Surveying	1	LS	$ 5,000	$ 5,000			
SUBTOTAL					$ 452,500		
Overhead & Support	1	LS		$ 45,250		10% of costs	
TOTAL					$ 497,750		
CAPITAL COSTS - EXTRACTION WELL CONSTRUCTION COSTS							
Property Access Support (ROA)	0	LS	$ 17,500	$ -		Includes NHESP fee.	Not applicable.
Site Prep/UXO Support/Restoration-Well Area	0	WELL	$ 67,000	$ -		Per well cluster.	Not applicable.
Drilling Subcontractor Mobilization	0	LS	$ 11,500	$ -		Includes procuring subcontractor.	Not applicable.
Extraction Well Drilling & Installation	0	EA	$ 268,000	$ -		Includes all labor, subcontractor cost and materials for well drilling, screen installation, development, and pump installation. Also includes analytical.	Not applicable.
IDM	0	LS	$ 7,500	$ -			Not applicable.
EW Pump, Motor & Assoc. Materials	0	LS	$ 29,500	$ -			Not applicable.
Pitless Adapter	0	LS	$ 6,700	$ -			Not applicable.
Surveying	0	LS	$ 6,500	$ -			Not applicable.
SUBTOTAL					$ -		
Overhead & Support	0	LS		$ -		10% of costs	
TOTAL					$ -		
ANNUAL COSTS - ANNUAL GROUNDWATER MONITORING							
Monitoring and Reporting	1	LS	$ 148,500	$ 148,500			Annual cost decreases by 10% every 2 years assuming fewer wells are monitored as plume footprint diminishes.
Overhead & Support	1	LS		$ 14,850		10% of costs	
TOTAL					$ 163,350		

TABLE 1
Demo-1 Groundwater Alternative 1
Cost Basis

CAPITAL COSTS - WELL ABANDONMENT							
System Decommissioning	1	LS	$ 175,000	$ 175,000		For the buildings	
EW Abandonment	6	WL	$ 18,500	$ 111,000			
MW Cluster Abandonment	1	LS	$ 70,000	$ 70,000			
SUBTOTAL					$ 356,000		
Overhead & Support	1	LS		$ 35,600		10% of costs	
TOTAL					$ 391,600		
DIRECT COSTS - SITE CLOSEOUT REPORT							
Report	1	LS	$ 80,000	$ 80,000			
Overhead & Support				$ 8,000		10% of costs	
TOTAL					$ 88,000		

TABLE 2
Demo-1 Groundwater Alternative 1
Present Value Calculation

Year	Existing System Construction and System and Well Abandonment Costs	Monitoring Costs	O&M Costs	Site Closeout Report	Total Cost (0% Discount)	Discount Factor (for 0.8%)	Total Present Value Cost at 0.8%	Calendar Year
0	$ 497,750	$ 163,350	$ 472,500	$ -	$ 1,133,600	1.0000	$ 1,133,600	2014
1	$ -	$ 163,350	$ 472,500	$ -	$ 635,850	0.9921	$ 630,804	2015
2	$ -	$ 147,015	$ 472,500	$ -	$ 619,515	0.9842	$ 609,720	2016
3	$ -	$ 147,015	$ 472,500	$ -	$ 619,515	0.9764	$ 604,881	2017
4	$ -	$ 132,314	$ 472,500	$ -	$ 604,814	0.9686	$ 585,840	2018
5	$ -	$ 132,314	$ 472,500	$ -	$ 604,814	0.9609	$ 581,191	2019
6	$ -	$ 119,082	$ 472,500	$ -	$ 591,582	0.9533	$ 563,965	2020
7	$ -	$ 119,082	$ 472,500	$ -	$ 591,582	0.9457	$ 559,489	2021
8	$ -	$ 107,174	$ 472,500	$ -	$ 579,674	0.9382	$ 543,876	2022
9	$ -	$ 107,174	$ 472,500	$ -	$ 579,674	0.9308	$ 539,559	2023
10	$ -	$ 96,457	$ 472,500	$ -	$ 568,957	0.9234	$ 525,380	2024
11	$ -	$ 96,457	$ 472,500	$ -	$ 568,957	0.9161	$ 521,211	2025
12	$ -	$ 86,811	$ 472,500	$ -	$ 559,311	0.9088	$ 508,308	2026
13	$ -	$ 86,811	$ 472,500	$ -	$ 559,311	0.9016	$ 504,274	2027
14	$ -	$ 78,130	$ -	$ -	$ 78,130	0.8944	$ 69,883	2028
15	$ 391,600	$ 78,130	$ -	$ 88,000	$ 557,730	0.8873	$ 494,898	2029
TOTAL	$ 889,350	$ 1,860,664	$ 6,615,000	$ 88,000	$ 9,453,014		$ 8,976,878	

TABLE 3
Demo-1 Groundwater Alternative 2
Cost Basis

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL	SUBTOTAL	COMMENTS	ASSUMPTIONS
ANNUAL COSTS - OPERATIONS AND MAINTENANCE							
Demo-1 Treatment System	1	YR	$ 390,000	$ 390,000		2012 annual costs for Demo-1 systems	
TOTAL					$ 390,000		
TOTAL ESCALATED					$ 429,975	Escalated from 2012	initial year is 2014
CAPITAL COSTS - MONITORING WELL CONSTRUCTION COSTS							
Property Access Support (ROA)	1	LS	$ 13,000	$ 13,000		Includes NHESP fee.	
Site Prep/UXO Support/Restoration-Well Area	3	WELL	$ 50,000	$ 150,000		Per well cluster.	
Drilling Subcontractor Mobilization	1	LS	$ 8,500	$ 8,500			
LTM Well Drilling	3	EA	$ 87,000	$ 261,000		Includes all labor, subcontractor cost and materials for well drilling, screen installation, development, and pump installation. Also includes analytical.	One well cluster will include two screens.
IDM	3	LS	$ 5,000	$ 15,000			
Surveying	1	LS	$ 5,000	$ 5,000			
SUBTOTAL					$ 452,500		
Overhead & Support	1	LS		$ 45,250		10% of costs	
TOTAL					$ 497,750		
CAPITAL COSTS - EXTRACTION WELL CONSTRUCTION COSTS							
Property Access Support (ROA)	0	LS	$ 17,500	$ -		Includes NHESP fee.	Not applicable.
Site Prep/UXO Support/Restoration-Well Area	0	WELL	$ 67,000	$ -		Per well cluster.	Not applicable.
Drilling Subcontractor Mobilization	0	LS	$ 11,500	$ -		Includes subcontractor procurement.	Not applicable.
Extraction Well Drilling & Installation	0	EA	$ 268,000	$ -		Includes all labor, subcontractor cost and materials for well drilling, screen installation, development, and pump installation. Also includes analytical.	Not applicable.
IDM	0	LS	$ 7,500	$ -			Not applicable.
EW Pump, Motor & Assoc. Materials	0	LS	$ 29,500	$ -			Not applicable.
Pitless Adapter	0	LS	$ 6,700	$ -			Not applicable.
Surveying	0	LS	$ 6,500	$ -			Not applicable.
SUBTOTAL					$ -		
Overhead & Support	0	LS		$ -		10% of costs	
TOTAL					$ -		
ANNUAL COSTS - ANNUAL GROUNDWATER MONITORING							
Monitoring and Reporting	1	LS	$ 148,500	$ 148,500			Annual cost decreases by 10% every 2 years assuming fewer wells are monitored as plume footprint diminishes.
Overhead & Support	1	LS		$ 14,850		10% of costs	
TOTAL					$ 163,350		

TABLE 3
Demo-1 Groundwater Alternative 2
Cost Basis

CAPITAL COSTS - WELL ABANDONMENT							
System Decommissioning	1	LS	$ 175,000	$ 175,000		For the buildings	
EW Abandonment	6	WL	$ 18,500	$ 111,000			
MW Cluster Abandonment	1	LS	$ 70,000	$ 70,000			
SUBTOTAL					$ 356,000		
Overhead & Support	1	LS		$ 35,600		10% of costs	
TOTAL					$ 391,600		
DIRECT COSTS - SITE CLOSEOUT REPORT							
Report	1	LS	$ 80,000	$ 80,000			
Overhead & Support				$ 8,000		10% of costs	
TOTAL					$ 88,000		

TABLE 4
Demo-1 Groundwater Alternative 2
Present Value Calculation

Year	Existing System Construction and System and Well Abandonment Costs	Monitoring Costs	O&M Costs	Site Closeout Report	Total Cost (0% Discount)	Discount Factor (for 0.8%)	Total Present Value Cost at 0.8%	Calendar Year
0	$ 497,750	$ 163,350	$ 429,975	$ -	$ 1,091,075	1.0000	$ 1,091,075	2014
1	$ -	$ 163,350	$ 429,975	$ -	$ 593,325	0.9921	$ 588,616	2015
2	$ -	$ 147,015	$ 429,975	$ -	$ 576,990	0.9842	$ 567,868	2016
3	$ -	$ 147,015	$ 429,975	$ -	$ 576,990	0.9764	$ 563,361	2017
4	$ -	$ 132,314	$ 429,975	$ -	$ 562,289	0.9686	$ 544,649	2018
5	$ -	$ 132,314	$ 429,975	$ -	$ 562,289	0.9609	$ 540,327	2019
6	$ -	$ 119,082	$ 429,975	$ -	$ 549,057	0.9533	$ 523,425	2020
7	$ -	$ 119,082	$ 429,975	$ -	$ 549,057	0.9457	$ 519,271	2021
8	$ -	$ 107,174	$ 429,975	$ -	$ 537,149	0.9382	$ 503,977	2022
9	$ -	$ 107,174	$ 429,975	$ -	$ 537,149	0.9308	$ 499,977	2023
10	$ -	$ 96,457	$ 429,975	$ -	$ 526,432	0.9234	$ 486,112	2024
11	$ -	$ 96,457	$ 429,975	$ -	$ 526,432	0.9161	$ 482,254	2025
12	$ -	$ 86,811	$ 429,975	$ -	$ 516,786	0.9088	$ 469,661	2026
13	$ -	$ 86,811	$ 429,975	$ -	$ 516,786	0.9016	$ 465,933	2027
14	$ -	$ 78,130	$ -	$ -	$ 78,130	0.8944	$ 69,883	2028
15	$ 391,600	$ 78,130	$ -	$ 88,000	$ 557,730	0.8873	$ 494,898	2029
TOTAL	$ 889,350	$ 1,860,664	$ 6,019,650	$ 88,000	$ 8,857,664		$ 8,411,287	

TABLE 5
Demo-1 Groundwater Alternative 3
Cost Basis

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL	SUBTOTAL	COMMENTS	ASSUMPTIONS
CAPITAL COSTS - TREATMENT SYSTEM DESIGN, CONSTRUCTION, AND STARTUP COSTS							
Mobilization							
Property Access Support (ROA)	1	LS	$ 17,500	$ 17,500		Includes NHESP fee.	
Chemical and Hydraulic Study	1	LS	$185,000	$ 185,000		Necessary because the new EW may be sited where there is insufficient existing data. Includes site prep, drilling and oversight, data collection, analysis, data management, and interpretation of physical and chemical samples.	
Engineering							
EW Design	1	LS	$80,000	$ 80,000		Wellfield modeling; pump design.	
System Engineering Design	1	LS	$95,000	$ 95,000		Includes engineering design for the treatment system, pipeline, site engineering, and startup engineering.	
ETI Wellfield Construction							
Site Prep/Restoration-Well Area	1	WL	$ 67,000	$ 67,000			
EW Driller Mobilization	1	LS	$ 11,500	$ 11,500		Includes subcontractor procurement.	
EW Drilling & Installation	1	EA	$ 268,000	$ 268,000		Includes all labor, subcontractor cost and materials for well drilling, screen installation, development, and pump installation. Also includes analytical.	
IDM	1	LS	$ 7,500	$ 7,500			
EW Pump, Motor & Assoc. Materials	1	WL	$ 29,500	$ 29,500		Includes installation.	Maximum design flow will be 125 gpm.
Pit Less Adapter	1	WL	$ 6,700	$ 6,700		Includes installation and mechanical work.	
Surveying	1	LS	$ 6,500	$ 6,500			
Piping	1,875	LF	$ 85	$ 159,375		Includes trenching and restoration with limited paving.	
Power, Electric, Communications	1,875	LF	$ 75	$ 140,625			
125 gpm Stand-Alone Treatment System	1	LS	$ 250,000	$ 250,000		Includes all equipment, materials, labor, subcontracts, overhead, fee, etc.	
Infiltration Trenches	1	EA	$ 75,000	$ 75,000		Includes UXO clearance.	
SUBTOTAL					$ 1,399,200		
Overhead & Support	1	LS		$ 139,920		10% of costs	
TOTAL					$ 1,539,120		
CAPITAL COSTS - BASELINE HYDRAULIC MONITORING							
Baseline Performance and Environmental Sampling							
New EWs	1	LS	$ 13,500	$ 13,500			Hydraulic measurements only.
Baseline Report	1	LS	$ 13,500	$ 13,500		Incremental cost for incorporating additional data into previously-scoped annual report for Demo-1.	Assume separate report not required. Data will be rolled into previously-scoped annual report.
Overhead & Support	1	LS		$ 2,700		10% of costs	
TOTAL					$ 29,700		

TABLE 5
Demo-1 Groundwater Alternative 3
Cost Basis

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL	SUBTOTAL	COMMENTS	ASSUMPTIONS
ANNUAL COSTS - OPERATIONS AND MAINTENANCE							
Treatment System	1	YR	$ 500,000	$ 500,000			
TOTAL					$ 500,000		
TOTAL ESCALATED					$ 551,250	Escalated from 2012	initial year is 2014
ANNUAL COSTS - ANNUAL GROUNDWATER MONITORING							
Monitoring and Reporting	1	LS	$ 148,500	$ 148,500			Annual cost decreases by 10% every 2 years assuming fewer wells are monitored as plume footprint diminishes.
Overhead & Support	1	LS		$ 14,850		10% of costs	
TOTAL					$ 163,350		
CAPITAL COSTS - WELL ABANDONMENT							
System Decommissioning	1	LS	$ 200,000	$ 200,000		For the buildings	
EW Abandonment	7	WL	$ 18,500	$ 129,500			
MW Cluster Abandonment	1	LS	$ 70,000	$ 70,000			
SUBTOTAL					$ 399,500		
Overhead & Support	1	LS		$ 39,950		10% of costs	
TOTAL					$ 439,450		
DIRECT COSTS - SITE CLOSEOUT REPORT							
Report	1	LS	$ 80,000	$ 80,000			
Overhead & Support				$ 8,000		10% of costs	
TOTAL					$ 88,000		

TABLE 6
Demo-1 Groundwater Alternative 3
Present Value Calculation

Year	Existing System and New Treatment System Design and Construction, System and Well Abandonment Costs	Baseline Monitoring Costs	Monitoring Costs	O&M Costs	Site Closeout Report	Total Cost (0% Discount)	Discount Factor (for 0.8%)	Total Present Value Cost at 0.8%	Calendar Year
0	$ 1,539,120	$ -	$ 163,350	$ 551,250	$ -	$ 2,253,720	1.0000	$ 2,253,720	2014
1	$ -	$ 29,700	$ 163,350	$ 551,250	$ -	$ 744,300	0.9921	$ 738,393	2015
2	$ -	$ -	$ 147,015	$ 551,250	$ -	$ 698,265	0.9842	$ 687,225	2016
3	$ -	$ -	$ 147,015	$ 551,250	$ -	$ 698,265	0.9764	$ 681,771	2017
4	$ -	$ -	$ 132,314	$ 551,250	$ -	$ 683,564	0.9686	$ 662,120	2018
5	$ -	$ -	$ 132,314	$ 551,250	$ -	$ 683,564	0.9609	$ 656,865	2019
6	$ -	$ -	$ 119,082	$ 551,250	$ -	$ 670,332	0.9533	$ 639,038	2020
7	$ -	$ -	$ 119,082	$ 551,250	$ -	$ 670,332	0.9457	$ 633,967	2021
8	$ -	$ -	$ 107,174	$ 551,250	$ -	$ 658,424	0.9382	$ 617,762	2022
9	$ -	$ -	$ 107,174	$ -	$ -	$ 107,174	0.9308	$ 99,757	2023
10	$ 439,450	$ -	$ 96,457	$ -	$ 88,000	$ 623,907	0.9234	$ 576,122	2024
TOTAL	$ 1,978,570	$ 29,700	$ 1,434,326	$ 4,961,250	$ 88,000	$ 8,491,846		$ 8,246,741	

TABLE 7
Demo-1 Groundwater Alternative 4
Cost Basis

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL	SUBTOTAL	COMMENTS	ASSUMPTIONS
CAPITAL COSTS - TREATMENT SYSTEM DESIGN, CONSTRUCTION, AND STARTUP COSTS							
Mobilization							
Property Access Support (ROA)	2	LS	$ 17,500	$ 35,000		Includes NHESP fee.	
Chemical and Hydraulic Study	2	LS	$185,000	$ 370,000		Necessary because the new EW may be sited where there is insufficient existing data. Includes site prep, drilling and oversight, data collection, analysis, data management, and interpretation of physical and chemical samples.	
Engineering							
EW Design	2	LS	$80,000	$ 160,000		Wellfield modeling; pump design.	
System Engineering Design	2	LS	$95,000	$ 190,000		Includes engineering design for the treatment system, pipeline, site engineering, and startup engineering.	
ETI Wellfield Construction							
Site Prep/Restoration-Well Area	2	WL	$ 67,000	$ 134,000			
EW Driller Mobilization	1	LS	$ 11,500	$ 11,500		Includes subcontractor procurement.	
EW Drilling & Installation	2	EA	$ 268,000	$ 536,000		Includes all labor, subcontractor cost and materials for well drilling, screen installation, development, and pump installation. Also includes analytical.	
IDM	2	LS	$ 7,500	$ 15,000			
EW Pump, Motor & Assoc. Materials	2	WL	$ 29,500	$ 59,000		Includes installation.	Maximum design flow will be 125 gpm.
Pit Less Adapter	2	WL	$ 6,700	$ 13,400		Includes installation and mechanical work.	
Surveying	2	LS	$ 6,500	$ 13,000			
Piping	2,375	LF	$ 85	$ 201,875		Includes trenching and restoration with limited paving.	
Power, Electric, Communications	2,375	LF	$ 75	$ 178,125			
125 gpm Stand-Alone Treatment System	2	LS	$ 250,000	$ 500,000		Includes all equipment, materials, labor, subcontracts, overhead, fee, etc.	
Infiltration Trenches	2	EA	$ 75,000	$ 150,000			
SUBTOTAL					$ 2,566,900		
Overhead & Support	1	LS		$ 256,690		10% of costs	
TOTAL					$ 2,823,590		
CAPITAL COSTS - BASELINE HYDRAULIC MONITORING							
Baseline Performance and Environmental Sampling							
New EWs	2	LS	$ 13,500	$ 27,000			Hydraulic measurements only.
Baseline Report	2	LS	$ 13,500	$ 27,000		Incremental cost for incorporating additional data into previously-scoped annual report for Demo-1.	Assume separate report not required. Data will be rolled into previously-scoped annual report.
Overhead & Support	1	LS		$ 5,400		10% of costs	
TOTAL					$ 59,400		

TABLE 7
Demo-1 Groundwater Alternative 4
Cost Basis

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL	SUBTOTAL	COMMENTS	ASSUMPTIONS
ANNUAL COSTS - OPERATIONS AND MAINTENANCE							
Treatment System	1	YR	$ 550,000	$ 550,000			
TOTAL					$ 550,000		
TOTAL					$ 606,375	Escalated from 2012	initial year is 2014
ANNUAL COSTS - ANNUAL GROUNDWATER MONITORING							
Monitoring and Reporting	1	LS	$ 148,500	$ 148,500			Annual cost decreases by 10% every 2 years assuming fewer wells are monitored as plume footprint diminishes.
Overhead & Support	1	LS		$ 14,850		10% of costs	
TOTAL					$ 163,350		
CAPITAL COSTS - WELL ABANDONMENT							
System Decommissioning	1	LS	$ 225,000	$ 225,000		For the buildings	
EW Abandonment	8	WL	$ 18,500	$ 148,000			
MW Cluster Abandonment	1	LS	$ 70,000	$ 70,000			
SUBTOTAL					$ 443,000		
Overhead & Support	1	LS		$ 44,300		10% of costs	
TOTAL					$ 487,300		
DIRECT COSTS - SITE CLOSEOUT REPORT							
Report	1	LS	$ 80,000	$ 80,000			
Overhead & Support				$ 8,000		10% of costs	
TOTAL					$ 88,000		

TABLE 8
Demo-1 Groundwater Alternative 4
Present Value Calculation

Year	Existing System and New Treatment System Design and Construction, System and Well Abandonment Costs	Baseline Monitoring Costs	Monitoring Costs	O&M Costs	Site Closeout Report	Total Cost (0% Discount)	Discount Factor (for 0.8%)	Total Present Value Cost at 0.8%	Calendar Year
0	$ 2,823,590	$ -	$ 163,350	$ 606,375	$ -	$ 3,593,315	1.0000	$ 3,593,315	2014
1	$ -	$ 59,400	$ 163,350	$ 606,375	$ -	$ 829,125	0.9921	$ 822,545	2015
2	$ -	$ -	$ 147,015	$ 606,375	$ -	$ 753,390	0.9842	$ 741,479	2016
3	$ -	$ -	$ 147,015	$ 606,375	$ -	$ 753,390	0.9764	$ 735,594	2017
4	$ -	$ -	$ 132,314	$ 606,375	$ -	$ 738,689	0.9686	$ 715,516	2018
5	$ -	$ -	$ 132,314	$ 606,375	$ -	$ 738,689	0.9609	$ 709,837	2019
6	$ -	$ -	$ 119,082	$ 606,375	$ -	$ 725,457	0.9533	$ 691,590	2020
7	$ -	$ -	$ 119,082	$ 606,375	$ -	$ 725,457	0.9457	$ 686,101	2021
8	$ -	$ -	$ 107,174	$ 606,375	$ -	$ 713,549	0.9382	$ 669,483	2022
9	$ -	$ -	$ 107,174	$ -	$ -	$ 107,174	0.9308	$ 99,757	2023
10	$ 487,300	$ -	$ 96,457	$ -	$ 88,000	$ 671,757	0.9234	$ 620,307	2024
TOTAL	$ 3,310,890	$ 59,400	$ 1,434,326	$ 5,457,375	$ 88,000	$ 10,349,991		$ 10,085,523	

TABLE 9
Demo-1 Groundwater Alternative 5
Cost Basis

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL	SUBTOTAL	COMMENTS	ASSUMPTIONS
CAPITAL COSTS - TREATMENT SYSTEM DESIGN, CONSTRUCTION, AND STARTUP COSTS							
Mobilization							
Property Access Support (ROA)	3	LS	$ 17,500	$ 52,500		Includes NHESP fee.	
Chemical and Hydraulic Study	3	LS	$185,000	$ 555,000		Necessary because the new EW may be sited where there is insufficient existing data. Includes site prep, drilling and oversight, data collection, analysis, data management, and interpretation of physical and chemical samples.	
Engineering							
EW Design	3	LS	$80,000	$ 240,000		Wellfield modeling; pump design.	
System Engineering Design	3	LS	$95,000	$ 285,000		Includes engineering design for the treatment system, pipeline, site engineering, and startup engineering.	
ETI Wellfield Construction							
Site Prep/Restoration-Well Area	3	WL	$ 67,000	$ 201,000			
EW Driller Mobilization	1	LS	$ 11,500	$ 11,500		Includes subcontractor procurement.	
EW Drilling & Installation	3	EA	$ 268,000	$ 804,000		Includes all labor, subcontractor cost and materials for well drilling, screen installation, development, and pump installation. Also includes analytical.	
IDM	3	LS	$ 7,500	$ 22,500			
EW Pump, Motor & Assoc. Materials	3	WL	$ 29,500	$ 88,500		Includes installation.	Maximum design flow will be 125 gpm.
Pit Less Adapter	3	WL	$ 6,700	$ 20,100		Includes installation and mechanical work.	
Surveying	3	LS	$ 6,500	$ 19,500			
Piping	3,875	LF	$ 85	$ 329,375		Includes trenching and restoration with limited paving.	
Power, Electric, Communications	3,875	LF	$ 75	$ 290,625			
125 gpm Stand-Alone Treatment System	3	LS	$ 250,000	$ 750,000		Includes all equipment, materials, labor, subcontracts, overhead, fee, etc.	
Infiltration Trenches	3	EA	$ 75,000	$ 225,000			
SUBTOTAL					$ 3,894,600		
Overhead & Support	1	LS		$ 389,460		10% of costs	
TOTAL					$ 4,284,060		
CAPITAL COSTS - BASELINE HYDRAULIC MONITORING							
Baseline Performance and Environmental Sampling							
New EWs	3	LS	$ 13,500	$ 40,500			Hydraulic measurements only.
Baseline Report	3	LS	$ 13,500	$ 40,500		Incremental cost for incorporating additional data into previously-scoped annual report for Demo-1.	Assume separate report not required. Data will be rolled into previously-scoped annual report.
Overhead & Support	1	LS		$ 8,100		10% of costs	
TOTAL					$ 89,100		

TABLE 9
Demo-1 Groundwater Alternative 5
Cost Basis

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL	SUBTOTAL	COMMENTS	ASSUMPTIONS
ANNUAL COSTS - OPERATIONS AND MAINTENANCE							
Treatment System	1	YR	$ 600,000	$ 600,000			
TOTAL					$ 600,000		
TOTAL					$ 661,500	Escalated from 2012	initial year is 2014
ANNUAL COSTS - ANNUAL GROUNDWATER MONITORING							
Monitoring and Reporting	1	LS	$ 148,500	$ 148,500			Annual cost decreases by 10% every 2 years assuming fewer wells are monitored as plume footprint diminishes.
Overhead & Support	1	LS		$ 14,850		10% of costs	
TOTAL					$ 163,350		
CAPITAL COSTS - WELL ABANDONMENT							
System Decommissioning	1	LS	$ 250,000	$ 250,000		For the buildings	
EW Abandonment	9	WL	$ 18,500	$ 166,500			
MW Cluster Abandonment	1	LS	$ 70,000	$ 70,000			
SUBTOTAL					$ 486,500		
Overhead & Support	1	LS		$ 48,650		10% of costs	
TOTAL					$ 535,150		
DIRECT COSTS - SITE CLOSEOUT REPORT							
Report	1	LS	$ 80,000	$ 80,000			
Overhead & Support				$ 8,000		10% of costs	
TOTAL					$ 88,000		

TABLE 10
Demo-1 Groundwater Alternative 5
Present Value Calculation

Year	Existing System and New Treatment System Design and Construction, System and Well Abandonment Costs	Baseline Monitoring Costs	Monitoring Costs	O&M Costs	Site Closeout Report	Total Cost (0% Discount)	Discount Factor (for 0.8%)	Total Present Value Cost at 0.8%	Calendar Year
0	$ 4,284,060	$ -	$ 163,350	$ 661,500	$ -	$ 5,108,910	1.0000	$ 5,108,910	2014
1	$ -	$ 89,100	$ 163,350	$ 661,500	$ -	$ 913,950	0.9921	$ 906,696	2015
2	$ -	$ -	$ 147,015	$ 661,500	$ -	$ 808,515	0.9842	$ 795,732	2016
3	$ -	$ -	$ 147,015	$ 661,500	$ -	$ 808,515	0.9764	$ 789,417	2017
4	$ -	$ -	$ 132,314	$ 661,500	$ -	$ 793,814	0.9686	$ 768,911	2018
5	$ -	$ -	$ 132,314	$ 661,500	$ -	$ 793,814	0.9609	$ 762,809	2019
6	$ -	$ -	$ 119,082	$ 661,500	$ -	$ 780,582	0.9533	$ 744,141	2020
7	$ -	$ -	$ 119,082	$ 661,500	$ -	$ 780,582	0.9457	$ 738,235	2021
8	$ -	$ -	$ 107,174	$ 661,500	$ -	$ 768,674	0.9382	$ 721,204	2022
9	$ -	$ -	$ 107,174	$ -	$ -	$ 107,174	0.9308	$ 99,757	2023
10	$ 535,150	$ -	$ 96,457	$ -	$ 88,000	$ 719,607	0.9234	$ 664,492	2024
TOTAL	$ 4,819,210	$ 89,100	$ 1,434,326	$ 5,953,500	$ 88,000	$ 12,384,136		$ 12,100,306	

TABLE 11
Demo-1 Groundwater Alternative 6A
Cost Basis

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL	SUBTOTAL	COMMENTS	ASSUMPTIONS
CAPITAL COSTS - TREATMENT SYSTEM DESIGN, CONSTRUCTION, AND STARTUP COSTS							
Mobilization							
Property Access Support (ROA)	1	LS	$ 17,500	$ 17,500		Includes NHESP fee.	
Chemical and Hydraulic Study	1	LS	$185,000	$ 185,000		Necessary because the new EW may be sited where there is insufficient existing data. Includes site prep, drilling and oversight, data collection, analysis, data management, and interpretation of physical and chemical samples.	
Engineering							
EW Design	1	LS	$80,000	$ 80,000		Wellfield modeling; pump design.	
System Engineering Design	1	LS	$95,000	$ 95,000		Includes engineering design for the treatment system, pipeline, site engineering, and startup engineering.	
ETI Wellfield Construction							
Site Prep/Restoration-Well Area	1	WL	$ 67,000	$ 67,000			
EW Driller Mobilization	1	LS	$ 11,500	$ 11,500		Includes subcontractor procurement.	
EW Drilling & Installation	1	EA	$ 268,000	$ 268,000		Includes all labor, subcontractor cost and materials for well drilling, screen installation, development, and pump installation. Also includes analytical.	
IDM	1	LS	$ 7,500	$ 7,500			
EW Pump, Motor & Assoc. Materials	1	WL	$ 29,500	$ 29,500		Includes installation.	Maximum design flow will be 125 gpm.
Pit Less Adapter	1	WL	$ 6,700	$ 6,700		Includes installation and mechanical work.	
Surveying	1	LS	$ 6,500	$ 6,500			
Piping	2,200	LF	$ 85	$ 187,000		Includes trenching and restoration with limited paving.	
Power, Electric, Communications	2,200	LF	$ 75	$ 165,000			
125 gpm Stand-Alone Treatment System	0	LS	$ 250,000	$ -		Includes all equipment, materials, labor, subcontracts, overhead, fee, etc.	Not Applicable as new EW will tie-into existing system.
Infiltration Trenches	0	EA	$ 75,000	$ -			Not Applicable as new EW will tie-into existing system.
SUBTOTAL					$ 1,126,200		
Overhead & Support	1	LS		$ 112,620		10% of costs	
TOTAL					$ 1,238,820		
CAPITAL COSTS - MONITORING WELL CONSTRUCTION COSTS							
Property Access Support (ROA)	1	LS	$ 13,000	$ 13,000		Includes NHESP fee.	
Site Prep/UXO Support/Restoration-Well Area	3	WELL	$ 50,000	$ 150,000		Per well cluster.	
Drilling Subcontractor Mobilization	1	LS	$ 8,500	$ 8,500			
LTM Well Drilling	3	EA	$ 87,000	$ 261,000		Includes all labor, subcontractor cost and materials for well drilling, screen installation, development, and pump installation. Also includes analytical.	One well cluster will include two screens.
IDM	3	LS	$ 5,000	$ 15,000			
Surveying	1	LS	$ 5,000	$ 5,000			
SUBTOTAL					$ 452,500		
Overhead & Support	1	LS		$ 45,250		10% of costs	
TOTAL					$ 497,750		

TABLE 11
Demo-1 Groundwater Alternative 6A
Cost Basis

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL	SUBTOTAL	COMMENTS	ASSUMPTIONS
CAPITAL COSTS - BASELINE HYDRAULIC MONITORING							
Baseline Performance and Environmental Sampling							
New EWs	1	LS	$ 13,500	$ 13,500			Hydraulic measurements only.
Baseline Report	1	LS	$ 13,500	$ 13,500		Incremental cost for incorporating additional data into previously-scoped annual report for Demo-1.	Assume separate report not required. Data will be rolled into previously-scoped annual report.
Overhead & Support	1	LS		$ 2,700		10% of costs	
TOTAL					$ 29,700		
ANNUAL COSTS - OPERATIONS AND MAINTENANCE							
Treatment System	1	YR	$ 450,000	$ 450,000			
TOTAL					$ 450,000		
TOTAL					$ 496,125	Escalated from 2012	initial year is 2014
ANNUAL COSTS - ANNUAL GROUNDWATER MONITORING							
Monitoring and Reporting	1	LS	$ 148,500	$ 148,500			Annual cost decreases by 10% every 2 years assuming fewer wells are monitored as plume footprint diminishes.
Overhead & Support	1	LS		$ 14,850		10% of costs	
TOTAL					$ 163,350		
CAPITAL COSTS - WELL ABANDONMENT							
System Decommissioning	1	LS	$ 250,000	$ 250,000		For the buildings	
EW Abandonment	7	WL	$ 18,500	$ 129,500			
MW Cluster Abandonment	1	LS	$ 70,000	$ 70,000			
SUBTOTAL					$ 449,500		
Overhead & Support	1	LS		$ 44,950		10% of costs	
TOTAL					$ 494,450		
DIRECT COSTS - SITE CLOSEOUT REPORT							
Report	1	LS	$ 80,000	$ 80,000			
Overhead & Support				$ 8,000		10% of costs	
TOTAL					$ 88,000		

TABLE 12
Demo-1 Groundwater Alternative 6A
Present Value Calculation

Year	Existing System and New Treatment System Design and Construction, System and Well Abandonment Costs	Baseline Monitoring Costs	Monitoring Costs	O&M Costs	Site Closeout Report	Total Cost (0% Discount)	Discount Factor (for 0.8%)	Total Present Value Cost at 0.8%	Calendar Year
0	$ 1,736,570	$ -	$ 163,350	$ 496,125	$ -	$ 2,396,045	1.0000	$ 2,396,045	2014
1	$ -	$ 29,700	$ 163,350	$ 496,125	$ -	$ 689,175	0.9921	$ 683,705	2015
2	$ -	$ -	$ 147,015	$ 496,125	$ -	$ 643,140	0.9842	$ 632,972	2016
3	$ -	$ -	$ 147,015	$ 496,125	$ -	$ 643,140	0.9764	$ 627,948	2017
4	$ -	$ -	$ 132,314	$ 496,125	$ -	$ 628,439	0.9686	$ 608,724	2018
5	$ -	$ -	$ 132,314	$ 496,125	$ -	$ 628,439	0.9609	$ 603,893	2019
6	$ -	$ -	$ 119,082	$ 496,125	$ -	$ 615,207	0.9533	$ 586,487	2020
7	$ -	$ -	$ 119,082	$ 496,125	$ -	$ 615,207	0.9457	$ 581,832	2021
8	$ -	$ -	$ 107,174	$ 496,125	$ -	$ 603,299	0.9382	$ 566,042	2022
9	$ -	$ -	$ 107,174	$ 496,125	$ -	$ 603,299	0.9308	$ 561,549	2023
10	$ -	$ -	$ 96,457	$ 496,125	$ -	$ 592,582	0.9234	$ 547,196	2024
11	$ -	$ -	$ 96,457	$ 496,125	$ -	$ 592,582	0.9161	$ 542,853	2025
12	$ -	$ -	$ 86,811	$ 496,125	$ -	$ 582,936	0.9088	$ 529,779	2026
13	$ -	$ -	$ 86,811	$ 496,125	$ -	$ 582,936	0.9016	$ 525,574	2027
14	$ -	$ -	$ 78,130	$ -	$ -	$ 78,130	0.8944	$ 69,883	2028
15	$ 494,450	$ -	$ 78,130	$ -	$ 88,000	$ 660,580	0.8873	$ 586,162	2029
TOTAL	$ 2,231,020	$ 29,700	$ 1,860,664	$ 6,945,750	$ 88,000	$ 11,155,134		$ 10,650,643	

TABLE 13
Demo-1 Groundwater Alternative 7
Cost Basis

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL	SUBTOTAL	COMMENTS	ASSUMPTIONS
CAPITAL COSTS - TREATMENT SYSTEM DESIGN, CONSTRUCTION, AND STARTUP COSTS							
Mobilization							
Property Access Support (ROA)	11	LS	$ 17,500	$ 192,500		Includes NHESP fee.	
Chemical and Hydraulic Study	11	LS	$185,000	$2,035,000		Necessary because the new EW may be sited where there is insufficient existing data. Includes site prep, drilling and oversight, data collection, analysis, data management, and interpretation of physical and chemical samples.	
Engineering							
EW Design	6	LS	$80,000	$ 480,000		Wellfield modeling; pump design.	Subdivided into 6 operational areas.
System Engineering Design	6	LS	$95,000	$ 570,000		Includes engineering design for the treatment system, pipeline, site engineering, and startup engineering.	Subdivided into 6 operational areas.
ETI Wellfield Construction							
Site Prep/Restoration-Well Area	6	WL	$ 67,000	$ 402,000			Subdivided into 6 operational areas.
EW Driller Mobilization	1	LS	$ 11,500	$ 11,500		Includes subcontractor procurement.	
EW Drilling & Installation	11	EA	$ 268,000	$2,948,000		Includes all labor, subcontractor cost and materials for well drilling, screen installation, development, and pump installation. Also includes analytical.	
IDM	11	LS	$ 7,500	$ 82,500			
EW Pump, Motor & Assoc. Materials	11	WL	$ 29,500	$ 324,500		Includes installation.	Maximum design flow will be 125 gpm.
Pit Less Adapter	11	WL	$ 6,700	$ 73,700		Includes installation and mechanical work.	
Surveying	6	LS	$ 6,500	$ 39,000			Subdivided into 6 operational areas.
Piping	15,000	LF	$ 85	$1,275,000		Includes trenching and restoration with limited paving.	
Power, Electric, Communications	15,000	LF	$ 75	$1,125,000			
125 gpm Stand-Alone Treatment System	4	LS	$ 250,000	$1,000,000		Includes all equipment, materials, labor, subcontracts, overhead, fee, etc.	4 MTUs required.
Infiltration Trenches	4	EA	$ 75,000	$ 300,000			4 Discharge trenches required.
SUBTOTAL					$ 10,858,700		
Overhead & Support	1	LS		$1,085,870		10% of costs	
TOTAL					$ 11,944,570		
CAPITAL COSTS - BASELINE HYDRAULIC MONITORING							
Baseline Performance and Environmental Sampling							
New EWs	11	LS	$ 13,500	$ 148,500			Hydraulic measurements only.
Baseline Report	11	LS	$ 13,500	$ 148,500		Incremental cost for incorporating additional data into previously-scoped annual report for Demo-1.	Assume separate report not required. Data will be rolled into previously-scoped annual report.
Overhead & Support	1	LS		$ 29,700		10% of costs	
TOTAL					$ 326,700		

TABLE 13
Demo-1 Groundwater Alternative 7
Cost Basis

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL	SUBTOTAL	COMMENTS	ASSUMPTIONS
ANNUAL COSTS - OPERATIONS AND MAINTENANCE							
Treatment System	1	YR	$ 650,000	$ 650,000			
TOTAL					$ 650,000		
TOTAL					$ 716,625	Escalated from 2012	initial year is 2014
ANNUAL COSTS - ANNUAL GROUNDWATER MONITORING							
Monitoring and Reporting	1	LS	$ 222,750	$ 222,750			Annual cost decreases by 10% every 2 years assuming fewer wells are monitored as plume footprint diminishes.
Overhead & Support	1	LS		$ 22,275		10% of costs	
TOTAL					$ 245,025		
CAPITAL COSTS - WELL ABANDONMENT							
System Decommissioning	1	LS	$ 275,000	$ 275,000		For the buildings	
EW Abandonment	17	WL	$ 18,500	$ 314,500			
MW Cluster Abandonment	1	LS	$ 70,000	$ 70,000			
SUBTOTAL					$ 659,500		
Overhead & Support	1	LS		$ 65,950		10% of costs	
TOTAL					$ 725,450		
DIRECT COSTS - SITE CLOSEOUT REPORT							
Report	1	LS	$ 80,000	$ 80,000			
Overhead & Support				$ 8,000		10% of costs	
TOTAL					$ 88,000		

TABLE 14
Demo-1 Groundwater Alternative 7
Present Value Calculation

Year	Existing System and New Treatment System Design and Construction, System and Well Abandonment Costs	Baseline Monitoring Costs	Monitoring Costs	O&M Costs	Site Closeout Report	Total Cost (0% Discount)	Discount Factor (for 0.1%)	Total Present Value Cost at 0.1%	Calendar Year
0	$ 11,944,570	$ -	$ 245,025	$ 716,625	$ -	$ 12,906,220	1.0000	$ 12,906,220	2014
1	$ -	$ 326,700	$ 245,025	$ 716,625	$ -	$ 1,288,350	0.9990	$ 1,287,063	2015
2	$ -	$ -	$ 220,523	$ 716,625	$ -	$ 937,148	0.9980	$ 935,276	2016
3	$ -	$ -	$ 220,523	$ 716,625	$ -	$ 937,148	0.9970	$ 934,342	2017
4	$ -	$ -	$ 198,470	$ -	$ -	$ 198,470	0.9960	$ 197,678	2018
5	$ 725,450	$ -	$ 198,470	$ -	$ 88,000	$ 1,011,920	0.9950	$ 1,006,876	2019
TOTAL	$ 12,670,020	$ 326,700	$ 1,328,036	$ 2,866,500	$ 88,000	$ 17,279,256		$ 17,267,455	

TABLE 15
Demo-1 Groundwater Alternative 4A
Cost Basis

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL	SUBTOTAL	COMMENTS	ASSUMPTIONS
CAPITAL COSTS - TREATMENT SYSTEM DESIGN, CONSTRUCTION, AND STARTUP COSTS							
Mobilization							
Property Access Support (ROA)	1	LS	$ 17,500	$ 17,500		Includes NHESP fee.	
Chemical and Hydraulic Study	1	LS	$185,000	$ 185,000		Necessary because the new EW may be sited where there is insufficient existing data. Includes site prep, drilling and oversight, data collection, analysis, data management, and interpretation of physical and chemical samples.	
Engineering							
EW Design	1	LS	$80,000	$ 80,000		Wellfield modeling; pump design.	
System Engineering Design	1	LS	$95,000	$ 95,000		Includes engineering design for the treatment system, pipeline, site engineering, and startup engineering.	
ETI Wellfield Construction							
Site Prep/Restoration-Well Area	1	WL	$ 67,000	$ 67,000			
EW Driller Mobilization	1	LS	$ 11,500	$ 11,500		Includes subcontractor procurement.	
EW Drilling & Installation	1	EA	$ 268,000	$ 268,000		Includes all labor, subcontractor cost and materials for well drilling, screen installation, development, and pump installation. Also includes analytical.	
IDM	1	LS	$ 7,500	$ 7,500			
EW Pump, Motor & Assoc. Materials	1	WL	$ 29,500	$ 29,500		Includes installation.	Maximum design flow will be 125 gpm.
Pit Less Adapter	1	WL	$ 6,700	$ 6,700		Includes installation and mechanical work.	
Surveying	1	LS	$ 6,500	$ 6,500			
Piping	500	LF	$ 85	$ 42,500		Includes trenching and restoration with limited paving.	
Power, Electric, Communications	500	LF	$ 75	$ 37,500			
125 gpm Stand-Alone Treatment System	1	LS	$ 250,000	$ 250,000		Includes all equipment, materials, labor, subcontracts, overhead, fee, etc.	
Infiltration Trenches	1	EA	$ 75,000	$ 75,000			
SUBTOTAL					$ 1,179,200		
Overhead & Support	1	LS		$ 117,920		10% of costs	
TOTAL					$ 1,297,120		
CAPITAL COSTS - BASELINE HYDRAULIC MONITORING							
Baseline Performance and Environmental Sampling							
New EWs	1	LS	$ 13,500	$ 13,500			Hydraulic measurements only.
Baseline Report	1	LS	$ 13,500	$ 13,500		Incremental cost for incorporating additional data into previously-scoped annual report for Demo-1.	Assume separate report not required. Data will be rolled into previously-scoped annual report.
Overhead & Support	1	LS		$ 2,700		10% of costs	
TOTAL					$ 29,700		

TABLE 15
Demo-1 Groundwater Alternative 4A
Cost Basis

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL	SUBTOTAL	COMMENTS	ASSUMPTIONS
ANNUAL COSTS - OPERATIONS AND MAINTENANCE							
Treatment System	1	YR	$ 500,000	$ 500,000			
TOTAL					$ 500,000		
TOTAL					$ 551,250	Escalated from 2012	initial year is 2014
ANNUAL COSTS - ANNUAL GROUNDWATER MONITORING							
Monitoring and Reporting	1	LS	$ 148,500	$ 148,500			Annual cost decreases by 10% every 2 years assuming fewer wells are monitored as plume footprint diminishes.
Overhead & Support	1	LS		$ 14,850		10% of costs	
TOTAL					$ 163,350		
CAPITAL COSTS - WELL ABANDONMENT							
System Decommissioning	1	LS	$ 225,000	$ 225,000		For the buildings	
EW Abandonment	7	WL	$ 18,500	$ 129,500			
MW Cluster Abandonment	1	LS	$ 70,000	$ 70,000			
SUBTOTAL					$ 424,500		
Overhead & Support	1	LS		$ 42,450		10% of costs	
TOTAL					$ 466,950		
DIRECT COSTS - SITE CLOSEOUT REPORT							
Report	1	LS	$ 80,000	$ 80,000			
Overhead & Support				$ 8,000		10% of costs	
TOTAL					$ 88,000		

TABLE 16
Demo-1 Groundwater Alternative 4A
Present Value Calculation

Year	Existing System and New Treatment System Design and Construction, System and Well Abandonment Costs	Baseline Monitoring Costs	Monitoring Costs	O&M Costs	Site Closeout Report	Total Cost (0% Discount)	Discount Factor (for 0.8%)	Total Present Value Cost at 0.8%	Calendar Year
0	$ 1,297,120	$ -	$ 163,350	$ 551,250	$ -	$ 2,011,720	1.0000	$ 2,011,720	2014
1	$ -	$ 29,700	$ 163,350	$ 551,250	$ -	$ 744,300	0.9921	$ 738,393	2015
2	$ -	$ -	$ 147,015	$ 551,250	$ -	$ 698,265	0.9842	$ 687,225	2016
3	$ -	$ -	$ 147,015	$ 551,250	$ -	$ 698,265	0.9764	$ 681,771	2017
4	$ -	$ -	$ 132,314	$ 551,250	$ -	$ 683,564	0.9686	$ 662,120	2018
5	$ -	$ -	$ 132,314	$ 551,250	$ -	$ 683,564	0.9609	$ 656,865	2019
6	$ -	$ -	$ 119,082	$ 551,250	$ -	$ 670,332	0.9533	$ 639,038	2020
7	$ -	$ -	$ 119,082	$ 551,250	$ -	$ 670,332	0.9457	$ 633,967	2021
8	$ -	$ -	$ 107,174	$ 551,250	$ -	$ 658,424	0.9382	$ 617,762	2022
9	$ -	$ -	$ 107,174	$ 551,250	$ -	$ 658,424	0.9308	$ 612,859	2023
10	$ -	$ -	$ 96,457	$ 551,250	$ -	$ 647,707	0.9234	$ 598,099	2024
11	$ -	$ -	$ 96,457	$ 551,250	$ -	$ 647,707	0.9161	$ 593,352	2025
12	$ -	$ -	$ 86,811	$ 551,250	$ -	$ 638,061	0.9088	$ 579,877	2026
13	$ -	$ -	$ 86,811	$ -	$ -	$ 86,811	0.9016	$ 78,269	2027
14	$ 466,950	$ -	$ 78,130	$ -	$ 88,000	$ 633,080	0.8944	$ 566,254	2028
TOTAL	$ 1,764,070	$ 29,700	$ 1,782,534	$ 7,166,250	$ 88,000	$ 10,830,554		$ 10,357,571	